Federal Aviation Administration

FINAL REPORT
REMEDIAL INVESTIGATION

RANGE FACILITY
RALSTON ISLAND, JUNEAU, ALASKA

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March 2026

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Federal Aviation Administration

FINAL REPORT
REMEDIAL INVESTIGATION

RANGE FACILITY
RALSTON ISLAND, JUNEAU, ALASKA

Prepared by:

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March 2026

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QUALIFIED ENVIRONMENTAL PROFESSIONALS

2026 Remedial Investigation Report
FAA Range Facility
Ralston Island, Juneau, Alaska

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ACRONYMS AND ABBREVIATIONS

%R	percent recovery
AAC	*Alaska Administrative Code*
ADEC	Alaska Department of Environmental Conservation
AST	aboveground storage tank
B	data flag: analyte was detected in the method blank
bgs	below ground surface
COC	contaminant of concern
CSM	conceptual site model
DL	detection limit
DQO	data quality objective
DRO	diesel-range organics
DRO-SG	diesel-range organics with silica gel cleanup
ELAP	Department of Defense Environmental Laboratory Accreditation Program
FAA	Federal Aviation Administration
GMW	groundwater monitoring well
GNSS	global navigation satellite system
GPS	global positioning system
ID	identification
IDW	investigation-derived waste
J	data flag: estimated result
J-	data flag: estimated result biased low
J+	data flag: estimated result biased high
JM	data flag: estimated result with unknown bias
JS	data flag: estimated result due to surrogate recovery between 150% and 200%
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantitation
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
PID	photoionization detector

QA	quality assurance
QC	quality control
QR	data flag: results are rejected for quantitative use due to surrogate recovery greater than 200%; results may be used qualitatively
RI	remedial investigation
RPD	relative percent difference
RTK	real-time kinematic
SEARCH	Sustainable Earth Research LLC
SGS	SGS North America
SP	spill point
TALCES	TALCES JV, LLC
TOC	total organic carbon
U	data flag: undetected at the detection limit

EXECUTIVE SUMMARY

This report documents the 2024 remedial investigation (RI) to assess media contaminated by diesel-range organics (DRO) on the Federal Aviation Administration (FAA) Ralston Island Former Range Facility. The primary objective was to define the vertical and horizontal extent of contaminated media exceeding the Alaska Department of Environmental Conservation (ADEC) Table B2, Method Two, Over 40-Inch Zone Migration to Groundwater Cleanup Levels, in the soil and Table C, Groundwater Cleanup Levels for groundwater. DRO soil samples were analyzed for DRO and DRO with silica gel (DRO-SG) to reduce or eliminate the effects of biogenic organics on sample results to quantify petroleum constituents.

Ten spill locations previously documented were identified using survey data, and step-out sample locations were marked around the historical hot spots to delineate clean boundaries. Field investigations advanced 68 soil borings using a direct-push drill rig to collect 156 analytical soil samples and install two temporary wells and five permanent groundwater monitoring wells. Field personnel collected eight groundwater samples from the permanent wells and collected six surface water samples from three surface water bodies. Interpretation of sample chromatograms shows soil sample DRO results were affected by biogenic materials at this site. Sites SP1, SP2, SP5, SP9, and SP10 have soil DRO concentrations above the Table B2, Method Two Migration to Groundwater, Over 40-inch Zone level of 230 milligrams per kilogram. SP3, SP4, SP6, SP7, and SP8 have DRO results below the Table B2, Method Two Migration to Groundwater, Over 40-inch Zone level of 230 milligrams per kilogram. Results of the groundwater and surface water samples indicated concentrations of DRO below applicable cleanup levels.

Based on the 2024 RI results, soil, groundwater and surface water are completed pathways, but are considered insignificant.

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1.0 INTRODUCTION

The Federal Aviation Administration (FAA) tasked TALCES JV, LLC (TALCES) to conduct a remedial investigation (RI) at the FAA's former Range Facility on Ralston Island, Juneau, Alaska, depicted in Figure 1-1. The former Range Facility had several buildings, a latrine, towers, a cistern, and a fuel pipeline. This work was conducted under Contract 697DCK-24-C-00040 issued by the FAA to TALCES on 7 December 2023.

TALCES mobilized to Juneau, Alaska, on 19 April 2024 to perform the RI at the FAA's former Range Facility on Ralston Island, Alaska. The work was performed according to the Work Plan (FAA 2024) approved by the Alaska Department of Environmental Conservation (ADEC). The Work Plan was developed according to the following ADEC guidance documents:

- *Policy Guidance on Developing Conceptual Site Models* (ADEC 2017a)
- *Site Characterization, Work Plan, and Reporting Guidance for Investigation of Contaminated Sites* (ADEC 2017b)
- *Field Sampling Guidance* (ADEC 2022a). (This work was completed before the October 2024 updates.)
- *Technical Memorandum 22-001 – Guidelines for Data Reporting* (ADEC 2022b)
- *Monitoring Well Guidance* (ADEC 2013)
- *Technical Memorandum 21-001 – Biogenic Interference and Silica Gel Cleanup* (ADEC 2021)

1.1 PURPOSE

The purpose of the 2024 RI was to gather qualitative and quantitative data from the Ralston Island spill locations and background areas in surface and subsurface soils, groundwater, and surface water to provide a sufficient basis for necessary additional remediation or justification to request site closure.

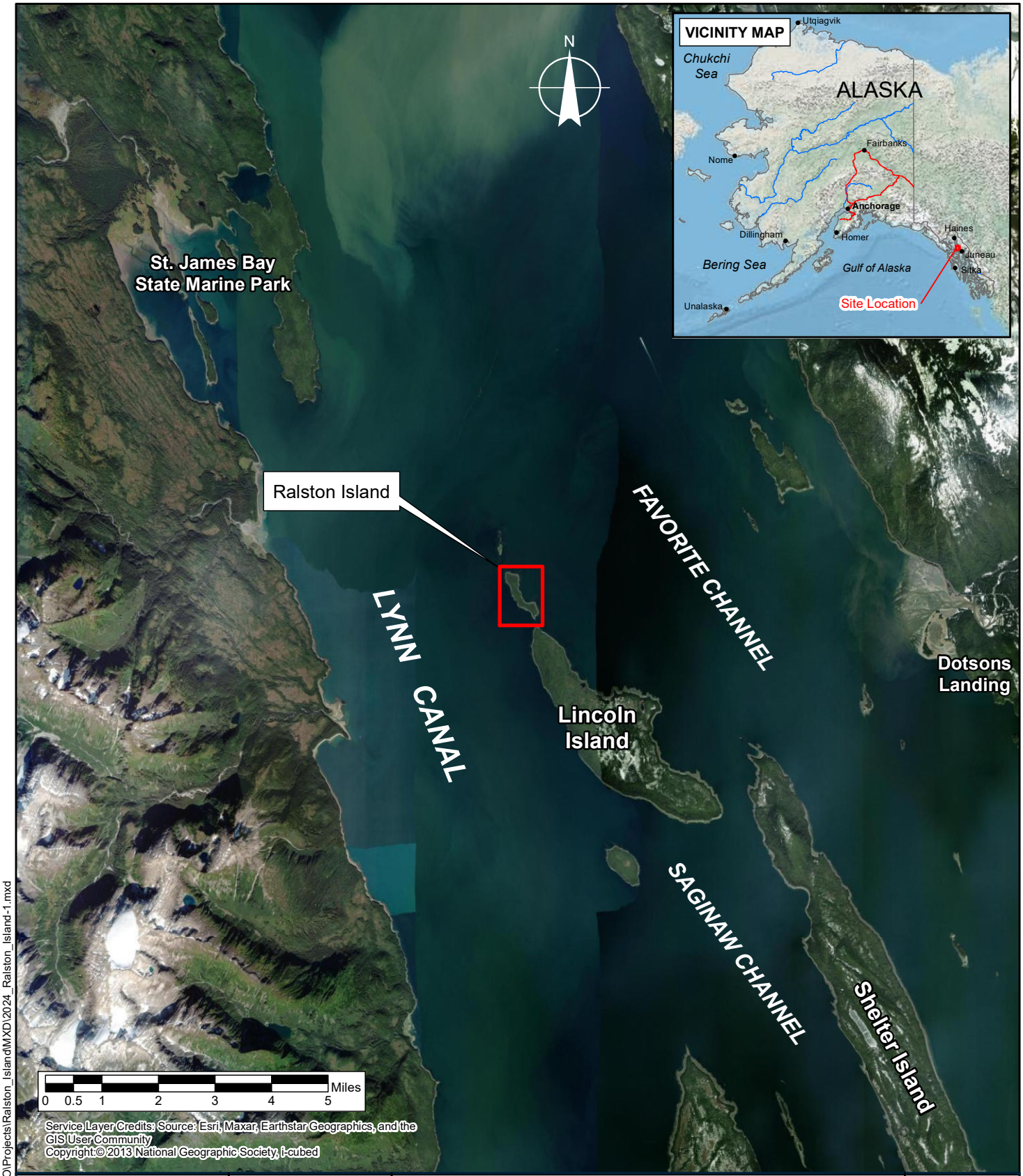
1.2 PROJECT OBJECTIVES

The objective of the RI was to define the vertical and horizontal extent of media contaminated with diesel-range organics (DRO) that exceed the ADEC Table B2, Method 2, Over 40 Inch Zone Migration to Groundwater Cleanup Levels, in the soil and Table C, Groundwater Cleanup Levels for Groundwater, in Title 18, Chapter 75, of *the Alaska Administrative Code* (AAC; ADEC 2023). A direct-push drill rig was used to advance soil borings for soil sample collection and install groundwater monitoring wells (GMWs) for groundwater sample collection and analysis. The RI also evaluated the presence or absence of contamination in surface water samples.

1.3 REPORT ORGANIZATION

This document is organized as follows.

- **Section 1.0, Introduction,** discusses the purpose and objectives of the 2024 RI, facility descriptions, and summary of historical investigations.
- **Section 2.0, Station Overview and Environmental Setting,** provides an overview of the station features and physical characteristics of the vicinity.
- **Section 3.0, Regulatory Setting and Cleanup Criteria,** presents the site-specific risk-based assumptions and identifies the contaminants of concern (COCs) and the regulatory cleanup criteria for groundwater, soils, and surface water.



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RALSTON ISLAND LOCATION MAP

Remedial Investigation Report
Ralston Range Facility Ralston Island, AK

FIGURE

1-1

- **Section 4.0, Field Activities and Findings.** describes the RI activities, identifies the deviations from the approved Work Plan, and details the results of laboratory analyses and disposal of investigation-derived waste (IDW).
- **Section 5.0, Conceptual Site Model** (CSM), describes the changes made to the Ralston Island Range Facility CSM resulting from the 2024 RI observations.
- **Section 6.0, Analytical Data Quality,** summarizes the findings of the data validation and quality review.
- **Section 7.0, Conclusions and Recommendations,** summarizes the findings of the 2024 RI and lists recommended actions at each of the spill locations.
- **Section 8.0, References,** lists the references cited in this document.
- **Appendix A, ADEC Acceptance Letter and Response to Comments,** provides ADEC comments.
- **Appendix B, Photographs,** provides photographic documentation of field activities.
- **Appendix C, Conceptual Site Model,** contains the updated CSM checklists and a graphical depiction of the CSM.
- **Appendix D, Field Information,** includes the native files of supporting documentation (such as tables and figures), which are only provided in electronic submissions.
- **Appendix E, Data Review Checklists and Laboratory Data.** contains the raw analytical data, laboratory data reports, and data review checklists.
- **Appendix F, Waste Transport and Disposal Form**

1.4 FACILITY DESCRIPTION AND PREVIOUS INVESTIGATIONS

Ralston Island lies approximately 30 miles northwest of Juneau in the Lynn Canal, just north of Lincoln Island. The island is approximately 4,500 feet long (north to south), averages approximately 800 feet wide, and occupies approximately 70 acres. The northwestern shore features steep banks reaching 20 to 30 feet above highwater. The rest of the island shores feature more gradual slopes and a sheltered lagoon on the eastern portion of the island at low tide.

Tidal fluctuations are typically 18 to 20 feet and can reach 25 feet at tidal extremes. Ralston Island is historically dryest in the spring and warmest in July and August (FAA 2014).

1.4.1 RALSTON ISLAND RANGE FACILITY

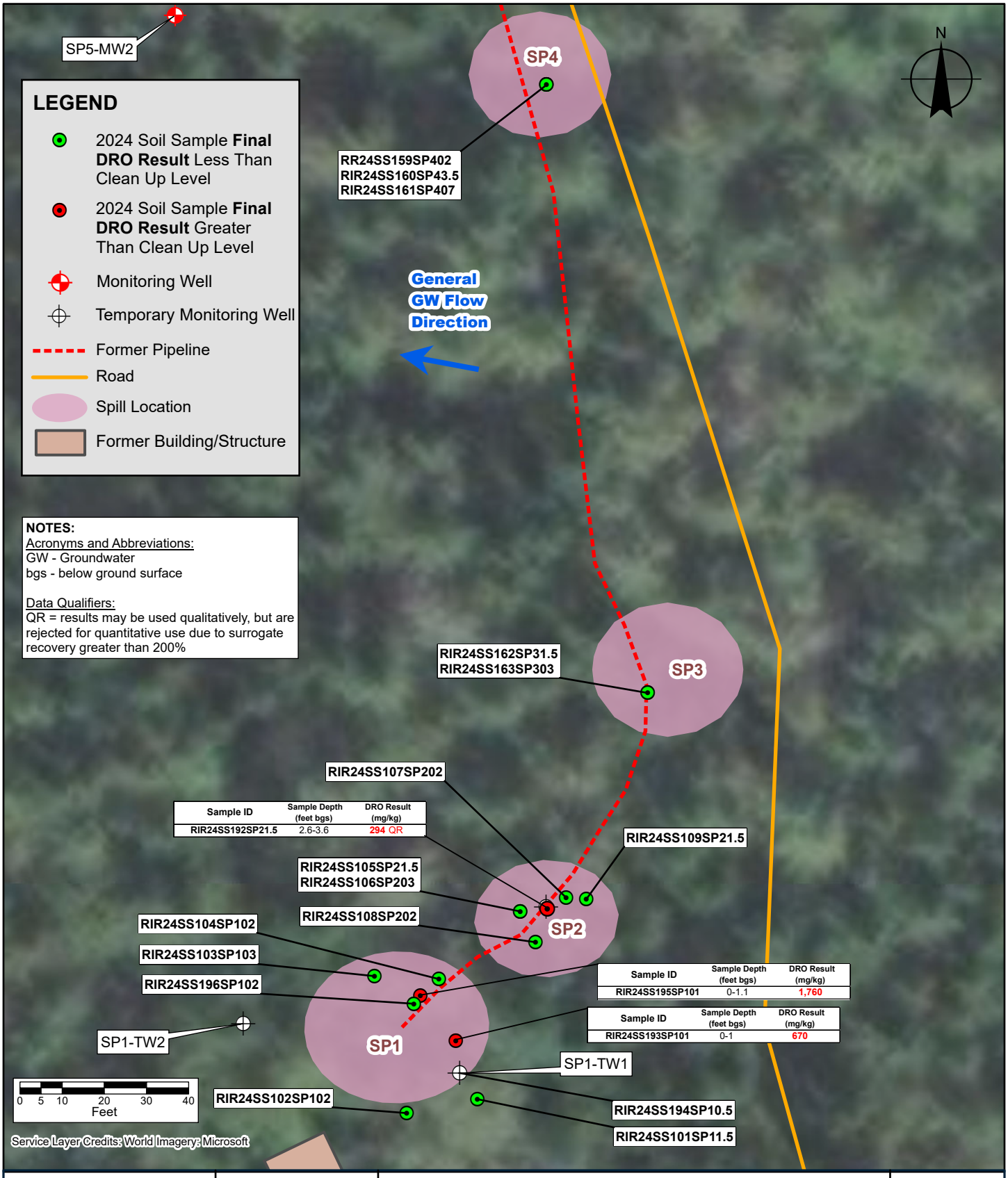
The Ralston Island Range Facility site consists of 10 areas of concern (AOCs), identified as spill locations (FAA 2014 and 2023).

1.4.1.1 SPILL LOCATION 1

This spill location, shown in Figure 1-2, encompasses former sample locations SB004, SB003, and SB019. This location is at the southern end of the pipeline near the former middle cabin where 1.5 cubic yards of soil was excavated (confirmation samples SB003 and SB004), and within the area where the pipeline was surface laid and had corroded over the years through the pipeline wall (SB019). DRO concentrations ranged from 1,800 B (analyte was detected in the method blank) to 15,000 milligrams per kilogram (mg/kg) in this location.

1.4.1.2 SPILL LOCATION 2

This spill location, shown in Figure 1-2, is former sample location SB005, located approximately 50 feet north of the former middle cabin. The sample from this location had the second-highest reported DRO result at 44,000 mg/kg.



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RALSTON ISLAND 2024 SOIL SAMPLING AT SPILL LOCATIONS 1 THROUGH 4

Remedial Investigation Report
Ralston Range Facility Ralston Island, AK

FIGURE

1-2

1.4.1.3 SPILL LOCATION 3

This spill location, shown in Figure 1-2, is former sample location SB007, located approximately 100 feet north of the former middle cabin. The DRO concentration in the sample collected from this location was 740 mg/kg, which exceeds the cleanup level but is below the background sample DRO concentration of 830 mg/kg.

1.4.1.4 SPILL LOCATION 4

This spill location, shown in Figure 1-2, is former sample location SB009, located approximately 200 feet north of the former middle cabin. The DRO concentration in the sample collected from this location was 660 mg/kg, which is above the cleanup level but below the background sample result.

1.4.1.5 SPILL LOCATION 5

This spill location, shown in Figure 1-3, encompasses former sample locations SB017 and SB018. SB017 is located 315 feet south of the former aboveground storage tank (AST) location, within the area where the pipeline was surface laid and had corroded over the years through the pipeline wall. The sample collected from this location exhibited the highest observed DRO concentration at 160,000 mg/kg. The DRO concentration in the sample collected from SB018, located approximately 15 feet away, was 930 mg/kg.

1.4.1.6 SPILL LOCATION 6

This spill location, shown in Figure 1-3, encompasses former sample locations SB013 and SB015, located 130 and 165 feet south, respectively, of the former AST location. The DRO concentration in samples collected from these locations were 1,700 mg/kg and 840 mg/kg, respectively.

1.4.1.7 SPILL LOCATION 7

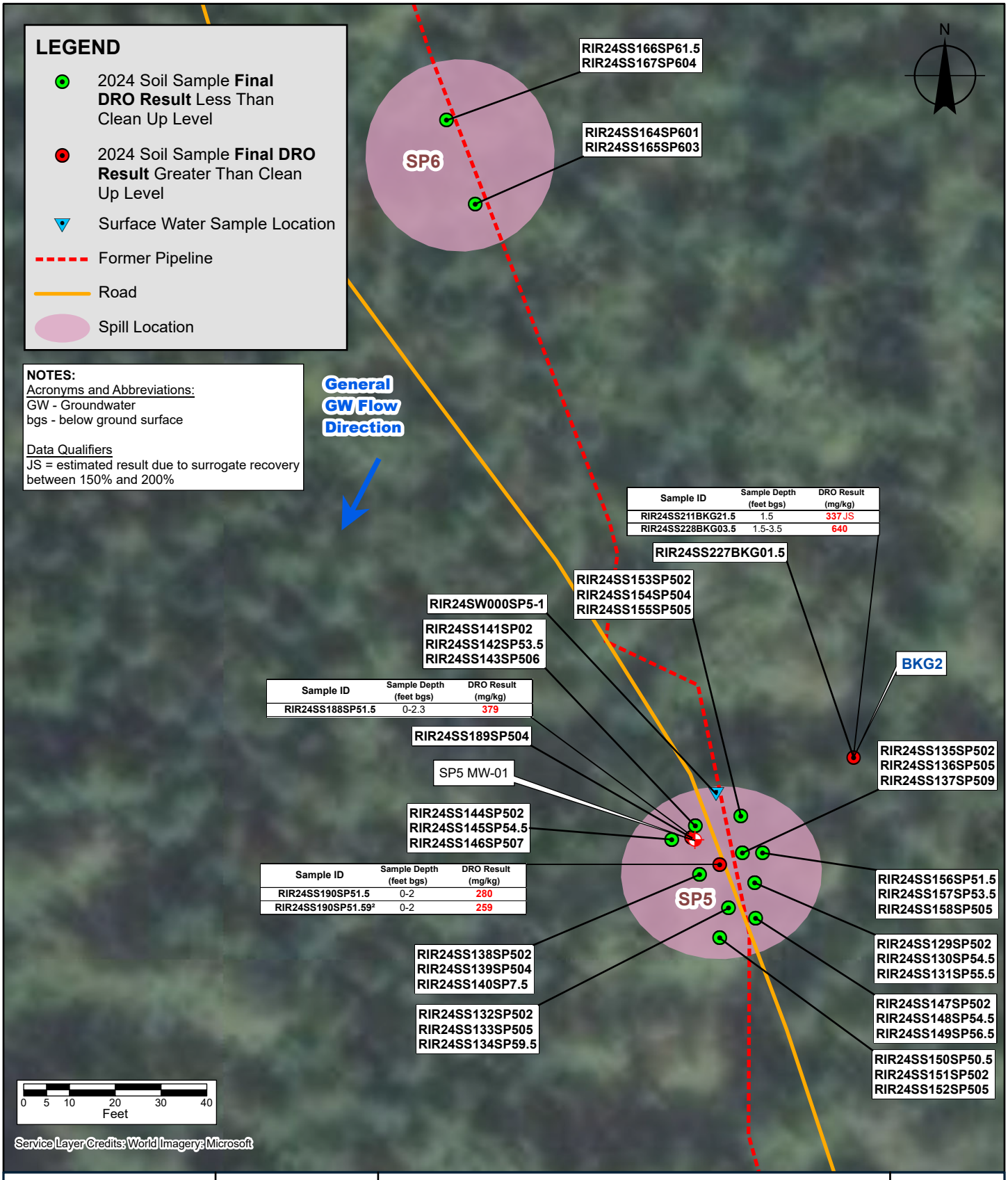
This spill location, shown in Figure 1-4, encompasses former sample locations SB011 and SB012, located 65 and 85 feet south, respectively, of the former AST location. The DRO concentrations in samples collected from these locations were 490 mg/kg, which is below the background sample result, and 1,500 mg/kg, respectively.

1.4.1.8 SPILL LOCATION 8

This spill location, shown in Figure 1-4, is former sample location SB010, located 45 feet south of the former AST location. The DRO concentration in the sample collected from this location was 840 mg/kg.

1.4.1.9 SPILL LOCATION 9

This spill location, shown in Figure 1-4, encompasses former sample locations SB001, SB002, SB020, SB014, and SB016. These sample locations begin at the former AST, extend south approximately 20 feet, and include the 2013 excavation. The DRO concentrations in the samples collected from these locations ranged from 410 mg/kg at 5 feet from the AST to 3,500 mg/kg at the former AST. Both confirmation soil samples collected from the excavation exceeded the Method 2 cleanup level but were below the background sample result.



Sample ID	Sample Depth (feet bgs)	DRO Result (mg/kg)
RIR24SS211BKG21.5	1.5	337 JS
RIR24SS228BKG03.5	1.5-3.5	640

Sample ID	Sample Depth (feet bgs)	DRO Result (mg/kg)
RIR24SS188SP51.5	0-2.3	379

Sample ID	Sample Depth (feet bgs)	DRO Result (mg/kg)
RIR24SS190SP51.5	0-2	280
RIR24SS190SP51.59²	0-2	259

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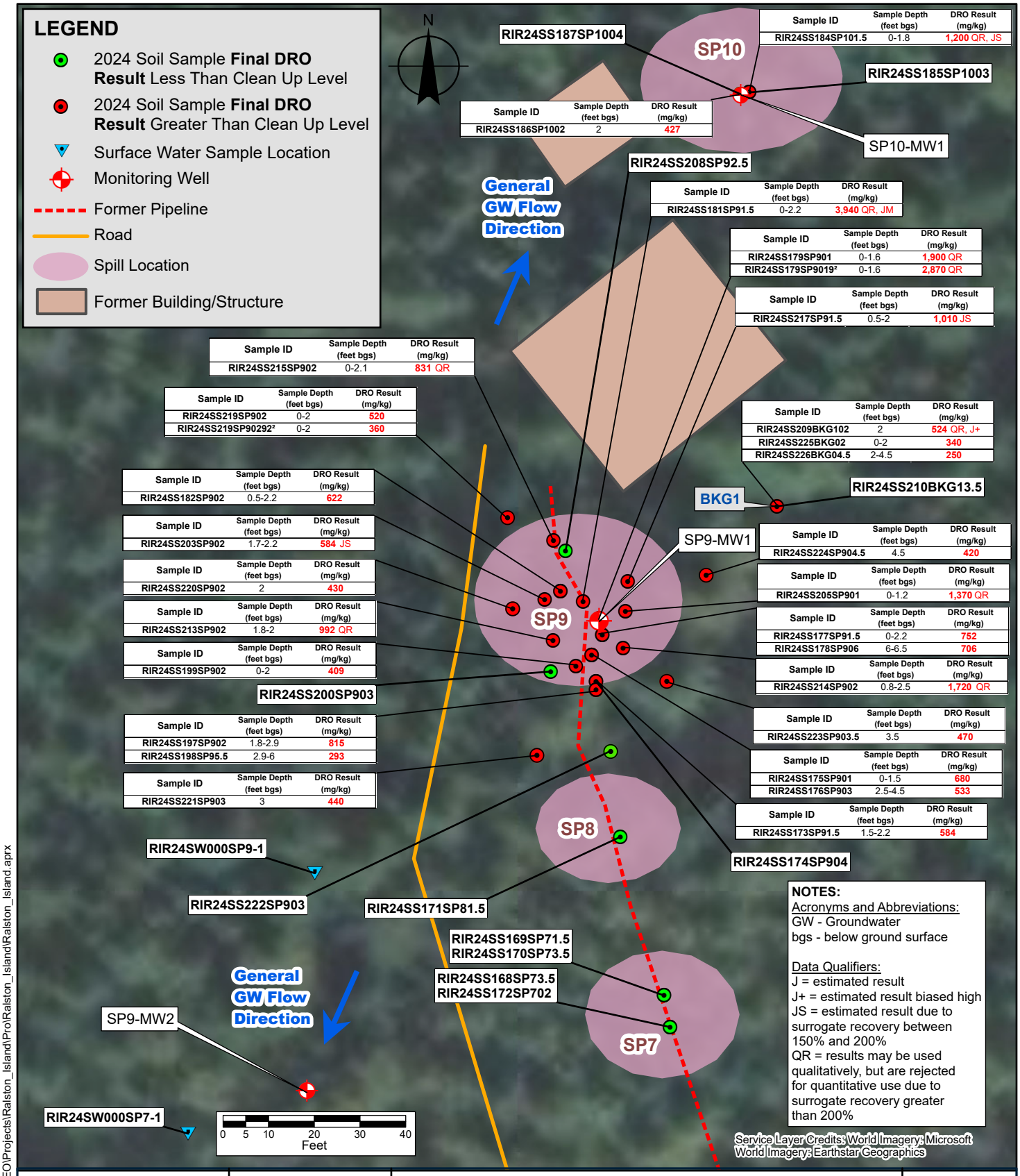
RALSTON ISLAND 2024 SOIL SAMPLING AT SPILL LOCATIONS 5 AND 6

Remedial Investigation Report
Ralston Range Facility Ralston Island, AK

FIGURE

1-3



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RALSTON ISLAND 2024 SOIL SAMPLING AT SPILL LOCATIONS 7 THROUGH 10

Remedial Investigation Report
Ralston Range Facility Ralston Island, AK

FIGURE
1-4

1.4.1.10 SPILL LOCATION 10

This spill location, shown in Figure 1-4, is the former latrine/outhouse, former sample location PT001. Samples collected adjacent to the pit at approximately 4 feet below ground surface (bgs) exhibited DRO concentrations of 510 mg/kg and 550 mg/kg, which are below the background sample result.

1.4.2 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

The Ralston Island Range Facility was added to the ADEC Contaminated Sites database in 2009. The following sections summarize the environmental activities performed since its inclusion.

1.4.2.1 2013 DEMOLITION AND SITE CHARACTERIZATION

As part of a demolition project in May 2013, North Wind Services provided the following: removal of contaminated soil, pipeline removal, cistern decommissioning, tower demolition, building demolition, debris removal, and latrine and post-excavation characterization sampling (FAA 2014).

1.4.2.2 2015 RECORDS REVIEW

ADEC reviewed the Ralston Island Range environmental records in 2015 and determined that the contaminant concentrations likely exceeded allowable exposure levels. ADEC informed FAA that further work at the site would be required.

2.0 STATION OVERVIEW AND ENVIRONMENTAL SETTING

The FAA operated a Range Facility on Ralston Island from 1941 to 1949. Ralston Island was transferred to the State of Alaska in 2005 and is part of the Alaska State Park System, Juneau Channel Islands State Marine Park, administered by the Alaska Department of Natural Resources (ADNR).

2.1 STATION OVERVIEW

Past fuel handling operations included transferring fuel from ASTs through a 2-inch-inside-diameter pipeline located between the former main cabin at the northern side of the facility and the former middle cabin near the center of the island. This transfer of fuel has resulted in known areas of petroleum-contaminated soil at the former AST location and at several points along the pipeline (FAA 2014).

In May 2013, most of the infrastructure remaining from the FAA's presence on the Island was removed, and an investigation was performed to determine whether soil contamination was present. The results of this investigation are detailed in the *Final Summary Report for Decommissioning the Ralston Island Range, Ralston Island, Alaska* (FAA 2014) and summarized below:

- Three buildings and a latrine were demolished. (The latrine pit was backfilled.)
- Safety hazards for humans and wildlife were abated at the former steel tower bases.
- The concrete water cistern was demolished.
- The wooden antenna poles were cut to 8 feet high, and the climbing rungs on the poles were removed.
- Approximately 700 feet of 2-inch fuel pipeline was removed.
- Twenty primary soil samples were collected at areas where field screening with a photoionization detector (PID) and PetroFlag test kits indicated contamination from petroleum compounds. Only diesel-range organics (DRO) concentrations exceeded the migration-to-groundwater cleanup levels in select samples (FAA 2014).

2.1.1 IDENTIFICATION OF DRINKING WATER SOURCES

No sources of drinking water have been identified on Ralston Island. Neither groundwater nor surface water have been used as drinking water sources because of insufficient volume and brackish nature; however; because the site has not received an 18 AAC 75.350 determination, groundwater is considered a future drinking water source. The FAA Ralston Island Range Facility resorted to collecting and treating rainwater during its operation (FAA 2014).

2.1.2 LAND USE

Because Ralston Island is included in the Alaska Park System, there is no current or future residential use on the Island. The island is visited by recreational users such as boaters, kayakers, and campers.

2.2 PHYSICAL CHARACTERISTICS

Ralston Island is an approximately 70-acre island located in the Lynn Canal approximately 30 miles northwest of Juneau, and just north of Lincoln Island (Figure 1-1). The Island is approximately 4,000 feet long in a north to south direction and averages 800 feet in width. The banks found along the northwestern edge of the island are approximately 20 to 30 feet above the average high-tide water line. The eastern and southern edges of the island slope more gently into a somewhat sheltered lagoon (eastern side at low tide). Average tidal fluctuations within a day are approximately 18 to 20 feet. The largest variation between high and low tides

can be as much as 25 feet. The sunniest and driest months are typically April and May. The warmest months are July and August (FAA 2014).

Most of the FAA facility infrastructure was located on the northern half of the Island (Figure 1-4). The infrastructure included three buildings, a water supply cistern, a latrine, a buried fuel line, ASTs for fuel, steel transmitter towers, and wooden antennae poles. There is no road access to Ralston Island; access is either via air or water. Boats were used as transport from the mainland to a road at the southern end of the island, and vehicles were used to travel on the road to the facilities. Currently there are no facilities on Ralston Island (FAA 2023).

3.0 REGULATORY SETTING AND CLEANUP CRITERIA

The applicable ADEC cleanup level for DRO in soil is the most stringent listed in 18 AAC 75, Table B2, for the Over 40-inch Zone, Migration to Groundwater Cleanup Level, of 230 mg/kg (ADEC 2023). The applicable ADEC cleanup level for DRO in groundwater is the Table C cleanup level of 1.5 milligrams per liter (mg/L) (ADEC 2023). Because surface water is not anticipated to be used for drinking water, surface water DRO results were used to establish presence or absence of DRO.

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4.0 FIELD ACTIVITIES AND FINDINGS

This section describes the work performed during the 2024 RI. Project photographs are presented in Appendix B, and field notes and forms are provided in Appendix D.

4.1 INVESTIGATION

Personnel and equipment mobilized to Juneau on 19 April 2024 and commuted between Ralston Island and Juneau via landing craft each of the following 13 days. Demobilization activities were completed on 3 May 2024. Subsequent review of the analytical data revealed additional data gaps; therefore, a second field effort was conducted 16 through 18 October 2024 to complete lateral delineation of Spill Location 9.

4.1.1 SUMMARY OF INVESTIGATION ACTIVITIES

Historical features and sample points at the 10 spill locations were identified using survey data and equipment, and step-out sample locations were marked around the historical hot spots. Historical hot spots were sampled to confirm the presence or absence of DRO. Where contaminant concentrations exceeded cleanup levels at the historical hot spots, additional samples were collected from the step-out locations to delineate the extents of affected media. Soil borings were advanced using a direct-push drilling unit, collecting soil columns in macrocore sleeves. The soil columns were logged and screened using visual, olfactory, and PID heated headspace. Based on professional judgement and screening indications, soil samples were collected by a Qualified Environmental Professional (QEP) from the macrocores for DRO and diesel-range organics with silica gel cleanup (DRO-SG) analysis. Based on the analytical results, additional step-outs were advanced, or the area was considered either delineated or attenuated.

Background samples were collected outside the hot spot areas and at depths based on historical contaminant observations to establish naturally occurring levels of DRO and DRO-SG.

GMWs were advanced using the direct-push drill rig and installed with the screened interval targeting the saturated zone and spanning the vadose zone.

4.1.2 DEVIATIONS FROM THE WORK PLAN

Prior to mobilization, the analytical laboratory notified TALCES that it may not be able to process both DRO and DRO-SG samples and provide results within 24 hours. On 11 April 2024, TALCES requested ADEC via email to approve analyzing the DRO-SG samples first until a clean boundary was reached; and to include both DRO and DRO-SG results in all clean boundary samples. ADEC approved the request on 16 April 2024, via email (Appendix A) to perform DRO-SG analysis on all delineation samples until a clean boundary was reached.

Initial step-out sample results exhibited contaminant concentrations below ADEC cleanup levels; therefore, the investigation approach was modified to first target the historical hot spot locations before advancing the delineation step-out borings. A status meeting was held 29 April 2025, among FAA, ADEC, and TALCES to discuss these results and the new approach. All agreed to the new approach to first target the historical hot spot locations before advancing the delineation step-out borings.

Two GMWs at each spill location were proposed; however insufficient presence of groundwater resulted in a total of five GMWs across all the sites. At the April 29 status meeting, a discussion was held regarding the lack of groundwater in many of the spill points (SPs) where well installations had been attempted. At the time, TALCES was only able to successfully install and sample four monitoring wells. Because soil DRO results were above cleanup level at SP10, the ADEC requested an attempt be made to install a monitoring well at SP10, which was

successfully installed. This network of five wells captures hot spots, upgradient, downgradient, and cross-gradient positions of the accessible groundwater.

Additionally, the shallow nature of the groundwater necessitated modification to well completions, sacrificing the sand and top layers to preserve the annular seal above the well screen.

After obtaining analytical results, TALCES returned to Ralston Island Range Facility on 16 October 2024 to collect sufficient background samples and complete lateral delineation of Spill Location 9 in the 1-foot to 3-foot depth interval. October redeployment samples were collected by using decontaminated hand augers rather than the drill rig, as specified in the work plan. This alternative method provides similar quality and representative material; analytical data is not compromised by this deviation.

SGS North America (SGS), the laboratory identified in the approved Work Plan, was unable to accommodate analysis of the October samples. These samples were submitted to Eurofins, which is also accredited under the Department of Defense Environmental Laboratory Accreditation Program (ELAP) and is an ADEC-approved laboratory for DRO and DRO-SG analysis. Although the laboratories interpreted the pattern for each chromatogram, SGS did not consistently state in the report case narrative whether the pattern is consistent with biogenic interference, petroleum, or neither. Instead, the analyst documented assessment on each chromatogram

Finally, the naming convention presented in the Work Plan for surface and subsurface soil was not followed and all soil samples were identified as 0 to 2 feet bgs.

4.2 Laboratory Analyses

A total of 170 samples (156 soil samples, 8 groundwater, and 6 surface water samples) were collected from the Ralston Island Range Facility, including 136 primary samples, 9 matrix spike (MS)/matrix spike duplicate (MSD) pairs, and 16 duplicate samples. Of the 156 soil samples collected, 110 samples were analyzed for DRO and DRO-SG, and 16 were analyzed for DRO only.

4.3 Investigative-Derived Waste Management

Soil cuttings accumulated from the soil borings and water generated during well development and sampling were containerized in separate 5-gallon buckets, labeled, manifested, and transported to Bicknell, Inc., an ADEC-approved treatment facility in Juneau, Alaska after submitting an ADEC Contaminated Media Transport and Treatment or Disposal Approval Form and receiving ADEC approval (Appendix F). Investigation-derived waste generated in the field, such as gloves and disposable sampling supplies, was disposed of as inert waste at Waste Management's Juneau landfill. Site restoration included filling all soil borings to ground surface.

4.4 Soil Investigation Activities and Findings

Although DRO has historically been identified in 19 sample locations, for the purposes of the 2024 investigation, the FAA specified that the pipeline contamination must be investigated as 10 separate source areas, unless and until they are proven to be co-mingled (Figure 1-2 through Figure 1-4).

The vertical extent of contamination was determined by advancing each boring 5 feet below the last observed contamination or observed groundwater, or until refusal, whichever occurred first. Soil samples collected in 2013 were from immediately below the pipeline buried 1 to 1.5 feet bgs; in the marsh, the pipeline was found lying across the top of the marsh. Samples collected during the 2024 RI were typically from the 0.5 foot to 2 feet bgs zone; the deepest sample was

collected from SP4 at 7 feet bgs. Groundwater was encountered less than 5 feet bgs and weathered bedrock was encountered up to 15 feet bgs at Spill Locations 4 and 5 but was generally observed at other Spill Locations between four and 10 feet bgs.

The horizontal extent of contamination at each spill area was determined by advancing a boring in the middle of each source area to establish whether historically detected contamination had attenuated or remained in concentrations exceeding cleanup levels. Where contamination was observed to be present at historical hot spots, step-out probes were advanced in all directions until the boundaries of contaminant concentrations exceeding cleanup levels were delineated.

Silica-gel cleanup was performed on soil samples in accordance with the ADEC Division of Spill Response Contaminated Sites Program *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup* (ADEC 2021). Sample locations were selected to confirm the presence or absence of contaminant concentrations exceeding cleanup levels and, where present, to define the vertical and horizontal extents of contamination.

Complete analytical results are provided in Appendix E.

4.4.1 Background Samples

TALCES collected eight samples for background purposes (four in April and four in October of 2024). The four samples collected in October 2024 are considered valid background soil samples that were collected outside the area of contamination and from similar depths (1.5 to 4 feet) and soil strata as the affected soils and were analyzed for DRO and DRO-SG. However, because soil types are heterogeneous across the 10 sites, the four background samples are not acceptable to support use of DRO-SG as valid for determining contaminant levels.

4.4.2 Soil DRO and DRO-SG analytical results

DRO and DRO-SG soil analytical results are presented in Table 4-1. Biogenic interference was evaluated for samples with DRO results above the ADEC cleanup level. The analytical data reports include pre- and post-silica gel chromatograms and DRO concentration for the QC samples, the field samples with suspected biogenic interference, and the four background samples that were collected in October 2024. The laboratory interpreted the chromatographic pattern and evaluated whether the pattern was consistent with biogenic interference, petroleum, both biogenic and petroleum, or none of these. Sustainable Earth Research LLC (SEARCH) compared project sample DRO and DRO-SG chromatograms to background sample chromatograms, which were first compared to the chromatogram from the laboratory DRO standard used for this analysis, incorporating the laboratory interpretation of the chromatographic patterns into the assessment. As part of the biogenic assessment, background and project samples with similar soil types were first compared, after examining soils descriptions from 2013 and 2024, as well as photographs and field notes.

Appendix B contains site photographs, including photographs of SP1, SP3, SP4, SP5, SP7, and SP9 soil cores, and the background sample soil core taken near SP5 in April 2024. No photographs were taken at SP2, SP8, or SP10.

Appendix D presents the soil borings that document the soil types encountered in 2024, including organic silts, silty gravels with sand, and sandy silt with gravel and weathered bedrock.

Appendix E contains the laboratory reports with the chromatograms used in this evaluation.

Results from the biogenic interference evaluation show that, in most cases, the chromatographic patterns for sitewide soil samples were similar to the background samples, and most chromatograms were not characteristic of a middle distillate, except for those samples

from SP9 that were identified by the analytical laboratories analyst as containing a middle distillate.

Table 4-1 presents the DRO detections and concentrations measured in each sample using AK102, the DRO-SG concentration measured using AK102 with silica gel cleanup.

Table 4-1. Soil DRO and DRO-SG Analytical Results

Area of Concern (Sample ID)	Sample Depth (feet bgs)	Location ID	DRO[1] (mg/kg)	Flag	DRO SG[1] (mg/kg)	Flag
Spill Location 1						
RIR24SS193SP101	0-1	HS A	670		82.6	
RIR24SS194SP10.5	0.2-0.8	HS B	67.6		16.2	J
RIR24SS195SP101	0-1.1	HS C	1,760		102	
RIR24SS196SP102	1.2-2	HS D	68.3		14.2	J
Spill Location 2						
RIR24SS192SP21.5	0.3-3.1	HS A	16.4	J	16.9	U
RIR24SS108SP202	1.3-2.8	P 1	20.1	J	11.9	J
RIR24SS108SP2029[2]	1.3-2.8	P 1	24.5		12	
RIR24SS109SP21.5	1.2-1.9	P 2	19.9	J	16.9	U
RIR24SS107SP202	1.4-2.1	P 3	15.9	J	17.2	U
RIR24SS105SP21.5	1.2-1.9	P 4	18.1	U	12.4	J
RIR24SS106SP203	2.6-3.6	P 4	294	QR	30.7	J
Spill Location 3						
RIR24SS162SP31.5	0.6-2.2	HS A	18.5		13	
Spill Location 4						
RIR24SS159SP402	0-2.2	HS A	48.9		20.8	J
RIR24SS160SP43.5	3.3-4.4	HS A	74.8		26.1	J
RIR24SS161SP407	6.4-7.6	HS A	16.0	U	10.7	J
Spill Location 5						
RIR24SS188SP51.5	0-2.3	HS A	379		62.4	J
RIR24SS189SP504	3.7-4.5	HS A	33.6		11.6	J
RIR24SS190SP51.5	0-2	HS B	280		35.1	J
RIR24SS190SP51.59[2]	0-2	HS B	259		61.0	J
RIR24SS191SP53.5	2.6-4	HS B	20.2	J	18.2	U
Spill Location 6						
RIR24SS167SP604	4-5.7	HS B	20.9	J	17.7	J
Spill Location 7						
RIR24SS168SP73.5	3.2-3.8	HS A	17.7	U	13.8	J
RIR24SS168SP73.59[2]	3.2-3.8	HS A	17.3	U	14.0	J
RIR24SS172SP702	0.5-2.7	HS A	30.0		12.6	J
RIR24SS169SP71.5	0.6-1.8	HS B	18.5	U	14.1	J
RIR24SS170SP73.5	2.8-3.6	HS B	13.2		18.2	
Spill Location 8						
All samples nondetect						
Spill Location 9						
RIR24SS173SP91.5	1.5-2.2	HS A	584		68.3	J
RIR24SS174SP904	4	HS A	138		27.1	J
RIR24SS175SP901	0-1.5	HS B	680		90.8	
RIR24SS176SP903	2.5-4.5	HS B	533		100	
RIR24SS177SP91.5	0-2.2	HS C	752		160	
RIR24SS178SP906	6-6.5	HS C	706		282	
RIR24SS179SP901	0-1.6	HS D	1,900	QR	662	
RIR24SS179SP9019[2]	0-1.6	HS D	2,870	QR	1,080	
RIR24SS180SP903	3-3.2	HS D	44.4		13.6	J
RIR24SS181SP91.5	0-2.2	HS E	3,940	QR, JM	2,140	

Area of Concern (Sample ID)	Sample Depth (feet bgs)	Location ID	DRO[1] (mg/kg)	Flag	DRO SG[1] (mg/kg)	Flag
RIR24SS182SP902	0.5-2.2	HS F	622		35	J
RIR24SS183SP904	3.5-4	HS F	61.4		29.4	
RIR24SS197SP902	1.8-2.9	P 1	815		79.4	
RIR24SS198SP95.5	2.9-6	P 1	293		29.9	J
RIR24SS199SP902	0-2	P 2	409		NA	
RIR24SS200SP903	2-2	P 2	61.0		NA	
RIR24SS203SP902	1.7-2.2	P 4	584	JS	NA	
RIR24SS208SP92.5	1.5-2.5	P 5	70.1		NA	
RIR24SS205SP901	0-1.2	P 6	1,370	QR	NA	
RIR24SS213SP902	1.8-2	S 1	992	QR	NA	
RIR24SS214SP902	0.8-2.5	S 2	1,720	QR	NA	
RIR24SS217SP91.5	0.5-2	S 3	1,010	JS	NA	
RIR24SS218SP903	2.4-3	S 3	12.7	J	10.6	J
RIR24SS215SP902	0-2.1	S 4	831	QR	NA	
RIR24SS216SP905	2.5-6.2	S 4	181		NA	
RIR24SS219SP902	0-2	T 1	520		170	
RIR24SS219SP9029[2]	0-2	T 1	360		51	
RIR24SS220SP902	2	T 2	430		95	
RIR24SS221SP903	3	T 3	440		61	
RIR24SS222SP903	3	T 4	180		18	J
RIR24SS223SP903.5	3.5	T 5	470		33	J
RIR24SS224SP904.5	4.5	T 6	420		41	J
Spill Location 10						
RIR24SS184SP101.5	0-1.8	HS A	1,200	QR, JS	98.9	
RIR24SS185SP1003	2.4-4	HS A	30.5		12	J
RIR24SS186SP1002	2	HS B	427		41.8	J
RIR24SS187SP1004	4	HS B	50.8		13.5	J
Background						
RIR24SS209BKG102	2	BK 1	524	QR, J+	NA	
RIR24SS210BKG13.5	3.5	BK 1	155	JS	NA	
RIR24SS211BKG21.5	1.5	BK 2	337	JS	NA	
RIR24SS211BKG21.59[2]	1.5	BK 2	217		NA	
RIR24SS225BKG02	0-2	BK 1	340		44	
RIR24SS226BKG04.5	2-4.5	BK 1	250		23	J
RIR24SS227BKG01.5	0-1.5	BK 2	150		16	J
RIR24SS228BKG03.5	1.5-3.5	BK 2	640		100	

Notes:
Complete analytical results are provided in Appendix E.
If the chromatogram shows only biogenic material present, then the appropriate concentration of DRO and/or RRO to report is nondetect, even if a concentration is reported.

Background sample RIR24SS225BKG02 was recollected in April 2024 from the approximate location of sample RIR24SS209BKG102 in October 2024 to be included in the DRO analysis silica gel cleanup, to establish whether background samples showed biogenic contribution. Similarly, background samples RIR24SS226BKG045.5, RIR24SS227BKG01.5, and RIR24SS228BKG03.5 were recollected from previously sampled locations.

Concentrations in **red text** indicate values above ADEC cleanup levels.

[1] Cleanup level from 18 AAC 75.340(c), Table B2: Over 40 Inch Zone, Migration to Groundwater, is 230 mg/kg.
[2] Duplicate of previous sample

BK background

HS	hot spot
J	estimated result
J+	estimated result biased high
JM	estimated result with unknown bias
JS	estimated result due to surrogate recovery between 150% and 200%
mg/kg	milligrams per kilogram
NA	not analyzed
ND	nondetect
P	primary step out
QR	results are rejected for quantitative use due to surrogate recovery greater than 200%; results may be used qualitatively
S	secondary step out
T	tertiary step out
U	indicates the analyte was analyzed for but not detected; the detection limit is indicated,

4.4.3 Summary of Contaminant Findings

Soil contaminant concentrations above the DRO cleanup level of 230 mg/kg were detected at SP1, SP2, SP5, SP9, and SP10. DRO-SG results indicate a likelihood that some of the DRO analytical results are due to biogenic interference and future assessments should consider following *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup* (ADEC 2021) to verify whether DRO-SG is a valid method to determine if samples meet the DRO cleanup level.

4.4.4 Calculation of Site-Specific Method 3 Soil Cleanup Criteria

Two samples were collected from BKG1 in April 2024 and analyzed for total organic carbon (TOC) to screen for Method 3 cleanup criteria and determine whether full background TOC sampling and evaluation would be beneficial. Analytical results exhibited 39.1% TOC in sample RIR24SS209BK102 collected 2 feet bgs, and 3.31% TOC in sample RIR24210BKG13.5 collected 3.5 feet bgs. A minimum of eight samples are required for the Method 3 calculation; therefore, only a preliminary calculation was performed using the lowest observed TOC value.

Initial calculations using the lowest observed TOC of 3.31% yields revised cleanup levels of 8,250 mg/kg for ingestion, 27,500 mg/kg for inhalation, and 7,500 mg/kg for migration-to-groundwater for residential use in the over 40-inch zone. Residential land use was selected because the land is vacant and not zoned or deed-restricted for commercial or industrial land use. These initial results indicate that Site-Specific Method 3 Soil Cleanup Criteria may be appropriate for the Ralston Island Range Facility to reach a cleanup-complete determination.

4.5 Groundwater Investigation Activities and Findings

Potential impacts on groundwater, including magnitude and extent of groundwater contamination, were evaluated by installing, developing, and sampling five permanent GMWs across the site. Two temporary well points were installed at Spill Location 1 and another at SP2 to evaluate presence of groundwater. The temporary wells remained dry after 24 hours. Because soil sample results from SP3, SP, SP6, SP7, and SP8 were below cleanup levels, permanent GMWs were not installed at these Spill Locations. Each permanent GMW was sampled and analyzed for concentrations of DRO. The five GMWs depicted in Figure 1-2 through Figure 1-4, were installed in accordance with ADEC *Monitoring Well Installation Guidance* (ADEC 2013) to between 7 and 8 feet bgs with aboveground completions. The wells exhibited groundwater ranging from approximately 1 foot to 4.5 feet bgs and flowing generally to the southwest across the sites.

Analytical groundwater results from the 2024 RI are summarized in Table 4-2 and indicate that concentrations of DRO are below laboratory quantitation limits and regulatory criteria in all wells sampled.

Table 4-2. Analytical Results for DRO in Groundwater

Area of Concern (Monitoring Well Number)	Sample ID	DRO[1] (mg/L)	Qualifier
Spill Location 5			
SP5-MW1	RIR24MW001	0.228	J-
SP5-MW1	RIR24MW0019[2]	0.336	J
SP5-MW2	RIR24MW002	0.287	J
Spill Location 9			
SP9-MW1	RIR24MW003	0.327	J
SP9-MW2	RIR24MW004	0.422	J
Spill Location 10			
SP10-MW1	RIR24MW005	0.276	J

Notes:
[1] Cleanup level from 18 AAC 75.340(c), Table C: Groundwater Human Health Cleanup Level, is 1.5 mg/L.
[2] Duplicate of previous sample

J estimated result
J- estimated result biased low
mg/L milligrams per liter

4.6 Surface Water Investigation Activities and Findings

Surface water sampling targeted surface water near locations exhibiting historical exceedances of DRO. DRO concentrations were used to determine presence or absence of contamination in surface water. Analytical surface water results from the 2024 RI are summarized in Table 4-3 and indicate hydrocarbon, presumably DRO, is present at sampled surface water locations. The highest DRO result was found in a surface water sample collected near SP5; however, the DRO result is not likely caused by fuel because the stick test indicated the observable sheen was biogenic (see page 6, Appendix B Photographs). Also, the hydrocarbon pattern in the SP5 soil chromatograms was determined to be due to biogenics.

Table 4-3. Analytical Results for DRO in Surface Water

Area of Concern Sample ID	DRO (mg/L)	Qualifier
Spill Location 5		
RIR24SW000SP5-1	0.901	
Spill Location 7		
RIR24SW000SP7-1	0.308	J-
RIR24SW000SP7-19[1]	0.218	J
Spill Location 9		
RIR24SW000SP9-1	0.608	

Notes:

[1] Duplicate of previous sample

J estimated result
J- estimated result biased low
mg/L milligrams per liter

4.7 DATA LOCATION SURVEY

Significant features and sample locations were located and surveyed using global navigation satellite system (GNSS) real-time kinematic (RTK) and conventional total station surveying techniques. In environments where RTK was not suitable, post-processed GNSS static techniques were employed to determine global positioning system (GPS) locations. A GNSS base station was established to tie survey data into the National Spatial Reference System and a minimum of 2 hours of static GPS data was collected for Online Positioning User Service (OPUS) post processing. Post processing was completed using local Continually Operating Reference Station (CORS) data.

Surveying of project features consisted of setting and utilizing a new control network, data collection, and a quality assurance (QA)/quality control (QC) check. Surveyed features were referenced to the appropriate control and proper zone.

The horizontal datum and coordinate system were referenced to the corresponding datum, with latitude and longitude reported in decimal degrees. GMW elevations were established to the third-order vertical control network standards of the Federal Geodetic Control Committee. Differential level loops were run from control to all GMWs and were close, within 0.01 foot per setup or better.

A Professional Land Surveyor was subcontracted to conduct level loops of the GMWs along with advising about survey activities and post-processing survey data.

5.0 CONCEPTUAL SITE MODEL

The CSM was developed in accordance with ADEC's *Policy Guidance on Developing Conceptual Site Models* (ADEC 2017a). The purpose of the CSM is to identify the following:

- Present and future ways in which people or animals may be exposed (exposure pathways)
- Routes the contaminants may take as they move through soil, air, groundwater, and/or surface water (migration routes)
- Potential receptors

The CSM scoping forms and a graphic CSM are provided in Appendix C. The CSM illustrates the exposure media, transport mechanisms, exposure pathways, and current and future receptors. The following subsections describe each aspect of the CSM.

5.1 SOURCES AND RELEASE MECHANISMS

Based on historical use of the site and the 2014 and 2024 investigation results, the COC at Ralston Island Range is DRO from leaks and spills from a fuel pipeline and ASTs.

5.2 AFFECTED MEDIA AND TRANSPORT MECHANISMS

Media affected by DRO includes surface and subsurface soil from 1 to 6 feet bgs; therefore, there is potential for ingestion from affected soil. Groundwater impacts were detected below the cleanup level for DRO. Transport mechanisms may include from soil to groundwater and surface water.

5.3 EXPOSURE PATHWAYS AND POTENTIAL RECEPTORS

Based on the 2024 RI results, soil, groundwater, and surface water are completed pathways, but are considered insignificant.

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6.0 ANALYTICAL DATA QUALITY

The overall QA policies and QC procedures delineated in the Work Plan (FAA 2024) were followed to ensure data quality.

6.1 ANALYTICAL LABORATORY

SGS of Anchorage, Alaska, an ADEC-approved laboratory, performed DRO and DRO-SG analysis of soils and DRO analyses of groundwater and surface water using the Alaska Method AK102, and AK102 with silica gel cleanup step to remove biogenics, in accordance with the approved Work Plan. At the request of the FAA Onsite Representative, two background samples were collected and analyzed for TOC using SW-846 Method 9060A. Although Method 9060A was not included in the Work Plan, SGS holds ADEC and ELAP certification for this method.

Because of laboratory capacity limitations, the samples collected in October 2024 were submitted to the alternative laboratory, Eurofins Seattle, which is also ELAP-certified and ADEC-approved for DRO and DRO-SG analyses.

6.2 CHEMICAL DATA REVIEW

This section contains the results of the review and validation of the sample data collected in conjunction with the Ralston Island Range Facility RI. The summary of the QC evaluation is presented in the ADEC Laboratory Data Review Checklist (Appendix E). This data review report discusses data usability and limitations in terms of the data quality indicators precision, accuracy, representativeness, completeness, and comparability. Additionally, analytical sensitivity is addressed.

In summary, the data is usable as qualified. Select samples had a poor recovery of the DRO surrogate 5α-androstane, which appears to be related to biogenics. Recovery of DRO-SG surrogate 5α-androstane met criteria.

6.2.1 SAMPLE SUMMARY

A total of 156 soil samples (128 primary samples, including 8 background samples, 14 field duplicate samples, and 7 MS/MSD pairs) were collected from the Ralston Island Range Facility from 22 April 2024 through 2 May 2024 and on 16 October 2024. Of the 156 soil samples collected, 108 primary, 11 field duplicate and 6 MS/MSD pairs soil samples were analyzed for DRO, and 90 primary, 10 field duplicate, and 5 MS/MSD pairs were analyzed for DRO-SG.

Four of the eight background samples collected were analyzed for DRO, four were analyzed for DRO and DRO-SG, and two were analyzed for TOC.

Eight groundwater samples (five primary, one field duplicate, and one MS/MSD pair) were collected, as well as six surface water samples (three primary, one field duplicate, and one MS/MSD pair). All samples were also analyzed for DRO.

Table 6-1 presents the sample identifications (IDs), Laboratory sample ID, matrix sampled, sample type (primary, field duplicate, MS/MSD), collection date, and analysis performed.

The approach for the project data evaluation is consistent with the approved Work Plan. The QA and QC aspects were evaluated by using ADEC acceptance criteria (ADEC 2022b).

Table 6-1. Soil Samples Submitted and Analyzed

Sample ID	Laboratory Sample ID	DRO and DRO-SG Chromatogram pdf pages	Matrix	Sample Type	Collection Date	Analyses
RIR24SS101SP11.5	1241636001	43, 55	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS102SP102	1241636002	44, 56	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS103SP103	1241636003	45,57	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS104SP102	1241636004	46, 58	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS105SP21.5	1241636005	47, 59	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS106SP203	1241636006	48,60	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS107SP202	1241636007	49, 61	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS108SP202	1241636008	50, 62	Soil	P, MS/MSD	4/22/2024	DRO, DRO-SG
RIR24SS108SP2029	1241636011	51, 63	Soil	FD	4/22/2024	DRO, DRO-SG
RIR24SS109SP21.5	1241636012	52, 64	Soil	P	4/22/2024	DRO, DRO-SG
RIR24SS129SP502	1241659024	51, 66	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS130SP54.5	1241659025	52, 67	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS131SP55.5	1241659026	53, 68	Soil	P, MS/MSD	4/23/2024	DRO, DRO-SG
RIR24SS131SP55.59	1241659029	54, 69	Soil	FD	4/23/2024	DRO, DRO-SG
RIR24SS132SP502	1241659030	55,70	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS133SP505	1241659031	56, 71	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS134SP59.5	1241659032	57, 72	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS135SP502	1241659033	58, 73	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS136SP505	1241659034	61, 74	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS136SP5059	1241659035	62, 75	Soil	FD	4/23/2024	DRO, DRO-SG
RIR24SS137SP509	1241659036	63, 76	Soil	P	4/23/2024	DRO, DRO-SG
RIR24SS138SP502	1241686001	112, 163	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS139SP504	1241686002	115, 164	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS140SP7.5	1241686003	116, 165	Soil	P	4/24/2024	DRO, DRO-SG

Table 6-1. Soil Samples Submitted and Analyzed

Sample ID	Laboratory Sample ID	DRO and DRO-SG Chromatogram pdf pages	Matrix	Sample Type	Collection Date	Analyses
RIR24SS141SP02	1241686004	117, 166	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS142SP53.5	1241686005	118, 167	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS143SP506	1241686006	119, 168	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS144SP502	1241686007	120, 169	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS145SP54.5	1241686008	123, 172	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS146SP507	1241686009	124, 173	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS147SP502	1241686010	125, 174	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS148SP54.5	1241686011	126, 175	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS148SP54.59	1241686012	127, 176	Soil	FD	4/24/2024	DRO, DRO-SG
RIR24SS149SP56.5	1241686013	128, 177	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS150SP50.5	1241686014	129, 178	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS151SP502	1241686015	130, 179	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS152SP505	1241686016	131, 180	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS153SP502	1241686017	132, 181	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS154SP504	1241686018	135, 182	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS155SP505	1241686019	136, 183	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS156SP51.5	1241686020	137, 184	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS157SP53.5	1241686021	140, 187	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS158SP505	1241686022	141, 188	Soil	P, MS/MSD	4/24/2024	DRO, DRO-SG
RIR24SS158SP5059	1241686025	142, 189	Soil	FD	4/24/2024	DRO, DRO-SG
RIR24SS159SP402	1241686026	143, 190	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS160SP43.5	1241686027	144, 191	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS161SP407	1241686028	145, 192	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS162SP31.5	1241686029	146, 193	Soil	P	4/24/2024	DRO, DRO-SG

Table 6-1. Soil Samples Submitted and Analyzed

Sample ID	Laboratory Sample ID	DRO and DRO-SG Chromatogram pdf pages	Matrix	Sample Type	Collection Date	Analyses
RIR24SS163SP303	1241686030	147, 194	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS164SP601	1241686031	148, 195	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS165SP603	1241686032	149, 196	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS166SP61.5	1241686033	150, 197	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS166SP61.59	1241686034	151, 198	Soil	FD	4/24/2024	DRO, DRO-SG
RIR24SS167SP604	1241686035	152, 199	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS168SP73.5	1241686036	153, 200	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS168SP73.59	1241686037	154, 201	Soil	FD	4/24/2024	DRO, DRO-SG
RIR24SS169SP71.5	1241686038	155, 202	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS170SP73.5	1241686039	156, 203	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS171SP81.5	1241686040	157, 204	Soil	P	4/24/2024	DRO, DRO-SG
RIR24SS172SP702	1241713001	95, 184	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS173SP91.5	1241713002	96, 185	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS174SP904	1241713003	101, 186	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS175SP901	1241713004	106, 187	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS176SP903	1241713005	111, 188	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS177SP91.5	1241713006	116, 189	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS178SP906	1241713007	121, 190	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS179SP901	1241713008	126, 191	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS179SP9019	1241713009	131, 192	Soil	FD	4/25/2024	DRO, DRO-SG
RIR24SS180SP903	1241713010	136, 193	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS181SP91.5	1241713011	137, 194	Soil	P, MS/MSD	4/25/2024	DRO, DRO-SG
RIR24SS182SP902	1241713014	142, 197	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS183SP904	1241713015	147, 198	Soil	P	4/25/2024	DRO, DRO-SG

Table 6-1. Soil Samples Submitted and Analyzed

Sample ID	Laboratory Sample ID	DRO and DRO-SG Chromatogram pdf pages	Matrix	Sample Type	Collection Date	Analyses
RIR24SS184SP101.5	1241713016	148, 199	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS185SP1003	1241713017	153, 200	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS186SP1002	1241713018	154, 201	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS187SP1004	1241713019	159, 202	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS188SP51.5	1241713020	160, 203	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS189SP504	1241713021	163, 204	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS190SP51.5	1241713022	164, 205	Soil	P	4/25/2024	DRO, DRO-SG
RIR24SS190SP51.59	1241713023	165, 206	Soil	FD	4/25/2024	DRO
RIR24SS191SP53.5	1241713024	166, 209	Soil	P	4/25/2024	DRO
RIR24SS192SP21.5	1241713025	167, 210	Soil	P	4/25/2024	DRO
RIR24SS193SP101	1241713026	168, 211	Soil	P	4/25/2024	DRO
RIR24SS194SP10.5	1241713027	169, 212	Soil	P	4/25/2024	DRO
RIR24SS195SP101	1241713028	170, 213	Soil	P	4/25/2024	DRO
RIR24SS196SP102	1241713029	171, 214	Soil	P	4/25/2024	DRO
RIR24SS197SP902	1241713030	172, 215	Soil	P	4/25/2024	DRO
RIR24SS198SP95.5	1241713031	177, 216	Soil	P	4/25/2024	DRO
RIR24SS199SP902	1241713032	182, None	Soil	P	4/25/2024	DRO
RIR24SS200SP903	1241713033	183, 217	Soil	P	4/25/2024	DRO
RIR24SS203SP902	1241732003	NA	Soil	P	4/26/2024	DRO
RIR24SS205SP901	1241732005	NA	Soil	P	4/26/2024	DRO
RIR24SS208SP92.5	1241732009	NA	Soil	P, MS/MSD	4/26/2024	DRO
RIR24SS209BKG102	1241732012	NA	Soil	P	4/26/2024	DRO, TOC
RIR24SS210BKG13.5	1241732013	NA	Soil	P	4/26/2024	DRO, TOC
RIR24SS211BKG21.5	1241732014	NA	Soil	P	4/27/2024	DRO
RIR24SS211BKG21.59	1241732015	NA	Soil	FD	4/27/2024	DRO
RIR24SS213SP902	1241732017	NA	Soil	P	4/27/2024	DRO
RIR24SS214SP902	1241732018	NA	Soil	P	4/27/2024	DRO
RIR24SS215SP902	1241732019	NA	Soil	P	4/27/2024	DRO
RIR24SS216SP905	1241732020	NA	Soil	P	4/27/2024	DRO
RIR24SS217SP91.5	1241732021	NA	Soil	P	4/27/2024	DRO
RIR24SS218SP903	1241732022	NA	Soil	P	4/27/2024	DRO, DRO-SG

Table 6-1. Soil Samples Submitted and Analyzed

Sample ID	Laboratory Sample ID	DRO and DRO-SG Chromatogram pdf pages	Matrix	Sample Type	Collection Date	Analyses
RIR24MW001	1241880001	NA	Groundwater	P, MS/MSD	4/28/2024	DRO
RIR24MW0019	1241880004	NA	Groundwater	FD	4/28/2024	DRO
RIR24SW000SP9-1	1241880005	NA	Surface Water	P	4/28/2024	DRO
RIR24SW000SP7-1	1241880006	NA	Surface Water	P, MS/MSD	4/28/2024	DRO
RIR24SW000SP7-19	1241880009	NA	Surface Water	FD	4/28/2024	DRO
RIR24SW000SP5-1	1241880010	NA	Surface Water	P	4/28/2024	DRO
RIR24MW002	1241880011	NA	Groundwater	P	4/29/2024	DRO
RIR24MW003	1241880012	NA	Groundwater	P	4/29/2024	DRO
RIR24MW004	1241880013	NA	Groundwater	P	4/30/2024	DRO
RIR24MW005	1241880014	NA	Groundwater	P	5/2/2024	DRO
RIR24SS219SP902	580-144975-1	1,2	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS219SP9029	580-144975-2	3,4	Soil	FD	10/17/2024	DRO, DRO-SG
RIR24SS220SP902	580-144975-3	5,6	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS221SP903	580-144975-4	7,8	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS222SP903	580-144975-5	9,10	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS223SP903.5	580-144975-6	11, 12	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS224SP904.5	580-144975-7	13, 14	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS225BKG02	580-144975-8	15, 16	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS226BKG04.5	580-144975-9	17, 18	Soil	P	10/17/2024	DRO, DRO-SG
RIR24SS227BKG01.5	580-144975-10	19, 20	Soil	P, MS/MSD	10/17/2024	DRO, DRO-SG
RIR24SS228BKG03.5	580-144975-11	21, 22	Soil	P	10/17/2024	DRO, DRO-SG

Table 6-1 includes data from the following laboratory work orders:

- SGS Laboratory Work Order # 1241636, dated April 24, 2024
- SGS Laboratory Work Order # 1241659, dated April 30, 2024
- SGS Laboratory Work Order # 1241686, dated April 26, 2024
- SGS Laboratory Work Order # 1241713 Rev2, dated May 7, 2025
- SGS Laboratory Work Order # 1241732 Rev4, dated December 4, 2024
- SGS Laboratory Work Order # 1241880, dated May 29, 2024
- Eurofins Laboratory Work Order # 580-144975, dated October 29, 2024
- Eurofins Laboratory Work Order # 580-144975, chromatograms package dated October 23, 2024

6.2.2 PRECISION

Precision is a measure of reproducibility, expressed in terms of relative percent difference (RPD). Field duplicates, site-specific MS/MSDs, and laboratory control sample (LCS)/laboratory control sample duplicates (LCSDs) were reviewed to evaluate precision. Blind field duplicate samples were collected and analyzed to evaluate sample homogeneity and precision in the sample matrix.

The LCS/LCSD and MS/MSD RPDs were acceptable.

Thirteen soil field duplicate pairs were collected, but only nine were analyzed. One groundwater and one surface water field duplicate pair were collected and analyzed. The RPDs for the analytes detected in soil duplicate pairs are presented in Table 6-2.

Table 6-2. Soil Field Duplicate Pairs and RPDs

Sample ID	Sample Type	DRO (mg/kg)	DRO RPD	DRO-SG (mg/kg)	DRO-SG RPD
RIR24SS108SP202	P	20.1 J	NC	11.9 J	NC
RIR24SS108SP2029	FD	24.5 J		12.0 J	
RIR24SS115SP301	P	NA	NC	NA	NC
RIR24SS115SP3019	FD	NA		NA	
RIR24SS127SP403	P	NA	NC	NA	NC
RIR24SS127SP4039	FD	NA		NA	
RIR24SS131SP55.5	P	17.4 U	NC	17.4 U	NC
RIR24SS131SP55.59	FD	10.5 J		10.3 J	
RIR24SS136SP505	P	18.5 U	NC	13.4 J	NC
RIR24SS136SP5059	FD	18.8 U		12.3 J	
RIR24SS148SP54.5	P	13.3 J	NC	17.9 U	NC
RIR24SS148SP54.59	FD	18.2 U		11.1 J	
RIR24SS158SP505	P	17.4 U	NC	12.4 J	NC
RIR24SS158SP5059	FD	17.1 U		10.3 J	
RIR24SS166SP61.5	P	18.6 U	NC	18.6 U	NC
RIR24SS166SP61.59	FD	19. 4 U		19.4 U	
RIR24SS168SP73.5	P	17.7 U	NC	13.8 J	NC
RIR24SS168SP73.59	FD	17.3 U		14.0 J	
RIR24SS179SP901	P	1,900 [1]	41%	662	35%
RIR24SS179SP9019	FD	2,870 [1]		1,080	
RIR24SS190SP51.5	P	280	8%	35.1 J	NC
RIR24SS190SP51.59	FD	259		20.2 J	
RIR24SS207SP901	P	NA	NC	NA	NC
RIR24SS207SP9019	FD	NA		NA	
RIR24SS211BKG21.5	P	337	43%	NA	NC
RIR24SS211BKG21.59	FD	217		NA	

Table 6-2. Soil Field Duplicate Pairs and RPDs

Sample ID	Sample Type	DRO (mg/kg)	DRO RPD	DRO-SG (mg/kg)	DRO-SG RPD
RIR24SS219SP902	P	520	36%	170	130%
RIR24SS219SP9029	FD	360		51	

Notes:
RPDs are not calculated if both primary and duplicate results are less than the limit of quantitation (LOQ).

[1] Significant QC failure: Surrogate percent recovery outside of control limits, greater than 200%; the result is quantitatively unreliable but may be used qualitatively for project-specific purposes.

DRO	diesel-range organics
DRO-SG	diesel-range organics with silica gel cleanup
FD	field duplicate
J	estimated result
mg/kg	milligrams per kilogram
NA	not applicable
NC	not calculated
P	primary sample
RPD	relative percent difference
U	undetected at the detection limit

The RPDs for the analytes detected in groundwater and surface water duplicate pairs are presented in Table 6-3.

Table 6-3. Groundwater and Surface Water Field Duplicate Pairs and RPDs

Sample ID	Sample Type	DRO (mg/L)	DRO RPD
RIR24MW001	P	0.228 J	NC
RIR24MW0019	FD	0.336 J	
RIR24SW000SP7-1	P	0.308 J	NC
RIR24SW000SP7-19	FD	0.218 J	

Notes:
RPDs are not calculated if both primary and duplicate results are less than the limit of quantitation (LOQ).

DRO	diesel-range organics
FD	field duplicate
J	estimated result
mg/L	milligrams per liter
NC	not calculated
P	primary sample
RPD	relative percent difference

The RPD for DRO in soil could not be calculated for 7 of the 10 field duplicate pairs analyzed or for the groundwater and the surface water duplicate pairs, because the results were either estimated between the detection limit (DL) and limit of quantitation (LOQ) or were nondetect. The RPD for the three soil sample duplicates with DRO results greater than the LOQ met the 50% criteria.

The RPD for DRO-SG in soil could not be calculated for eight of the nine soil field duplicate pairs analyzed, because for seven of the eight duplicate pairs the DRO-SG results were either between the DL and LOQ or were nondetect. RPD for one duplicate pair could not be assessed because only the primary sample was analyzed for DRO-SG.

Field duplicate samples were not collected for TOC analysis.

No data were qualified based on LCS/LCSD RPDs or field duplicate RPDs.

6.2.3 ACCURACY

Accuracy is a measure of the proximity of a result to a known or "true" value, expressed in terms of percent recovery (%R). Surrogates, LCS/LCSD recoveries, and MS/MSD recoveries are used to evaluate the accuracy of the reported results. Laboratory LCS samples were analyzed with each preparatory batch and were used to assess laboratory accuracy. Surrogate recovery deviations from acceptance criteria were reviewed. Site-specific samples were used for MS/MSDs.

6.2.3.1 LABORATORY CONTROL SAMPLES

The LCS/LCSD %R for all DRO and DRO-SG analyses and matrices met criteria. Only an LCS was analyzed for TOC, and it met the %R criteria.

6.2.3.2 SURROGATES

The DRO surrogate recovery for 5α-androstane for several samples does not meet %R criteria because of matrix interference.

The following samples had surrogate %R between 150% and 200%: RIR24SS144SP502, RIR24SS184SP101.5 MS/MSD, RIR24SS188SP51.5, RIR24SS203SP902, RIR24SS210BKG13.5, RIR24SS211BKG21.5, and RIR24SS217SP91.5. These DRO results have been qualified as estimated because of out-of-control surrogate recovery and have been flagged as JS (estimated result due to surrogate recovery between 150% and 200%).

The following samples had surrogate %R greater than 200%: RIR24SS106SP203, RIR24SS179SP901 RIR24SS179SP9019 (field duplicate of preceding sample), RIR24SS181SP91.5, RIR24SS184SP101.5, RIR24SS195SP101, RIR24SS205SP901, RIR24SS209BKG102, RIR24SS213SP902, RIR24SS214SP902, and RIR24SS215SP902. These DRO results are quantitatively unreliable and typically would be rejected. However, because part of the project objectives is to assess biogenic impacts on soil DRO results, these data may be used qualitatively only and have been flagged QR (results are rejected for quantitative use due to surrogate recovery greater than 200%; results may be used qualitatively) to indicate these results are rejected for quantitative use.

The DRO-SG surrogate met the %R criteria.

6.2.3.3 MATRIX SPIKE SAMPLES

The %R for the DRO sample RIR24SS181SP91.5 MS was below %R criteria and the MSD was above %R criteria, while the MS/MSD for the DRO-SG analysis met %R criteria. The DRO result for sample RIR24SS181SP91.5 have been qualified as estimated with unknown bias and have been flagged as JM (estimated result with unknown bias); the DRO is consistent with middle distillate and residual-range organics (RRO) is consistent with biogenics.

The MSD %R for groundwater sample RIR24MW001 does not meet criteria. The MS %R for surface water sample RIR24SW000SP7-1 does not meet criteria. In both cases, the %R was 73% instead of the required 75%. The primary sample results have been qualified as estimated biased low and have been flagged as J- (estimated result biased low). The MS/MSD QC failures for the surface water and the groundwater spiked samples were likely due to sample matrix based on the project DRO vs DRO-SG soil results.

The MS %R for TOC sample RIR24SS209BKG102 was above criteria (130% vs 125%). The sample result is considered estimated biased high and have been flagged as J+ (estimated result biased high).

Based on the %R for LCS, LCSD, surrogates, MS, and MSD, the data appear to be accurately reflecting site conditions.

6.2.4 REPRESENTATIVENESS

The Work Plan was followed to ensure that the sample results are as representative as possible and that the data quality objectives (DQOs) for this project are met. Standard field, sampling, and analytical procedures documented in the project Work Plan were used.

Field samplers followed the standard operating procedures (SOPs) presented in the approved Work Plan. The analytical laboratory used definitive analytical procedures and state-approved methods to generate quantitative data. Laboratory analysis control was achieved.

For soil samples, DRO and DRO-SG detections were compared and their chromatograms were evaluated by the laboratory to determine whether the chromatographic signature was that of fuel or biogenic. Most soil DRO results show a biogenic influence. Groundwater and surface water DRO results are also suspected of being affected by biogenics based on variable MS/MSD recoveries and the soil DRO and DRO-SG results.

6.2.5 COMPLETENESS

Comparability among past, current, and future data sets is accomplished by using recognized industry standard preparation and analytical methods, as well as sample collection methods and data review. ADEC sampling, analysis, and data validation methods were used for this project.

Soil samples were recollected from the 2013 sampled locations and reanalyzed for DRO and DRO-SG. Because the 2013 samples were collected from immediately below the piping, the 2024 results are not directly comparable to the 2013 results.

6.2.6 COMPARABILITY

The completeness criterion is a measure of whether sufficient information to meet the project objectives has been collected. All planned samples were collected, and all planned analyses were performed on select samples (as determined in the field based on laboratory analytical results). No data were rejected; all data were deemed usable for project purposes. Therefore, the completeness score of 100% was achieved for the project.

6.2.7 SENSITIVITY

Sensitivity of analytical measurements relates to the amount that can be reliably detected or quantified and is defined by the limit of detection (LOD) and LOQ. The Work Plan provides the LOD and LOQ for the analytical methods. Sensitivity requirements for the project were achieved.

7.0 CONCLUSIONS AND RECOMMENDATIONS

This report details the RI activities performed between 19 April and 18 October 2024. The primary objectives of this effort were to establish vertical and horizontal extents of DRO-contaminated media remaining at the former Ralston Island Range Facility.

Soil sample results indicate contamination above the DRO cleanup level at sites SP1, SP2, SP5, SP9, and SP10. Groundwater DRO detections are below the laboratory quantitation limits and cleanup levels.

Surface water results indicate DRO may be present; however, results from the stick test show the surface water sheen was biogenic. If further investigation of surface water is deemed necessary, it is recommended the DRO-SG method be used to assess biogenic impacts.

7.1 BACKGROUND SAMPLES

DRO results from two of the four background samples collected in April were above the cleanup level; however, they were not analyzed for DRO-SG and those results are not considered to be representative of site conditions relative to petroleum concentrations. The results from the four background samples collected in October and analyzed for both DRO and DRO-SG and assessed for biogenic impacts showed DRO-SG results below the cleanup level, indicating site soils are affected by biogenics that are contributing to the total DRO concentration reported.

The background samples exhibited TOC at 3.3% and 39.1% and concentrations of DRO ranging from 150 mg/kg (unqualified) to 640 mg/kg (unqualified) and DRO-SG concentrations ranging from 16 mg/kg (flagged as J) to 100 mg/kg (unqualified). The high level of organic carbon in the second sample indicates non-homogeneous soil throughout the site, with areas with high levels of biogenics. Due to the heterogeneity of soil types at each of the sites, background samples from each of the sites are required in order to evaluate whether the use of DRO-SG is an appropriate method to determine if cleanup levels have been met.

7.2 IMPACT OF CONTAMINATION ON POTENTIAL RECEPTORS

The revised CSM indicates no impact of current contamination on potential receptors. Although there are current exposure pathways for the affected media, the potential impact on current receptors is insignificant. The concentration levels of DRO-affected soils are below both human health ingestion and inhalation levels for cleanup. Additionally, the groundwater and surface water on Ralston Island are not suitable sources for drinking water. Because the site is part of the Alaska Park System, it is not suitable for current or future residential use. Recreational users would not utilize the surface water as a drinking source because of insufficient quantity and quality.

7.3 REMEDIATION ALTERNATIVES

To remediate the remaining contamination that is above Method 2 criteria, treatment or removal of the soil would be required with confirmation sampling.

Based on the limited TOC and DRO-SG results, future work should consider collecting samples in an effort to meet potential higher alternative cleanup levels under Method 3 and/or collection of samples to support the use of DRO-SG for site assessment and potential site closures.

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8.0 REFERENCES

ADEC (Alaska Department of Environmental Conservation). 2013. *Monitoring Well Guidance*. September.

ADEC. 2017a. *Policy Guidance on Developing Conceptual Site Models.* January.

ADEC. 2017b. *Site Characterization, Work Plan, and Reporting Guidance for Investigation of Contaminated Sites.* March.

ADEC. 2021. *Technical Memorandum 21-001 – Biogenic Interference and Silica Gel Cleanup.* December.

ADEC. 2022a. *Field Sampling Guidance.* January.

ADEC. 2022b. *Technical Memorandum 22-001 – Guidelines for Data Reporting*. August.

ADEC. 2023. *Alaska Administrative Code.* Title 18, Chapter 75, Oil and Other Hazardous Substances Pollution Control. October.

FAA (Federal Aviation Administration). 2014. *Final Summary Report for Decommissioning of the Ralston Island Range, Ralston Island, Alaska*. January.

FAA. 2023. *Ralston Island Remedial Investigation Statement of Work.* April.

FAA. 2024. *Final Work Plan, Remedial Investigation, Range Facility, Ralston Island, Juneau, Alaska.* March.

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APPENDIX A
ADEC ACCEPTANCE LETTER AND RESPONSE TO COMMENTS

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Document: FAA Range Facility, Ralston Island Draft Report RI
(TALCES JV, LLC, December 2024)

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
1.	Cover	When submitting draft or final documents to DEC for regulatory review, please cc CS.Submittals@alaska.gov, per updated DEC policy. For ease of filing, please add the DEC File and Hazard # to the cover page.	Accepted. Redline Draft Final and Final will be submitted as requested. 7/10/2025 DEC Accepts.
2.	Signature Page	Please add a page that includes the names of the qualified environmental professional and/or qualified sampler responsible for collecting samples. This page can be added to the final report.	Accepted. A page was added with the names of the QEPs. 7/10/2025 DEC Conditionally Accepts with further information. Please add the employer and title of each QEP.
3.	General Comment Workplan Amendments	Please fully clarify and describe all amendments to the workplan in the text of the report. If available, please attach and reference the DEC letter or email approving these modifications as an appendix.	Accepted. Comments and responses will be included in appendix to the final report, and a red-line draft final version will be provided showing edits to the report text. 7/10/2025 DEC Accepts.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
4.	General Comment Soil Sample Depth Categories	In accordance with 18 AAC 75.990, surface soil is defined as soil 0-2 ft bgs. This report categorized all soil samples as subsurface, however, over half were 0-2 ft bgs. The sample naming convention used in this report does not need to be altered, but please add text to the Deviations section clarifying this discrepancy.	Accepted. Text will be added to clarify the deviation from the sample name convention described in the work plan. 7/10/2025 DEC Accepts.
5.	General Comment Future Groundwater Use	Please note, unless DEC makes a groundwater use determination under 18 AAC 75.350, groundwater is considered a future drinking water source. Please remove all statements regarding the lack of future groundwater use as the site has not received an 18 AAC 75.350 determination.	Accepted. All statements regarding the lack of future groundwater use will be removed. 7/10/2025 DEC Accepts.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
6.	General Comment CSM	Please note that the DEC's *Guidance on Developing Conceptual Site Models* states "A complete pathway is a way by which a receptor, human, plant or animal, is or could be exposed to contamination...neither the quantity nor the concentration of a given chemical at the site makes any difference in determining if a pathway is complete". Please revise the report and CSM pathway determinations to reflect the CSM guidance. A pathway that is complete, but has an analyte concentration below cleanup levels, should be marked as a complete, but insignificant pathway.	Accepted. The CSM will be revised to acknowledge that a complete pathway is a way by which a receptor, human, plant or animal, is or could be exposed to contamination...neither the quantity nor the concentration of a given chemical at the site makes any difference in determining if a pathway is complete to address comments. See response to comments 15 and 16. 7/10/2025 DEC Accepts.
7.	General Comment Figures	Please review sample names in the call out boxes and their associated sample location on figures. There appear to be typos for multiple labels.	Accepted. Figures will be reviewed and revised. 7/10/2025 DEC Accepts.

8.	General Comment Figures	Please clarify the decision to use the green circle (No DRO Exceedance) versus the red circle (DRO Exceedance) on the figures. The Figure 1-4, in particular, inconsistently displays exceedances and non-exceedances. While some DRO exceedances are displayed in red, others with a DRO exceedance are displayed as a non-exceedance if they had an associated DRO-SGC analysis performed and those results were below the cleanup level. Regarding SGC, please see Comment No.9.	The figures will be revised to clarify symbology. On the revised figures, red will indicate results from DRO-only analyses were above cleanup level, or results from DRO with DRO-SG analyses that were identified by the laboratory analysts as being impacted by either petroleum or a mixture of petroleum and biogenic material IAW the ADEC Tech memo Biogenic Interference and Silica Gel Cleanup. Green symbols show sample locations where results from DRO-only analyses were either below cleanup levels, or results from DRO with DRO-SG analyses that were identified by the laboratory analysts as containing biogenic, nonpetroleum-based material. 1/08/2026 DEC additional comment: The figure symbology follows the same blanket use of DRO-

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
			SG values as commented on previously. Please see Comment 20 in the *Additional Comments Follow* section for the revised report. The current use of the same symbol and color for DRO-only and DRO-SG results renders the figure ineffectual for visualizing the locations sample exceedances and non-exceedances. COMMENT CLOSED

9.	General Comment Silica Gel Cleanup	*Silica-gel cleanup was performed on soil samples in accordance with the ADEC Division of Spill Response Contaminated Sites Program Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021).* DEC does not agree that this sampling event was conducted in accordance with the *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (DEC 2021)*, nor does the DEC believe that the "weight of evidence supports the presence of biogenic interference", due to the following: • The site was separated into 10 AOCs; however, background samples were only collected in the vicinity of two AOCs within the site. • In order to correctly interpret soil analysis results, pre-silica chromatograms compared to diesel and oil standards and post-silica chromatograms compared to diesel and oil standards are both required for each sample. This comparison with the diesel and oil standard are used to determine if each sample's pre- and post-silica gel cleanup chromatogram patterns are consistent with petroleum, biogenic material, or mixture of the two. o Only one chromatogram was given per sample, and these chromatograms were not identified as pre- or post-silica. The determination of how to categorize the usage of DRO vs DRO-SGC results is dependent upon the interpretation of the chromatograms of both methods. o Chromatograms for the background samples were not provided. • The *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (DEC 2021)* states the "site characterization report should identify whether or not biogenic interference is present	One pre and one post silica gel chromatogram were included in most, but not all, data packages submitted. They were buried in the raw data reports at the back and not called out in the narrative. TALCES chemist will compile the analyst's chromatographic assessments and evaluated the DRO results per the memo. These results will be presented in Table 4-1. This assessment will be added to Section 4. 1/08/2026 DEC Disagrees with Response. Please Note from the 4/14/2025 Comments: The *Technical Memorandum 21-001 – Biogenic interference and Silica Gel*

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		at the site and support this by discussing the analytical data including sample chromatogram interpretation, site photos, soil descriptions, site characteristics, etc." The laboratory case narratives did not describe the DRO chromatogram patterns as biogenic. The report did not support the argument of biogenic interference by discussing chromatogram interpretations, how they differed after silica gel cleanup, or the other site information listed in the tech memo. • The amended workplan map indicated that Background Sample 1 (BKG1) would be collected outside of the eastern edge of the Main Cabin building footprint. However, BKG1 was collected at near the middle of the footprint, which is much closer to the approximated source area boundary. DEC considers this new location to be too close to the source area.	*Cleanup (DEC 2021)* states the "site characterization report should identify whether or not biogenic interference is present at the site **and support this by discussing the analytical data including sample chromatogram interpretation, site photos, soil descriptions, site characteristics, etc.**" Please see Comment 20 in the *Additional Comments Follow* section for the revised report.

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10.	Figure 1-4	The white circle with a cross is similar to the symbol indicating a temporary well on Figure 1-2. Please add this symbol and what it represents to the legend. Please also add a discussion of these locations in the text of the report.	Accepted. The white circle with cross symbol should not be on this figure – these points were removed as they were erroneously added to the figure and are not relevant to the project. 7/10/2025 DEC Accepts.
11.	Page 13/Section 4.1.1	*GMWs were advanced using the direct-push drill rig and installed with the screened interval targeting the vadose zone.* The workplan describes targeting groundwater, which would be present in the saturated zone; however, it can move into the vadose zone with groundwater elevation fluctuations. Please clarify if the screens were placed across the vadose and saturated zones to capture both, or if only the vadose zone was targeted? If only the vadose zone was targeted, please give an explanation as to why in the Deviations section.	Accepted. Text will be revised to clarify that the screens were placed across the saturated and vadose zones to capture both. 7/10/2025 DEC Accepts.

12.	Page 14/Section 4.4	From the 2024 Workplan: *The vertical extent of contamination must be determined by advancing each boring 5 feet below the last observed contamination, 5 feet past observed groundwater, or until refusal, whichever occurs first. Shallow groundwater and shallow weathered bedrock are anticipated to be present on Ralston Island, and depth to groundwater is assumed to be 4 to 5 feet bgs.* Because of the above depth determination criteria, please include the depths of the historic or "last observed contamination" for the past boring locations.	Accepted. Sample depths were not documented in 2013. The 2015 report states that samples were collected from beneath piping joints, leaks, etc. The piping was buried 1-1.5' bgs and entangled in root matter, except in the marshy area beginning ~ 280' from pipeline origin where the pipeline overlaid the marsh. In 2013, the limited amount of excavated soil was to bedrock at 1.5-2' bgs. Soil sample depths from 2024 RI will be added to Table 4-1. 7/10/2025 DEC Accepts. 1/08/2026 DEC Additional Comment: Soil sample depths were added to Table 4-1, however there are ranges for sampling depth measurements for some samples and a single depth measurement for others. For the samples with a single depth measurement, the value reflects the depth portion of the samples' name.

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			These ranges are also used in the "Chromatogram interpretation for Spill Area 1,2,5,9&10. Ralston 2024 RI" report created by SEARCH, LLC. For TALCES JV, LLC. Some of the ranges are quite large and span surface and subsurface soil. It will be more difficult to evaluate these samples for accurate characterization to make decisions for the future management of the site. Please ensure in the future that sample depths are collected accurately. COMMENT CLOSED.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
13.	Page 15/Section 4.4.2	*2024 RI revealed no exceedances of DRO at Spill Locations 2, 3, 4, 6, 7, and 8.* Including Spill Location 2 in this sentence appears to be a typo. At the 3ft interval of RIR24SS106SP203, DRO levels were 294 mg/kg: exceeding the 230 mg/kg Table B2, MTG level.	Accepted. This section will be revised to reflect the results from the assessment of biogenic contribution to the DRO results. To do so, a new subsection will be inserted and discuss only the biogenic evaluation for the DRO and DRO-SG samples. 1/08/2026 DEC Disagrees with Response. The text was not properly revised. Please see Comment 20 in the *Additional Comments Follow* section for the revised report.

14.	Page 15/Section 4.4.4	*Analytical soil results from the 2024 RI are summarized in Table 4-1 and indicate that concentrations of DRO are below regulatory criteria in Spill Locations 1 through 8 and 10. Spill Location 9 (the area around the former AST) exhibited contaminant concentrations exceeding cleanup levels in Hot Spots C, D, and E. These areas were bounded by step-out samples surrounding the respective hot spots.* Please clarify. Spill Locations 1, 2, 5, and 10 have DRO levels above regulatory criteria. Spill Location 9 also has DRO levels above regulatory criteria in multiple step-out sample locations. Please note, through email correspondence, DEC approved the use of DRO-SGC as a screening method, with additional DRO analysis for confirmation samples. However, the blanket use of DRO-SGC for all samples was not approved. The interpretation of sample results must follow the *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021).* Please refer to Comment No.9.	Accepted. This section will be revised based on interpretation of sample results IAW *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021).* 1/08/2026 DEC Disagrees with Response. The new text does not follow *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021).* From the 4/14/2025 Comments: "Please note, through email correspondence, DEC approved the use of DRO-SGC as a screening method, with additional DRO analysis for confirmation samples. However, the blanket use of DRO-SGC for all samples was not approved. The interpretation of sample results must follow the *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup*

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
			(ADEC 2021). Please refer to Comment No.9." From 4/14/2025 Comment 9: The *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (DEC 2021)* states the "site characterization report should identify whether or not biogenic interference is present at the site **and support this by discussing the analytical data including sample chromatogram interpretation, site photos, soil descriptions, site characteristics, etc.**" Please see Comment 20 in the *Additional Comments Follow* section for the revised report.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
15.	Page 11/ Section 3.0 CSM	*Based on the 2024 RI results, there are no current exposure pathways for the affected media. The concentration levels of DRO affected soils are below both ingestion and inhalation levels for cleanup.* Please revise the report and CSM to indicate soil as a complete, but insignificant pathway. Please refer to Comment No.6.	Accepted. The report and CSM will be revised to indicate soil as a complete, but insignificant pathway. 7/10/2025 DEC Accepts.
16.	Page 11/ Section 3.0 CSM	DEC recognizes surface water is not used for drinking water at this site and previous samples have shown contaminants are not present above cleanup levels found in 18 AAC 75.345 Table C. However, surface water at the site is regulated as a drinking water source unless subject to site specific criteria under 18 AAC 70.235 and 236. Please revise the report and CSM to indicate the surface water as a complete, but insignificant pathway. Please also refer to Comment No.6.	Accepted. The report and CSM will be revised to indicate the surface water as a complete, but insignificant pathway. Due to low-level detections in groundwater, and the fact the site has not received an 18 AAC 75.350 determination, groundwater will also be identified as a complete but insignificant pathway at SP9. 7/10/2025 DEC Accepts.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
17.	Appendix	Please add a copy of the signed ADEC *Contaminated Media Transport and Treatment or Disposal Approval Form* as an appendix.	Accepted. The form will be added. 7/10/2025 DEC Accepts. 1/08/2026 DEC Disagrees with response upon receipt of revised draft. The TTD form attached to the report is not the signed copy. Please replace the unsigned form with the signed form.
18.		-end of original comments- Additional comments follow-	
19.	General Comment	SP3, 4, 6, 7, and 8 have DRO (only) results below Table B2. Method Two MTG, Over 40 Inch Zone, levels (230 mg/kg) prior to any SG cleanup. These AOCs do not need to be included in DRO-SG discussions, as they are below MTG without using Silica Gel Clean-up.	Agree.

20.	General Comment Background Samples	*"The background samples exhibited TOC at 3.3% and 39.1% and concentrations of DRO ranging from 150 mg/kg (unqualified) to 640 mg/kg (unqualified) and DRO-SG concentrations ranging from 16 mg/kg (flagged as J) to 100 mg/kg (unqualified). <u>The high level of organic carbon in the second sample indicates non-homogeneous soil throughout the site, with areas with high levels of biogenics</u>."*	Agree
		As this is non-homogenous soil, it cannot be assumed that all samples are significantly impacted by biogenics. While the data does show that some samples areas have elevated DRO levels with a large decrease after Silica Gel cleanup, there are other areas where DRO levels are approximately 20 mg/kg, which is much less than the "background" samples referenced.	Agree
		The requirements of the *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021),* states *"because biogenic material can vary widely across a site, silica gel cannot be used to establish a sitewide "background concentration" or "average concentration"*. DEC agrees that some samples are impacted by biogenics, but it is not acceptable to infer that samples in locations with different soil types are similarly impacted.	Agree
		Any sections of this report that make this assumption refer to samples that do not follow the criteria laid out in the *Technical Memorandum 21-001.* These sections need to be rewritten to remove these assumptions.	Agree
		Background samples were taken near SP9 and SP5 only. The samples taken at these AOCs appear to be consistent with the background samples.	Agree
		Throughout this revised the report, the text is written as if the DRO-SG values can be assumed to be the "final DRO" value for all samples. Additionally, the descriptor DRO is inappropriately substituted for DRO-SG in many instances. In the April 16, 2024 email, the DEC only approved the use of DRO-SG as a screening tool, not as a site wide definitive value.	The Workplan had stated the intention to use DRO-SG as representative of DRO contamination, however, the assessment did not follow the Technical Memorandum 21-001 methodology.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
21.	General Comment Background Samples	Any sample that was not collected during the October 2024 Sampling Event should not be referred to as a background sample. This includes the 830mg/kg sample collected in 2013. DRO/DRO-SG background samples MUST include both DRO and DRO-SG analysis as well as the other requirements in *Technical Memorandum 21-001 – Biogenic interference and Silica Gel Cleanup (ADEC 2021).* All references to samples as "background" that do not follow *Technical Memorandum 21-001*, should be removed. Samples taken to measure background TOC should be clearly identified and discussed separately from DRO/DRO-SG background samples.	Agree.
22.	Section 3.0	*"Because of the high level of organics on Ralston Island, when both DRO and DRO-SG analyses were performed and chromatographic evaluation indicated biogenic interference, the result from the DRO-SG analysis was considered the more representative analytical result for hydrocarbon impacts on site soils."* Please see Comment 20.	As stated in the response to Comment 20, it is agreed that the Technical Memorandum 21-001 was not followed sufficiently to be applied across all of the sites.
23.	Section 4.4.2	*"As part of the biogenic assessment, background and project samples with similar soil types were first compared, after examining oils descriptions from 2013 and 2024, as well as photographs and field notes."* What does "after examining oils descriptions" refer to?	TYPO: after examining soil descriptions from 2013 and 2024.
24.	Section 4.4.2 Table 4-1	Please remove the "*Final DRO Result with Qualifier Flag (mg/kg) column.* Please see Comment 20.	Agree. The column will be removed.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
25.	Section 4.4.2 Table 4-1	*"Background sample RIR24SS225BKG02 was recollected in April 2024 from the approximate location of sample RIR24SS209BKG102 in October 2024…"* In the Table 4-1 Notes, the dates appear to be swapped. RIR24SS225BKG02 was recollected in October 2024 and RIR24SS209BKG102 was originally collected in April 2024.	Agree. Will be corrected.
26.	Section 6.2.2 Precision	*"The RPD for DRO-SG in soil could not be calculated for eight of the nine soil field duplicate pairs analyzed, because for seven of the eight duplicate pairs the DRO-SG results were either between the DL and LOQ or were nondetect. RPD for one duplicate pair could not be assessed because only the primary sample was analyzed for DRO-SG."* There seems to be a typo or the end of the table crossing over onto the next page caused sample RIR24SS219SP902 and its Field Duplicate and their calculated RPD to be overlooked. Please correct the number of samples collected, the number that have a calculated RPD, and other text within this section related to field duplicate pairs, their DRO and DRO-SG analysis, and precision.	Fourteen soil duplicates were collected and 11 were analyzed for DRO and 10 for DRO-SG.
27.	Section 6.2.2 Precision	The RPD for sample RIR24SS219SP902 DRO-SG is 130%. Please discuss this result and if it should be qualified.	Sample RIR24SS219SP902/ RIR24SS219SP9022 had RPD of 130% for SG treated soil, underlining the non-homogeneous distribution of biogenic compounds in the soil. Both results are below cleanup level data usability is not affected.
28.	Section 6.2.5 and 6.2.6	The "Completeness" and "Comparability" sections were incorrectly written as titles to each other's sections.	Agree. This will be corrected.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
29.	Section 6.2.3	The "accuracy" section does not have a conclusion. It simply states laboratory results were reviewed but does not address whether the accuracy was acceptable. This section only describes the methodology, not the results, and does not contain report-specific information.	A closing evaluation is at the end of the 6.2.3.3. and can just be moved to the 6.2.3. "Based on the %R for LCS, LCSD, surrogates, MS, and MSD, the data appear to be accurately reflecting site conditions."
30.	Appendix B Photographs	Page 2 and 3 and their photograph descriptions are not in the *Table of Photographs.* Also, page 4 only has one photograph listed in the table, instead of the two that are on the page. Please correct this table.	Agree. This table will be corrected.
31.	Appendix E Laboratory Data	True background samples outside of SP5, RIR24SS227BKG01.5 and RIR24SS228BKG03.5, were the only true background samples entered into the table created by Search, LLC in their Chromatogram interpretation for Spill Area 1,2,5,9 & 10.	Agree. There were not sufficient background samples to complete a DRO-SG assessment site-wide.

Comment No.	Page / Section	DEC Comment/Recommendation: 4/14/2025	RP Response: DATE DEC Preliminary Comments: 7/10/2025 DEC Comments: 01/08/2026
32.	Appendix E Laboratory Data	For sample RIR24SS219SP902, the *Chromatogram Interpretation for Spill Area 1, 2, 5, 9, 10* states: *"Chromatogram looks like hydraulic oil that bleeds into DRO range."* Please explain this comment including what it implies for both SP9 as a whole and sample RIR24SS219SP902. Also include what could be the hydraulic oil source.	After removing polar compounds, the chromatogram shows characteristics comparable to heavy oils. The peak is mainly located in the residual oil range (RRO) but partly reaches in the integration range for DRO and can simulate DRO concentrations. This is the only sample that showed this chromatogram and therefore occurrence of used motor or hydraulic oil seems to be localized. It may be from heavy equipment operations.
33.		- end of additional comments -	

APPENDIX B
PHOTOGRAPHS

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TABLE OF PHOTOGRAPHS

4/21/2024 Mobilization to Ralston Island Beach 1
4/21/2024 Standing Water Near Site Observed 1
4/24/2024 Soil Boring for Spill Location 3 Hot Spot A 4
4/25/2024 Soil Boring for Spill Location 7 Hot Spot A 5
4/25/2024 Soil Boring for Spill Location 9 Primary Step Out 2 5
4/26/2024 Drill Rig at Spill Location 5 6
4/26/2024 Biogenic Sheen on Surface Water at Spill Location 5 6
4/27/2024 Background 2 Soil Boring Taken Near Spill Location 5 7
4/27/2024 Soil Boring for Down Gradient Well at Spill Location 9 7
5/02/2024 Monitoring Well 1 at Spill Location 9 8
5/02/2024 Monitoring Well 2 at Spill Location 9 8
5/02/2024 Monitoring Well 1 at Spill Location 5 9
5/02/2024 Monitoring Well 2 at Spill Location 5 9
5/02/2024 Monitoring Well 1 at Spill Location 10 10

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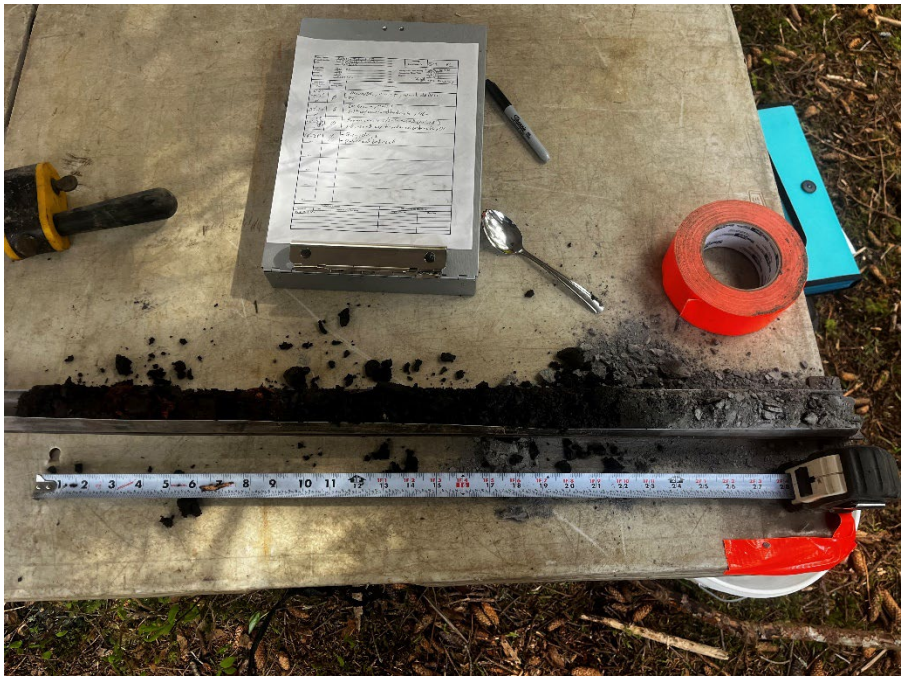
4/21/2024
Mobilization to Ralston Island Beach

4/21/2024
Standing Water Near Site Observed



4/22/2024
Soil Boring for Spill Location 1 Primary Step Out 1

4/22/2024
Soil Boring for Spill Location 3 Primary Step Out 1

4/23/2024
Soil Boring for Spill Location 4 Primary Step Out 3

4/23/2024
Soil Boring for Spill Location 5 Primary Step Out 1

4/24/2024
Soil Boring for Spill Location 5 Secondary Step Out 3

4/24/2024
Soil Boring for Spill Location 3 Hot Spot A

4/25/2024
Soil Boring for Spill Location 7 Hot Spot A

4/25/2024
Soil Boring for Spill Location 9 Primary Step Out 2

4/26/2024
Drill Rig at Spill Location 5

4/26/2024
Biogenic Sheen on Surface Water at Spill Location 5

4/27/2024
Background 2 Soil Boring Taken Near Spill Location 5

4/27/2024
Soil Boring for Down Gradient Well at Spill Location 9

5/02/2024
Monitoring Well 1 at Spill Location 9

5/02/2024
Monitoring Well 2 at Spill Location 9

5/02/2024
Monitoring Well 1 at Spill Location 5

5/02/2024
Monitoring Well 2 at Spill Location 5

5/02/2024
Monitoring Well 1 at Spill Location 10

APPENDIX C
CONCEPTUAL SITE MODEL

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Print Form

Appendix A - Human Health Conceptual Site Model Scoping Form and Standardized Graphic

Site Name: Former Range Facility Ralston Island

File Number: 1531.38.007

Completed by: TALCES, October 2024, Revised May 2025, Revised July 2025

Introduction

The form should be used to reach agreement with the Alaska Department of Environmental Conservation (DEC) about which exposure pathways should be further investigated during site characterization. From this information, summary text about the CSM and a graphic depicting exposure pathways should be submitted with the site characterization work plan and updated as needed in later reports.

General Instructions: Follow the italicized instructions in each section below.

1. General Information:

Sources *(check potential sources at the site)*

- ☐ USTs
- ☒ ASTs
- ☐ Dispensers/fuel loading racks
- ☐ Drums
- ☐ Vehicles
- ☐ Landfills
- ☐ Transformers
- ☒ Other: Fuel Pipeline -2 inch diameter/ 1-1.5 feet BGS

Release Mechanisms *(check potential release mechanisms at the site)*

- ☒ Spills
- ☒ Leaks
- ☐ Direct discharge
- ☐ Burning
- ☐ Other:

Impacted Media *(check potentially-impacted media at the site)*

- ☒ Surface soil (0-2 feet bgs*)
- ☒ Subsurface soil (>2 feet bgs)
- ☐ Air
- ☐ Sediment
- ☒ Groundwater
- ☒ Surface water
- ☐ Biota
- ☐ Other:

Receptors *(check receptors that could be affected by contamination at the site)*

- ☐ Residents (adult or child)
- ☐ Commercial or industrial worker
- ☐ Construction worker
- ☒ Subsistence harvester (i.e. gathers wild foods)
- ☒ Subsistence consumer (i.e. eats wild foods)
- ☒ Site visitor
- ☒ Trespasser
- ☒ Recreational user
- ☐ Farmer
- ☒ Other: Recreational Fishing and Hunting

* bgs - below ground surface

2. Exposure Pathways: *(The answers to the following questions will identify complete exposure pathways at the site. Check each box where the answer to the question is "yes".)*

a) Direct Contact -

1. Incidental Soil Ingestion

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site-specific basis.) ☒

If the box is checked, label this pathway complete: Complete

Comments:

DRO, the contaminant of concern, is present in soils and the pathway is considered complete, although insignificant.

2. Dermal Absorption of Contaminants from Soil

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.) ☒

Can the soil contaminants permeate the skin (see Appendix B in the guidance document)? ☐

If both boxes are checked, label this pathway complete: Incomplete

Comments:

DRO is not listed in Appendix B of the guidance document.

b) Ingestion -

1. Ingestion of Groundwater

Have contaminants been detected or are they expected to be detected in the groundwater, or are contaminants expected to migrate to groundwater in the future? ☒

Could the potentially affected groundwater be used as a current or future drinking water source? Please note, only leave the box unchecked if DEC has determined the ground-water is not a currently or reasonably expected future source of drinking water according to 18 AAC 75.350. ☒

If both boxes are checked, label this pathway complete: Complete

Comments:

The groundwater pathway is considered to be complete but insignificant.

2. Ingestion of Surface Water

Have contaminants been detected or are they expected to be detected in surface water, or are contaminants expected to migrate to surface water in the future? ☒

Could potentially affected surface water bodies be used, currently or in the future, as a drinking water source? Consider both public water systems and private use (i.e., during residential, recreational or subsistence activities). ☒

If both boxes are checked, label this pathway complete: Complete

Comments:

Surface water ingestion is considered to be complete but insignificant.

3. Ingestion of Wild and Farmed Foods

Is the site in an area that is used or reasonably could be used for hunting, fishing, or harvesting of wild or farmed foods? ☒

Do the site contaminants have the potential to bioaccumulate (see Appendix C in the guidance document)? ☐

Are site contaminants located where they would have the potential to be taken up into biota? (i.e. soil within the root zone for plants or burrowing depth for animals, in groundwater that could be connected to surface water, etc.) ☒

If all of the boxes are checked, label this pathway complete: Incomplete

Comments:

DRO is not included in Appendix C and does not have the potential to bioaccumulate.

c) Inhalation-

1. Inhalation of Outdoor Air

Are contaminants present or potentially present in surface soil between 0 and 15 feet below the ground surface? (Contamination at deeper depths may require evaluation on a site specific basis.) ☒

Are the contaminants in soil volatile (see Appendix D in the guidance document)? ☐

If both boxes are checked, label this pathway complete: Incomplete

Comments:

DRO is not listed in Appendix D of the guidance document. The 2024 investigation results are below inhalation level for the over 40-inch precipitation zone.

2. Inhalation of Indoor Air

Are occupied buildings on the site or reasonably expected to be occupied or placed on the site in an area that could be affected by contaminant vapors? (within 30 horizontal or vertical feet of petroleum contaminated soil or groundwater; within 100 feet of non-petroleum contaminted soil or groundwater; or subject to "preferential pathways," which promote easy airflow like utility conduits or rock fractures) ☐

Are volatile compounds present in soil or groundwater (see Appendix D in the guidance document)? ☐

If both boxes are checked, label this pathway complete: Incomplete

Comments:

DRO is not listed in Appendix D of the guidance document as volatile compounds of potential concern. There are no standing structures remaining on this site.

3. **Additional Exposure Pathways:** *(Although there are no definitive questions provided in this section, these exposure pathways should also be considered at each site. Use the guidelines provided below to determine if further evaluation of each pathway is warranted.)*

Dermal Exposure to Contaminants in Groundwater and Surface Water

Dermal exposure to contaminants in groundwater and surface water may be a complete pathway if:

- Climate permits recreational use of waters for swimming.
- Climate permits exposure to groundwater during activities, such as construction.
- Groundwater or surface water is used for household purposes, such as bathing or cleaning.

Generally, DEC groundwater cleanup levels in 18 AAC 75, Table C, are deemed protective of this pathway because dermal absorption is incorporated into the groundwater exposure equation for residential uses.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

N/A

Inhalation of Volatile Compounds in Tap Water

Inhalation of volatile compounds in tap water may be a complete pathway if:

- The contaminated water is used for indoor household purposes such as showering, laundering, and dish washing.
- The contaminants of concern are volatile (common volatile contaminants are listed in Appendix D in the guidance document.)

DEC groundwater cleanup levels in 18 AAC 75, Table C are protective of this pathway because the inhalation of vapors during normal household activities is incorporated into the groundwater exposure equation.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

N/A

Inhalation of Fugitive Dust

Inhalation of fugitive dust may be a complete pathway if:

- Nonvolatile compounds are found in the top 2 centimeters of soil. The top 2 centimeters of soil are likely to be dispersed in the wind as dust particles.
- Dust particles are less than 10 micrometers (Particulate Matter - PM_{10}). Particles of this size are called respirable particles and can reach the pulmonary parts of the lungs when inhaled.

DEC human health soil cleanup levels in Table B1 of 18 AAC 75 are protective of this pathway because the inhalation of particulates is incorporated into the soil exposure equation.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Inhalation of fugitive dust was eliminated as a complete pathway because the site is completely vegetated with a thick vegetative mat (greater than 2 cm). Particle sizes were estimated to be greater than 10 micrometers. Additionally, the climate of southeast Alaska is rain and wet, reducing the likelihood of fugitive dust and subsequent inhalation exposure.

Direct Contact with Sediment

This pathway involves people's hands being exposed to sediment, such as during some recreational, subsistence, or industrial activity. People then incidentally ingest sediment from normal hand-to-mouth activities. In addition, dermal absorption of contaminants may be of concern if the the contaminants are able to permeate the skin (see Appendix B in the guidance document). This type of exposure should be investigated if:

- Climate permits recreational activities around sediment.
- The community has identified subsistence or recreational activities that would result in exposure to the sediment, such as clam digging.

Generally, DEC direct contact soil cleanup levels in 18 AAC 75, Table B1, are assumed to be protective of direct contact with sediment.

Check the box if further evaluation of this pathway is needed: ☐

Comments:

Contaminated sediment has not been detected in the project area.

4. Other Comments *(Provide other comments as necessary to support the information provided in this form.)*

There is impacted surface and subsurface soil above the cleanup levels. at SP9 Groundwater has been impacted although below the cleanup level. Surface water has not been ruled out as a potential drinking water source, therefore, soil, groundwater and surface water are all considered to have completed, albeit insignificant pathways.

Print Form

HUMAN HEALTH CONCEPTUAL SITE MODEL GRAPHIC FORM

Site: Former Range Facility
Ralston Island

Completed By: TALCES JV
Date Completed: July 2025

***Instructions*: Follow the numbered directions below. Do not consider contaminant concentrations or engineering/land use controls when describing pathways.**

(1)
Check the media that could be directly affected by the release.

(2)
For each medium identified in (1), follow the top arrow and check possible transport mechanisms. Check additional media under (1) if the media acts as a secondary source.

(3)
Check all exposure media identified in (2).

(4)
*Check all pathways that could be complete. The pathways identified in this column **must** agree with Sections 2 and 3 of the Human Health CSM Scoping Form.*

(5)
Identify the receptors potentially affected by each exposure pathway: Enter "C" for current receptors, "F" for future receptors, "C/F" for both current and future receptors, or "I" for insignificant exposure.

Current & Future Receptors

Media	Transport Mechanisms	Exposure Media	Exposure Pathway/Route	Residents (adults or children)	Commercial or industrial workers	Site visitors, trespassers, or recreational users	Construction workers	Farmers or subsistence harvesters	Subsistence consumers	Other
☑ Surface Soil (0-2 ft bgs)	☑ Direct release to surface soil — check soil	☑ soil	☑ Incidental Soil Ingestion			I		I	I	I
	☑ Migration to subsurface — check soil		☐ Dermal Absorption of Contaminants from Soil							
	☑ Migration to groundwater — check groundwater		☐ Inhalation of Fugitive Dust							
	☐ Volatilization — check air									
	☐ Runoff or erosion — check surface water									
	☐ Uptake by plants or animals — check biota									
	☐ Other (list):									
☑ Subsurface Soil (2-15 ft bgs)	☑ Direct release to subsurface soil — check soil	☑ groundwater	☑ Ingestion of Groundwater			I		I	I	I
	☑ Migration to groundwater — check groundwater		☐ Dermal Absorption of Contaminants in Groundwater							
	☐ Volatilization — check air		☐ Inhalation of Volatile Compounds in Tap Water							
	☐ Uptake by plants or animals — check biota									
	☐ Other (list):									
☐ Ground-water	☐ Direct release to groundwater — check groundwater	☐ air	☐ Inhalation of Outdoor Air							
	☐ Volatilization — check air		☐ Inhalation of Indoor Air							
	☐ Flow to surface water body — check surface water		☐ Inhalation of Fugitive Dust							
	☐ Flow to sediment — check sediment									
	☐ Uptake by plants or animals — check biota									
	☐ Other (list):									
☑ Surface Water	☑ Direct release to surface water — check surface water	☑ surface water	☑ Ingestion of Surface Water			I		I	I	I
	☐ Volatilization — check air		☐ Dermal Absorption of Contaminants in Surface Water							
	☐ Sedimentation — check sediment		☐ Inhalation of Volatile Compounds in Tap Water							
	☐ Uptake by plants or animals — check biota									
	☐ Other (list):									
☐ Sediment	☐ Direct release to sediment — check sediment	☐ sediment	☐ Direct Contact with Sediment							
	☐ Resuspension, runoff, or erosion — check surface water									
	☐ Uptake by plants or animals — check biota	☐ biota	☐ Ingestion of Wild or Farmed Foods							
	☐ Other (list):									

Revised, 7/31/2025

APPENDIX D
FIELD INFORMATION

Field Notes

Health and Safety Forms

Soil Boring Logs

Monitoring Well Construction Logs

Water Sampling Forms

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FIELD NOTES

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CONTENTS

PAGE	REFERENCE	DATE

4/20/24 Ralston Island RI

0700 Loaded Morsa Marine landing craft with equipment at Awke Bay loading facility.

0830 Departed for Ralston.

1000 Arrived and offloaded equipment. Scoped out path to the project site from the beach. Set mooring buoy for water taxi (M/V Morsa) to tie up to each day.

1230 Departed island for Awke Bay loading facility.

1330 Loaded remaining supplies.

1400 Moved boat to Tee Harbor dock where it will be staged for the project.

1600 Docked boat.

1630 Picked up remaining supplies for project.

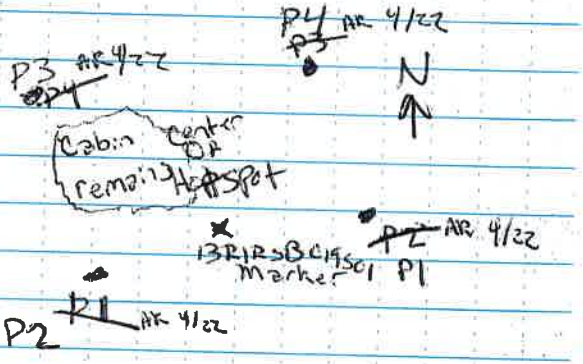
1800 Day Completed.

Scale: 1 square = _____

Rite in the Rain

Range Facility Ralston Island RI 4/21/24
697DCR-24-C-00040
personnel: Jody Dillon & Anna Robinson
James , Clayton , Josh
0700: Loaded Morsa Marine Landcraft @ Tee Harbor
0800: Unload @ Ralston Island
0830 Start mobilizing equipment
0830 Start survey of 2013 sample Points
1400 End survey
Continue equipment mobilization
1450 Anna & Jody mark step outs for SP1 - SP3
primary - orange pinflags
Pin flags labeled SP1-SP3
P1-P4

SP1:



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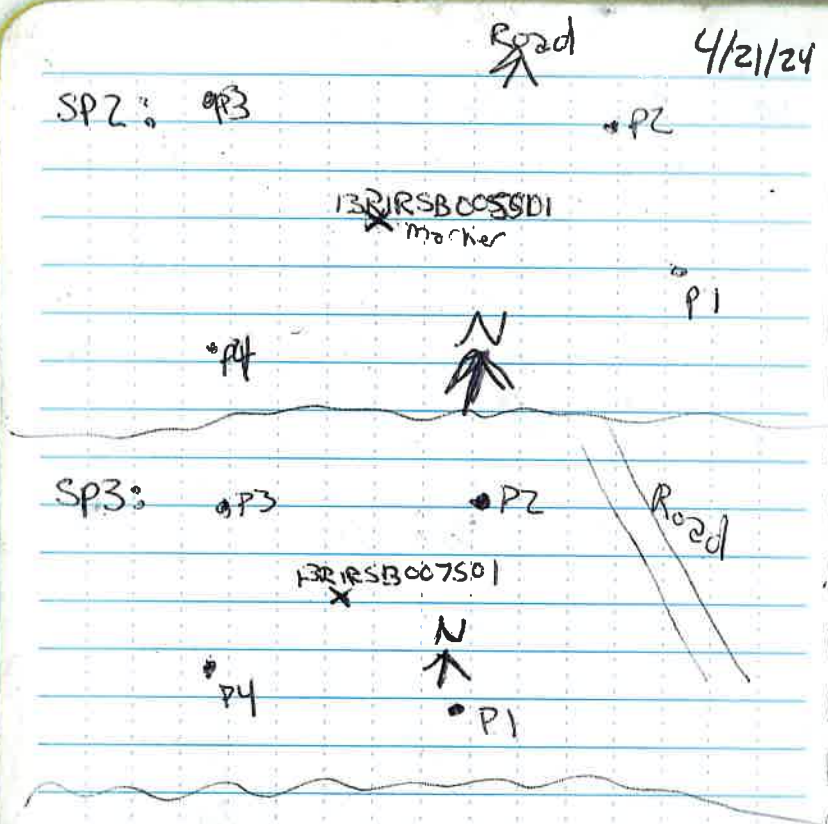
Rite in the Rain

4/21/24



1800 Stop mobilization for the Day

1830 Loaded marsa marine land craft @ Ralston Island

1930 Arrive @ Tee Harbor

1930 EOD

Scale: 1 square = _____

4/22/24

Ralston Island RI
#697 DCK-24-C-00040

personnel: Anna, Robert, Jody, James, Clayton
location: Ralston Island
PPE: Level D

0700: loaded Morsa marine landcraft @ Tee Harbor

0800 Arrived @ Ralston ~~Island~~ Clayton took boat back to Tee Harbor to pick up Anna & Robert

0800 ~~Mobilization~~ of Drill rig and other equipment continues towards site.

1100 Anna and Robert load Morsa marine at Tee Harbor

1200 Arrive @ Ralston Island.

1220 Calibrate PID ~~#0737~~ AR 4/22/24 (TRR)
Mini RAE 3000
Cal gas Tedlar sample Bag
IS8 4 23-9778 100ppm Exp: 6/27
Batch: 020088
Fresh Air Cal: 0.0
span cal: 100.3
Bump:

Scale: 1 square = _____

Rite in the Rain

4/22/24

1308
~~1250~~ Start drilling At SP1-SP2 for primary samples 1 (P1)-4 (P4)
RE 4/22

1630 Sample Management

~~1700~~ load Morse Marine on Bezon
~~1755~~ Arrive @ Tee Harbor
1820 Drop Sample Cooler # RIR001 @ Alaska Air Cargo

Sample ID #	Time	Boring location	PID reading	QC
RIR24SS101SP11.5	1330	SP1-P1	3.9	
RIR24SS102SP102	1351	SP1-P2	1.6	
RIR24SS103SP103	1412	SP1-P3	10.0	
RIR24SS 104SP104	1427	SP1-P4	11.1	
RIR24SS 105SP21.5	1440	SP2-P4	3.8	
RIR24SS106SP203	1442	SP2-P4	10.6	
RIR24SS107SP202	1454	SP2-P3	2.9	
RIR24SS108SP202	1512	SP2-P1	2.0	MS/MSD
RIR24SS108SP2029	1513	SP2-P1	2.0	dup
RIR24SS109SP21.5	1626	SP2 P2	7	

Stamped AR Form

Borings	Primary	Dup	MS/MSD
8	9	1	1

1900 EOD

Scale: 1 square = _____

4/23/24

Ralston Island RI
#697 DCN-24-C-00040
Personnel: Anna R., Jody D, Robert M., James B
location: Ralston Island Clayton E.
PPE: Level D

0700 Arrive @ Tee Harbor to load Morse Marine Landcraft.
0720 Leave Tee Harbor
0830 Arrive @ Ralston Island
0900 start drilling and sampling soil borings start @ SP3 ~~SP4~~ RR 4/23
PID Bump Test: 100.6

Sample ID #	Time	Boring location	PID	QC
RIR24SS110SP31.5	920	SP3-P1	0.7	
RIR24SS111SP31.5	928	SP3-P4	6.4	
RIR24SS112SP303	934	SP3-P4	9.9	
RIR24SS113SP31.5	945	SP3-P3	9.7	
RIR24SS114SP325	954	SP3-P3	2.8	
RIR24SS115SP301	1036	SP3-P2	9	
RIR24SS115SP3019	1037	SP3-P2	~~11.9~~ 11.4	Dup
RIR24SS116SP302	1050	SP3-P2	11.4	
RIR24SS117SP402	1142	SP4-P4	4	
RIR24SS118SP406	1152	SP4-P4	8.1	MS/MSD
RIR24SS119SP485	1207	SP4-P4	6.4	

Scale: 1 square = _____

Rita in the Rain

4/23/24

Sample ID #	Time	Boring location	PID	
R1R24SS120SP402	1229	SP4-P3	8.6	
R1R24SS121SP404	1236	SP4-P3	3.7	
R1R24SS122SP405	1245	SP4-P3	3.1	
R1R24SS123SP41.5	1322	SP4-P1	10	
R1R24SS124SP44.5	1330	SP4-P1	4.9	
R1R24SS125SP406	1340	SP4-P1	6.5	
R1R24SS126SP41.3	1358	SP4-P2	5.8	
R1R24SS127SP4039	1411	SP4-P2	6.9	DUP
R1R24SS127SP403	1410	SP4-P2	6.9	
R1R24SS128SP45.5	1424	SP4-P2	4.7	
R1R24SS129SP502	1442	SP5-P1	4.7	
R1R24SS130SP54.5	1450	SP5-P1	4.3	
R1R24SS131SP55.5	1524	SP5-P1	4.2	MS/MSD
R1R24SS131SP55.5D	1525	SP5-P1	4.2	DUP
R1R24SS132SP502	1543	SP5-P2	8.9	ODOR
R1R24SS133SP505	1554	SP5-P2	5.8	ODOR
R1R24SS134SP59.5	1608	SP5-P2	4.9	
R1R24SS135SP502	1610	SP5-P3	3.7	
R1R24SS136SP505	1620	SP5-P3	5	
R1R24SS136SP505D	1621	SP5-P3	5	DUP
R1R24SS137SP509	1629	SP5-P3	3.5	

1630 End Drilling and sampling @ SP5

*Note Many horizons classified as OL in this report are PT

Scale: 1 square = _____

4/24/24

1700 Load Morse Marine @ Ralston Island Beach

1705 Sample Management - prep Coolers for shipment

1800 Arrive @ Tee Harbor

1820 Ship coolers # R1R24P2 @ Alaska Air Cargo

Daily Sample Count

Boring #'s	Primaries	Dups	MS/MSD
~~MS 4/23 SP2~~ MS 11	28	4	2

1900 EOD

Scale: 1 square = _____

Ralston Island RI 4/24/24

#1697 DCR-24-C-00040

Personnel: AR, JP, CE, RM, JB

Location: Ralston Island pipeline

PPE: Level D

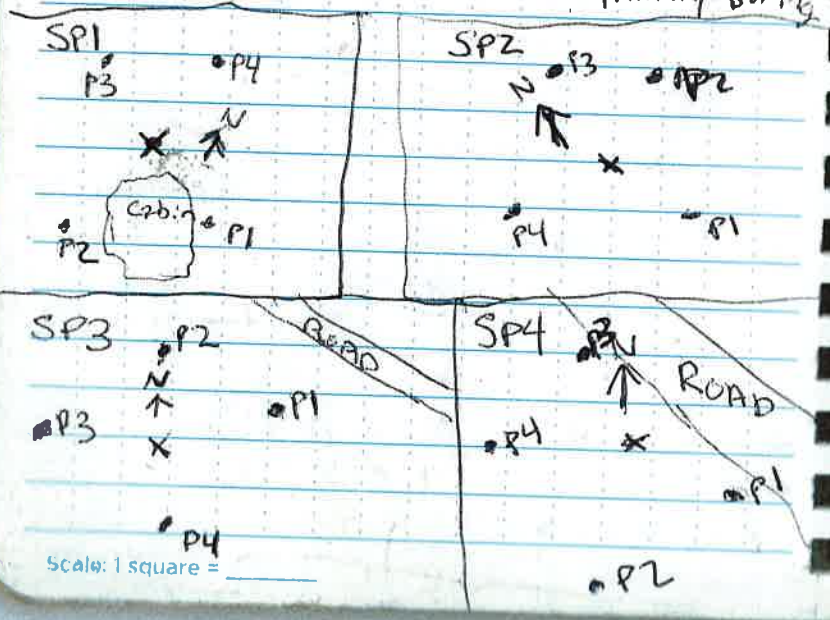
0700 Arrive @ Tee Harbor and load Morse Marine Landing Craft.

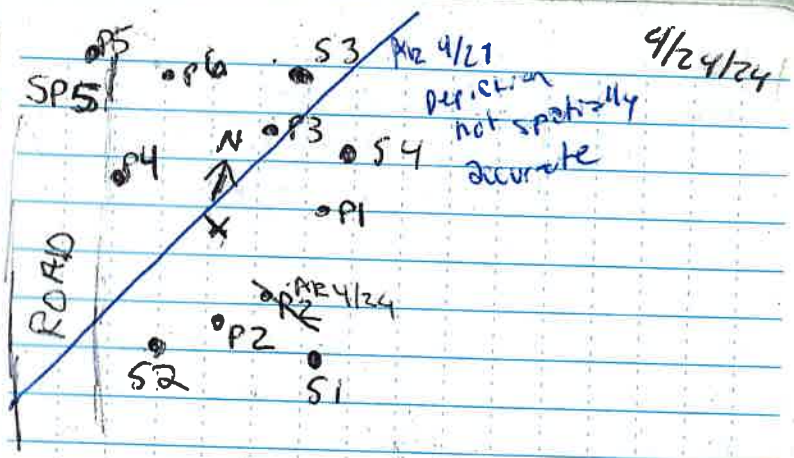
0800 Arrive @ Ralston Island Beach

0845 Arrive on site @ SP1 Staging area

0852 Create diagrams of Boring locations

X = center of spill • = primary Boring





4/24/24

0914 Calibrate PID Mini RAE 3000

Cal Gas: Tedlar Sample Bag Batch: 02008C et 6/27

Fresh Air: 000

Span Cal: 100.4

0917 Start logging soil Borings

Sample ID #	Time	Boring Location	PID reading	QC	Samples	Notes
RIRZ4SS138SP5O2	932	SP5-P4	2.9		AR/JP	1
RIRZ4SS139SP5O4	934	SP5-P4	4.7			2
RIRZ4SS140SP5O7.5	936	SP5-P4	7			3
RIRZ4SS141SP5O2	1006	SP5-P6	1.8			4
RIRZ4SS142SP5O3.5	1008	SP5-P6	3.9			5
RIRZ4SS143SP5O6	1010	SP5-P6	5.7			6
RIRZ4SS144SP5O2	1040	SP5-P5	9.1			
RIRZ4SS145SP5O4	1042	SP5-P5	6.9			
RIRZ4SS146SP5O7	1044	SP5-P5	6.8			

Photo Not Taken of Boring

Scale: 1 square = _____

4/24/24

Sample ID #	Time	Boring Location	PID reading	QC	Sampler	Notes
R1R24SS147SP502	1100	SP5-S1	~~7.8~~ 7.6		AK/Rm	
R1R24SS148SP504.5	1102	SP5-S1	~~7.9~~ 7.6			
R1R24SS148SP504.5	1103	SP5-S1	~~7.6~~	DUP		
R1R24SS149SP506.5	1104	SP5-S1	5.6			
R1R24SS150SP506.5	1140	SP5-S2	7.8			
R1R24SS151SP502	1142	SP5-S2	5.6			
R1R24SS152SP505	1144	SP5-S2	5.9			
R1R24SS153SP502	1206	SP5-S3	7.9			
R1R24SS154SP504	1208	SP5-S3	6.4			
R1R24SS155SP505	1210	SP5-S3	1.5			
R1R24SS156SP501.5	1236	SP5-S4	5.7			
R1R24SS157SP503.5	1238	SP5-S4	6.7			
R1R24SS158SP505	1240	SP5-S4	4.5	MS/MSD		
R1R24SS158SP505	1241	SP5-S4	4.5	DUP		
R1R24SS159SP402	1415	SP4-HSA	9.5			
R1R24SS160SP403.5	1417	SP4-HSA	9.9			
R1R24SS161SP407	1419	SP4-HSA	8.8			
R1R24SS162SP301.5	1440	SP3-HSA	8.5			
R1R24SS163SP303	1442	SP3-HSA	6.1			
R1R24SS164SP601	1525	SP6-HSA	6.1			
R1R24SS165SP603	1527	SP6-HSA	8.9			
R1R24SS166SP601.5	1555	SP6-HSB	8.1			
R1R24SS166SP604	1556	SP6-HSB	8.1	DUP		
R1R24SS167SP604	1557	SP6-HSB	8.0			
R1R24SS168SP703.5	1610	SP7-HSA	10.7			
R1R24SS169SP703.5	1611	SP7-HSA	10.7	DUP		

Sample ID #	Time	Boring/QC	Sampler	Notes
R1R24SS169SP715	1628	~~SP6~~ SB	AK/Rm	11.6
R1R24SS170SP705	1630	SP7 HSB		10
R1R24SS171SP81.5	1632	SP8-HSA		9.2

1645 End Sampling

Borings	Primary	DUP	MS/MSD
14	34	3	1

1700 Load Norse Marine @ Ralston Island Beach

1705 Sample Management

1800 Arrive @ Tee Harbor

1830 Drop Cooler # R1R0003 @ Alaska Cargo

1900 EOD

Scale: 1 square = _____

Rite in the Rain

4/25/24

Ralston Island RI
#697 DCK 24-C-00040
Personnel: AR, JD, RM, CE, JB
Location: Ralston Island pipeline
PPE: Level D

0700: Arrive @ Tee Harbor and load Morse Marine Land Craft
0800 Arrive @ Ralston Island Beach
0825 Arrive @ SP1 Staging Area
0845 Calibrate PID Mini RAE 3000 ~~B2~~ PGM-7600
Cal Gas: Tedlar Sample Bag Batch: 020088 Ex 6/27
Fresh Air Cal: 0.0
Span Cal: 100.3

*Note SP# - HSA not spot accurate
Are primary samples taken @ previously sampled locations

New Boring location ID	2013 Sample ID	2013 DRO ~~DRO~~
SP3-HSA	13RIRSB007501	740
SP4-HSA	13RIRSB009501	660
SP6-~~HSA~~ HSA	13RIRSB015501	840
SP6-HSB	13RIRSB013501	1700
SP7-HSA	13RIRSB012501	1500
SP7-HSB	13RIRSB011501	490
SP8-HSA	13RIRSB010501	840

Scale: 1 square =

4/25/24

0940 Start sampling

Sample ID #	Time	Boring Location	PID reading	QC	Sample	Notes
RIR24SS172SP702	953	SP7-HSA	7.6		MS/MSD	1
RIR24SS173SP91.5	1030	SP9-HSA	29.3			2
RIR24SS174SP904	1032	SP9-HSA	49.1			3
RIR24SS175SP901	1058	SP9-HSB	35.2			4
RIR24SS176SP903	1100	SP9-HSB	33.7			5
RIR24SS177SP91.5	1125	SP9-HSC	39.3			6
RIR24SS178SP906	1127	SP9-HSC	11			7
RIR24SS179SP901	1150	SP9-HSD	31			8
RIR24SS179SP9019	1151	SP9-HSD	31	DUP		
RIR24SS180SP903	1152	SP9-HSD	22.4			9
RIR24SS181SP91.5	1210	SP9-HSE	48.3	MS/MSD		10
RIR24SS182SP902	1240	SP9-HSF	49.9			11
RIR24SS183SP104	1242	SP9-HSF	50.4			12
RIR24SS184SP1015	1312	SP10-HSA	51.8			13
RIR24SS185SP1003	1312	SP10-HSA	15.3			14
RIR24SS186SP1002	1320	SP10-HSB	56.9			15
RIR24SS187SP1001	1322	SP10-HSB	12.5			16
RIR24SS188SP51.5	1430	SP5-HSA	60.8			17
RIR24SS189SP504	1432	SP5-HSA	49.8			18
RIR24SS190SP51.5	1440	SP5-HSB	36.9			19
RIR24SS190SP51.5	1441	SP5-HSB	~~49.9~~ 50.5	DUP		
RIR24SS191SP53.5	1442	SP5-HSB	49.2		Rite in the Rain	20

Scale: 1 square =

4/26/24

Sample ID #'s	Time	Boring location	PID reading	QC	Sample Aliquot	Note
R1R24SS192SP21.5	1456	SP2-HSA	57.4			20
R1R24SS193SP101	1500	SP1-HSA	45.8			22
R1R24SS194SP10.5	1510	SP1-HSB	56.4			23
R1R24SS195SP101	1530	SP1-HSC	71.0			24
R1R24SS196SP102	1540	SP1-HSD	67			25
R1R24SS197SP902	1614	SP9-P1	61.4			26
R1R24SS198SP95.5	1616	SP9-P1	71.2			27
R1R24SS199SP902	1618	SP9-P2	5.4?			PID not working
R1R24SS200SP903	1620	SP9-P2	0.8?			

Boring #	Primary	Dups	MS/MSD
17	29	2	1

New Boring location ID	2013 sample ID
SP9-HSA	13R1RSB002S01
SP9-HSB	13R1RSB003S01
SP9-HSC	13R1RSB014S01
SP9-HSD	13R1RSB016S01
SP9-HSE	13R1RSB614S02
SP9-HSF	13R1RSB020S01
SP10-HSA	13R1RSB001 02
SP10-HSB	13R1RSB061S01
SP5-HSA	13R1RSB018S01
SP5-HSB	13R1RSB017S01

Scale: 1 square = _____

4/25/24

SP2-HSA	13R1RSB005S01
SP1-HSA	13R1RSB004S02
SP1-HSB	13R1RSB[illegible]4S01
SP1-HSC	13R1RSB003S01
SP1-HSD	13R1RSB004S01

1630 End sampling

1700 Load Morse Marine @ Ralston Island Beach

1705 Sample Management

1800 Arrive @ Tee Harbor

1830 Drop off cooler ID# R1R0904 @ Alaska Cargo

1900 EOD

Scale: 1 square = _____

Rite in the Rain

Ralston Island R1 4/26/24
#697 DCK 24-C-00040
Personnel: AF, RM, JD, CE, JB
Location: Ralston Island pipeline
PPE: Level D

0700 Arrive @ Tee Harbor and load Morsa Marine Landing Craft.
0800 Arrive @ Ralston Island Beach
0830 Arrive on site @ SP1 Staging Area.
0900 Calibrate PID Mini RAE 3000
Cal Gas Tedlar Bag Batch: 02w88 exp: 6/27
Fresh Air Cal: 0.0
Span Cal: 100.5

0930 Start Soil borings and sampling

Sample ID #	Time	Boring Location	PID	QC	Sample	4/26/24 Notes
R1R24SS201SP902	1025	SP9-P3	5.5			1
R1R24SS202SP945	1027	SP9-P3	8.7			2
R1R24SS203SP902	1040	SP9-P4	12.7			P4 3
R1R24SS204SP94.5	1042	SP9-P4	10.7			P4 4
R1R24SS205SP901	1115	SP9-P6	16.3			5
R1R24SS206SP903	1117	SP9-P6	14.8			6
R1R24SS207SP901	1234	SP9-P5	10.4			7
R1R24SS207SP909	~~1237~~ 1237	SP9-P5	10.4	DUP		8
R1R24SS208SP925	1238	SP9-P5	12.5	MS/MSD		8B
R1R24SS209BKG02	1536	BKG1	0.7	2 Jars		BKG PM102 109 & DRO-5610
R1R24SS210 BKG35	1538	BKG1	1.1	2 Jar		

Sample ID #: Borings 5, Prim. 10, Dup 1, MS/MSD 1

1630 End site activities
1700 Load Morsa Marine Landing Craft
1900 Arrive @ Tee Harbor
1900 EOD

Scale: 1 square = _____

Rite in the Rain

Ralston Island RI 4/27/24
#697 DCR 24-C-00010
Personnel: AR, RM, JO, CE, JB
Location: Ralston island pipeline
PPE: Level D

0700 Arrive @ Tee Harbor & load Morsa Marine Land Craft
0800 Arrive @ Ralston Island beach.

0811 Arrive @ SP1 Staging area.

0845 Start logging and Sampling soil borings
0850 Calibrate PID ~~Mini~~ RAE 3000
Cal Gas Tedlar Bag Batch #0260616 Ex: 6/27
Fresh Air Cal: 0.0
Span Gas Cal: 100.4

Sample ID #	Time	Boring location	PID	QC	Sample	Notes
RIR24SS211BKG2-15	0906	BKG-2	6.9			
RIR24SS212BKG204	0908	BKG-2	0.9			
RIR24SS211BKG215	0907	BKG-2	7.2	DUP		
RIR24SS213SP1 02	1430	SP9-S1	3.2			
RIR24SS214SP902	1450	SP9-S2	6.1			

Scale: 1 square =

4/27/24

1000 Start well installation @ SP5
AR/27

~~Well Name:~~
SP5-MW1
Top of casing to bottom: 10.2 ft
Top of casing to ground surface: 3.4 ft
Top of well to Top of casing: ~~2~~ 0.3'
Top of well to ground water: 5.1'

1330 Well installation
SP5-MW2
1330 SP9-MW1
1430 SP9-MW2
1400 Continue soil borings and sampling secondary stepouts at SP9

Sample ID #	Time	Boring location	PID	QC	Sample	Notes
RIR24SS215SP9 02	1510	SP9-S4	5.3			
RIR24SS216SP9 01	1512	SP9-S4	2.4			
RIR24SS217SP9 15	1530	SP9-S3	3.9			
RIR24SS218SP903	1532	SP9-S3	7.6			

1745 Load Morsa Marine @ Ralston Island Beach
1845 Arrive @ Tee Harbor
1900 EOD

Scale: 1 square =

Ralston Island RI 4/28/24

#1697 DCK 24-C-0004/0

Personnel: AR, RM, JB, CE

Location: Ralston Island pipeline

PPE: Level D

0800 Load Morse Marine land crest @ Tee Harbor

0900 Arrive @ Ralston Island Beach

0930 Arrive on site @ SP1 staging area

1010 Start well Development, and Sampling @ SP5-MW1 - Developed & Sampled

1330 SP5-MW2 - not finished developing by End of day

1430 SP9-MW1

1613 SP9-MW2

1700 Collect surface water samples

Surface Water Sample	Time	Location
SW01	1700	SP9-MW2-North
SW02 - MS/MSD	1701	SP9-MW2-South
SW029	1711	SP7-MW2-South
SW03	1730	SP5

Change to SP7 location

Scale: 1 square = _____

Groundwater Samples 4/28/24

SP5-MW1 1352 from grid: x2 bottles & MS MSD x4 bottled

SP5-MW1 1353 Dup x2 bottles

Sample ID	Time	QC	Location	Jars	Sampler
RIR24MW0001	1352	MS/MSD	SP5-MW1	6	AR/RM
RIR24MW0019	1353	dup	SP5-MW1	2	
RIR24SW0009SP9-1	1700		SP9	2	
RIR24SW0009SP7-1	1710	MS/MSD	SP7	6	
RIR24SW0009SP7-19	1711	dup	SP7	2	
RIR24SW0005SP5-1	1730		SP5	2	↓

1845 Load Morse Marine @ Ralston Island Beach

1945 Arrive @ Tee Harbor

2000 EOD

Scale: 1 square = _____

Rite in the Rain

Ralston Island RI 4/29/24

#697 DCK - 24-0000-04

Personnel: AR, RM, JD, CE, SB

Location: Ralston Island pipeline

PPE: Level D.

0800 Arrive @ Tee Harbor & load Morse Marine

0900 Arrive @ Ralston Island Beach

0930 Start ~~Devel~~ continued development @ ~~SP5~~-MW2, SP9 MW1, SP9 MW2

Sample ID #	Time	QC	Sampler	Jar #	Location
R1R24MW002	1318		AR/RM	2	~~SP9~~-MW2
R1R24MW003	1410		↓	2	SP5-MW2

1600 ~~Purge~~ ~~SP9~~-MW1 dry again Turbidity too high to Sample.

1700 Load Morse Marine

1830 Arrive @ Tee Harbor

1900 — EOD —

Scale: 1 square =

Ralston Island RI 4/30/24

#697 DCK 24-C-00040

Personnel: AR, RM, JD, JB, CE

Location: Ralston Island pipeline

PPE: Level D

0815 Load Morse Marine @ Tee Harbor

0920 Arrive @ Ralsen Island beach

1000 Sample SP9-MW1 and move and prep equipment to develop SP10-MW1

1100 Data sheet/Field form management.

1400 Start developing SP10-MW1

1550 Cont. development.

Sample ID	Time	QC	Sampler	Jar #.	Location
R1R24 MW004	1002		AR/RM	2	SP9-MW1

1740 Load Morse Marine

1930 Arrive @ Awke Bay to unload

2000 EOD

Scale: 1 square =

Rite in the Rain

Ralston Island RI 5/1/24
#697 DCK 24-C-00040
Personnel: CE, JD, JB, AR, RM
Location: Ralston Island Beach
PPE: Level D

0530 - 0930: CE, JD, & JB Demobilization of Drill equipment from Ralston Island

0800: RM & AR Data management, QC, and demobilizing.

1400: EOD

Scale: 1 square = _____

Ralston Island RI 5/2/24
#697 DCK 24-C-00040
Personnel: AR, RM, CE,
Location: Ralston Island pipeline
PPE: Level D:

0930 Sampling @ SP10-MW1

1000 Survey

location ID	Notes
SP9-MW2	Down gradient well of sp9
SP1-HSB	BRIRSB 0195 01
SP1-TW1	Temp well point same as SP1-HSB
SP1-HSA	BRIRSB0195 02
SP1-HSC	BRIRSB0035 01
SP1-HSD	BRIRSB0045 01
SP1-P3	SP1-primary step out 3
SP1-TW2	down gradient Temp well of SP1
SP1-P4	SP1 primary step out 4
SP1-P2	SP1 primary step out 2
SP1-P1	SP1 primary step out 1
SP2-HSA	BRIRSB0055 01
SP2-TW1	Temp well point same as SP2-HSA
SP2-P1	SP2 primary step out 1
SP2-P4	SP2 primary step out 4

Scale: 1 square = _____

Rite in the Rain.

Location ID	Notes	5/2/24
SP2-P2	SP2 primary step out 2	
SP2-P3	SP2 primary step out 3	
SP3-HSA	13R1RSB007S01	
SP3-P4	SP3 primary step out 4	
SP3-P3	SP3 Primary step out 3	
SP3-P2	SP3 primary step out 2	
SP3-P1	SP3 Primary step out 1	
SP4-HSA	13RIRSB009S01	
SP4-P1	SP4 Primary step out 1	
SP4-P2	SP4 primary step out 2 Source well SP5-MW1	
SP4-P4	SP4 primary step out 4	
SP4-P3	SP4 primary step out 3	
SP5-S2	SP5 Secondary step out 2	
SP5-P2	SP5 Primary step out 2	
SP5-S1	SP5 secondary step out 1	
SP5-P1	SP5 Primary step out 1	
SP5-P3	SP5 Primary step out 3	
SP5-S4	SP5 Secondary step out 4	
SP5-S3	SP5 secondary step out 3	
SP5-P6	SP5 primary step out 6	
SP5-P5	SP5 primary step out 5	
SP5-P4	SP5 primary step out 4	
SP5-HSB	13RIRSB017S01	
SP5-HSA	13RIRSB001S01	
SW03	R1RZ4SW000SP5-1 Surface water sample	

Scale: 1 square =

Location ID	Notes	5/2/24
BKG 2	Background sample near SP5	
~~SP5-MW1~~	Source	DE 5/2
SP6-HSA	13RIRSB001S01	
SP6-HSB	13RIRSB001S01	
SP7-HSA	13RIRSB001S01	
SP7-HSB	13RIRSB001S01	
SP8-HSA	13RIRSB001S01	
SP9-HSA	13RIRSB001S01	
SP9-HSB	13RIRSB001S01	
SP9-HSC	13RIRSB014S01	
SP9-HSD	13RIRSB016S01	Source well location SP9-MW1
SP9-HSE	13RIRSB014S02	
SP9-HSF	13RIRSB020S01	
SP9-P4	Primary step out	
SP9-P3	Primary step out	
SP9-P2	Primary step out	
SP9-P1	primary step out	
SP9-S2	Secondary step out	
SP9-P6	primary step out	
SP9-S3	secondary step out	
SP9-P5	primary step out	
SP9-S4	secondary step out	
SP9-S1	secondary step out	
BKG 1	Background sample near SP9	
SP10-HSB	13RIRPT001S01	Source well SP10-MW1

Scale: 1 square =

Rite in the Rain

5/2/24

Location ID	Notes
SP10-IHSA	RIRPTO
SP5-MW2	Down gradient well SP5
SW02	Surface water sample near SP7
SW01	Surface water sample near SP9

Sample ID #	Time	QC	Sampler	# Jar	Notes
RIR24MW005	950		RM	2	taken before stable parameters due to slow recharge

location SP10-MW1

1400 Clean up flagging

1430 load Morse Marine ②
Ralston Island Beach

1510 Arrive @ Tee Harbor

1600 Sample management and demob. activities

1900 - EOD

Scale: 1 square = _____

Scale: 1 square = _____

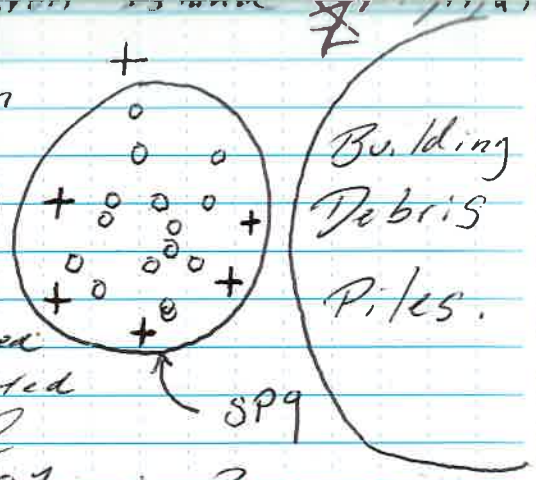
Rite in the Rain.

FAA Ralston Island 10/17/23
697DCK24-C-00040
Personel: RM, SD, CE, SI
Loc: Ralston Island, Juneau, AK
PPE: Level D (Mod. Risk)
0700: Crew arrives @ ABLK for Morning Safety Tailgate.
0720 MV/Marsa leaves for Ralston Island.
0840 Crew disembarks from MV/Marsa to begin walking to project location. SI sets up GPS RTK base on site control.
915 RM, SD, CE arrive on site to begin sampling activities.
935 SI arrives to the project site to release former soil boring locations. RM + SD plot out proposed soil boring locations to collect Data Gap samples.

Scale: 1 square = _____

Rite in the Rain

0758: Begin Soil Sampling



1000 Advanced & Collected Sample SP9-DG01

Sample IDs
RIR245519SP902
RIR245519SP9029

+ - Prop. Data Gap Loc.
o - Former SB Locations.

1030 Advanced + Collected SP9-DG02. Sample ID RIR245520SP902

1100 Advanced + Collected SP9-DG03. Sample ID RIR245521SP903

1130 Advanced + Collected SP9-DG04, Sample ID RIR245522SP903

Scale: 1 square = _____

FAA Ralston Island 10/17/24

1200 Advanced + Collected.
SP9-DG05, Sample ID.
RIR2455223599G3.5.

1230 Advanced + Collected
SP9-DG06, Sample ID.
RIR2455224SP9G4.5

1300 Advanced + Collected.
Background samples BKG1
Sample ID, RIR2455225BKG02

1302 This sample was taken
NW of SP9.
Sample ID, RIR2455226BKG04.5

~~1332~~ 1330 Advanced + Collected
Background Sample BKG2
associated w/ SP5.
Sample ID
RIR2455227BKG01.5 MS/MSD
1332 RIR2455228BKG03.5

Note: All soil samples were collected w/ Soil Auger.

Scale: 1 square = _____

Rite in the Rain

FAA Robison Is. 10/17/24

1415 Field team finishes up sample collection task in addition to taking Survey Measurements of the soil sample location.

1452 Field team boards MV/ Morsa to return to Juneau Boat Harbor.

1605 Crew arrives @ Juneau Small boat harbor. RM heads to lodging to conduct Sample management + cooler packing.

1800 All field activities completed for the day.

← EOD →

RM.

HEALTH AND SAFETY FORMS

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Daily Tailgate Safety Meeting

Site Location:

Work to be performed: Mobilization and site setup.

Topics / Hazards Discussed: Lifting, uneven terrain, pinch points, devils club, PPE level D.

HSE Hazard Identification/Considerations

Potential Hazards	Hazard Mitigation		Comments
☐ Travel to and from site	☐ Load secured		
	☐ Vehicle in good working condition		
☐ Slips, trips & falls	☐ Hazard areas acknowledged		
☐ Adverse weather conditions	☐ Proper clothing available		
☐ Noise	☐ Hearing protection		
☐ Power tools/hand tools	☐ Inspected & in good working condition		
☐	☐ Operator familiar with proper use		
☐ Vibration	☐ Anti-vibration gloves		
☐ Presence of heavy equipment	☐ Communication/eye contact w/ operator		
☐ Pinch Points	☐ Hand protection		
☐ Below ground utilities	☐ Utility location complete		
☐ Overhead hazards	☐ Power lines, loose items, pipelines, etc.		
☐ Site traffic	☐ Reflective and/or bright colored clothing		
☐ Electrical	☐ GFCI/Power shut-off switch or breaker		
☐ Hazardous materials	☐ Spill prevention measures in place		
☐	☐ MSDS readily available		
☐ Wildlife Interaction	☐ Right of way to wildlife/avoid interaction		
Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)			
☐	☐		
☐	☐		
☐	☐		

PPE (As necessary to reduce or eliminate hazards)

☐ Hard hats	☐ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☐ Safety glasses	☐ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☐ Hearing protection	☐ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☐ Spill kit	☐ Viable means of communication available	☐
☐ Fire extinguisher	☐ Eye Wash Kit	☐
☐ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company		
James Beckner	GTA	
Joshua Wenischek	Chilkat Surveying	
Anna Robinson	APL	

Daily Tailgate Safety Meeting

Site Location: Kalston Island

Work to be performed:

Site access, brush clearing, drilling, sampling

Topics / Hazards Discussed:

HSE Hazard Identification/Considerations

Potential Hazards	Hazard Mitigation		Comments
☑ Travel to and from site	☐ Load secured		
	☐ Vehicle in good working condition		
☑ Slips, trips & falls	☐ Hazard areas acknowledged		
☑ Adverse weather conditions	☐ Proper clothing available		
☐ Noise	☐ Hearing protection		
☑ Power tools/hand tools	☐ Inspected & in good working condition		
☐	☐ Operator familiar with proper use		
☐ Vibration	☐ Anti-vibration gloves		
☐ Presence of heavy equipment	☐ Communication/eye contact w/ operator		
☐ Pinch Points	☐ Hand protection		
☐ Below ground utilities	☐ Utility location complete		
☐ Overhead hazards	☐ Power lines, loose items, pipelines, etc.		
☐ Site traffic	☐ Reflective and/or bright colored clothing		
☐ Electrical	☐ GFCI/Power shut-off switch or breaker		
☐ Hazardous materials	☐ Spill prevention measures in place		
	☐ MSDS readily available		
☐ Wildlife Interaction	☐ Right of way to wildlife/avoid interaction		
Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)			
☐	☐		
☐	☐		
☐	☐		

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☑ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☑ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☐ Viable means of communication available	☐
☐ Fire extinguisher	☐ Eye Wash Kit	☐
☐ First aid kit	☐	☐

Emergency gathering area: Morsa C'Board

Location of nearest medical facility: Hospital

Emergency contacts:

Police: Fire: Medical:

Other: See SSHP

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R. Melrose	APC
	APC
	GTA James Beckner
	MORSA MARINE CLAYTON ENTERPRISE

Daily Tailgate Safety Meeting

Site Location: Ralston Island

Work to be performed:
Site Access, Drilling, Sampling

Topics / Hazards Discussed:
STF, Uneven ground, working around HE.

HSE Hazard Identification/Considerations

Potential Hazards	Hazard Mitigation		Comments
☑ Travel to and from site	☐ Load secured		
☐	☑ Vehicle in good working condition		
☐ Slips, trips & falls	☑ Hazard areas acknowledged		
☐ Adverse weather conditions	☑ Proper clothing available		
☑ Noise	☑ Hearing protection		
☑ Power tools/hand tools	☑ Inspected & in good working condition		
☐	☑ Operator familiar with proper use		
☐ Vibration	☐ Anti-vibration gloves		
☑ Presence of heavy equipment	☑ Communication/eye contact w/ operator		
☑ Pinch Points	☑ Hand protection		
☐ Below ground utilities	☐ Utility location complete		
☐ Overhead hazards	☐ Power lines, loose items, pipelines, etc.		
☐ Site traffic	☐ Reflective and/or bright colored clothing		
☐ Electrical	☐ GFCI/Power shut-off switch or breaker		
☐ Hazardous materials	☐ Spill prevention measures in place		
☐	☐ MSDS readily available		
☐ Wildlife Interaction	☐ Right of way to wildlife/avoid interaction		
Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)			
☐	☐		
☐	☐		
☐	☐		

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☐ Hearing protection	☑ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☐ Viable means of communication available	☐
☑ Fire extinguisher	☐ Eye Wash Kit	☐
☑ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: SSHP Medical:

Other: See

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
Robert Melrose TACLES.	
[illegible] ARC	
Jody Dillon TACLES	
James Beckner GTA	
Major Contractor MM	

Daily Tailgate Safety Meeting

Site Location: Ralston Island

Work to be performed:
Site Access, Drilling, Sampling.

Topics / Hazards Discussed:
- Walking on Uneven terrain.
- Working around drill rig.

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☑	Travel to and from site	☐	Load secured		
		☑	Vehicle in good working condition		
☑	Slips, trips & falls	☑	Hazard areas acknowledged		
☑	Adverse weather conditions	☑	Proper clothing available		
☑	Noise	☑	Hearing protection		
☑	Power tools/hand tools	☑	Inspected & in good working condition		
☐		☑	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☑	Presence of heavy equipment	☑	Communication/eye contact w/ operator		
☑	Pinch Points	☑	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☑	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
☐		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other -- Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

PPE (As necessary to reduce or eliminate hazards)

☑	Hard hats	☑	Foot protection (i.e. steel toes,	☐	H2S monitor, PID, Multi-gas meter
☑	Safety glasses	☑	Hand (i.e anti-vibration, nitrile)	☐	Respirators or dust guard
☑	Hearing protection	☑	Flotation devices	☐	Fall protection
☑	Fire resistant clothing	☐	Slip Protection (ice grippers)	☐	Face Shields
☐	Other:	☐	Other:	☐	Other:

Other considerations

☐	Spill kit	☐	Viable means of communication available	☐	
☑	Fire extinguisher *	☑	Eye Wash Kit	☐	
☐	First aid kit	☐		☐	

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other: Sue SSHP

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R. Melosh TALCES	
ADL	
James Backner GSI	
Jody Dillon TALCES	
MORSE MARINE	

Daily Tailgate Safety Meeting

Site Location: FAA Kolston Is.

Work to be performed: Drilling, Sampling, drove / to and from Site

Topics / Hazards Discussed:
STF. Drill Rig ops. Weather + Marine Travel

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☑	Travel to and from site	☑	Load secured		
		☑	Vehicle in good working condition		
☑	Slips, trips & falls	☑	Hazard areas acknowledged		
☑	Adverse weather conditions	☐	Proper clothing available		
☑	Noise	☑	Hearing protection		
☑	Power tools/hand tools	☑	Inspected & in good working condition		
☐		☑	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☑	Presence of heavy equipment	☑	Communication/eye contact w/ operator		
☑	Pinch Points	☑	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

☐	☐		
☐	☐		
☐	☐		

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☑ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☐ Viable means of communication available	☐
☑ Fire extinguisher	☐ Eye Wash Kit	☐
☐ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other: See SSHP

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
[illegible] TALCES	
[illegible] ARC	
[illegible] GA James B.	
[illegible] TALCES	
[illegible] MOSS MARINE	

Daily Tailgate Safety Meeting

Site Location: Rabbit Island

Work to be performed:
Site Access, Drilling, Sampling, Well development.

Topics / Hazards Discussed:
~~Site~~ Proper lifting techniques. Switching to GW Develop.

HSE Hazard Identification/Considerations

Potential Hazards	Hazard Mitigation	Comments
☑ Travel to and from site	☐ Load secured	
	☐ Vehicle in good working condition	
☑ Slips, trips & falls	☐ Hazard areas acknowledged	
☐ Adverse weather conditions	☐ Proper clothing available	
☑ Noise	☐ Hearing protection	
☑ Power tools/hand tools	☐ Inspected & in good working condition	
☐	☐ Operator familiar with proper use	
☐ Vibration	☐ Anti-vibration gloves	
☑ Presence of heavy equipment	☐ Communication/eye contact w/ operator	
☑ Pinch Points	☐ Hand protection	
☐ Below ground utilities	☐ Utility location complete	
☐ Overhead hazards	☐ Power lines, loose items, pipelines, etc.	
☐ Site traffic	☐ Reflective and/or bright colored clothing	
☐ Electrical	☐ GFCI/Power shut-off switch or breaker	
☐ Hazardous materials	☐ Spill prevention measures in place	
☐	☐ MSDS readily available	
☐ Wildlife Interaction	☐ Right of way to wildlife/avoid interaction	

Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☑ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☑ Viable means of communication available	☐
☑ Fire extinguisher	☑ Eye Wash Kit	☐
☑ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other: See SSHP

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R Melrose TALCES.	
J Dillon TALCES	
James Beckner GTA	
Vernon Wetmore TAA	
Alina Robinson ARC	

Daily Tailgate Safety Meeting

Site Location: Ralston FS.

Work to be performed: Well install, site organization + Development

Topics / Hazards Discussed: STF, Drilling OPS, Site access

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☑	Travel to and from site	☐	Load secured		
		☑	Vehicle in good working condition		
☑	Slips, trips & falls	☑	Hazard areas acknowledged		
☑	Adverse weather conditions	☑	Proper clothing available		
☑	Noise	☑	Hearing protection		
☑	Power tools/hand tools	☑	Inspected & in good working condition		
☐		☑	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☑	Presence of heavy equipment	☑	Communication/eye contact w/ operator		
☑	Pinch Points	☑	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

PPE (As necessary to reduce or eliminate hazards)

☑	Hard hats	☑	Foot protection (i.e. steel toes,	☐	H2S monitor, PID, Multi-gas meter
☑	Safety glasses	☑	Hand (i.e anti-vibration, nitrile)	☐	Respirators or dust guard
☑	Hearing protection	☑	Flotation devices	☐	Fall protection
☑	Fire resistant clothing	☐	Slip Protection (ice grippers)	☐	Face Shields
☑	Other:	☐	Other:	☐	Other:

Other considerations

☑	Spill kit	☑	Viable means of communication available	☐	
☑	Fire extinguisher	☑	Eye Wash Kit	☐	
☑	First aid kit	☐		☐	

Emergency gathering area: Beach

Location of nearest medical facility:

Emergency contacts:

Police: Fire: SSHP Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
T. Melvese TALCES.	Jody Dillon TALCES
APC	
James Beckner GTA	
FAA	

Daily Tailgate Safety Meeting

4/28/24

Site Location: Kolston Island

Work to be performed: Rig Repair, Mud Development + Sampling. Site Access

Topics / Hazards Discussed:

Rig Repair
1. Containment
2. Overhead hazards.
3. Pinch Points.

Sampling
1. Lifting
2. Cutting.

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☑	Travel to and from site	☑	Load secured		
☐		☑	Vehicle in good working condition		
☑	Slips, trips & falls	☐	Hazard areas acknowledged		
☑	Adverse weather conditions	☐	Proper clothing available		
☑	Noise	☐	Hearing protection		
☑	Power tools/hand tools	☐	Inspected & in good working condition		
☐		☐	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☑	Presence of heavy equipment	☑	Communication/eye contact w/ operator		
☑	Pinch Points	☑	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
☐		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☑ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☑ Viable means of communication available	☐
☑ Fire extinguisher	☑ Eye Wash Kit	☐
☑ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: See SSHP Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R. McRose	TACCES.
James Bulkner	ARL GTA
	ARL GTA

Daily Tailgate Safety Meeting

4/29/24

Site Location: Ralston Ts.

Work to be performed: Rig repair, MW Develop. + Sampling, Site access

Topics / Hazards Discussed: Hydration, slow and steady, slips trips/falls, buddy system lifting and proper PPE/Tools for job.

HSE Hazard Identification/Considerations

	Potential Hazards	Hazard Mitigation		Comments
☑	Travel to and from site	☑ Load secured		
		☑ Vehicle in good working condition		
☑	Slips, trips & falls	☑ Hazard areas acknowledged		
☑	Adverse weather conditions	☑ Proper clothing available		
☑	Noise	☑ Hearing protection		
☑	Power tools/hand tools	☑ Inspected & in good working condition		
		☑ Operator familiar with proper use		
☐	Vibration	☐ Anti-vibration gloves		
☑	Presence of heavy equipment	☑ Communication/eye contact w/ operator		
☑	Pinch Points	☑ Hand protection		
☐	Below ground utilities	☐ Utility location complete		
☐	Overhead hazards	☐ Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐ Reflective and/or bright colored clothing		
☐	Electrical	☐ GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐ Spill prevention measures in place		
		☐ MSDS readily available		
☐	Wildlife Interaction	☐ Right of way to wildlife/avoid interaction		

Other -- Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

☐		☐		
☐		☐		
☐		☐		

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☑ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☑ Safety glasses	☑ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☑ Flotation devices	☐ Fall protection
☑ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☑ Spill kit	☑ Viable means of communication available	☐
☑ Fire extinguisher	☑ Eye Wash Kit	☐
☑ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: See SSHP Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R Melrose TALCES	
James Beckner GTA	
TALCES	
ARC	

Daily Tailgate Safety Meeting

4/30/24

Site Location: Kolstan ES.

Work to be performed: Demob. (Limited) GW Develop. + Sump. Clearing.

Topics / Hazards Discussed:

Chainsaw safety.

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☐	Travel to and from site	☐	Load secured		
		☐	Vehicle in good working condition		
☑	Slips, trips & falls	☑	Hazard areas acknowledged		
☐	Adverse weather conditions	☐	Proper clothing available		
☐	Noise	☐	Hearing protection		
☐	Power tools/hand tools	☐	Inspected & in good working condition		
☐		☐	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☑	Presence of heavy equipment	☑	Communication/eye contact w/ operator		
☑	Pinch Points	☐	Hand protection		
☑	Below ground utilities	☑	Utility location complete		
☑	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
☐		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other – Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

☐		☐			
☐		☐			
☐		☐			

PPE (As necessary to reduce or eliminate hazards)

☑	Hard hats	☑	Foot protection (i.e. steel toes,	☐	H2S monitor, PID, Multi-gas meter
☑	Safety glasses	☑	Hand (i.e anti-vibration, nitrile)	☐	Respirators or dust guard
☑	Hearing protection	☑	Flotation devices	☐	Fall protection
☑	Fire resistant clothing	☐	Slip Protection (ice grippers)	☐	Face Shields
☐	Other:	☐	Other:	☐	Other:

Other considerations

☑	Spill kit	☑	Viable means of communication available	☐	
☑	Fire extinguisher	☐	Eye Wash Kit	☐	
☑	First aid kit	☐		☐	

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: SEE SSHP Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R. Melrose TACLES.	002 TAICES
James Beckner ITM GSA	
Aaron Wetherbee ITM FAA	

APC

Daily Tailgate Safety Meeting

May 2, 2024

Site Location: Ralston Island

Work to be performed:
Surveying + MW Sampling Final Demob.; Site Access

Topics / Hazards Discussed:
STF, Disembarking + Embarking Vessel

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☑	Travel to and from site	☑	Load secured		
		☑	Vehicle in good working condition		
☑	Slips, trips & falls	☑	Hazard areas acknowledged		
☑	Adverse weather conditions	☑	Proper clothing available		
☑	Noise	☑	Hearing protection		
☑	Power tools/hand tools	☑	Inspected & in good working condition		
☐		☐	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☐	Presence of heavy equipment	☐	Communication/eye contact w/ operator		
☐	Pinch Points	☐	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		

Other -- Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)

PPE (As necessary to reduce or eliminate hazards)

☑ Hard hats	☐ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☐ Safety glasses	☐ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☑ Hearing protection	☐ Flotation devices	☐ Fall protection
☑ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☐ Spill kit	☐ Viable means of communication available	☐
☐ Fire extinguisher	☐ Eye Wash Kit	☐
☐ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other: Please See SSHP.

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	
R. McIrose	ACCES.
[illegible]	APC
[illegible]	MM
Aaron Westmore	FAA
Josh Ivanisevic	Ckt Surveying

Daily Tailgate Safety Meeting

Site Location:

Work to be performed:

Topics / Hazards Discussed:

HSE Hazard Identification/Considerations

	Potential Hazards		Hazard Mitigation		Comments
☐	Travel to and from site	☐	Load secured		
		☐	Vehicle in good working condition		
☐	Slips, trips & falls	☐	Hazard areas acknowledged		
☐	Adverse weather conditions	☐	Proper clothing available		
☐	Noise	☐	Hearing protection		
☐	Power tools/hand tools	☐	Inspected & in good working condition		
☐		☐	Operator familiar with proper use		
☐	Vibration	☐	Anti-vibration gloves		
☐	Presence of heavy equipment	☐	Communication/eye contact w/ operator		
☐	Pinch Points	☐	Hand protection		
☐	Below ground utilities	☐	Utility location complete		
☐	Overhead hazards	☐	Power lines, loose items, pipelines, etc.		
☐	Site traffic	☐	Reflective and/or bright colored clothing		
☐	Electrical	☐	GFCI/Power shut-off switch or breaker		
☐	Hazardous materials	☐	Spill prevention measures in place		
		☐	MSDS readily available		
☐	Wildlife Interaction	☐	Right of way to wildlife/avoid interaction		
	Other -- Perform site walk and talk through activities to recognize other hazards(Use comment section if necessary)				
☐		☐			
☐		☐			
☐		☐			

PPE (As necessary to reduce or eliminate hazards)

☐ Hard hats	☐ Foot protection (i.e. steel toes,	☐ H2S monitor, PID, Multi-gas meter
☐ Safety glasses	☐ Hand (i.e anti-vibration, nitrile)	☐ Respirators or dust guard
☐ Hearing protection	☐ Flotation devices	☐ Fall protection
☐ Fire resistant clothing	☐ Slip Protection (ice grippers)	☐ Face Shields
☐ Other:	☐ Other:	☐ Other:

Other considerations

☐ Spill kit	☐ Viable means of communication available	☐
☐ Fire extinguisher	☐ Eye Wash Kit	☐
☐ First aid kit	☐	☐

Emergency gathering area:

Location of nearest medical facility:

Emergency contacts:

Police: Fire: Medical:

Other:

Comments or special considerations:

I understand the HSE hazards of this job and agree to work safe and work smart.

Print name/company	

SOIL BORING LOGS

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04502

Project Name:	Ralston Island RI	Boring Location ID:	SP1 - HSA
Project Number:	1697 DCR 24-C-00440		
Date:	4/25/24		
Logged By:	HRM	Boring Start Time: Boring	1420
Company:	APC	Completion Time: Total	1422
Driller:	JDS	Depth:	5.
Company:	Geotech	0-5	4.1' Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1 5.0		Dark Brown, Debris, Organic Silt PT
1-2 10.0		Silt, Dense, Plzty aggragate
2-4.1 15.0		pulverized bedrock/ Fractured bedrock light gray no moisture
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS1935P101500		0-1	0-1	45.9

19501

Project Name:	Ralston Island R1	Boring Location ID:	SP1 - HSB
Project Number:	497 DCR 24-c wo#40		
Date:	4/25/24		
Logged By:	AR/AM	Boring Start Time: Boring	1430
Company:	APL	Completion Time: Total	1434
Driller:	JB	Depth: 0-5	5'
Company:	Geotech		Recovery: 2.4

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.2		Debris, Dark Brown, organic Silt
5.0		PT
0.2-0.8		Silt w/ few gravels
10.0		OL
0.8-2.4		Fractured / Pulverized Bedrock medium to light Grey slight moisture @ 1.8 ft.
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24551945P10.5	1510	0.2-0.8	0.2-0.8	60.4

003501

Project Name:	Ralston Island #1	Boring Location ID:	SP1 – HSC
Project Number:	697 Dtk 24-c-00040		
Date:	4/25/24		
Logged By:	ARkm	Boring Start Time: Boring	1440
Company:	APC	Completion Time: Total	1445
Driller:	JB	Depth: 0-5	5'
Company:	Geotech	Recovery: 3.5	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.1 (5.0)		Debris, Dark Brown organic silt OL
1.1-2.7 (10.0)		Sandy silt w/gravel some moisture @ 2.5-2.6 ~~GM~~ GM
2.7-3.5 (15.0)		Fractured/Pulverized Bedrock medium Gray
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R3455	1545 SP101	1530 0-1.1	0-1.1	71

004501

Project Name:	Ralston Island RI	Boring Location ID:	SP1-HSD
Project Number:	697 DCR 24-xxxx-10		
Date:	4/25/24		
Logged By:	AR/RM	Boring Start Time: Boring	
Company:	APC	Completion Time: Total	
Driller:	JB	Depth: 0-5'	
Company:	Geotech	Recovery: 2ft	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.2 5.0		Debris, Organic Silt OL
0.2-1.2 10.0		Silty Sand w/ gravel GM
1.2-2 15.0		Silty Sand w/ gravel, moist Viscous 0.6-2
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS1906SP1D2		1.2-2	1.2-2	67

Project Name:	Ralston Island RI	Boring Location ID:	SP1 P1
Project Number:	697DCK-24-C-00040		
Date:	4/22/24		
Logged By:	JD, AR	Boring Start Time: Boring	~~1250~~ 1308 AR 4/22
Company:	ARC	Completion Time: Total Depth:	1310 4.5 ft
Driller:	JB		
Company:	Geotech		~~2.3~~ 2.8 ft core recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes	
0.0-0.7' ~~5.0~~	∅	-Brown/DK, moist, wood debris -PT	
0.7'-1.4' ~~10.0~~	∅	-DK Brown, moist -silt w/fractured bedrock, OL	
1.4'-~~2.7~~ 1.8' (VO) 15.0	∅	-Brown, moist/saturated (1.6'-1.8') -silty-sand w/ fractured bedrock, OL	Sample taken
1.8'-2.8' 20.0	∅	-Grey, dry -pulverized bedrock	
25.0			
30.0			
35.0			
40.0			

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
~~RIR24SS101SP1.5~~	1330	1.4-1.8	1.4-1.8	3.9 ppm
RIR24SS101SP1.5				

1

Project Name:	Dalston Isbad RI	Boring Location ID:	SP1 PZ
Project Number:	697 DAR-24-[illegible]40		
Date:	4/22/24		
Logged By:	AR, JP, RM	Boring Start Time: Boring	1327
Company:	AB(	Completion Time: Total	1328
Driller:	JB	Depth:	4 ft
Company:	Geotech		~~2.5ft~~ 4/4/24 2.7ft recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0 – 0.4 ~~5.0~~	0	organic, debris, very loose, medium Brown no odor PT,
0.4 – 0.7 ~~10.0~~	0	very dark organic silt, moist no odor OL
0.7 – 1.5 ~~15.0~~	0	silt w/ angular gravel, brown, no odor GM
1.5 – 2.0 20.0	0	Same as above w/ fractured bedrock from 1.8–2.0, wet GM
2.0 – 2.7 ~~25.0~~	0	gray pulverized bedrock
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS102SP102	1351	2.0	2.0	1.6

Project Name:	Ralston Island RI	Boring Location ID:	SP1 P3
Project Number:	#97 DPK-24-C-00040		
Date:	4/22/24		
Logged By:	JD, AR	Boring Start Time: Boring	1347
Company:	Arc	Completion Time: Total	1345
Driller:	JB	Depth:	5 ft
Company:	Geotech		3.7 ft Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0 - ~~5.0~~ 4.0	0	Organic Debris, organic silt, Dark Brown OL
1.0-2.4 10.0	0	Silt w/ angular gravel, Brown ~~OL~~ GM
2.4-3.4 15.0	0	Same As above w/ fractured bedrock from 2.8-3.4, wet
3.4-3.7 20.0	0	Pulverized bed Rock
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS103SP103	1410	~~3-5~~ 2.4-3.4	2.4-3.4 ~~3~~	10

Project Name:	Ralston Island RI	Boring Location ID:	SP1 P4
Project Number:	697 DCK.24-C-00042		
Date:	4/22/24		
Logged By:	AR, JD, RM	Boring Start Time: Boring	1351
Company:	APC	Completion Time: Total	1352
Driller:	JB	Depth:	7 ft
Company:	Geotech		

0-5' Recovery 2.3' 3.7' recovery
5-7 R. 2.3-3.2'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.9' 5.0	0	0-.3 Organic Debris, dark BWN Silt. tight. OL No Odor
0.9-1.3 10.0	0	Gravel w/ Fines, Dark Grey. GM No Odor
1.3-1.8 15.0	0	Gravel w/ Fines some sand, Dark Grey GP No Odor
1.8 -2.8 20.0	0	Same as above, saturated GM.
2.8 -3.7 25.0	0	Pulverized Bed rock
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS104SP102	1427	1.8-2.8	1.8-2.8	11.1

005501

Project Name:	Ralston LS/2nd RI	Boring Location ID:	SP2 - HSA
Project Number:	697 PCE 24-C-0010		
Date:	4/25/24		
Logged By:	AR/RM	Boring Start Time: Boring	1412
Company:	APC	Completion Time: Total	1415
Driller:	JB	Depth: 05:	5'
Company:	Geotech		Recovery = 2.5

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.3 5.0		Debris, Organic Silt, Dark Brown PT 0.3
0.3-1 10.0		Silty Sand w/gravel GM
1-1.7 15.0		Medium brown, silty gravel, Coarse Sand, moist
1.7-2.5 20.0		Pulverized/Fractured Bedrock
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS192SP21.5	1456	0~~.3~~	0.3-3.1	57.4

Project Name:	Ralston Island RT	Boring Location ID:	SP2 P1
Project Number:	697 DCK-24-C-00040		
Date:	4/22/24		
Logged By:	JD, AR, RM	Boring Start Time: Boring	1455
Company:	RPC	Completion Time: Total	1457
Driller:	JB	Depth:	5
Company:	Geotech		

Recovery: 3.2

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.4	0	organic Debris, Dark Brown silt
5.0		OL
1.4-1.3	0	Poorly gravel w/ fines no odor
10.0		GM
1.3-2.8		Saturation at 2.3-2.8 Sandy gravel w/ fines
15.0		GM
2.8-3.2		Pulverized bedrock
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples					PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)			Depth Interval	Reading
RIR24SS106SP2021512		MS/MSD	1.3-2.8		1.3-2.8	2.0
RIR24SS106SP2024513		DUP	1.3-2.8			

Project Name:	Ralston Island RI	Boring Location ID:	SP2
Project Number:	697 DCR-24-C-00040		
Date:	4/22/24		
Logged By:	AP, JD, RM	Boring Start Time: Boring	1610
Company:	APC	Completion Time: Total	1613
Driller:	JB	Depth:	4.5 ft
Company:	GeoTech		

Recovery : 1.9`

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.8 (5.0)	0	Organic Debris, Dark Brown silt OL
0.8-1.2 (10.0)	0	Silty sand SM
1.2-1.9 (15.0)	0	Silty Gravel, Dark Gray, wet 1.3-1.6 GM
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RI24551 09 SP2 1.5	1627	1.2-1.9	~~0.8~~ 1.2-1.9	7

8

Project Name:	Rolston Island RI	Boring Location ID:	SP2 P3
Project Number:	697 PCK-24-C-600410		
Date:	4/22/24		
Logged By:	JD AR	Boring Start Time: Boring	1430
Company:	ARC	Completion Time: Total Depth:	1433
Driller:	JB		5 ft
Company:	Geotech		Recovery: 2.7'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.8 5.0	0	organic Debris, Dark Brown Silt OL
0.8-1.4 10.0	0	organic silt w/ angular & platy gravels Dark grey GM
1.4-2.1 15.0	0	gravel large, w/ fines, saturated
2.1-2.7 20.0	0	Pulverized bedrock
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ4SS10SP202	1454	1.4-2.1	1.4-2.1	2.9

Project Name:	Rolston Island RI	Boring Location ID:	SP2 P4
Project Number:	497 DCR-24-C-00040		
Date:	4/22/24		
Logged By:	JD, AR	Boring Start Time: Boring	1415
Company:	ARC	Completion Time: Total Depth:	1417
Driller:	JB		7 ft
Company:	Geotech	Recovery: 4.2 ft	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.2 5.0	0	Organic peats. Dark Brown silt Heater OL
1.2-1.9 10.0	0	Angular and Platy gravels, wet, Dark Brown GM
1.9-2.3 15.0	0	Pulverized bedrock light gray
2.3-2.6 20.0	0	Dark Brown, silt, Hydrogen Sulfide odor OL
2.6-3.6 25.0	0	gray, gravel w/ fines, saturated GM
3.6-4.2 30.0	0	Pulverized BedRock
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
R1R24SS105SP21.5	1.5	1440	1.2-1.9	1.2-1.9	3.8
R1R24SS106SP20.5	3	1442	2.6-3.6	2.6-3.6	10.6

Project Name:	Ralston Island RI	Boring Location ID:	SP3- HSA
Project Number:	697 DCK 24-C-00042		
Date:	4/24/24		
Logged By:	AR/JD	Boring Start Time: Boring	1200
Company:	APC	Completion Time: Total	1210
Driller:	JB	Depth: 0-5=2.2	6'
Company:	Geotech	Broken core 5-6=1.0	3.2' Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.6		Organic silt, Dark Brown, Debris
5.0		PT
0.6-2.2		Silty sand with large gravels moist
10.0		SM 1.1-1.6 wet/semi viscous 2-2.2 is saturated
2.2-2.4		large pulverized Rock
15.0		
2.4-3.2		Dense silt & fractured bedrock
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R2455162SP31.5	1446	0.6-2.2	0.6-2.2	8.5
R1R2455163SP303	1442	2.4-3.2	2.4-3.2	6.1

Project Name:	Ralston Island R1	Boring Location ID:	SP3 - P1
Project Number:	697 DCR-24-C-00040		
Date:	4/23/24		
Logged By:	AR/~~BM~~	Boring Start Time: Boring	0905
Company:	KPC	Completion Time: Total Depth:	0907
Driller:	JB		5ft
Company:	Geotech		

Recovery: 2.5ft

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	~~Debris, organic silt~~ Lithology Notes
0-1 ~~5.0~~		Debris organic silt Dark Brown, moist GL
1-2.1 10.0		Silty sand and gravel w/ larger aggregate/rock saturated, Brown GM
2.1-2.5 15.0		Fractured/pulverized Bedrock
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS110SP31.5	0920	1-2.1	1-2.1	~~1~~ ~~ppb~~ ~~ppm~~ 0.7ppm

Project Name:	Rykton Island RI	Boring Location ID:	SP3 -PZ
Project Number:	Leg7 DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/JD	Boring Start Time: Boring	1024
Company:	ARC	Completion Time: Total Depth:	1027
Driller:	JB		7.5'
Company:	Geotech	0-5' = 1.5 5'-7.5' = 2.7	Recovery 4.2'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.3 5.0		Debris, organic silt, Dark Brown OL
0.3-0.6 10.0		rock
0.6-1.5 15.0		Silty gravel w/ Sand Medium Brown moist GM
1.5-2.5 20.0		Silty gravel w/ Sand Medium Brown Saturated GM
2.5-4 25.0		Angular gravel & Coarse Sand GM
4-4.2 30.0		Pulverized/ bedrock fractured
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS115SP301	1036	0.6-1.5		0.6-1.5	9
RIR24SS115SP3019	1037	Dup			
RIR24SS116SP302	1050	1.5-2.5		1.5-2.5	11.4

Project Name:	Rialto Island P1	Boring Location ID:	SP4-P1
Project Number:	247DCK-24-C-00040		
Date:	4/23/2024		
Logged By:	AR/JP	Boring Start Time: Boring	1300
Company:	ADC	Completion Time: Total	1308
Driller:	JB	Depth:	14.5'
Company:	Geo Tech	0-5 = 1.8	Recovery 9.1
		5-10 = 3.3	
		10-14.5 = 4.0	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.8 5.0		Debris, Organic silt, Dark Brown Saturated @ 1-1.8 ~~OL~~ PT
1.8-2 10.0		Same as above
2-3.3 15.0		Saturated Organic Silt w/ sand and gravel Dark Brown OL
3.3-5.1 20.0		organic silt w/ sand and gravel GM
5.1-7.4 25.0		Saturated, well graded, Coarse sand & large gravels GW
7.4-9.0 30.0		Tight, limiting factor, Sandy gravel Dark gray Silty SM
9.0-9.1 35.0		Pulverized Bedrock
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS123SP41.5	1322	0-1.8	0-1.8	10
RIR24SS124SP44.5	1330	3.3-5.1	3.3-5.1	4.9
RIR24SS125SP4106	1340	5.1-7.4	5.1-7.4	6.5

Project Name:	Ralston Island RI	Boring Location ID:	SP3 - P3
Project Number:	697DCK24-C-00040		
Date:	4/23/24		
Logged By:	AR/JD	Boring Start Time: Boring	920
Company:	APC	Completion Time: Total	925
Driller:	JB	Depth:	10 ft
Company:	Geotech	0-5 = 1.5	6.2 recovery
		5-10 = 4.7	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.8		Debris, organic silt, Dark Brown, moist
5.0		OL
0.8-1.3		Pulverized large aggregate/Large Rock (road bed?)
10.0		gray
1.3-2.4		Silty sand w/ gravel, Dark Brown
15.0		SM
2.4-2.8		Silty sand w/ gravel, gray, moist
20.0		GM
2.8-5.8		Pulverized Bedrock
25.0		
5.8-6.2		gray clay, w/ sand
30.0		CL
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ455113SP31.5	945	1.3-2.4	1.3-2.4	9.9
RIRZ455114SP32.5	954	2.4-2.8	2.4-2.8	2.8

Project Name:	Ralston Island RI	Boring Location ID:	SP3-P4
Project Number:	697DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/JD	Boring Start Time:	915
Company:	APC	Completion Time: Total Depth:	418
Driller:	JB		7.5
Company:	Geotech	0-5 = 1.7 5-7.5 = 2.0	Recovery: 3.7'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1		Debris, organic silt, Dark Brown OL
1-1.7		Sandy Silt w/ gravel Dark Brown Saturated No odor GM
1.7-3.6		Sandy Gravel, Dark Gray, Silty SM
3.6-3.7		Pulverized BedRock ~~SM~~ AR 4/23
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ4SS111SP31.5	929	1-1.7	1-1.7	6.4
RIRZ4SS1125P303	934	1.7-3.6	1.7-3.6	9.9

Project Name:	Ralston Island R1	Boring Location ID:	SP4 - HSA
Project Number:	097 DCR 2.4-C-60040		
Date:	4/24/24		
Logged By:	ARISD	Boring Start Time: Boring	1130
Company:	APC	Completion Time: Total	1141
Driller:	JB	Depth: 0-5 = 2.2	15'
Company:	Geotech	5-10 = 4.2 10-15 = 4.5	Recovery: 10.9'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.2 5.0		Organic Silt, Dark Brown, Debris PT
2.2-3.3 10.0		Same as above
3.3-4.4 15.0		organic silty Sand with gravel, Saturated SM dark Brown
4.4-6.4 20.0		Medium Grey, Silty Sand, saturated Somewhat loose SM
6.4-7.6 25.0		Coarse Sand lower percentage of fines *loose SM
7.6-7.5 30.0		limiting factor Silty Sand w/ gravel higher % silt CL tight
7.5-10.9 35.0		Same as above w/ fractured bedrock and pulverized bedrock Moist
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS154SP402	1415	0-2.2	0-2.2	9.5
RIR24SS160SP43.5	1417	3.3-4.4	3.3-4.4	9.9
RIR24SS161SP407	1419	6.4-7.6	6.4-7.6	8.8

Project Name:	Ralston Island RI	Boring Location ID:	SP4 - PZ
Project Number:	6017. DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/SD	Boring Start Time: Boring	1320
Company:	APC	Completion Time: Total	1328
Driller:	JB	Depth:	14.5'
Company:	Geotech	0-5 = 1.3	
		5-10 = 3.4	
		10-14.5 = 4.2	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.3		Debris (woody) organic silt, Brown
5.0		PT
1.3-2.8		Organic soils, medium Brown, saturated HS odor
10.0		PT
2.8-3.8		Silty sand w/ gravels, gray/Brown moist
15.0		GM
3.8-4.6		Same as above medium gray
20.0		
4.6-6.6		Same as above
25.0		
6.6-8.7		Same as above w/ fractured bedrock higher percentage of fines
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR2455126SP41.3	1358	0-1.3		0-1.3	5.8
RIR2455127SP403	1410	2.8-3.8		2.8-3.8	6.9
RIR2455127SP4039	1411	"	"	"	" "
RIR2455128SP4 5.5	1424	4.6-6.6		4.6-6.6	4.7

Project Name:	Ralston Island RI	Boring Location ID:	SP4-P3
Project Number:	697DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/SP	Boring Start Time: Boring	1200
Company:	ARC	Completion Time: Total	1204
Driller:	JB	Depth: 0-5: ~~0.2~~	
Company:	GeoTech	5-10: 3.6	Recovery 7.4
		10-15: ~~7.4~~ 1.8	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2 5.0		Debris, organic silt Dark Brown OL
2-3.2 10.0		same as above, saturated
3.2-4.6 15.0		gray silty sand w/ gravel
4.6-5.7 20.0		well graded gravels and course sands moist GW
5.7-5.9 25.0		Rock, saturated w/ silt
5.9-7.4 30.0		Angular gravel and course sand w/ fines dry GM
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS120SP402	1229		0-2	0-2	8.6
RIR24SS121SP404	1236		3.2-4.6	3.2-4.6	3.7
RIR24SS122SP405	1245		~~5.7-7.4~~ 4.6-5.7	4.6-5.7	3.1

Project Name:	Ralston Island RI	Boring Location ID:	SP4 - P4
Project Number:	697DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/JD	Boring Start Time: Boring	1130
Company:	APC	Completion Time: Total	1137
Driller:	JB	Depth:	
Company:	Geotech	0-5 = 2.4 5-10 = 3.8 10-15 = 5.00	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.4 5.0		Debris (wood) throughout horizon Dark Brown organic silt HS odor OL
2.4-3.8 10.0		Organic Silt w/ debris Dark Brown OL HS odor Saturated
3.8-6.2 15.0		gray gravel w/ sand & fines Saturated GM
6.2-7.6 20.0		Same as above Saturated
7.6-9.0 25.0		Platy, Rock, Sand (coarse) w/ gravels, gray GM
9.0-11.2 30.0		Tight Silty Clay, limiting factor, gray CL
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ4SS117SP402	1142	0-2.4	0-2.4	4
RIRZ4SS118SP406	1152	3.8-6.2	3.8-6.2	8.1
RIRZ4SS119SP408.5	1207	7.6-9	7.6-9	6.4

018501

Project Name:	Rzlstan Island R1	Boring Location ID:	SP5 - HSA
Project Number:	697 DCK 24 - C - 00040		
Date:	4/25/24		
Logged By:	MR/SD	Boring Start Time: Boring	1340
Company:	APC	Completion Time: Total	1350
Driller:	JB	Depth: 0-5 = 2.3	10'
Company:	Geotech	5-10 4.0	6.3 - recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.3 5.0		Dark Brown, Organic Silt, debris, (wood) PT
2.3-3.7 10.0		Dark Brown, organic silt, Saturated PT
3.7-4.5 15.0		Dark Brown silty Sand, Moist SM
4.5-5.7 20.0		Dark gray silty Sands w/ gravels moist GM
5.7-6.3 25.0		Medium gray, Saturated silty sands with larger gravels GM
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SSSP5180101.5	1430	0-2.3	0-2.3	60.9
RIR24SSSP518004	1432	3.7-4.5	3.7-4.5	49.8

017501

Project Name:	Bristol Island R1	Boring Location ID:	SPS-HSB
Project Number:	697 DCL ZY-2-050040		
Date:	4/25/24		
Logged By:	AR/RM	Boring Start Time: Boring	1400
Company:	APC	Completion Time: Total	1410
Driller:	SB	Depth: 0-5=2.0	
Company:	GeoTech		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2 (5.0)		Dark Brown, organic Silt Some debris 0-2 PT
2-2.6 (10.0)		Same as above
2.6-4 (15.0)		Silty Sand w/ gravel 1st 2" of interval is loose * GM
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R24SS191SPS1.5	1440	0-2	0-2	36.9
R1R24SS191SPS3.5	1442	2.6-4	2.6-4	40.2

Project Name:	Ralston Island R1	Boring Location ID:	SPS = P11
Project Number:	697 DCK-24-C-0040		
Date:	4/23/24		
Logged By:		Boring Start Time: Boring	1420
Company:		Completion Time: Total Depth:	1544
Driller:		0-5 = 2.1	Recovery 10'
Company:		5-10 = 3.2 10-15 = 4.7	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.1 5.0		Organic Debris, Dark Brown silt moist PT
2.1-2.7 10.0		Same as above
2.7-3.9 15.0		Sand with gravel & Silt Dark Gray moist GM
3.9-5.3 20.0		Same as above medium Gray Saturated.
5.3-6.9 25.0		Same as above w/ well graded gravel
6.9-7.8 30.0		Silty Sand w/ large gravels, limiting Factor GM
7.8-10 35.0		pulverized Fractured Bedrock light gray
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS129SP502	1442	0-2.1	0-2.1	4.7
RIR24SS130SP54.5	1450	3.9-5.3	3.9-5.3	4.3
RIR24SS131SP55.5	1524	5.3-6.9	5.3-6.9	4.2
RIR24SS131SP55.59	1525			

Project Name:	Ralston Island RI	Boring Location ID:	SP5-P2
Project Number:	097 DCK-24-C-00040		
Date:	4/23/24		
Logged By:	AR/SD	Boring Start Time:	1530
Company:	~~PBPC~~	Boring Completion Time:	1540
Driller:	JB	Total Depth: 0-5 = 2.4	14.5'
Company:	Geotech	5-10 = 5	
		10-14.5 =	11.1'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.4 5.0		Debris, Organic Silts, Dark brown PT Fuel odor @ 2'
2.4-4.4 10.0		Same as above Saturated Sheen @ 3' Fuel odor
4.4-5.4 15.0		Silty sand w/ gravel, Saturated less organics fuel odor
5.4-7.6 20.0		Sandy Silt, Angular gravels saturated
7.6-8.4 25.0		well graded gravel w/ coarse sand little to ~~trace~~ fines SW Dark Gray
8.4-11.1 30.0		Silty Sand w/ gravel light to medium gray moist- Saturated
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R2455132SP502	1543	0-2.4	0-2.4	8.9
R1R2455133SP505	1554	4.4-5.4	4.4-5.4	5.8
R1R2455134SP59.5	1608	8.4-11.1	8.4-11.1	4.9

Project Name:	Ralston Island RI	Boring Location ID:	SPS - P3
Project Number:	697 DCR-24-C-00040		
Date:	4/23/24		
Logged By:	AP/SD	Boring Start Time:	1545
Company:	APC	Boring Completion Time:	1600
Driller:	JB	Total Depth:	11.5
Company:	Geotech		

0-5 = 2.5
5-10 = 4.5
10-11.5 = 3.5 10.5

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.5 5.0		Organic silt Debris medium Brown PT
2.5-4.5 10.0		Same as above Saturated faint fuel odor
4.5-5.2 15.0		Silty Sand, moist, Dark Brown GM faint fuel odor
5.2-6.5 20.0		Silty Sand, very few gravel light GC/GM to medium gray, saturated
6.5-8.8 25.0		Organic silt Dark Brow Saturated PT HS odor
8.8-9 30.0		Silty Sand w/ gravel Dark gray GM
9-10.5 35.0		Fractured/Pulverized Bedrock
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24551355PS02	1610	0-2.5	0-2.5	3.7
RIR24551345PS05 w/Dup	1620/1621	4.5-5.2	4.5-5.2	5
RIR24551375PS09		8.8-9	8.8-9	3.5

Project Name:	Ralston Island RI	Boring Location ID:	SP5 - P4
Project Number:	697 DCK-24-C-00040		
Date:	4/24/24		
Logged By:	AR/JD	Boring Start Time:	0915
Company:	APC	Boring Completion Time:	0918
Driller:	JB	Total Depth:	15'
Company:	Geotech	0-5 = 2.5 5-10: 3.0 10-15: 4.3	Recovery: 9.8'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.5 5.0		Organic Silt, Dark Brown, w/ some Rock @ 0.4 PT
2.5-4.5 10.0		Same as above
4.5-5.5 15.0		Silty Sand w/ Rock Medium to light gray Saturated GM
5.5-7 20.0		Same as above
7-8 25.0		Same as above w/ fewer fines and moist
8-9.4 30.0		Silty Sand w/ gravel some Pulverized bedrock Medium gray GM / Fractured bedrock
9.4-9.8 35.0		Fractured/Pulverized Bedrock
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
R1R2455139SP502	932	0-2.5		0-2.5	2.9
R1R2455139SP504	934	4.5-5.5		2.5-4.5	4.7
R1R2455140SP57.5	936	7-8		7-8	7

20

Project Name:	Ralston Island RI	Boring Location ID:	SP5 ~~SP5~~
Project Number:	697 DCK-24-C-00046		
Date:	4/24/24		
Logged By:	AR/SP	Boring Start Time:	0940
Company:	APC	Completion Time: Total Depth:	0945
Driller:	JB		12'
Company:	Geotech	0-5 = 2.8 5-10 = 3.0 10-12 = 4.00	9.8'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-~~8~~ 2.8 5.0		organic Silt, dark Brown, debris PT
2.8-4.8 10.0		Same as above
4.8-5.8 15.0		Silty Sand, Saturated, medium gray SM
5.8-7.4 20.0		organic Silt, Dark Brown, Saturated OL
7.4-7.9 25.0		Silty Sand, medium brown SM
7.9-9.8 30.0		Fractured Bedrock w/ sandy silt dry
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS144SP5 0 2	1040	0-2.8	0-2.8	9.1
RIR24SS145SP5 4.5	1042	2.8-4.8	2.8-4.8	6.9
RIR24SS146SP5 07	1044	5.8-7.4	5.8-7.4	6.8

Project Name:	Ralston Island RI	Boring Location ID:	SPS - P6
Project Number:	697 PCK-24-C-00040		
Date:	4/24/2024		
Logged By:	AB / JD	Boring Start Time: Boring	0921
Company:	APL	Completion Time: Total	0927
Driller:	JB	Depth:	12.5'
Company:	Geotech	0-5=2 5-10=3.6 10-12.5=4.8	Recovery 10.6

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2 (5.0)		organic silt, Dark Brown PT
2-3.3 (10.0)		Same as above moist
3.3-5.6 (15.0)		Silty sand, medium gray, some gravels Saturated SM
5.6-6.9 (20.0)		Core sand, few gravels, loose SM
6.9-10.5 (25.0)		Silty Sand W/ gravels, higher % of fines tight, medium gray, moist SM
10.5-10.6 (30.0)		Pulverized Bedrock
(35.0)		
(40.0)		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS141SPS02	1006	0-2		0-2	1.0
RIR24SS142SPS3.5	1008	3.3-5.6		3.3-5.6	3.9
RIR24SS143SPS06	1010	5.6-6.9		5.6-6.9	5.7

Project Name:	Ralston Island RI	Boring Location ID:	SP5 - S1
Project Number:	697 DCK-24-C-00040		
Date:	4/24/24		
Logged By:	AJD	Boring Start Time: Boring	1000
Company:	APC	Completion Time: Total	1008
Driller:	JB	Depth: 0-5=2.5	15'
Company:	Geotech	5-10=3.6	
		10-15=5.0	Recovery = 11.1

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.5 5.0		Dark Brown, organic Silt, Debris PT
2.5-4 10.0		Same as above moist
4-5 15.0		Silty Sand w/ gravels, moist SM
5-6.1 20.0		Silty Sand w/large gravels, saturated medium gray SM
6.1-7.2 25.0		Silty Sand w/large gravels, fewer fines loose
7.2-11.1 30.0		Sandy Silt, moist from 7.2-7.6 followed by 1' of dry. 9.6-11.1 moist limiting factor
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ4SS147SP502	1100	0-2.5	0-2.5	11.6
RIRZ4SS148SP54.5 DUP	1102	4-5	4-5	5.9
RIRZ4SS149SP56.5	1104	6.1-7.2	6.1-7.2	5.6

Project Name:	Ralston Island R1	Boring Location ID:	SP5 - S2
Project Number:	1097 DCR-24-C-0004/0		
Date:	4/24/24		
Logged By:	AC/JD	Boring Start Time: Boring	1020
Company:	ARC	Completion Time: Total	1028
Driller:	JB	Depth:	14.5
Company:	Geotech	0-5 = 6 5-10 = 4.2 10-14.5 = 4.7	9.5

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.6 5.0		Sandy silt dark Brown, some Rocks & Debris SM
0.6-2.5 10.0		organic silt, Dark Brown, Moist PT
2.5-4.8 15.0		Silty sand w/ gravel light to medium gray moist SM
4.8-5.8 20.0		Course sand with Gravels, fewer Percentage of fine * loose SM
5.8-6.8 25.0		Silty sand with gravels tight SM
6.8-9.5 30.0		limiting Factor: Dry dense silt, few sands & gravel
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS1505P50.5	1140	0-0.6	0-0.6	7.8
RIR24SS1515P502	1142	0.6-2.5	0.6-2.5	5.6
RIR24SS1525P505	1144	4.8-5.8	4.8-5.8	5.9

Project Name:	Ralston Island R1	Boring Location ID:	SPS - S3
Project Number:	647-DCR-24-C-00040		
Date:	4/24/24		
Logged By:	AR/JD	Boring Start Time: Boring	1035
Company:	APC	Completion Time: Total	1040
Driller:	JB	Depth: 0-5=2.3	14'
Company:	Geotech	5-10=2.7	
		10-14=3.0	8.0

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.3		Organic Silt, Dark Brown, Debris
5.0		PT
2.3-3.3		Same as above
10.0		
3.3-4.7		Silty Sand w/ gravel, Saturated, some Rock * loose
15.0		SM
4.7-5.8		Same as above * loose
20.0		
5.8-8.0		Medium gray Silt, some Sand, some gravel, very tight limiting factor
25.0		CL
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS153SPS02	1206	0-2.5		0-2.3	7.9
RIR24SS154SPS04	1208	3.3-4.7		3.3-4.7	6.4
RIR24SS155SPS05	1216	4.7-5.8		4.7-5.8	1.5

NO Samples

Project Name:	Ralston Island RI	Boring Location ID:	SB5 - Dawn grzd: ent well
Project Number:	697-DLR-24-0009		
Date:	4/27/24		
Logged By:	AR/RM	Boring Start Time: Boring	SB5-MW2
Company:	APL	Completion Time: Total	
Driller:	JB	Depth: 0-5 = 2.9	
Company:	Cozotech	5-10 = 2.3	5.2

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.9 5.0		Debris, Dark Brown, organic Silt PT
2.9-4.3 10.0		Silt w/ fine sand, horizon has partial recovery. SL
4.3-5.2 15.0		Sandy gravel, w/ few fines GM
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading

Project Name:	Ralston Island RI	Boring Location ID:	SPS - S4
Project Number:	647 DCK 24-L-00040		
Date:	4/24/24		
Logged By:	AR/SD	Boring Start Time: Boring	1100
Company:	APC	Completion Time: Total	1108
Driller:	SB	Depth:	14.5
Company:	Geotech	0-5 = 1.9 5-10 = 2.2 10-14.5 = 4.6	Recovery = 8.7

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.9 5.0		Organic Silt, Dark Brown, Debris PT
1.9-3.4 10.0		Same as above
3.4-4.1 15.0		Silty Sandy w/ gravels medium gray Saturated SM
4.1-5.6 20.0		Course sand & gravel, few fines *loose SM
5.6-6.6 25.0		limiting Factor Tight silty Sand higher fines, Rock medium gray CL
6.6-8.7 30.0		Dry Sandy silt w/ pulverized fractured Bed Rock
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24S515GSPS1.5	1236	0-1.9	0-1.9	5.7
RIR24S515TSPS03.5	1238	3.1-3.6	3.4-4.1	6.7
RIR24S515BSPS05	1240	4.1-5.6	4.1-5.6	4.5

MS/MSD-Dup

Project Name:	Ralston Island RI	Boring Location ID:	SP6 - HSA
Project Number:	697 DCK 24-6-60040		
Date:	4/24/24		
Logged By:	AR/SD	Boring Start Time: Boring	1415
Company:	ARC	Completion Time: Total	1420
Driller:	JB	Depth: 0-5 = 2.5	
Company:	Geotech	5-6 2.1	4.6

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0- 0.5 5.0		Organic Silt, Dark Brown, Debris PT
0.5-1 10.0		Viscous, Dark Brown, Organic silt w/ sand few gravels moist OL
1-2 15.0		Saturated, Platy angular gravels, organic silt with sand OL
2-2.5 20.0		Silty gravel w/ sand GM
2.5-3.5 25.0		saturated *loose Sandy gravel moderate % silt GM
3.5-4.6 30.0		possible limiting factor? tight and moist Silty Sand Dark grey w/ weathered bedrock
35.0		
40.0		

0-5 actual recovery is 2.1

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
R1R24SS165SP6 01	1525	0.5-1		0.5-1	6.1
R1R24SS165SP6 03	1527	2.5-3.5		2.5-3.5	8.9

Project Name:	Raxton Island RI	Boring Location ID:	SP6-HSB
Project Number:	697 DCR 24-L-0006/6		
Date:	4/24/24		
Logged By:	AR/JD	Boring Start Time: Boring	1535
Company:	ADC	Completion Time: Total	1545
Driller:	JB	Depth: 0-5 = 3.2	6'
Company:	Geotech	5-6 = 2.5	recovery 5.7'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.6 (5.0)		Debris, Dark Brown, organic silty sand, viscous moist/Saturated OL
1.6-1.9 (10.0)		pulverized Rock
1.9-3.2 (15.0)		Dry Silt, medium Gray CL
3.2-4 (20.0)		Coarse silty sand, some gravel, loose GM maybe slough from previous boring interval
4-5.7 (25.0)		gray silt w/ fractured bedrock 4.4-4.6 is large loose gravels
30.0		
35.0		
40.0		

~~Recovery~~ more recovery than Drive on 5-6'

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
DUP— RIR2455166SP615	1555	0-1.6		0-1.6	8.1
RIR2455167SP604	1557	4-5.7		4-5.7	8.1

Project Name:	Ralston Island RI	Boring Location ID:	SP7-HSA
Project Number:	697 DCK 24-C-0002/0		
Date:	4/24/24		
Logged By:	AR/SP	Boring Start Time: Boring	1545
Company:	APC	Completion Time: Total	1600
Driller:	JB	Depth: 0-5 = 0.2	8'
Company:	Geotech	5-8 = 5.0	
		recovery 5.2'	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.2 5.0		organic Debris Plug
0.2-3.2 10.0		silty Sand w/ few gravels and Rock light to medium Gray SM
3.2-3.8 15.0		Silty gravel * loose GM
3.8-5.2 20.0		limiting factor tight silty sand medium plasticity CL
25.0		New boring at SP7-HSA 4/25/24 0-5' taken in order to collect a representative sample
0-0.5 30.0		ORganic Silt, Dark Brown PT no odor
0.5-2.7 35.0		Sandy Silt, Dark Brown, moist/Saturated PT/OL
40.0		

0-5 recovery is actually only 0.2' - can not sample will sample 5-8'

recovery of 0-5' is 2.7'

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
DUP RIR24SS166SP73.5	1610	3.2-3.8	3.2-3.8	10.7
RIR24SS172SP702	953	0.5-2.7	0.5-2.7	7.6

4/25/24

Project Name:	Ralston Island RI	Boring Location ID:	SP7-HSB
Project Number:	697 DCK 24-C-00040		
Date:	4/24/24		
Logged By:	AR/SD	Boring Start Time: Boring	1610
Company:	APC	Completion Time: Total	1618
Driller:	SB	Depth: 0-5=2.3	6'
Company:	Geotech	5-6=1.5	3.8' recovered

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.6 5.0		Organic Silt, Dark Brown PT
0.6-1.8 10.0		Organic silty sand w/ gravel Dark Brown viscous OL?
1.8-2.3 15.0		Silty Sand, platy gravels Dry SM
2.3-2.8 20.0		Slough! medium Brown PT
2.8-3.6 25.0		Silty grave, * loose med Brown saturated GM
3.6-3.8 30.0		Silty gravel & Fractured bed Rock
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRZ4SS169SP71.5	1638	.6-1.8	.6-1.8	11.6
RIRZ4SS176SP73.5	1630	2.8-3.6	3.6-0	10

Project Name:	Rabbit Island R1	Boring Location ID:	SP8-HSA
Project Number:	697 DCK 24-C-00040		
Date:	4/24/24		
Logged By:	AR/JD	Boring Start Time: Boring	1620
Company:	AEC	Completion Time: Total	1625
Driller:	JD	Depth:	0-4.5
Company:	Geotech		4.5
			R 0-2.9

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.7 5.0		Organic Silt DK brown PT
0.7-1.8 10.0		Silty gravel w/sand viscus DK Brown GM
1.8-2.9 15.0		fractured bedrock w/ silt dry medium grey
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIRSS171SP8 1.5	1632	0.7-1.8	0.7-1.8	9.2

Project Name:	Balston Island RI	Boring Location ID:	SP9-HSA
Project Number:	697 DCK 24-C-00040		
Date:	4/25/26		
Logged By:	AR/JD	Boring Start Time: Boring	1020
Company:	ARC	Completion Time: Total	1023
Driller:	JB	Depth: 0-5 = 3.1	5.5'
Company:	Geotech	5-5½ = 2.2	5.3'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.5 (5.0)		Dark Brown, organic silt PT
1.5-2.2 (10.0)		Silt with Rock & Angular gravels GM
2.2-3.1 (15.0)		Dense gray silt with gravels CL
3.1-4.4 (20.0)		Saturated, Dark Brown, organic silt few sands PT/OL
4.4-5.3 (25.0)		Dense gray silt with gravels CL potential limiting Dry factor
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS173SP91.5	1030	1.5-2.2		1.5-2.2	29.3
RIR24SS174SP904	1032	3.1-4.4		3.1-4.4	49.1

Sample ID
001501

Project Name:	Ralston Island RI	Boring Location ID:	SP9 – HSB
Project Number:	697 DCL24-C-0040		
Date:	4/25/24		
Logged By:	ARMD	Boring Start Time:	1030
Company:	APC	Completion Time: Total Depth:	1035
Driller:	JB		10'
Company:	Geotech	5.0 to 2.7	5.2

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.5 (5.0)		Dark Brown, organic Silt, Debris PT
1.5-2.2 (10.0)		organic Silt, w/ plant aggregate/gravel PT/GM
2.2-2.5 (15.0)		Pulverized Rock
2.5-4.5 (20.0)		Dark Brown organic Silt, Saturated * loose PT
4.5-5.2 (25.0)		Sandy gravel w/ pulverized bedrock gray possible limiting factor tight to loose (refusal
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
R:RB455 175SP9 01	1658	0-1.5		0-1.5	35.7
RIR2455 176SP9 03	1100	2.5-4.5		2.5-4.5	33.7

K/SO1

Project Name:	Ralston Island RI	Boring Location ID:	SP9 - HSC
Project Number:	697 DCR 24-C-00040		
Date:	4/25/24		
Logged By:	ARK	Boring Start Time:	1110
Company:	APC	Completion Time:	1114
Driller:	SB	Total Depth:	0-5 = 2.2
Company:	Geotek		5-6 =

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.2 (5.0)		Dark Brown, organic Silt, Debris Pulverized rock on end 2.1-2.2 PT
2.2-6 (10.0)		Saturated, Dark Brown, organic silt PT
6-6.5 (15.0)		Silty Gravel, moist GM
6.5-6.9 (20.0)		possible limiting Factor Silty Sand with gravel, Dense SM
25.0		
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS 177SP9 1.5	1125	0-2.2		0-2.2	59.3
RIR24SS178SP906	1127	6-6.5		6-6.5	11

16501

Project Name:	Ralston Island #1	Boring Location ID:	SP9-HSD
Project Number:	697 DLK 24-C-0010		
Date:	4/25/24		
Logged By:	~~AR~~ HSD	Boring Start Time: Boring	1120
Company:	KPC	Completion Time: Total	1125
Driller:	JB	Depth: 0-5=2.0	
Company:	Cascadian	5-6=2.2	4.2

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.6 (5.0)		Dark Brown Organic silt, debris PT
1.6-2 (10.0)		Silt w/ gravel PT w/ gravel
2~~-2.2~~ 3 (15.0)		Saturated ~~2-2.2 is Loose * gravel and Coarse Sand~~ PT
~~2.2-~~ 3-3.2 (20.0)		Coarse Sand * loose gravel
3.2-4.2 (25.0)		Dense silt CL
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
QA/2 RIR2455179SP901	1150	0-1.6		0-1.6	31
RIR2455180SP903	1152	3-3.2		3-3.2	31 22.4

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1 of 502

Project Name:	Ralston Island RI	Boring Location ID:	SP9-HSE
Project Number:	697 DCR 24-1-00000		
Date:	4/25/24		
Logged By:	MRM	Boring Start Time:	1200
Company:	APC	Completion Time:	1205
Driller:	SB	Total Depth:	5'
Company:	Geotech		

Recovery: 3'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.2		Organic Silt, Dark Brown
5.0		DT
2.2-3		Silt w/ gravel & Coarse Sand fractured Bedrock at end Medium Brown
10.0		
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
HR24S18SP9 1.5	1210	0-2.2	0-2.2	49.3

20501

Project Name:	Ralston Island R1	Boring Location ID:	SP9-HSF
Project Number:	697 DCR 24-C-0047G		
Date:	4/25/24		
Logged By:	JR/SD	Boring Start Time:	1230
Company:	APC	Boring Completion Time:	1235
Driller:	SB	Total Depth:	5.2
Company:	Geotech	0-5-2.9 / 5-6 2.3	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.5 (5.0)		Debris, Sandy grave GM
0.5-2.2 (10.0)		Dark Brown, organic Silt PT
2.2-2.9 (15.0)		Silt w/ platy aggregate GM
2.9-3.5 (20.0)		organic silt w/ sand and gravel PT
3.5-4 (25.0)		sandy gravel, loose* moist
4-5.2 (30.0)		Dense silt w/ gravel & weathered bedrock
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR2455182SP02	1240	0.5-2.2	0.5-2.2	49.9
FIR2455183SP04	1242	3.5-4	3.5-4	50.4

Project Name:	Ralston Island RI	Boring Location ID:	SP9 - P1
Project Number:	697 DCA 24-2-00040		
Date:	4/25/24		
Logged By:	AHem	Boring Start Time: Boring	1600
Company:	APC	Completion Time: Total Depth: 0-5=2.8	1602
Driller:	JA		2.9
Company:	Geotech	~~5~~-10 = 4.0	6.8

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.8 (5.0)		Organic Silt, Dark Brown PT
1.8-2.9 (10.0)		Sandy silt w/ gravel Dark gray GM
2.9-6 (15.0)		Fully Saturated, PT Organic silts w/ gravel
6-6.4 (20.0)		Weathered bedrock Some fines moist
6.4-6.8 (25.0)		privarized bedrock very dry.
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
R1R2455197SP9Q2	1614	1.8-2.9		1.8-2.9	4.4
R1R2455198SP9S.5	1616	2.9-6		2.9-6	71.2

Project Name:	Ralston Island RI	Boring Location ID:	SP9-P2
Project Number:	6097-DCL-24-C-0004E		
Date:	4/25/24		
Logged By:	MD/RM	Boring Start Time:	1615
Company:	APC	Boring Completion Time:	1618
Driller:	SP	Total Depth:	0-5=3
Company:	Geotech		5-6=2
			Recovery 5'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2 5.0		Debris, 10% silt PT
2-3 10.0		Silty sand w/ gravel moist GM
3-4 15.0		Silt, medium gray w/ sand Slightly moist
4-5 20.0		weathered bedrock with fines Slightly damp,
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS199 SP902		0-2	0-2	6.4
RIR24SS200 SP903		2-3	2-3	6.8

Project Name:	Ralston Island RI	Boring Location ID:	SP9 - P3
Project Number:	697 DCX 24-C-00040		
Date:	4/26/24		
Logged By:	AR/JD	Boring Start Time:	0930
Company:	APC	Boring Completion Time:	0940
Driller:	JB	Total Depth:	6'
Company:	Geotech	0-5 : 2.6 5-6 : 4.0	6.6' Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.5 5.0		Debris, Silty Sand w/ gravel GM
0.5-1.6 10.0		Dark Brown, organic silt PT
1.6-2.6 15.0		organic Silt with large gravel PT/GM
2.6-4.8 20.0		* Loose organic Silty Sand and very Saturated gravel w/ well graded PT
4.8-6.6 25.0		~~well grade~~ limiting Water tight Sandy Silt w/ gravel and fractured bedrock
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS201SP902	1025	1.6-2.6	1.6-2.6	5.5
RIR24SS202SP94.5	1027	2.6-4.8	2.6-4.8	8.7

Project Name:	Ralston Island R1	Boring Location ID:	SP9 - P~~8~~4
Project Number:	697 DCK 24.[illegible]-00040		
Date:	4/26/24		
Logged By:	AR/JD	Boring Start Time: Boring	9~~5~~0
Company:	APL	Completion Time: Total	955
Driller:	KB	Depth: 0-5 : 2.2	6.
Company:	Geotech	5-6 : 3.7	Recovery 5.9'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-~~0~~.5 5.0		Debris, Silty Sand w/ gravel GM
0.5-1.7 10.0		organic silt, Dark Brown Moist PT
1.7-2.2 15.0		organic silt w/ gravels, Sand PT
2.2-4.3 20.0		Saturated, organic silt * Loose PT
4.3-4.8 25.0		Silty Sand, coarse w/ gravel loose to firm
4.8-5.9 30.0		limiting factor grey Sandy silt w/ Fractured Bed Rock
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24~~3~~S203SP~~6~~4	07	1040	1.7-2.2	1.7-2.2	12.7
RIR 24 S 204 SP64.5		1042	4.3-4.8	4.3-4.8	10.7

Project Name:	Ralston Island RI	Boring Location ID:	SD9 - P5
Project Number:	697 DCK 24 [illegible]		
Date:	4/26/24		
Logged By:	AR / SB	Boring Start Time: Boring	1020
Company:	ARC	Completion Time: Total	1030
Driller:	JB	Depth: 0-5 = 1.5	6'
Company:	Geotech	5-6 = 1.0	3.1' = Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.5 5.0		Dark ~~Brown~~ Gray, Debris, silty gravel w/sand GM
1.5-2.5 10.0		Silty gravel, fewer fines, firm-loose* GM
2.5-3.1 15.0		Firm, silty Gravel w/ coarse Sand to Pulverized bed Rock
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
DUP RIR24SS207SD901	~~1140~~ 1236	0-1.5	0-1.5	10.4
MS/MSD RIR24SS208SD9~~2~~.5	~~1147~~ 1236	1.5-2.5	1.5-2.5	12.5

Project Name:	Ralston Island RI	Boring Location ID:	SP9-S1
Project Number:	617 DCK 24-C-000-10		
Date:	4/27/24		
Logged By:	[redacted]	Boring Start Time: Boring	1415
Company:	APC	Completion Time: Total Depth:	1420
Driller:	JB		5'
Company:	Geotech	0-5 = 2.3' Recovery	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.2 5.0		Debris
0.2-0.4 10.0		Sandy Gravel GM
0.4-1.8 15.0		Dark Brown; Silt OL
1.8-2.0 20.0		Silt w/ angular gravel, moist/saturated OL
2.0-2.3 25.0		fractured bedrock, mottled light brown
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS213SP902	1430	1.8-2	1.8-2	3.2

Project Name:	Ralston Island RI	Boring Location ID:	SB9-S2
Project Number:	697 DCK 24-C-00040		
Date:	4/27/24		
Logged By:	MCAD	Boring Start Time: Boring	~~1430~~ 1430
Company:	APC	Completion Time: Total Depth:	1435 5'
Driller:	JB		
Company:	Geotech		recovery = 2.5

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.8 5.0		Sandy gravel, grey & medium brown dry GM
0.8-2.5 10.0		Some woody debris, dark brown, moist, firm. PT
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24552[illegible] SB902	1450	0.8-2.5	0.8-2.5	6.1

Project Name:	Ralston Island RI	Boring Location ID:	SP9-SS
Project Number:	697 DCK 24-000040		
Date:	4/27/24		
Logged By:	AR/JD	Boring Start Time: Boring	1455
Company:	APC	Completion Time: Total	1500
Driller:	JB	Depth: 0-5=2.4	10'
Company:	Geotech	5-10=4.7	7.1

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-0.5		loose Debris
5.0		
0.5-2.0		Dark Brown, Organic silt
10.0		PT
2.0-2.4		Sandy silt w/ gravel
15.0		OL/CM
2.4-3.0		moist/Saturated Same as above
20.0		w/ larger angular gravels
3.0-3.3		Dark Gray, silty sand, firm
25.0		moist/~~Saturated~~
3.3-7.1		Firm Sandy silt, fractured bedrock
30.0		last foot of interval is pulverized bedrock limiting factor
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
R1R2455214-SP905	1530	0.5-2	0.5-2	3.9
R1R2455215-SP903	1532	2.4-3	2.4-3	7.6

Project Name:	Ralston Island RI	Boring Location ID:	SP954
Project Number:	697 DCK 24-C-00040		
Date:	7/27/24		
Logged By:	AR/JD	Boring Start Time: Boring	1440
Company:	APC	Completion Time: Total	1450
Driller:	JB	Depth: 0-5=2.5	6'
Company:	Geotech	5-6=4.7	7.2=recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.1 5.0		Debris, Dark gray-Brown ;organic Silt PT
2.1-2.5 10.0		Sandy gravel w/ silt , moist-Saturated GM
2.5-6.2 15.0		organic Silt;Saturated loose PT
6.2-7.2 20.0		Fractured bedrock w/ silt limiting factor
25.0		
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS215SP902	1510	0-2.1		0.2.1	5.3
RIR24SS215SP906	1512	2.5-6.2		2.5-6.2	2.4

No Samples

SPG-MW-2

Project Name:	Ralston Island RI	Boring Location ID:	SPG - Downgradient 2
Project Number:	697-DCR 24-000-04		
Date:	4/27/24		
Logged By:	AE / JB	Boring Start Time: Boring	0855
Company:	AFC	Completion Time: Total	0900
Driller:	JB	Depth: 0-5 = 2.3	
Company:	Keeter	5-10 = 4.3	6.6

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes (total length of crushed macro core in 5-10 interval is 4.3)
0-0.8 / 5.0		moist PT
0.8-2.3 / 10.0		moist PT & GM
2.3-3.6 / 15.0		moist (crushed macrocore) Bottom of the Screen
3.6-4.6 / 20.0		limiting factor, tight Silt w/ gravel
4.6-6.6 / 25.0		Same as above w/ fractured / pulverized bedrock
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading

Project Name:	Ralston Island RI	Boring Location ID:	SP9 -P6
Project Number:	697 DCK 24-C-00040		
Date:	4/26/24		
Logged By:	MR	Boring Start Time: Boring	1000
Company:	ADC	Completion Time: Total	1010
Driller:	JB	Depth: 0-5: 1.2	8.5'
Company:	Geotech	5-8.5: 4.2	5.4

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.2 5.0		Debris, Dark Brown, organic silt PT
1.2-1.8 10.0		Same as above
1.8-2 15.0		organic silt w/ sand & gravel Saturated PT
2-3.3 20.0		Silty Sand, Firm, medium brown, moist SM
3.3-5.4 25.0		Dense, Sandy silt w/ gravels Pulverized Bedrock in last 0.8'
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIR24SS205SP9 01	1115	0-1.2		0-1.2	14.3
RIR24SS206SP903	1117	2-3.3		2-3.3	14.0

Project Name:	FAA Ralston Fs.	Boring Location ID:	SP9-D601
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	0950
Company:	TALCES	Boring Completion Time:	1000
Driller:	N/A, Soil Auger	Total Depth:	4 Ft
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2' ~~5.0~~	0.4	OL/CL, Medium Brown. Moist. "Collected" sample @ 2'.
2-4' ~~10.0~~	0.0	CL w/ large Gravels, Medium Brown. Moist to Saturated
15.0		<— Refusal —>
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
~~RIR245520~~ 10m.			2'	0.4
RIR245519SP902				
RIR245519SP9029				

Project Name:	EAA Ralston Ts.	Boring Location ID:	SP9-D602
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1020
Company:	TALCES	Boring Completion Time:	1030
Driller:	N/A, Soil Auger	Total Depth:	4 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2' ~~5.0~~	0.4	OL/CL, Medium Brown, Moist. "Collected" Sample @ 2'
2'-4' ~~10.0~~	0.0	CL w/ large gravels, Medium Brown. Moist to Saturated.
15.0		← Refusal →
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RTR245520SP902			2'	0.4

Project Name:	FAA Ralston Es.	Boring Location ID:	SP9-7603
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1050
Company:	TALCES	Boring Completion Time:	1100
Driller:	N/A, Soil Auger	Total Depth:	3.5 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1' ~~5.0~~	0.0	OL/CL. Dark Brown. Moist
1-2' ~~10.0~~	0.2	CL, Dark Brown
2-3' ~~15.0~~	0.4	CL w/ gravel, Medium Brown Moist "Collected Sample @ 3'
3-3.5' 20.0	0.0	CL w/ gravel, Medium Brown Saturated ← Refusal ——>
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RTR245521SP903			3'	0.4

Project Name:	EAA Ralston Ts.	Boring Location ID:	SP9-DG04
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1120
Company:	TALCES	Boring Completion Time:	1130
Driller:	N/A, Soil Auger	Total Depth:	4.5 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2' ~~5.0~~	0.1	OL/CL Medium Brown
2-3' ~~10.0~~	0.2	OL/CL Medium Brown Moist "Collected" Simple@3'
3-4' ~~15.0~~	0.0	OL/CL Medium Brown w/ gravel
4-4.5 ~~20.0~~	0.0	~~OL/CL~~ CL Medium Brown Saturated ← Refusal →
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR245522SP903			3'	0.2

Project Name:	EAA Ralston Ests.	Boring Location ID:	SP9-DGS
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1150
Company:	TALCES	Boring Completion Time:	1200
Driller:	N/A, Soil Auger	Total Depth:	3.5 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2' ~~5.0~~	0.0	CL, Medium Brown. Note: Low Recovery
2'-3.5' ~~10.0~~	0.2	CL, Dark Brown, Large Gravels. "Collected" Sample @ 3.5' <— Refusal —>
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR2455223SP903.5			3.5'	0.2

Project Name:	FAA Ralston Es.	Boring Location ID:	SP9-D66
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1220
Company:	TALCES	Boring Completion Time:	1230
Driller:	N/A, Soil Auger	Total Depth:	3.5FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2' 5.0	0.2	CL. Dark Brown, moist Sulfur Dioxide odor
2'-4.5' 10.0	0.4	CL w/ gravel, moist-saturated Sulfur Dioxide odor, "collected"
15.0		Sample @ 4.5' <— Refusal —>
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR245522 4SP904.5			4.5'	0.4

Project Name:	FAA Ralston Es.	Boring Location ID:	SP9-BKG1
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1250
Company:	TALCES	Boring Completion Time:	1300
Driller:	N/A, Soil Auger	Total Depth:	4.5 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2'	0.0	OL/CL, Dark Brown Moist, Sampled.
2-4.5'	0.0	CL w/ Sand, Dark Brown. Moist. Sampled' <— Refusal —>
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR245525BKG02			2'	N/A
RIR245526BKG04.5			4.5'	N/A

Project Name:	FAA Ralston Es.	Boring Location ID:	SP5-BKG1 SP9
Project Number:			
Date:	10/17/2024		
Logged By:	R. Melrose	Boring Start Time:	1320
Company:	TALCES	Boring Completion Time:	1330
Driller:	N/A, Soil Auger	Total Depth:	3.5 FT
Company:	N/A		

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.5' 5.0	0.0	OL, Saturated Hemic organics "Collected" Sample
1.5-3.5' 10.0	0.0	OL, Saturated Saphric organics w/ sand. "Collected" Sample
15.0		
20.0		
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR245522 7BKG01.5			1.5'	N/A
RIR245522 8BKG03.5			3.5'	N/A

0|502

Project Name:	Ralston Island RI	Boring Location ID:	SP10-HSA
Project Number:	697-DCK 24-E-Grant 10		
Date:	4/25/24		
Logged By:	~~MLSD~~	Boring Start Time: Boring	1300
Company:	ADC	Completion Time: Total	1305
Driller:	SB	Depth:	10
Company:	Geotech	0-5 = 2.4 5-10 = 3.0	5.4

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-~~1.8~~ 5.0		Dark Brown organic silt PT
1.8-2.4 10.0		PT w/ platy aggregate moist
2.4-~~5~~ 15.0		Silty gravel w/ coarse sand medium gray loose* not much water GM
4-5.4 20.0		limiting factor, dense clay w/ sand and gravel, pulverized bedrock @ bottom
25.0		
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24SS164SP10~~0~~.5	1310	0-1.8	0-1.8	51.8
RIR24SS165SP1003	1312	2.4-4	2.4-4	15.3

01501

Project Name:	Ralston Island RI	Boring Location ID:	SP10-HSB
Project Number:	697-DCH-24-C-00040		
Date:	4/25/24		
Logged By:	AR/SD	Boring Start Time:	1308
Company:	ARC	Boring Completion Time:	1312
Driller:	SB	Total Depth:	10'
Company:	Geotech	0-5=2.9 5-10=4.6	recovery 7.5'

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-2.9 (5.0)		organic silt, Dark Brown PT
2.9-4.3 (10.0)		Silty gravel w/coarse sand GM
4.3-5 (15.0)		silty gravel, fewer fines. Saturated not loose GM
5-7.5 (20.0)		Silty Gravel, Pulverized fractured bedrock possible limiting factor medium to light gray
25.0		
30.0		
35.0		
40.0		

Analytical Samples				PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)		Depth Interval	Reading
RIRZ4SS186SP10 02	1320	0-2.9		0-2.9	12.5
RIRZ4SS187SP10 ~~03~~ 04	1322	2.9-4.3		2.9-4.3	40.9

SPT Upgradient

Project Name:	Ralston Island RI	Boring Location ID:	Background 1
Project Number:	097 DCK 24-C-00040		
Date:	4/26/24		
Logged By:	AR/SD	Boring Start Time: Boring	1230
Company:	APC	Completion Time: Total	1240
Driller:	JB	Depth:	8'
Company:	Geo Tech	0-5=2.7 5-8=3.1	S. 8'=Recovery

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
1-2.2 5.0		organic Silt, Dark Brown HS odor PT
2.2-2.7 10.0		Silty Sand w/ gravel, Dark Grey GM
2.7-3.7 15.0		organic Silt, Dark Grey moist maybe slough? PT
3.7-4.1 20.0		Silty Sand, loose*, Moist
4.1-5.8 25.0		limiting factor tight Sandy silt w/ gravel, weathered bedrock and pulverized bedrock
30.0		
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
BIR24SS20QBKG02	1536	1-2.2	1-2.2	0.7 ~~DUP~~
BIR24SS21QBKG03	1539	2.7-3.7	2.7-3.7	1.1 ~~DUP~~

SPS UP ~~Downgradient~~

Project Name:	Ralston Island RI	**Boring Location ID:**	BKG-2
Project Number:	697 DCK 24-C-000140		
Date:	4/27/24		
Logged By:	AK / JO	**Boring Start Time:**	0845
Company:	APC	**Completion Time:**	0856
Driller:	JB	**Total Depth:**	~~10~~ 15'
Company:	Geotech	0-5 = 2.0	
		5-10 = 3.4	9.4' = Recovery
		10-15	

Depth Below Ground Surface (Feet)	Insitu PID Reading (PPM)	Lithology Notes
0-1.7		Dark Brown, organic silt
5.0		PT
1.7-2		silty gravel w/ course sand
10.0		Viscous
		GM
2-3.4		Saturated, Slough?
15.0		PT
3.4-4.2		silty gravel w/ course ~~Sand~~
20.0		GM
4.2-5.3		Tight, moist, sandy silt, medium gray
25.0		CL
5.4-7.3		limiting factor
30.0		medium gray silt No Sample
35.0		
40.0		

Analytical Samples			PID Headspace Readings:	
Sample ID	Time	Depth Interval (feet BGS)	Depth Interval	Reading
RIR24 SS 209	1536	BKG 102	1.7-2	0.9 ~~No Odor~~
RIR24 SS 210	1536	BKG 135	3.4-4.2	~~0.9~~ ~~No Odor~~

MONITORING WELL CONSTRUCTION LOGS

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Monitoring Well Installation Diagram			Monitoring Well ID: SPG - MW1		
Project Name:	Ralston Ts. RI		Driller:	James Belknap	
Project Number:	697DCK24.C.00040		Drilling Method:	Direct Push	
Client:	FAA				
Field Scientist:	R. Melrose / A. Robinson		Monitoring Well Details:		
Site Address:	N/A		Casing Diameter (in):	2"	
			Total Well Depth (ft BTOC):	8.19	
			Top of Casing Elevation:		
Date of Construction:	4/27/24		Stickup?	✓	Flush Mount?

Well Construction Details	Depth (ft bgs)	Notes:
0.48' → Top of Monument 3.21' → Top of well Casing 2.73' Rea Gravel 0.46 { Bent. → ~~Sand~~ / 5.0' Screen GW 3.74 water Column 8.19 Total Well Depth		

Comments:

Monitoring Well Installation Diagram			Monitoring Well ID: SPG-MW2
Project Name:	Ralston Island R1	Driller:	James Beckner
Project Number:	697 DCK 24-C-0040	Drilling Method:	Direct Push
Client:	FAA		
Field Scientist:	R. Melrose, A. Robinson	Monitoring Well Details:	
Site Address:	N/A	Casing Diameter (in):	2"
Date of Construction:	4/27/24	Total Well Depth (ft BTOC):	10.9
		Top of Casing Elevation:	
		Stickup? ✓	Flush Mount?

well top - GMT 0.54'

ground - GMT 3.56'

Well Construction Details	Depth (ft bgs)	Notes:
3.02' Casing; 3.56'; - Pea Gravel; - 0.7 Bent.; — 2.7'; 2.0' Sand; 5.0' Screen		

Comments:

Monitoring Well Installation Diagram			Monitoring Well ID: SP5-MW1
Project Name:	Ralston Is. RI	Driller:	GeoTek
Project Number:		Drilling Method:	Direct Push
Client:	FAA		
Field Scientist:	R. Melrose/A. Robinson	Monitoring Well Details:	
Site Address:	Ralston Island	Casing Diameter (in):	2.
Date of Construction:	4/27/2024	Total Well Depth (ft BTOC):	10.2'
		Top of Casing Elevation:	
		Stickup? ✓	Flush Mount?

Well Construction Details	Depth (ft bgs)	Notes:
Top of Casing to bottom = 10.2' 2" 10.2' Well Total - 3.6' Casing Bgs E. Side 1' Bgs Sp. Gravel 2' Sand 2' Bent. Water Depth to Water 5' Screen 10.2'		- Bentonite 2' Sand 2' Pea Gravel 1' Saturated Ground to Hydrate. 5' Screen GW @ top of screen. Bore Hole to 10.5'

Comments:

Monitoring Well Installation Diagram			Monitoring Well ID:	
Project Name:	FAA Ralston Is.	Driller:	GeoTek	
Project Number:		Drilling Method:	Direct Push	
Client:	FAA			
Field Scientist:	R. Melrose / A. Robinson	Monitoring Well Details:		
Site Address:	N/A	Casing Diameter (in):	2.0"	
		Total Well Depth (ft BTOC):	8.5	
		Top of Casing Elevation:		
Date of Construction:	4/26/24	Stickup?		Flush Mount?

Well Construction Details	Depth (ft bgs)	Notes:
		* 5' Prepacked well casing installed to 8.5'

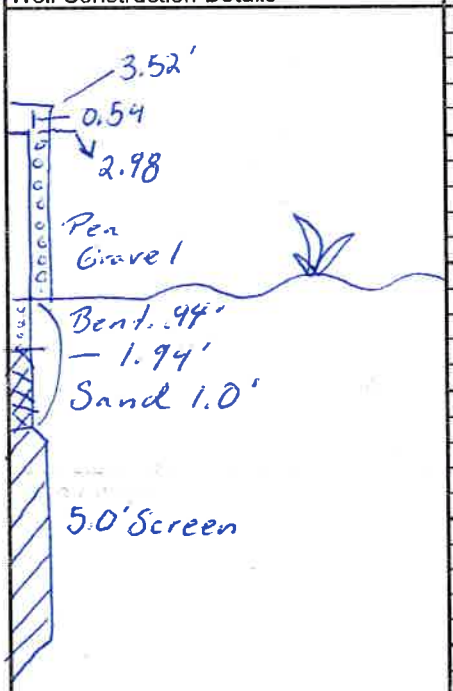
Comments:

5'

10.2

Monitoring Well Installation Diagram		Monitoring Well ID: SPS-MW2	
Project Name:	Ralston Island RI	Driller:	James Beichner
Project Number:	697 DCK 24-[illegible]040	Drilling Method:	Direct Push
Client:	FAA		
Field Scientist:	R. Melrose, A Robinson	Monitoring Well Details:	
Site Address:	N/A	Casing Diameter (in):	2"
Date of Construction:	4/27/24	Total Well Depth (ft BTOC):	9.42
		Top of Casing Elevation:	
		Stickup? ✓	Flush Mount?

wc - MP = 0.54
gs - MP = 3.52
gs - wc = 2.98

Well Construction Details	Depth (ft bgs)	Notes:
		

Comments:

Monitoring Well Installation Diagram			Monitoring Well ID: SP10-MW1
Project Name:	Ralston Island R1	Driller:	James Beckner
Project Number:	697 DCK 24-[illegible]040	Drilling Method:	Direct Push
Client:	FAA		
Field Scientist:	R Melrose, A. Robinson	Monitoring Well Details:	
Site Address:	N/A	Casing Diameter (in):	2"
		Total Well Depth (ft BTOC):	9.95
		Top of Casing Elevation:	
Date of Construction:	4/29/24	Stickup? ✓	Flush Mount?

Well Construction Details	Depth (ft bgs)	Notes:
2.5" Casing Top to monument top 39" ground surface to Top of monument 0.21 2.1 ~~2.75~~ ~~3.7~~ ~~36.5~~ ~~39~~ 3.05 3.25 Bent. 1' 2.11 Sand 1' 9.95 From TOC 6.59' 5' GW		

Comments:

4.95
- 3.08

WATER SAMPLING FORMS

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MONITORING WELL DEVELOPMENT SHEET

Project Number: 697 DCK 24-C-00010 | Well ID (ie. MW1): SAS-MW2
Project Name: Ralston Island RI | Date Developed: 4/28/24
Client: FAA | Time Developed: 1230
Field Scientist: R. Melrose, A. Robinson | 24 hours since installation? (Yes) / No

WELL INFORMATION

Well Casing Diameter (in): 2"

a) Total Well Depth (ft BTOC): 9.92
b) Depth to Water (ft BTOC): 4.73
c) Water Column (ft): 5.19

Water column = total well depth - depth to water

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other

Surge vigorously a minumum of 10 minutes throughout well screened interval

Surge duration: minimum 10 minutes? (Yes) / No

Purge method: disposable bailer / peristaltic pump / (submersible pump) / other

Pump Depth (ft BTOC): 5.73

Purge until visibly free of sediment? Yes / (No)

Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.

Start | End | Gallons

FIELD MEASUREMENTS

Notes

Time	Volume ~~(mL)~~	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity ~~(uS/cm)~~ (±3%)	Flow Rate (50 - 500 mL/min)	~~SWL~~ DTW (ft BTOC)
1230 | 1245	0.85				surged / ran dry		4.73
1500 | 1513	0.76				surged / ran dry		5.1
1800 | 1805	0.70						5.35
4/29/24							
1030 | 1044	0.83				surged / ran dry		4.73

Not full recharge
5.1 DTW Start
5.35 DTW Start

Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).

Did well purge dry? (Yes) / No

If purged dry, did well recharge? (Yes) / No

If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.

Did well purge dry a second time? (Yes) / No

If well purges dry a second time, the development process is complete.

Approximate volume purged (gallons): 3.14

Signed: Date:

Signed/reviewer: Date:

MONITORING WELL DEVELOPMENT SHEET

Project Number: 697 DCK 24-C-00040
Project Name: Balston Island RI
Client: FAA
Field Scientist: R. Melrose, A. Robinson

Well ID (ie. MW1): SPS-MW1
Date Developed: 4/28/24
Time Developed: 1030
24 hours since installation? (Yes) / No

WELL INFORMATION

Well Casing Diameter (in): 2"

a) Total Well Depth (ft BTOC): 10.25
b) Depth to Water (ft BTOC): 4.83
c) Water Column (ft): 5.42

**Water column = total well depth - depth to water*

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other
**Surge vigorously a minumum of 10 minutes throughout well screened interval*
Surge duration: minimum 10 minutes? (Yes) / No
Purge method: disposable bailer / peristaltic pump / (submersible pump) / other
Pump Depth (ft BTOC): 5.83
Purge until visibly free of sediment? Yes / (No)
**Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.*

FIELD MEASUREMENTS

START	STOP	Time	Volume (mL)	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity (uS/cm) (±3%)	Flow Rate (50 - 500 mL/min)	DTW (ft BTOC)	Notes
1030	1038		0.8				Dry	378.5	4.83	
1100	1115		0.9			563 NTU	Dry	227.12	5.2	
1136	1146		1			355 NTU	Dry	378.54	5.1	
1222	1229		1			269 NTU	~~254~~ Dry	540.77	5.0	
1308	1316		1.1			209 NTU	Dry	520.49	4.9	

**Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).*

Did well purge dry? (Yes) / No
If purged dry, did well recharge? (Yes) / No
**If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.*
Did well purge dry a second time? (Yes) / No
**If well purges dry a second time, the development process is complete.*
Approximate volume purged (gallons): 4.8

Signed: Date:
Signed/reviewer: Date:

MONITORING WELL DEVELOPMENT SHEET

Project Number: 697 DCK 24-C-00040
Well ID (ie. MW1): SP9 - MW2
Project Name: Balston Island RI
Date Developed: 4/29/24
Client: FAR
Time Developed: 1613
Field Scientist: B. Melrose, A. Robinson
24 hours since installation? (Yes) / No

WELL INFORMATION

Well Casing Diameter (in): 2"
a) Total Well Depth (ft BTOC): 10.9
b) Depth to Water (ft BTOC): 4.0
c) Water Column (ft): 6.9
**Water column = total well depth - depth to water*

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other
**Surge vigorously a minumum of 10 minutes throughout well screened interval*
Surge duration: minimum 10 minutes? (Yes) / No
Purge method: disposable bailer / peristaltic pump / (submersible pump) / other
Pump Depth (ft BTOC): 5.0
Purge until visibly free of sediment? Yes / (No)
**Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.*

FIELD MEASUREMENTS

Start | End | Gallons | Notes

Time	Volume ~~(mL)~~	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity (uS/cm) (±3%)	Flow Rate (50 - 500 mL/min)	DTW (ft BTOC)	Start DTW
1613 | 1622	1.1			305 NTU @ 1.6gal	Surge, rsn Dry	462.66 mL/min	8.7	4.0
1740 | 1750	1.3			415 NTU @ 2.9 gal	Dry	492.1 mL/min	8.9	4.2
								—
0952 | 0958	1.5				Surged / rsn Dry	946.3 mL/min	9.0	4.05
1108 | 1119	1.0			214 NTU	Start DTW 4.05 / rsn Dry	344.12 mL/min	9.2	4.5
~~1300~~ Sampling								4.3

4/29/24 Start DTW: 4.05

**Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).*

Did well purge dry? (Yes) / No
If purged dry, did well recharge? (Yes) / No
**If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.*
Did well purge dry a second time? (Yes) / No
**If well purges dry a second time, the development process is complete.*
Approximate volume purged (gallons): 4.9 gal.

Signed: Date:
Signed/reviewer: Date:

MONITORING WELL DEVELOPMENT SHEET

Project Number: 697 DCK 24-60040
Well ID (ie. MW1): SPG-MW1
Project Name: Bolster Island RI
Date Developed: 4/28/24
Client: FAA
Time Developed: 1430
Field Scientist: B. Melrose, A. Robinson
24 hours since installation? (Yes) / No

WELL INFORMATION

Well Casing Diameter (in): 2"

a) Total Well Depth (ft BTOC): 8.19
b) Depth to Water (ft BTOC): 4.45
c) Water Column (ft): 3.74

**Water column = total well depth - depth to water*

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other

Surge vigorously a minumum of 10 minutes throughout well screened interval

Surge duration: minimum 10 minutes? Yes / No

Purge method: disposable bailer / peristaltic pump / submersible pump / other

Pump Depth (ft BTOC): 5.45

Purge until visibly free of sediment? Yes / (No)

Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.

Start / End / Gallons

Time		Volume (mL)	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity (uS/cm) (±3%)	Flow Rate (50 - 500 mL/min)	DTW (ft BTOC)	
				FIELD MEASUREMENTS			Notes		
1450	1500	0.8				surge, ran Dry	302.8 mL/min	7.05	DTW Start 4.45
1623	1630	0.4				Dry	216 mL/min	7.15	6.4
1725	1729	0.3				Dry	283.9 mL/min	7.6	6.32
4/29/24									
0943	0953	0.8				Surge, ran Dry	302.8 mL/min	7.3	
1437	1440	0.78				ran Dry	984.2 mL/min	6.8	4.9
1600	1618	0.77				ran Dry	364.34	7.2	6.35
Starting DTW: 4.5'									
See Sampling Sheet									

Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).

Did well purge dry? (Yes) / No

If purged dry, did well recharge? (Yes) / No

If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.

Did well purge dry a second time? (Yes) / No

If well purges dry a second time, the development process is complete.

Approximate volume purged (gallons): 3.95

Signed: Date:

Signed/reviewer: Date:

5/02/24

GROUNDWATER SAMPLE DATA SHEET

Site Name:	Ballston Island RI	Sample Location (ie. MW1):	SP10- MW1	Nominal Diameter:	Volume (gal/lin ft):
Project Number:	697 DKK 24-C-00410	Well Condition:	New	(2")	0.16
Client:	FAA	Depth to Water:	6.59	4"	0.65
Sampler:	R. Melrose, A. Robinson	Depth to Bottom:	9.95	6"	1.47
Weather/Temp:	61°	Height of Water Column:	3.36	8"	2.61
Wind:	2 mph	Well Volume:	0.54 gal		

SAMPLE DATA

Pump Depth (ft BTOC):	7.59	Primary Sample ID:	RIR24MW005			Sample Time:	950	
Pump Type:	Sub	Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):	Turbidity not below 100 NTU	AK102	2	No				

Notes:	Field Duplicate ID:			Sample Time:	
	Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C) ± 0.2°	Conductivity (mS) ±3%	ORP (mV) ± 10 mV	DO (mg/L) ±10%	Color	Turbidiity	DTW
1000	250	~~6.0~~ 5.21	6.0	0.0899	92.2	34.0	-	164	7.71
				↑					
			Single Parameter logged due to low recharge. RM						

Total Volume Purged:	250 ml = 0.06 gal	Sheen (y/n):	No
Odor:	None	Well Recovery:	Poor
Signed:		Date:	
Signed/reviewer:		Date:	

GROUNDWATER SAMPLE DATA SHEET

Site Name:		Sample Location (ie. MW1):		Nominal Diameter:	Volume (gal/lin ft):
Project Number:		Well Condition:		2"	0.16
Client:		Depth to Water:		4"	0.65
Sampler:		Depth to Bottom:		6"	1.47
Weather/Temp:		Height of Water Column:		8"	2.61
Wind:		Well Volume:			

SAMPLE DATA

Pump Depth (ft BTOC):		Primary Sample ID:				Sample Time:		
Pump Type:		Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):								

Notes:	Field Duplicate ID:				Sample Time:	
	Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:	

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C)±0.2°	Conductivity (mS) ±3%	ORP (mV) ± 10 mV	DO (mg/L) ±10%	Color	Turbidiity	DTW

Total Volume Purged:		Sheen (y/n):	
Odor:		Well Recovery:	
Signed:		Date:	
Signed/reviewer:		Date:	

4/28/24

GROUNDWATER SAMPLE DATA SHEET

Site Name:	Ralston Island	Sample Location (ie. MW1):	SPS - MW1	Nominal Diameter:	Volume (gal/lin ft):
Project Number:	697 DLK 24-1-1000	Well Condition:	New	2"	0.16
Client:	FAA	Depth to Water:	5.1	4"	0.65
Sampler:	R. Melrose, A. Robison	Depth to Bottom:	10.25	6"	1.47
Weather/Temp:	49°	Height of Water Column:	5.42'	8"	2.61
Wind:	7 mph	Well Volume:	0.8602 = 0.87 gals.		

SAMPLE DATA

Pump Depth (ft BTOC):	6.1	Primary Sample ID:	R1R24MW001			Sample Time:	1352	
Pump Type:	Sub	Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):	odor free color free	AK102	6	yes				

Notes:	Field Duplicate ID:	R1R24MW0019		Sample Time:	1353
	Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:
	AK102	2			

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C) ± 0.2°	Conductivity (mS) ± 3%	ORP (mV) ± 10 mV	DO (mg/L) ± 10%	Color	Turbidiity	DTW
1338	1000	6.42	5.6	.2309	28.6	2.53		311	6.8
1342	1000	6.43	5.8	.2285	29.5	4.83		221	6.6
1347	1000	6.43	5.9	.2278	28.7	5.84		170	6.55
1351	Sampling							98.1	
									—

Total Volume Purged:	3000 mL 0.79 gallons	Sheen (y/n):	N
Odor:	None	Well Recovery:	Fair
Signed:		Date:	
Signed/reviewed:		Date:	

4/29/24

GROUNDWATER SAMPLE DATA SHEET

Site Name:	Ralston Island	Sample Location (ie. MW1):	SP5-MW2	Nominal Diameter:	Volume (gal/lin ft):
Project Number:	697 Drill-24-cccc	Well Condition:	New	2"	0.16
Client:	FAA	Depth to Water:	5.0	4"	0.65
Sampler:	R. Melrose, A. Robinson	Depth to Bottom:	9.92	6"	1.47
Weather/Temp:	52	Height of Water Column:	4.92	8"	2.61
Wind:	4	Well Volume:	0.8304 = 0.83 gal		

SAMPLE DATA

Pump Depth (ft BTOC):	6.0	Primary Sample ID:	RIR24MW003			Sample Time:	1410	
Pump Type:	Sub	Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):	turbidity not below 300 NTU	AK102	2	NO				

Notes: ~~Sampled w/out stable parameters due to slow recharge.~~ Re 4/24 Sampled after stable parameters gathered

Field Duplicate ID:				Sample Time:	
Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:	

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C)±0.2°	Conductivity (mS) ±3%	ORP (mV) ± 10 mV	DO (mg/L) ±10%	Color	Turbidity	DTW
1354	Sampled							325	
1400	500	6.74	6.8	.3183	16.6	8.44		309	
1403	500	6.60	5.9	.3169	19.2	6.04		301	
1406	500	6.59	6.0	.3121	18.9	5.55		302	
1409	500	6.60	6.3	.3115	19.7	5.70		304	
1410	Sampling								

Total Volume Purged:	2500 ml = 0.66 gal	Sheen (y/n):	NO
Odor:	None	Well Recovery:	Fair
Signed:		Date:	
Signed/reviewer:		Date:	

4/29/24

GROUNDWATER SAMPLE DATA SHEET

Site Name:	Ralston Island	Sample Location (ie. MW1):	SP9-MW2	Nominal Diameter:	Volume (gal/lin ft):
Project Number:	1097 DCK 24-1-00040	Well Condition:	New	2"	0.16
Client:	FAA	Depth to Water:	4.3	4"	0.65
Sampler:	R. Melrose, A. Robison	Depth to Bottom:	10.9'	6"	1.47
Weather/Temp:	52°	Height of Water Column:	6.6	8"	2.61
Wind:	4 mph	Well Volume:	1.104 = 4 gal		

SAMPLE DATA

Pump Depth (ft BTOC):	5.3	Primary Sample ID:	R1R24MW002			Sample Time:	1318	
Pump Type:	SUB	Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):	Odor free Clear	RM102	2	No				

Notes:	Field Duplicate ID:				Sample Time:	
	Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:	

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C)±0.2°	Conductivity (mS) ±3%	ORP (mV) ± 10 mV	DO (mg/L) ±10%	Color	Turbidiity	DTW
1301	450	6.28	7.8	.0010	38.4	13.39		198	
1304	450	6.20	7.8	.0010	42.7	12.44		134	
1307	450	6.16	7.7	.0010	44.1	12.37		120	
1311	450	6.13	7.8	.0010	45.3	12.17		78.1	
Sample	2g								

Total Volume Purged:	1800 mL = 0.475 gal	Sheen (y/n):	N
Odor:	None	Well Recovery:	Poor
Signed:		Date:	
Signed/reviewer:		Date:	

4/30/24

GROUNDWATER SAMPLE DATA SHEET

				Nominal Diameter:	Volume (gal/lin ft):
Site Name:	Ralston Island	Sample Location (ie. MW1):	SDG-MW1		
Project Number:	697 DCR 24-C-60040	Well Condition:	new	2"	0.16
Client:	FAA	Depth to Water:	4.54	4"	0.65
Sampler:	R. Melrose, A. Robinson	Depth to Bottom:	8.19	6"	1.47
Weather/Temp:	50°	Height of Water Column:	3.65	8"	2.61
Wind:	5mph	Well Volume:	0.5984 = 0.60 gal		

SAMPLE DATA

Pump Depth (ft BTOC):	5.54	Primary Sample ID:	RIR24 MW004			Sample Time:	1007	
Pump Type:	Sub	Analytes:	# of Bottles:	MS/MSD?	Analytes:	# of Bottles:	MS/MSD?	
Sample Description (color, free product, odor, turbidity):	Slightly turbid turbidity not below 100 NTU	ARL02	2	NO				

Notes: Due to low recharge sampling was done prior to establishing stable parameters	Field Duplicate ID:			Sample Time:	
	Analytes:	# of Bottles:	Analytes:	# of Bottles:	Notes:

FIELD WATER QUALITY PARAMETERS (record every 3-5 minutes)

Time	Volume (ml)	pH ± 0.1	Temperature (C)±0.2°	Conductivity (mS) ±3%	ORP (mV) ± 10 mV	DO (mg/L) ±10%	Color	Turbidiity	DTW
1002	~~720~~ 720							185	4.54
1007	~~720~~ 720	5.81	5.4	.1880	68.1	6.31		191	5.35
1010	~~720~~ 720	5.94	4.9	.0801	57	3.25		134	6.56
1014	~~720~~ 720	6.13	6.1	.1498	43.6	3.38		143	6.62

Total Volume Purged:	2880 ml = 0.76 gal	Sheen (y/n):	N
Odor:	None	Well Recovery:	Poor
Signed:		Date:	
Signed/reviewer:		Date:	

MONITORING WELL DEVELOPMENT SHEET

Project Number: _____ Well ID (ie. MW1): _____

Project Name: _____ Date Developed: _____

Client: _____ Time Developed: _____

Field Scientist: _____ 24 hours since installation? Yes / No

WELL INFORMATION

Well Casing Diameter (in): _____

a) Total Well Depth (ft BTOC): _____

b) Depth to Water (ft BTOC): _____

c) Water Column (ft): _____

Water column = total well depth - depth to water

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other

Surge vigorously a minumum of 10 minutes throughout well screened interval

Surge duration: minimum 10 minutes? Yes / No

Purge method: disposable bailer / peristaltic pump / submersible pump / other

Pump Depth (ft BTOC): _____

Purge until visibly free of sediment? Yes / No

Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.

FIELD MEASUREMENTS

Time	Volume (mL)	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity (uS/cm) (±3%)	Flow Rate (50 - 500 mL/min)	DTW (ft BTOC)

Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).

Did well purge dry? Yes / No

If purged dry, did well recharge? Yes / No

If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.

Did well purge dry a second time? Yes / No

If well purges dry a second time, the development process is complete.

Approximate volume purged (gallons): _____

Signed: Date:

Signed/reviewer: Date:

4/30/24

MONITORING WELL DEVELOPMENT SHEET

Project Number: 69K DCK21-c-00040
Well ID (ie. MW1): SP10-MW1
Project Name: Dakota Isha RI
Date Developed: 4/30/24
Client: FAA
Time Developed: 1400
Field Scientist: R. Melrose, A. Robinson
24 hours since installation? (Yes) / No

WELL INFORMATION

Well Casing Diameter (in): 2"

a) Total Well Depth (ft BTOC): 9.95
b) Depth to Water (ft BTOC): 6.59
c) Water Column (ft): 3.56
Water column = total well depth - depth to water 0.54gal

SURGE AND PURGE INFORMATION

Surge method: surge block / intermittent pumping with submersible pump / other
Surge vigorously a minumum of 10 minutes throughout well screened interval
Surge duration: minimum 10 minutes? Yes / No
Purge method: disposable bailer / peristaltic pump / submersible pump / other
Pump Depth (ft BTOC): 7.59
Purge until visibly free of sediment? Yes / No
Once water is visually free of sediment (to the degree practicable), run water through a YSI flow through cell until water quality parameters stabilize.

Start	End	Gallons	FIELD MEASUREMENTS			Notes		
Time		Volume (mL)	pH (±0.1)	Temperature (°C) (±0.2)	Turbidity (NTUs) (±10%)	Conductivity (uS/cm) (±3%)	Flow Rate (50 - 500 mL/min)	DTW (ft BTOC)
1400	1405	0.63				Surge / ran dry	400 mL/min	6.59
1558	1600	0.60				Surge / ran dry	1385 mL/min	7.00
1630	1634	0.95				Surge / ran dry		7.00
5/2/24 0940					153			6.76

This well is slow to recharge after purging 3 well volumes. Sample will be taken @ 940 on 5/2/24

Water quality parameters are considered stable when three successive readings, collected 3-5 minutes apart, are within the criteria mentioned above (highlighted blue).

Did well purge dry? (Yes) / No
If purged dry, did well recharge? (Yes) / No
If well does not recharge (or recharges very slowly), add one well casing volume of potable water and surge (10 minutes) and surge/purge a second time.
Did well purge dry a second time? (Yes) / No
If well purges dry a second time, the development process is complete.
Approximate volume purged (gallons): 1.98

Signed: Date:
Signed/reviewer: Date:

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APPENDIX E
DATA REVIEW CHECKLISTS AND LABORATORY DATA

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ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	1241636
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	4/24/24

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☐ No ☒ N/A ☐
   Analyses requested: We requested DRO-SG only and put the DRO analysis on hold., but the lab ran both.
   Comments: The laboratory notified us that they needed to run DRO as well to identify if the chromatogram was representative of fuel or biogenics.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐

Cooler temperature(s): Not Recorded
Sample temperature(s): 2.0 C
Comments: Temperature Blank measurement

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Preservative not required for this analysis.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no issues with the sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: The data quality or usability is not affected.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments:
.AK102 Surrogate recovery for 5a-androstane for sample RIR24SS106SP203 (1241636006) PS does not meet QC criteria due to matrix interference

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: The QC failure in the DRO analysis (only) was due to sample matrix.

d. What is the effect on data quality/usability according to the case narrative?
Comments: None. The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics. Further examination of the results shows that the DRO-SG result was estimated between the LOD and LOQ.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: We requested DRO-SG only. We also needed DRO analysis, so those samples were taken off hold and analyzed for DRO at the same time.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. All method blanks met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

v. Data quality or usability affected?

Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for Metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: RPD LCS/LCSD <20%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged/

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected .

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK

Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☒ N/A ☐
Comments: The DRO surrogate recovery for sample RIR24SS106SP203 was greater than 200%.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Data quality is impacted. Because the DRO surrogate %R was greater than 200% the result is quantitatively unreliable and typically would be rejected. However, because part of the project objectives is to assess biogenic impacts to soil DRO results, these data may be used qualitatively only and will be flagged QR to indicate these results are rejected for quantitative use.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not submitted for DRO/DRO-SG analyses.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed

iii. If above LoQ or RL, what samples are affected?
Comments: None. Trip blanks were not analyzed

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐

Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☐ No ☐ N/A ☒
Comments: RPD for duplicates could not be calculated because results were below PQLs.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: All results, except one, were below PQLs. The single result above PQL was DRO in sample RIR24SS106SP203; the DRO-SG result was below the PQL.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were submitted for analysis.

iii. If above LoQ or RL, specify what samples are affected.
Comments: None. Decontamination or equipment blanks were not analyzed

iv. Are data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐

Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	1241659
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	4/30/24

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☐ No ☒ N/A ☐
   Analyses requested: We requested DRO-SG only and put the DRO analysis on hold, but the lab ran both.
   Comments: The laboratory notified us that they needed to run DRO as well to identify if the chromatogram was representative of fuel or biogenics.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐

Cooler temperature(s): Not Recorded
Sample temperature(s): 2.5 C
Comments: Temperature Blank measurement

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Preservative not required for this analysis.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no issues with the sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies, errors, or QC failures.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: There were no corrective actions to take.

d. What is the effect on data quality/usability according to the case narrative?
Comments: There is no effect on data quality/usability

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐

Comments: We requested DRO-SG only. We also needed DRO analysis, so those samples were taken off hold and analyzed for DRO at the same time. Additionally, not all samples were analyzed due to the fact decisions were being made by the field team and the FAA client regarding which samples were to be analyzed next, based on the analytical results from the prior work order.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. All method blanks met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

v. Data quality or usability affected?
Yes ☐ No ☒ N/A ☐

Comments: The data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☒
Comments: Samples were not analyzed for Metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☐ No ☒ N/A ☐
Comments: RPD LCS/LCSD <20%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for Metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: MS/MS RPD <50%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality and usability are not affected.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not submitted for DRO/DRO-SG.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed.

iii. If above LoQ or RL, what samples are affected?
Comments: None. Trip blanks were not analyzed.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: The data quality or usability is not affected.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☐ No ☒ N/A ☐
Comments: RPD for field duplicate samples could not be calculated because results were below the PQL. The lab sample duplicate for %solids, 1241659030DUP (1760880) DUP, did not meet RPD criteria due to matrix.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected. All DRO-SG results were below the cleanup level.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: Decontamination or equipment blanks were not collected.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Decontamination or equipment blanks were not analyzed.

iii. If above LoQ or RL, specify what samples are affected.
Comments: None. Decontamination or equipment blanks were not analyzed

iv. Are data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	1241686
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	4/26/2024

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: We requested DRO-SG only and put the DRO analysis on hold, but the lab ran both.
   Comments: The laboratory notified us that they needed to run DRO as well to identify if the chromatogram was representative of fuel or biogenics

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐

Cooler temperature(s): Not Recorded
Sample temperature(s): 4.2 C
Comments: Temperature Blank measurement

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Preservative not required for this analysis

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no issues with the sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☒ N/A ☐
Comments: There were no discrepancies

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: AK102 surrogate recovery for 5a-androstane for sample RIR24SS144SP502 (1241686007) PS does not meet QC criteria due to matrix interference.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: The QC failure in the DRO analysis was due to sample matrix.

d. What is the effect on data quality/usability according to the case narrative?
Comments: None. The surrogate recovery in the DRO-SG analysis met criteria. The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: We requested DRO-SG only. We also needed DRO analysis, so those samples were taken off hold and analyzed for DRO at the same time.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. All method blanks met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

v. Data quality or usability affected?

Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: RPD LCS/LCSD <20%

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: Project wide, 6 soil MS/D pairs were collected, and 4 pairs were analyzed. There were 78 primary soil samples analyzed.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data need not need to be flagged.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality and usability are not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☒ N/A ☐
Comments: Sample RIR24SS144SP502 DRO surrogate %R was greater than 150% (between 150% and 200%).

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: Data quality is impacted, and the result will be flagged as estimated. Usability is not affected.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not submitted for DRO/DRO-SG analysis.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed.

iii. If above LoQ or RL, what samples are affected?
Comments: None. Trip blanks were not analyzed.

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability are no affected.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☐ No ☐ N/A ☒
Comments: Field duplicate RPDs could not be calculated as all results for these samples were below the PQL.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: Data quality and usability are not affected as the LCS/LCSDs and the MS/MSD met criteria.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were submitted for analysis.

iii. If above LoQ or RL, specify what samples are affected.
Comments: None. Decontamination or equipment blanks were not analyzed.

iv. Are data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability are not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	241713
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	5/6/2024

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: We requested DRO-SG only and put the DRO analysis on hold, but the lab ran both.
   Comments: The laboratory notified us that they needed to run DRO as well to identify if the chromatogram was representative of fuel or biogenics

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐

Cooler temperature(s): Not Recorded
Sample temperature(s): 1.8 C
Comments: Temperature Blank measurement

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Preservative not required for this analysis.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☒ N/A ☐
Comments: There were no issues with the sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: AK102 Surrogate recovery for 5a-androstane for samples RIR24SS179SP901 and its field duplicate RIR24SS179SP9019, RIR24SS181SP91.5 and its MS/MSD pair, RIR24SS184SP101.5, RIR24SS188SP51.5, RIR24SS195SP101, and RIR24SS199SP902. However, per the report page the surrogate %R for sample RIR24SS199SP902 is not outside of criteria.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: The QC failure in the DRO analysis was due to sample matrix

d. What is the effect on data quality/usability according to the case narrative?
Comments: None. The surrogate recovery in the DRO-SG analysis met criteria. The hydrocarbon pattern for DRO was either identified as a middle distillate or unknown, and RRO is consistent with biogenics one.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: We requested DRO-SG only. We also needed DRO analysis, so those samples were taken off hold and analyzed for DRO at the same time

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. All method blanks met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged

v. Data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments:

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: LCS/LCSD RPD < 20%

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged .

vii. Is the data quality or usability affected?

Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: In this work order, there was 1 MS/MSD pair for the 28 primary samples. However, project-wide, there were 113 primary DRO samples and 6 MS/MSD pairs analyzed, and 80 DRO-SG and 4 MS/MSD pairs analyzed.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☒ N/A ☐
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☐ No ☒ N/A ☐
Comments: %R for the DRO MS was below and the MSD was above %R criteria, while the MS/MSD for the DRO silica gel analysis met %R criteria.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: MS/MSD and field duplicate RPDs were <50%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: DRO for sample RIR24SS181SP91.5.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☒ N/A ☐
Comments: The sample result was not flagged by the lab.

vii. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: The DRO sample result was almost twice the result for the DRO-SG and was impacted by high %R for the surrogate.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☒ N/A ☐
Comments:
The surrogate %R was between 150% and 200% for samples RIR24SS184SP101.5 MS/MSD, and RIR24SS188SP51.5. These DRO results will be qualified as estimated due to out-of-control surrogate recovery.

The surrogate %R was greater than 200% for samples RIR24SS179SP901 RIR24SS179SP9019 (field duplicate of preceding sample), RIR24SS181SP91.5, RIR24SS184SP101.5, and RIR24SS195SP101 These DRO results are quantitatively unreliable and typically would be rejected. However, because part of the project objectives is to assess biogenic impacts to soil DRO results, these data may be used qualitatively only and will be flagged QR to indicate these results are rejected for quantitative use.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: See comments under d. ii Accuracy.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not submitted for DRO and DRO-SG analyses.

ii. Are all results less than LoQ or RL?

Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed.

iii. If above LoQ or RL, what samples are affected?
Comments: None. Trip blanks were not analyzed

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☐ No ☒ N/A ☐
Comments: There is one field duplicate for DRO-SG and 2 duplicates for DRO. Project-wide there are 113 DRO samples and 10 field duplicates, and 80 primary DRO-SG samples and 8 field duplicates.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were submitted for analysis.

iii. If above LoQ or RL, specify what samples are affected.
Comments: None. Decontamination or equipment blanks were not analyzed.

iv. Are data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	1241732
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	12/4/2024

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Click or tap here to enter text.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: We requested DRO-SG only and put the DRO analysis on hold, but the lab ran both. Total organic carbon was requested for 2 samples.
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): Not Recorded

Sample temperature(s): 2.3 C
Comments: Temperature Blank

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☐ N/A ☒
Comments: The were no issues with sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality and usability are not affected

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: TOC MS failure. Also, surrogate %R failed for a number of samples
Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: There were no corrective actions to document

c. What is the effect on data quality/usability according to the case narrative?
Comments: None. LCS/D should be used for accuracy

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality and usability are not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. Method Blank met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

v. Data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: 1 LCS for TOC method 9060

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and %RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: The data quality or usability is not affected

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: No MSD for TOC.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☐ No ☒ N/A ☐
Comments: MS %R for TOC sample RIR24SS209BKG102 did not meet criteria.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: TOC sample RIR24SS209BKG102

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

vii. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: The TOC result for sample RIR24SS209BKG102 is considered estimated. Usability is not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☒ N/A ☐
Comments: The following samples had surrogate %R between 150% and 200%: RIR24SS203SP902, RIR24SS210BKG13.5, RIR24SS211SP21.5,

RIR24SS216SP905, and RIR24SS217SP91.5. These DRO results will be qualified as estimated due to out-of-control surrogate recovery.
The following samples had surrogate %R greater than 200%: RIR24SS205SP901, RIR24SS209BKG102, RIR24SS213SP902, RIR24SS214SP902, and RIR24SS215SP902. These DRO results are quantitatively unreliable and typically would be rejected. However, because part of the project objectives is to assess biogenic impacts to soil DRO results, these data may be used qualitatively only and will be flagged QR to indicate these results are rejected for quantitative use.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☒ No ☐ N/A ☐
Comments: See comments under d. ii Accuracy.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip Blanks are not required for DRO DRO-SG method

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed

iii. If above LoQ or RL, what samples are affected?
Comments: NA

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Trip Blanks are not required for DRO DRO-SG method

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Project QC sample count meets criteria. In this lab WO these is one FD for more than 10 primary samples.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐

Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☐ N/A ☒
Comments: Data quality or usability is not affected.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: Equipment blanks were not collected or submitted for analysis

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Equipment blanks were not collected or submitted for analysis

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	SGS North America, Anchorage
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	1241880
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	5/29/24

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: DRO
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): Not Recorded
   Sample temperature(s): 4.0 C

Comments: Temperature Blank measurement

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no issues with the sample condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: There were no discrepancies.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Data quality or usability is not affected.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: MS/MSD QC failures.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: The MS/MSD QC failures for the surface water and the groundwater spiked samples were likely due to sample matrix based on the project DRO/DRO-SG soil results.

d. What is the effect on data quality/usability according to the case narrative?
Comments: None. Refer LCS/LCSD for accuracy requirements.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments:

Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all soils reported on a dry weight basis?
Yes ☐ No ☐ N/A ☒
Comments: Samples were ground water and surface water.

c. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: None. All method blanks met criteria.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged

v. Data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments:

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: LCS/LCSD RPD < 20%

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. %R and RPD met criteria.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The data did not need to be flagged .

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Samples were not analyzed for metals.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☐ No ☒ N/A ☐
Comments: The MSD %R for project sample RIR24MW001 does not meet QC criteria. The MS %R for project sample RIR24SW000SP7-1 does not meet QC criteria. In both cases, the %R was 73% instead of the required 75%.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: The MS/MSD RPDs were <30%.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: None. MS/MSD RPDs were <30%.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☒ N/A ☐
Comments: The sample results were not flagged by the lab.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Sample results were below the LOD.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☒
Comments: Surrogate %R were within criteria.

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Surrogate %Rs were within criteria.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not submitted for DRO analysis.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks were not analyzed.

iii. If above LoQ or RL, what samples are affected?
Comments: None. Trip blanks were not analyzed

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Is the data quality or usability affected? (Explain)

Yes ☐ No ☐ N/A ☒
Comments: The RPDs for the field duplicates could not be calculated because results were below the PQL.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: No decontamination or equipment blanks were collected.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: No decontamination or equipment blanks were submitted for analysis.

iii. If above LoQ or RL, specify what samples are affected.
Comments: None. Decontamination or equipment blanks were not analyzed.

iv. Are data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability is not affected.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Julie Dahl	**CS Site Name:**	FAA Ralston Island Former Radio Range Facility	**Lab Name:**	Eurofins Seattle
Title:	Environmental Scientist	**ADEC File No.:**	1531.38.007	**Lab Report No.:**	580-144975
Consulting Firm:	TALCES JV, LLC	**Hazard ID No.:**	25376	**Lab Report Date:**	10/29/24

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Samples were not transferred or subcontracted to another lab.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: DRO and DRO with silica gel cleanup
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): 4.1 C
   Sample temperature(s): 1.4 C

Comments: Temperature blank

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: The samples were received in good condition.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: The samples were received in good condition.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Were all the corrective actions documented?
Yes ☒ No ☐ N/A ☐
Comments: All samples required the addition of 40 mL of extraction solvent (MeCL2).

d. What is the effect on data quality/usability according to the case narrative?
Comments: The case narrative does not identify any effect on data quality or usability due to the additional solvent.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability are not affected.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: No method blank results were above the LOQ or RL.

v. Data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: No method blank results were above the LOQ or RL.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☐ No ☒ N/A ☐
Comments: The lab only ran an LCS.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Metals analysis was not requested.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☐ No ☐ N/A ☒
Comments: RPD could not be calculated as an LCS was not analyzed.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: RPD could not be calculated as an LCS was not analyzed.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Because an LCSD as not analyzed, the RPDs for MS/MSD samples were evaluated and meet the LCS/LCSD evaluation criteria. The MS/MSD RPDs will be used to evaluate reproducibility.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Metals were not analyzed.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: The RPDs met criteria.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Data quality or usability are not affected.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: Surrogate recoveries for all samples met criteria.

iv. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: The data quality or usability is not affected.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☒
Comments: Trip blanks are not required for the DRO DRO-SG methods.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks are not analyzed

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Trip blanks are not required for the DRO DRO-SG methods.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☐ N/A ☒
Comments: Data quality or usability is not affected.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Equipment blanks were not collected or submitted for analysis.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Equipment blanks were not collected or submitted for analysis.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241636**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241636**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24SS101SP11.5 (1241636001) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS102SP102 (1241636002) PS

AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

RIR24SS103SP103 (1241636003) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS104SP102 (1241636004) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS105SP21.5 (1241636005) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS106SP203 (1241636006) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.
AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

RIR24SS107SP202 (1241636007) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS108SP202 (1241636008) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS108SP2029 (1241636011) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS109SP21.5 (1241636012) PS

AK102/103 - The hydrocarbon pattern is unknown.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Member of SGS Group

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

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SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS101SP11.5	1241636001	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS102SP102	1241636002	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS103SP103	1241636003	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS104SP102	1241636004	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS105SP21.5	1241636005	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS106SP203	1241636006	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS107SP202	1241636007	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS108SP202	1241636008	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS108SP202(1241636008I	1241636009	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS108S...(1241636008BM	1241636010	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS108SP2029	1241636011	04/22/2024	04/23/2024	Soil/Solid (dry weight)
RIR24SS109SP21.5	1241636012	04/22/2024	04/23/2024	Soil/Solid (dry weight)

Method	Method Description
AK102	Diesel Range Organics (S) 2
AK102	Diesel Range Organics w/ Silica Gel
SM21 2540G	Percent Solids SM2540G

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Detectable Results Summary

Client Sample ID: **RIR24SS102SP102**
Lab Sample ID: 1241636002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	11.8J	mg/kg

Client Sample ID: **RIR24SS103SP103**
Lab Sample ID: 1241636003

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.2J	mg/kg

Client Sample ID: **RIR24SS104SP102**
Lab Sample ID: 1241636004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.0J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.3J	mg/kg

Client Sample ID: **RIR24SS105SP21.5**
Lab Sample ID: 1241636005

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.4J	mg/kg

Client Sample ID: **RIR24SS106SP203**
Lab Sample ID: 1241636006

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	294	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	30.7J	mg/kg

Client Sample ID: **RIR24SS107SP202**
Lab Sample ID: 1241636007

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	15.9J	mg/kg

Client Sample ID: **RIR24SS108SP202**
Lab Sample ID: 1241636008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	20.1J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.9J	mg/kg

Client Sample ID: **RIR24SS108SP2029**
Lab Sample ID: 1241636011

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	24.5J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.0J	mg/kg

Client Sample ID: **RIR24SS109SP21.5**
Lab Sample ID: 1241636012

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	19.9J	mg/kg

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Results of **RIR24SS101SP11.5**

Client Sample ID: **RIR24SS101SP11.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636001
Lab Project ID: 1241636

Collection Date: 04/22/24 13:30
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):83.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.9	U	23.8	10.7	17.9	mg/kg	1		04/23/24 14:29
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/23/24 14:29

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 14:29
Container ID: 1241636001-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.644 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS101SP11.5**

Client Sample ID: **RIR24SS101SP11.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636001
Lab Project ID: 1241636

Collection Date: 04/22/24 13:30
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):83.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.9	U	23.8	10.7	17.9	mg/kg	1		04/23/24 17:32
Surrogates									
5a Androstane (surr)	87.7		50-150			%	1		04/23/24 17:32

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 17:32
Container ID: 1241636001-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.644 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS102SP102**

Client Sample ID: **RIR24SS102SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636002
Lab Project ID: 1241636

Collection Date: 04/22/24 13:51
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	11.8	J	23.0	10.3	17.3	mg/kg	1		04/23/24 14:39
Surrogates									
5a Androstane (surr)	101		50-150			%	1		04/23/24 14:39

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 14:39
Container ID: 1241636002-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.632 g
Prep Extract Vol: 2 mL

Results of **RIR24SS102SP102**

Client Sample ID: **RIR24SS102SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636002
Lab Project ID: 1241636

Collection Date: 04/22/24 13:51
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):86.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.3	U	23.0	10.3	17.3	mg/kg	1		04/23/24 17:42
Surrogates									
5a Androstane (surr)	90		50-150			%	1		04/23/24 17:42

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 17:42
Container ID: 1241636002-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.632 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS103SP103**

Client Sample ID: **RIR24SS103SP103**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636003
Lab Project ID: 1241636

Collection Date: 04/22/24 14:12
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.9	U	23.9	10.8	17.9	mg/kg	1		04/23/24 14:50
Surrogates									
5a Androstane (surr)	95.8		50-150			%	1		04/23/24 14:50

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 14:50
Container ID: 1241636003-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.921 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS103SP103**

Client Sample ID: **RIR24SS103SP103**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636003
Lab Project ID: 1241636

Collection Date: 04/22/24 14:12
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.2	J	23.9	10.8	17.9	mg/kg	1		04/23/24 17:52
Surrogates									
5a Androstane (surr)	98.3		50-150			%	1		04/23/24 17:52

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 17:52
Container ID: 1241636003-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.921 g
Prep Extract Vol: 2 mL

Results of **RIR24SS104SP102**

Client Sample ID: **RIR24SS104SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636004
Lab Project ID: 1241636

Collection Date: 04/22/24 14:27
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):81.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.0	J	24.2	10.9	18.1	mg/kg	1		04/23/24 15:00
Surrogates									
5a Androstane (surr)	110		50-150			%	1		04/23/24 15:00

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 15:00
Container ID: 1241636004-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.738 g
Prep Extract Vol: 2 mL

Results of **RIR24SS104SP102**

Client Sample ID: **RIR24SS104SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636004
Lab Project ID: 1241636

Collection Date: 04/22/24 14:27
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):81.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.3	J	24.2	10.9	18.1	mg/kg	1		04/23/24 18:02
Surrogates									
5a Androstane (surr)	91.2		50-150			%	1		04/23/24 18:02

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 18:02
Container ID: 1241636004-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.738 g
Prep Extract Vol: 2 mL

Results of **RIR24SS105SP21.5**

Client Sample ID: **RIR24SS105SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636005
Lab Project ID: 1241636

Collection Date: 04/22/24 14:40
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.1	U	24.2	10.9	18.1	mg/kg	1		04/23/24 15:10
Surrogates									
5a Androstane (surr)	104		50-150			%	1		04/23/24 15:10

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 15:10
Container ID: 1241636005-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.899 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS105SP21.5**

Client Sample ID: **RIR24SS105SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636005
Lab Project ID: 1241636

Collection Date: 04/22/24 14:40
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.4	J	24.2	10.9	18.1	mg/kg	1		04/23/24 18:12
Surrogates									
5a Androstane (surr)	107		50-150			%	1		04/23/24 18:12

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 18:12
Container ID: 1241636005-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.899 g
Prep Extract Vol: 2 mL

Results of **RIR24SS106SP203**

Client Sample ID: **RIR24SS106SP203**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636006
Lab Project ID: 1241636

Collection Date: 04/22/24 14:42
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):56.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	294		34.8	15.7	26.1	mg/kg	1		04/23/24 15:20
Surrogates									
5a Androstane (surr)	222	*	50-150			%	1		04/23/24 15:20

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 15:20
Container ID: 1241636006-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.868 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS106SP203**

Client Sample ID: **RIR24SS106SP203**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636006
Lab Project ID: 1241636

Collection Date: 04/22/24 14:42
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):56.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	30.7	J	34.8	15.7	26.1	mg/kg	1		04/23/24 18:23
Surrogates									
5a Androstane (surr)	99		50-150			%	1		04/23/24 18:23

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 18:23
Container ID: 1241636006-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.868 g
Prep Extract Vol: 2 mL

Results of **RIR24SS107SP202**

Client Sample ID: **RIR24SS107SP202**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636007
Lab Project ID: 1241636

Collection Date: 04/22/24 14:54
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):86.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	15.9	J	22.9	10.3	17.2	mg/kg	1		04/23/24 15:30
Surrogates									
5a Androstane (surr)	94.6		50-150			%	1		04/23/24 15:30

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 15:30
Container ID: 1241636007-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.857 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS107SP202**

Client Sample ID: **RIR24SS107SP202**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636007
Lab Project ID: 1241636

Collection Date: 04/22/24 14:54
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):86.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.2	U	22.9	10.3	17.2	mg/kg	1		04/23/24 18:32
Surrogates									
5a Androstane (surr)	87.7		50-150			%	1		04/23/24 18:32

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 18:32
Container ID: 1241636007-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.857 g
Prep Extract Vol: 2 mL

Results of **RIR24SS108SP202**

Client Sample ID: **RIR24SS108SP202**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636008
Lab Project ID: 1241636

Collection Date: 04/22/24 15:12
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	20.1	J	24.0	10.8	18.0	mg/kg	1		04/23/24 15:41
Surrogates									
5a Androstane (surr)	109		50-150			%	1		04/23/24 15:41

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 15:41
Container ID: 1241636008-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.654 g
Prep Extract Vol: 2 mL

Print Date: 04/24/2024 1:47:44PM

J flagging is activated

Results of **RIR24SS108SP202**

Client Sample ID: **RIR24SS108SP202**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636008
Lab Project ID: 1241636

Collection Date: 04/22/24 15:12
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.9	J	24.0	10.8	18.0	mg/kg	1		04/23/24 18:42
Surrogates									
5a Androstane (surr)	92.4		50-150			%	1		04/23/24 18:42

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 18:42
Container ID: 1241636008-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.654 g
Prep Extract Vol: 2 mL

Results of **RIR24SS108SP2029**

Client Sample ID: **RIR24SS108SP2029**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636011
Lab Project ID: 1241636

Collection Date: 04/22/24 15:13
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	24.5	J	24.9	11.2	18.7	mg/kg	1		04/23/24 16:11
Surrogates									
5a Androstane (surr)	122		50-150			%	1		04/23/24 16:11

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 16:11
Container ID: 1241636011-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 23.049 g
Prep Extract Vol: 2 mL

Print Date: 04/24/2024 1:47:44PM

J flagging is activated

Results of **RIR24SS108SP2029**

Client Sample ID: **RIR24SS108SP2029**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636011
Lab Project ID: 1241636

Collection Date: 04/22/24 15:13
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):78.4
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.0	J	24.9	11.2	18.7	mg/kg	1		04/23/24 19:13
Surrogates									
5a Androstane (surr)	99.3		50-150			%	1		04/23/24 19:13

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 19:13
Container ID: 1241636011-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 23.049 g
Prep Extract Vol: 2 mL

Results of **RIR24SS109SP21.5**

Client Sample ID: **RIR24SS109SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636012
Lab Project ID: 1241636

Collection Date: 04/22/24 16:26
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):87.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	19.9	J	22.5	10.1	16.9	mg/kg	1		04/23/24 16:21
Surrogates									
5a Androstane (surr)	110		50-150			%	1		04/23/24 16:21

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/23/24 16:21
Container ID: 1241636012-A

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.962 g
Prep Extract Vol: 2 mL

Results of **RIR24SS109SP21.5**

Client Sample ID: **RIR24SS109SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241636012
Lab Project ID: 1241636

Collection Date: 04/22/24 16:26
Received Date: 04/23/24 07:36
Matrix: Soil/Solid (dry weight)
Solids (%):87.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	16.9	U	22.5	10.1	16.9	mg/kg	1		04/23/24 19:23
Surrogates									
5a Androstane (surr)	94.4		50-150			%	1		04/23/24 19:23

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/23/24 19:23
Container ID: 1241636012-A

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/23/24 11:23
Prep Initial Wt./Vol.: 22.962 g
Prep Extract Vol: 2 mL

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Method Blank

Blank ID: MB for HBN 1876238 [SPT/12022]
Blank Lab ID: 1760736

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Solids	100				%

Batch Information

Analytical Batch: SPT12022
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT
Analytical Date/Time: 4/23/2024 6:45:00PM

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Duplicate Sample Summary

Original Sample ID: 1241631001
Duplicate Sample ID: 1760737

Analysis Date: 04/23/2024 18:45
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	59.1	54.7	%	7.70	(< 15)

Batch Information

Analytical Batch: SPT12022
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/24/2024 1:47:48PM

Duplicate Sample Summary

Original Sample ID: 1241636012
Duplicate Sample ID: 1760738

Analysis Date: 04/23/2024 18:45
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	87.0	88.1	%	1.30	(< 15)

Batch Information

Analytical Batch: SPT12022
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/24/2024 1:47:48PM

Method Blank

Blank ID: MB for HBN 1876143 [XXX/49355]
Blank Lab ID: 1760580

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	97.8	70-125		0	%

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/23/2024 5:02:00PM

Prep Batch: XXX49355
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/23/2024 11:23:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241636 [XXX49355]
Blank Spike Lab ID: 1760581
Date Analyzed: 04/23/2024 17:12

Spike Duplicate ID: LCSD for HBN 1241636 [XXX49355]
Spike Duplicate Lab ID: 1760582
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	472	106	444	463	104	(70-125)	1.90	(< 20)
Surrogates									
5a Androstane (surr)	8.89		101	8.89		100	(70-125)	1.30	

Batch Information

Analytical Batch: **XFC16826**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49355**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/23/2024 11:23**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241636008
MS Sample ID: 1241636009 BMS
MSD Sample ID: 1241636010 BMSD

Analysis Date: 04/23/2024 18:42
Analysis Date: 04/23/2024 18:53
Analysis Date: 04/23/2024 19:03
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	11.9J	535	489	89	536	579	106	60-140	16.80	(< 50)
Surrogates										
5a Androstane (surr)		10.7	9.52	89	10.7	11.1	104	50-150	15.40	

Batch Information

Analytical Batch: XFC16826
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/23/2024 6:53:00PM

Prep Batch: XXX49355
Prep Method: Sonication Extraction Soil AK102 Silica
Prep Date/Time: 4/23/2024 11:23:00AM
Prep Initial Wt./Vol.: 22.64g
Prep Extract Vol: 2.00mL

Print Date: 04/24/2024 1:47:56PM

Method Blank

Blank ID: MB for HBN 1876144 [XXX/49356]
Blank Lab ID: 1760583

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	95.4	60-120		0	%

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/23/2024 1:59:00PM

Prep Batch: XXX49356
Prep Method: SW3550C
Prep Date/Time: 4/23/2024 11:23:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241636 [XXX49356]
Blank Spike Lab ID: 1760584
Date Analyzed: 04/23/2024 14:09

Spike Duplicate ID: LCSD for HBN 1241636 [XXX49356]
Spike Duplicate Lab ID: 1760585
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241636001, 1241636002, 1241636003, 1241636004, 1241636005, 1241636006, 1241636007, 1241636008, 1241636011, 1241636012

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	518	117	444	498	112	(75-125)	4.00	(< 20)
Surrogates									
5a Androstane (surr)	8.89		110	8.89		106	(60-120)	3.00	

Batch Information

Analytical Batch: **XFC16827**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49356**
Prep Method: **SW3550C**
Prep Date/Time: **04/23/2024 11:23**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241636008
MS Sample ID: 1241636009 BMS
MSD Sample ID: 1241636010 BMSD

Analysis Date: 04/23/2024 15:41
Analysis Date: 04/23/2024 15:51
Analysis Date: 04/23/2024 16:01
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20.1J	535	556	100	536	650	118	60-140	15.60	(< 50)
Surrogates										
5a Androstane (surr)		10.7	10.8	101	10.7	12.6	118	50-150	15.30	

Batch Information

Analytical Batch: XFC16827
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/23/2024 3:51:00PM

Prep Batch: XXX49356
Prep Method: Sonication Extr Soil AK102/3 Reg 2Ml
Prep Date/Time: 4/23/2024 11:23:00AM
Prep Initial Wt./Vol.: 22.64g
Prep Extract Vol: 2.00mL

Print Date: 04/24/2024 1:48:04PM

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CHAIN OF CUSTODY RECORD

1241636

P#409567 GM

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	TALCES JV, LLC		
CONTACT:	Greg DuBois	PHONE #:	1 (907) 830-8360
PROJECT NAME:	Ralston Island RI	PROJECT/ PWSID/ PERMIT#:	697DCK-24-C-00040
REPORTS TO:	Julie Dahl	E-MAIL:	jdahl@alaskapeninsulacorp.com
		Profile #:	
INVOICE TO:	TALCES JV, LLC	QUOTE #:	
		P.O. #:	Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C: AK102 HOLD	Analysis* 4°C: DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
1 A	RIR24SS101SP11.5	4/22/24	1330	SO	1	Grab		X	
2 A	RIR24SS102SP102	4/22/24	1351	SO	1	Grab		X	
3 A	RIR24SS103SP103	4/22/24	1412	SO	1	Grab		X	
4 A	RIR24SS104SP102	4/22/24	1427	SO	1	Grab		X	
5 A	RIR24SS105SP21.5	4/22/24	1440	SO	1	Grab		X	
6 A	RIR24SS106SP203	4/22/24	1442	SO	1	Grab		X	
7 A	RIR24SS107SP202	4/22/24	1454	SO	1	Grab		X	
8 MS A C	RIR24SS108SP202	4/22/24	1512	SO	3	Grab		X	MS/MSD
9 A	RIR24SS108SP2029	4/22/24	1513	SO	1	Grab		X	
10 A	RIR24SS109SP21.5	4/22/24	1626	SO	1	Grab		X	

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Rebel Melrose~~	4/22/24	1700	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/23	0736	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIR001

Requested Turnaround Time and/or Special Instructions:

24 HR * *

Temp Blank °C: 2.0° #D30 or Ambient [ ]

Chain of Custody Seal: (Circle) 1-F, 1-R — INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

http://www.sgs.com/terms-and-conditions

1241636

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SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	(Yes)	No	N/A	
Was temperature between 0-6° C?	(Yes)	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	(Yes)	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	(Yes)	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	(N/A)	
If rush was requested by the client, was the requested TAT approved?	(Yes)	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	(N/A)	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	(Yes)	No	N/A	
If provided on containers, do dates/times collected match COC?	(Yes)	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	(Yes)	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	(Yes)	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	(N/A)	
Were all VOA vials free of headspace >6mm?	Yes	No	(N/A)	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	(N/A)	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	(N/A)	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	(Yes)	No	N/A	MS/MSD
For Rush/Short Holding time, was the lab notified?	(Yes)	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	(N/A)	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	(N/A)	Reviewer Initials:

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

AK102 + AK102 w/ SGCU will be performed.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241636001-A	No Preservative Required	OK			
1241636002-A	No Preservative Required	OK			
1241636003-A	No Preservative Required	OK			
1241636004-A	No Preservative Required	OK			
1241636005-A	No Preservative Required	OK			
1241636006-A	No Preservative Required	OK			
1241636007-A	No Preservative Required	OK			
1241636008-A	No Preservative Required	OK			
1241636008-B	No Preservative Required	OK			
1241636008-C	No Preservative Required	OK			
1241636009-A	No Preservative Required	OK			
1241636009-B	No Preservative Required	OK			
1241636009-C	No Preservative Required	OK			
1241636010-A	No Preservative Required	OK			
1241636010-B	No Preservative Required	OK			
1241636010-C	No Preservative Required	OK			
1241636011-A	No Preservative Required	OK			
1241636012-A	No Preservative Required	OK			

Container Condition Glossary

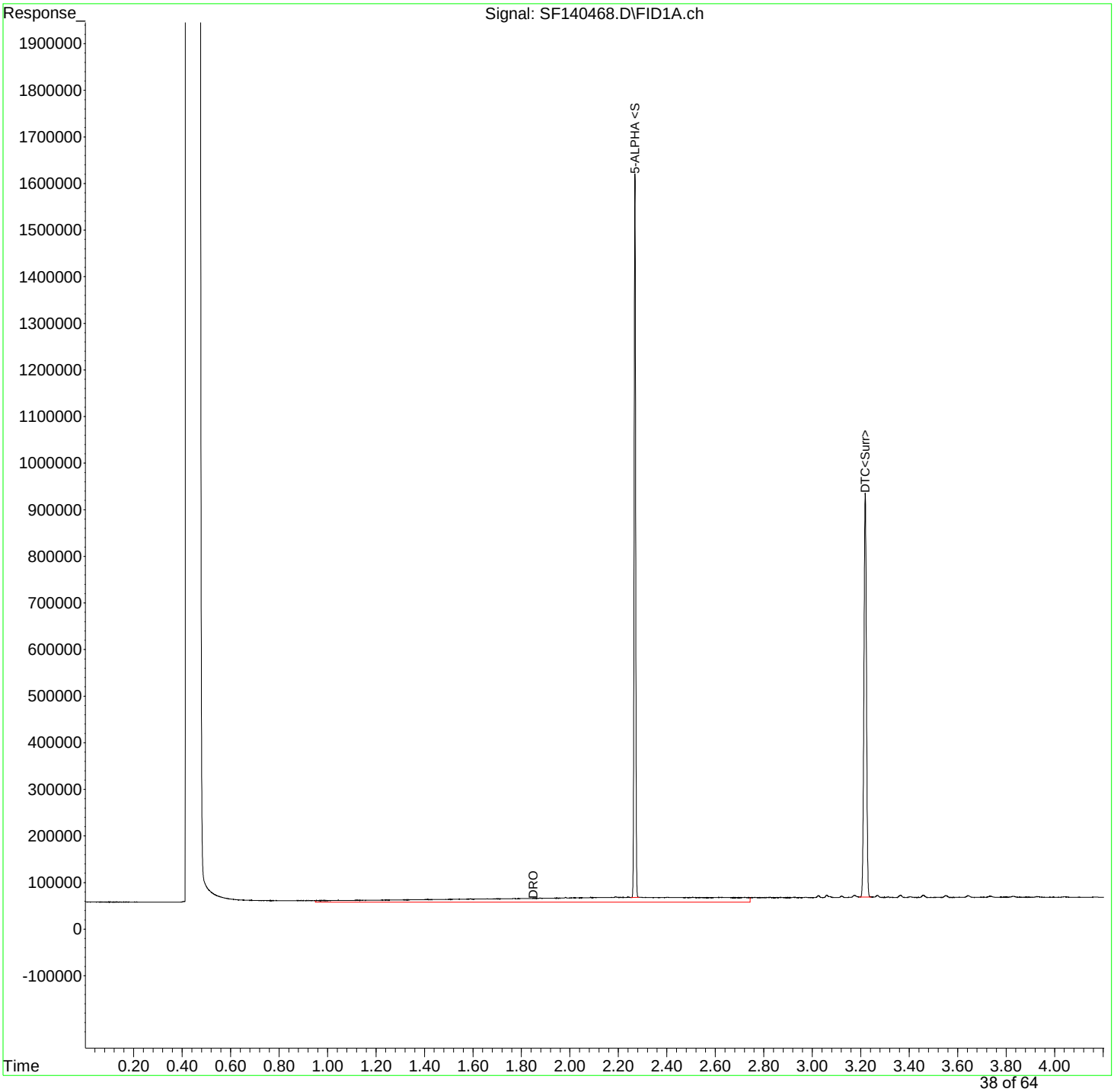
Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140468.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 10:29
Operator : BRP
Sample : IB
Misc :
ALS Vial : 147 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 11:26:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

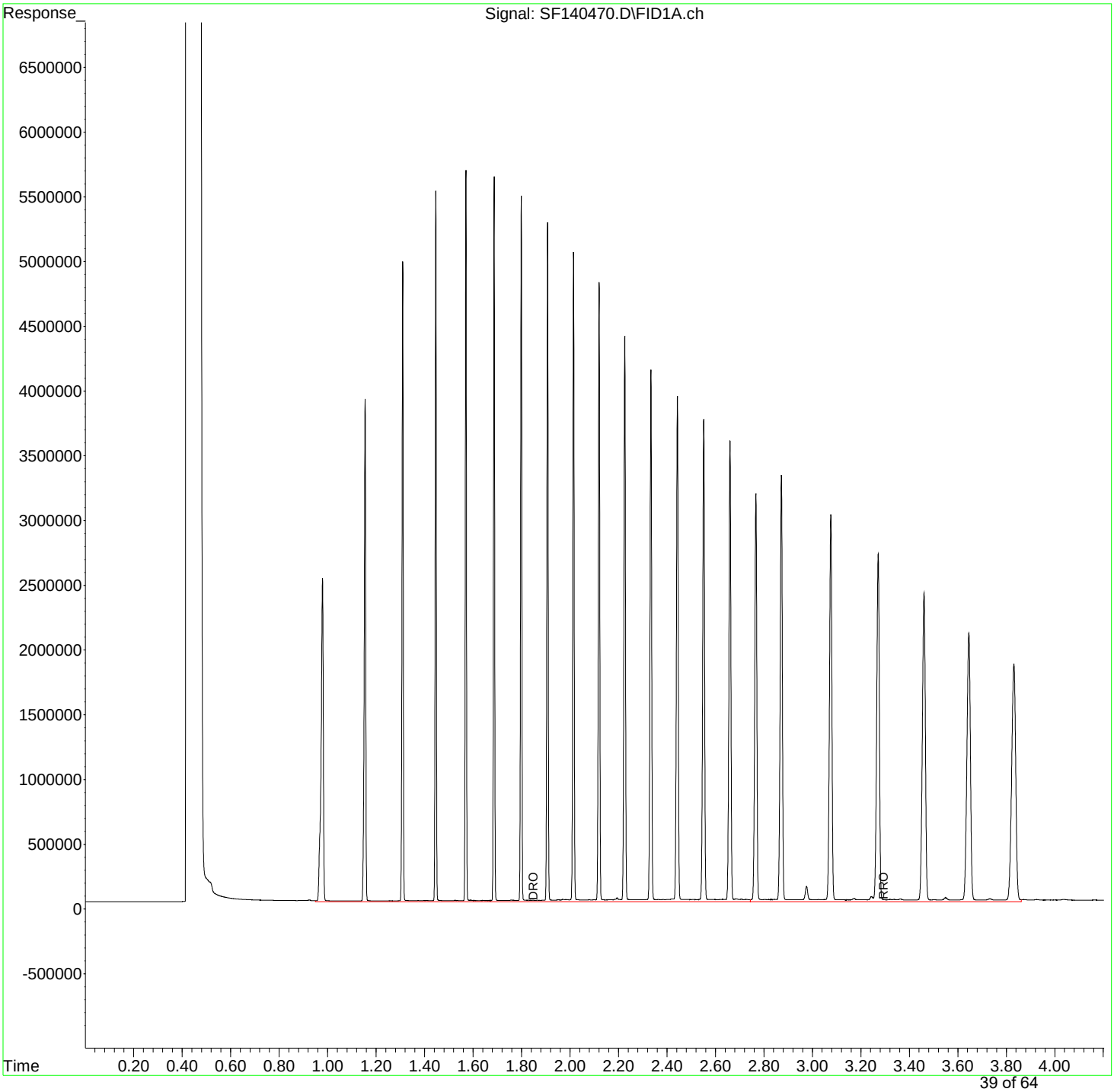
Volume Inj. :
Signal Phase :
Signal Info :



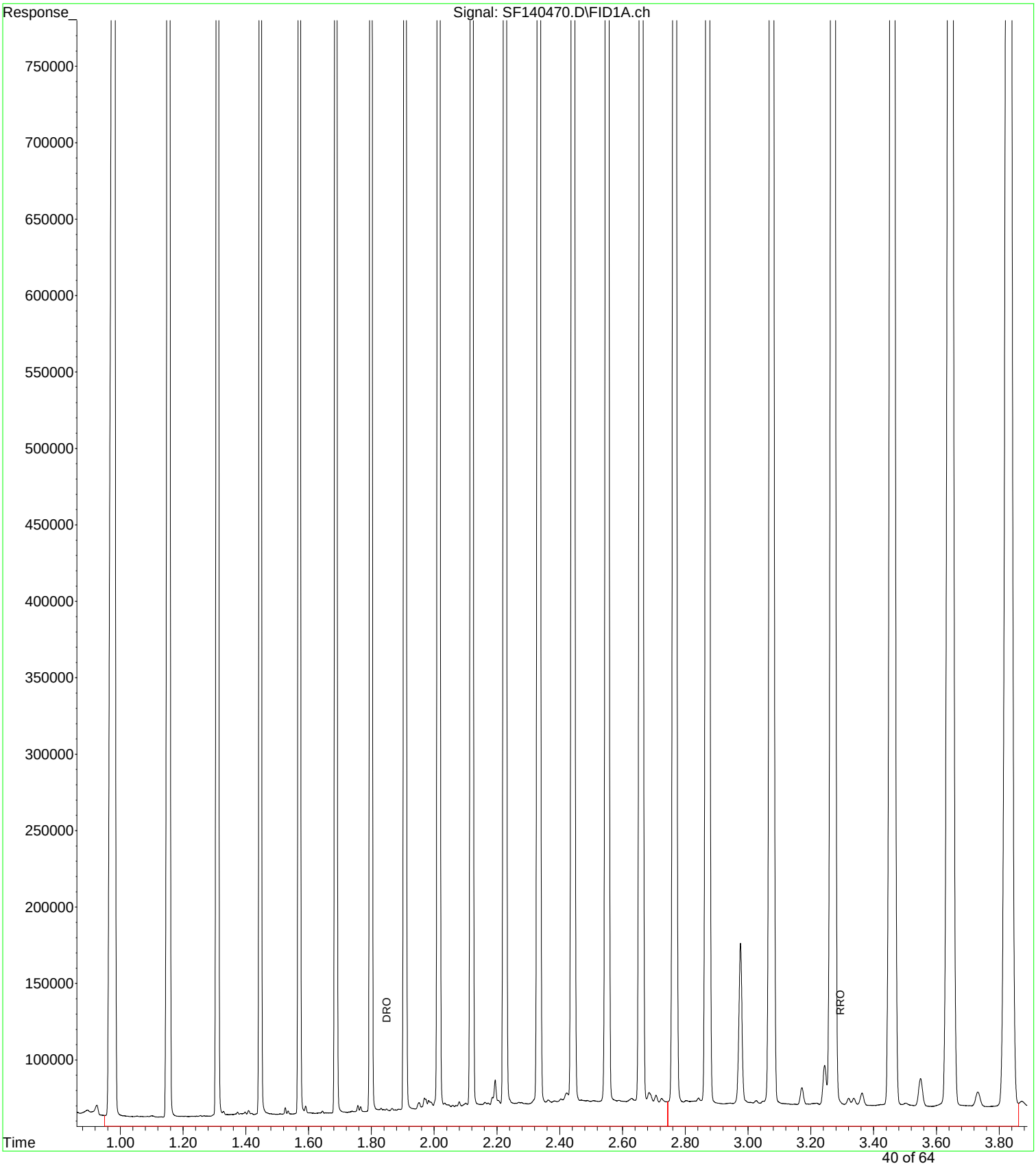
Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140470.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 10:39
Operator : BRP
Sample : NAS
Misc :
ALS Vial : 148 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 17:37:02 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



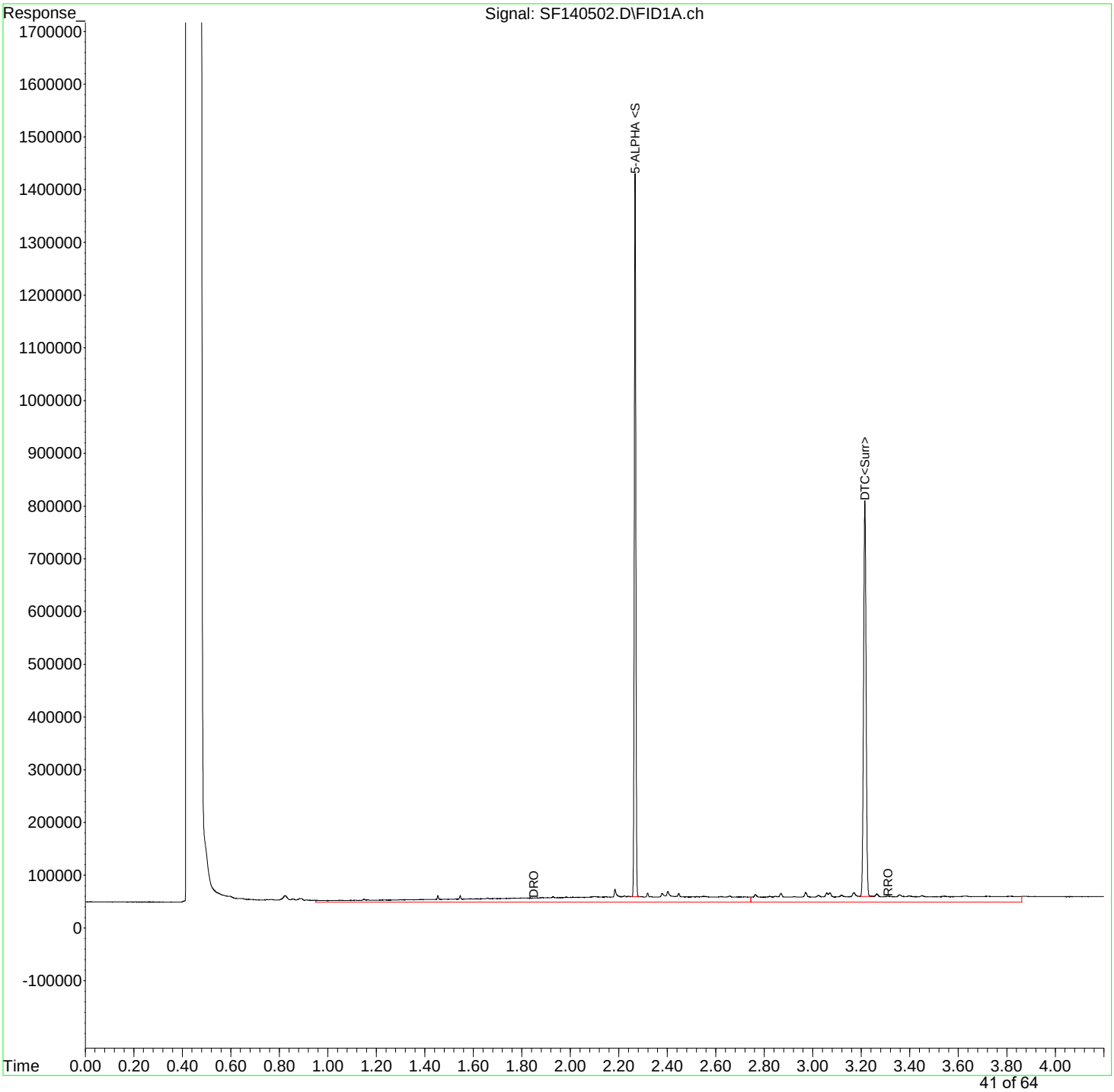
File :Z:\DATA\SF\Data\SF04232024\SF140470.D
Operator : BRP
Acquired : 23 Apr 2024 10:39 using AcqMethod SF_MXTDUAL_2023.M
Instrument : SF
Sample Name: NAS
Misc Info :
Vial Number: 148



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140502.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 13:59
Operator : BRP
Sample : 1760583 MB 49356
Misc :
ALS Vial : 136 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 17:38:30 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

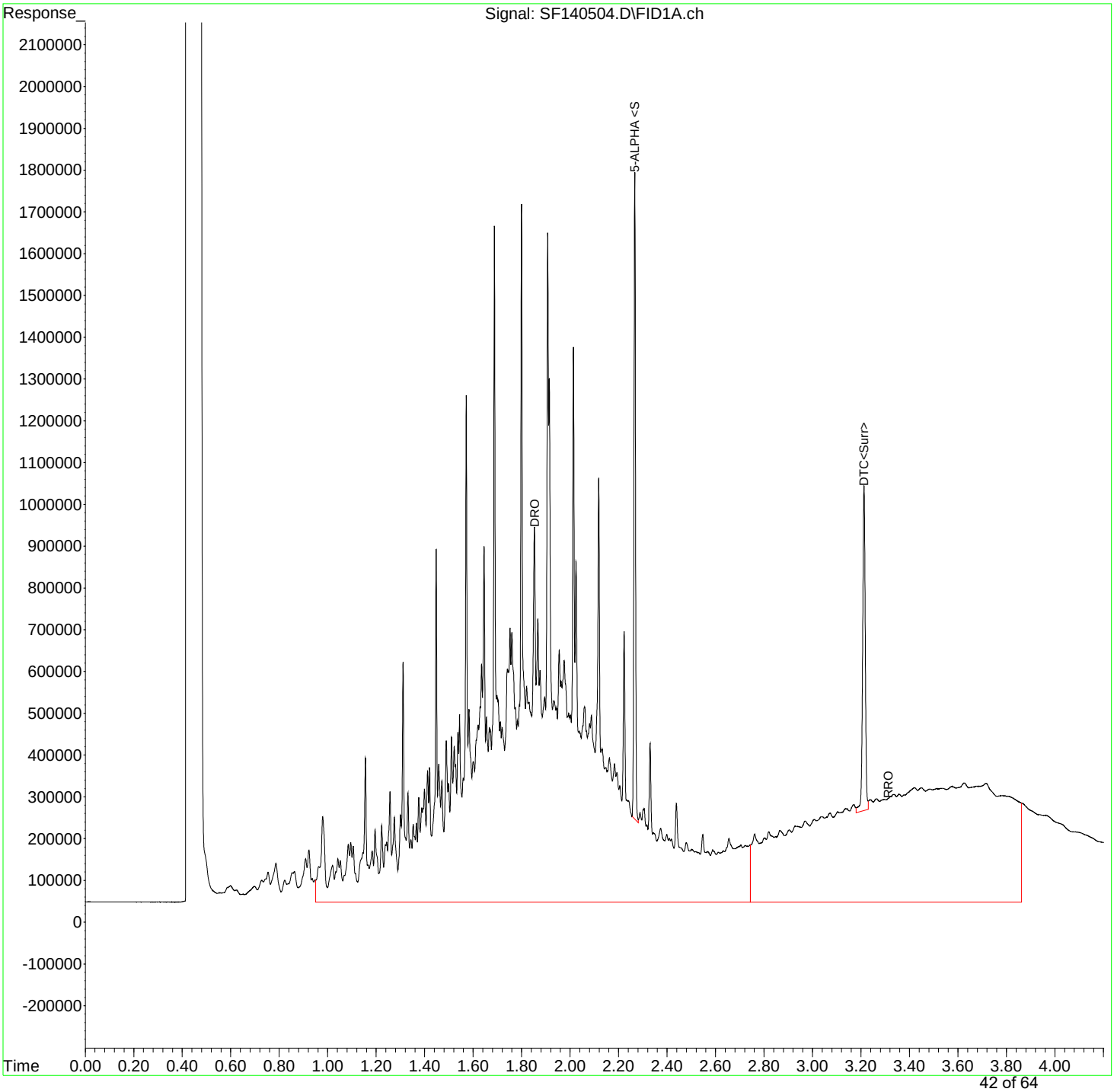
Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140504.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 14:09
Operator : BRP
Sample : 1760584 LCS 49356
Misc :
ALS Vial : 135 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 17:38:39 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140508.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 14:29
Operator : BRP
Sample : 1241636001
Misc :
ALS Vial : 133 Sample Multiplier: 1

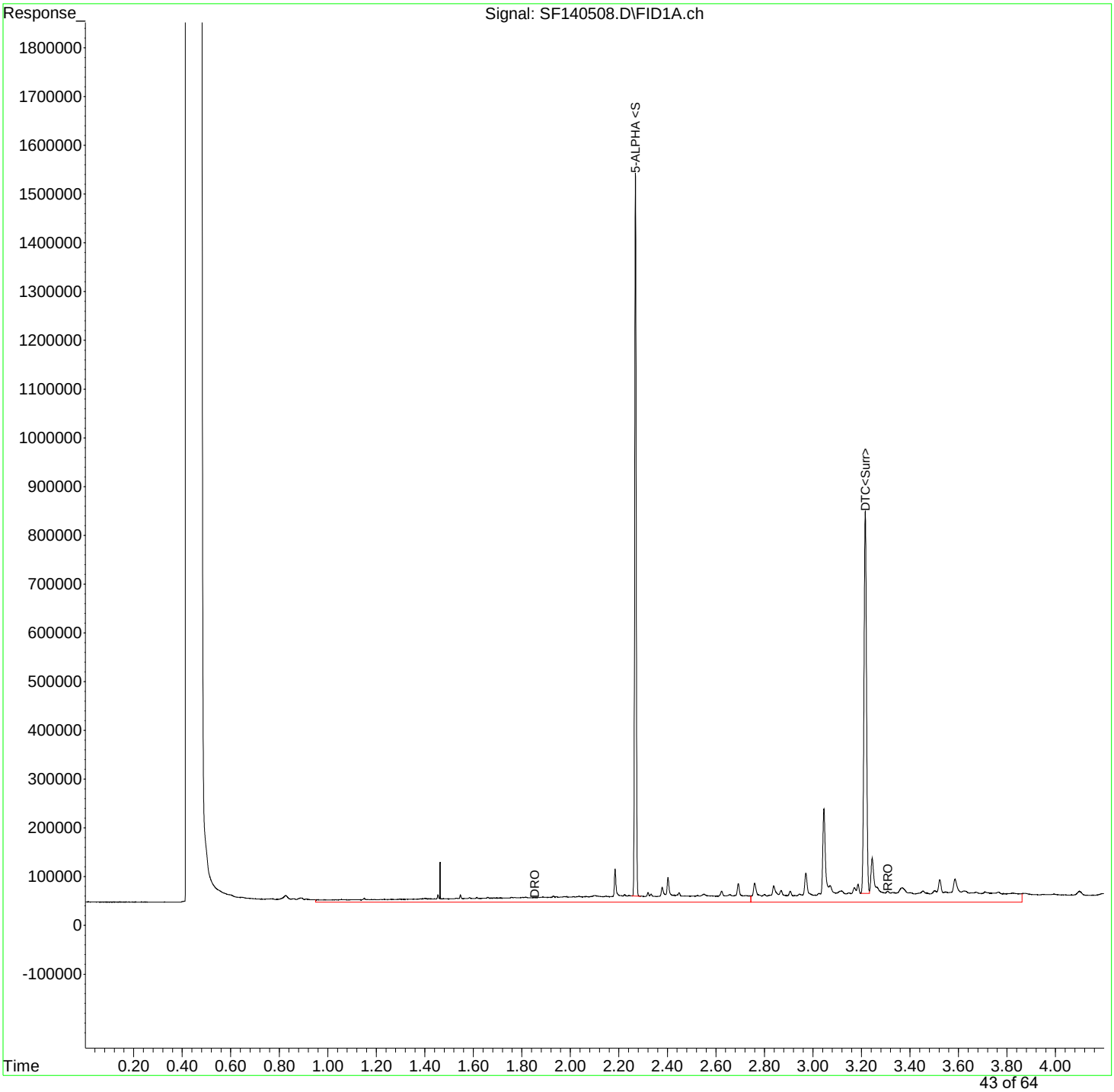
Integration File: autoint1.e
Quant Time: Apr 23 17:38:55 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140510.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 14:39
Operator : BRP
Sample : 1241636002
Misc :
ALS Vial : 132 Sample Multiplier: 1

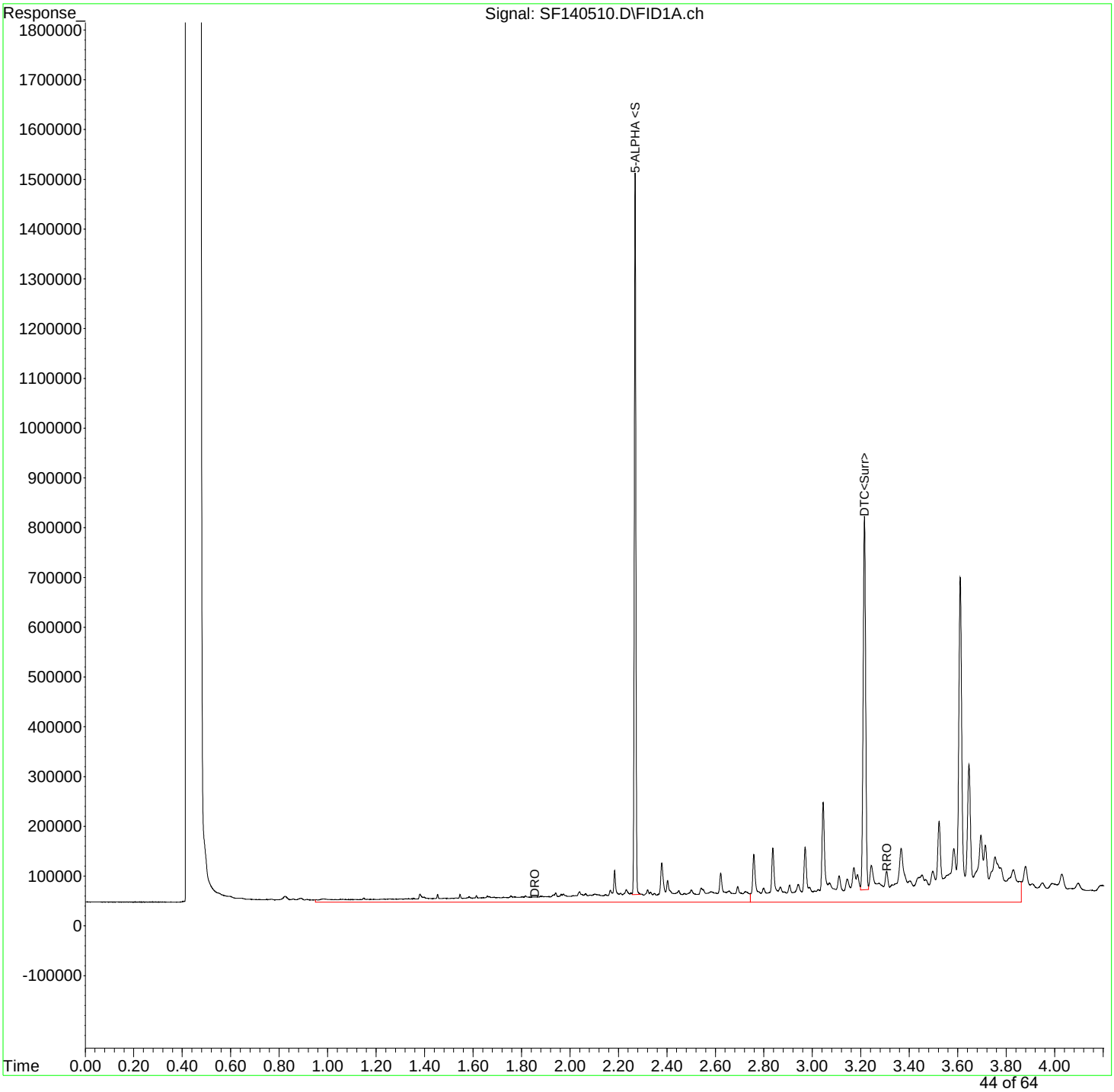
Integration File: autoint1.e
Quant Time: Apr 23 17:39:06 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140512.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 14:50
Operator : BRP
Sample : 1241636003
Misc :
ALS Vial : 131 Sample Multiplier: 1

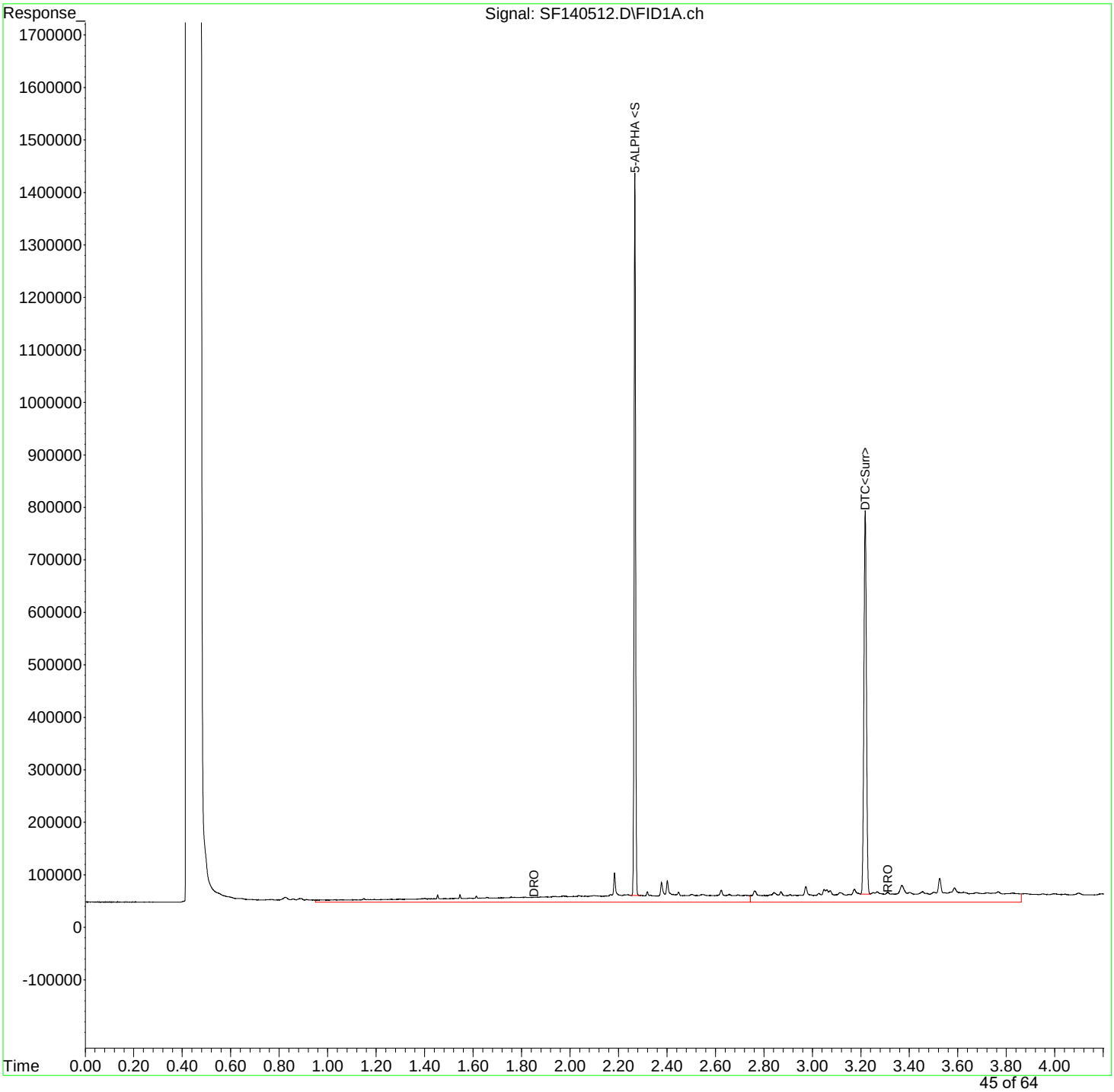
Integration File: autoint1.e
Quant Time: Apr 23 17:39:18 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



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Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140514.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 15:00
Operator : BRP
Sample : 1241636004
Misc :
ALS Vial : 130 Sample Multiplier: 1

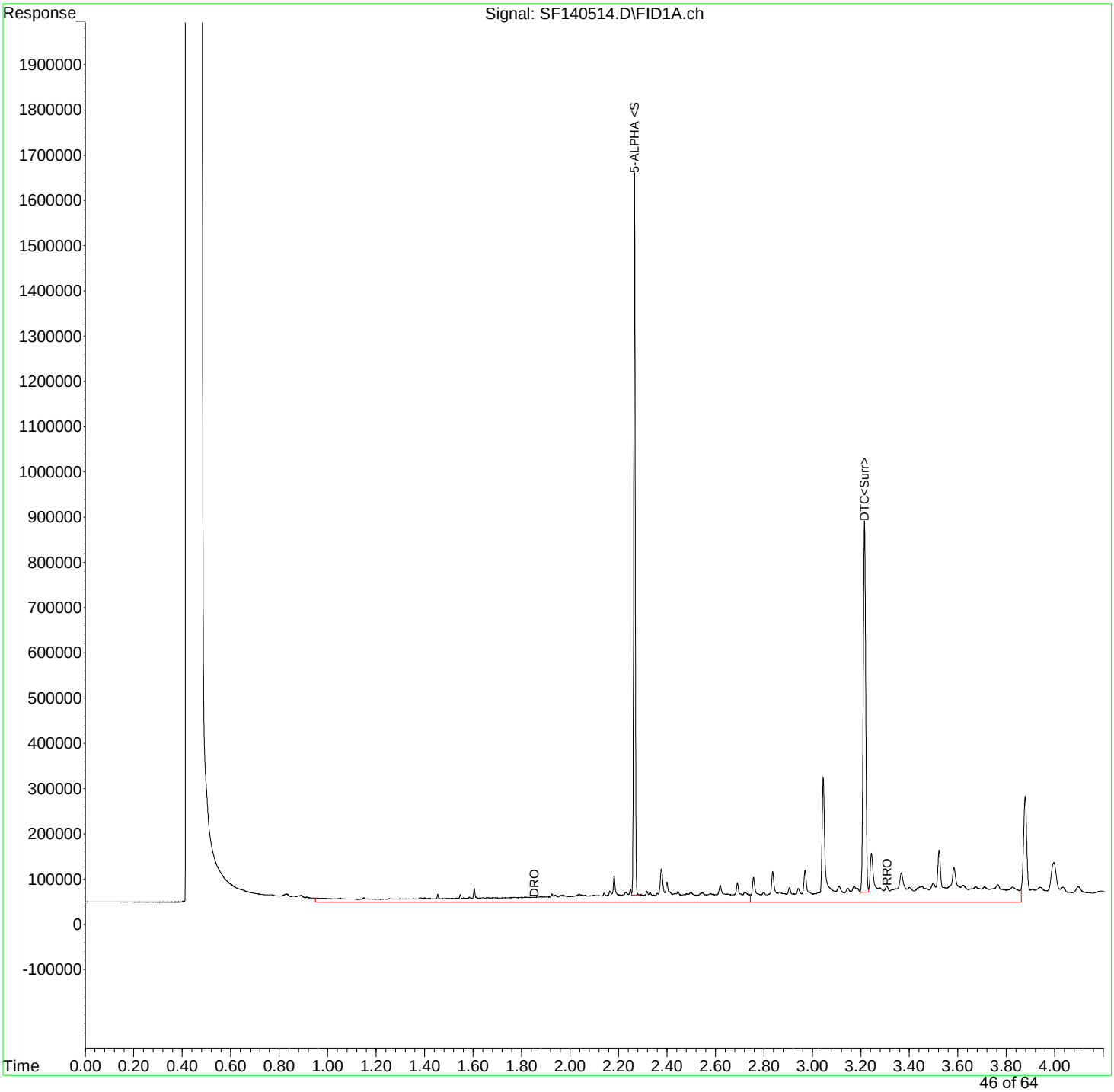
Integration File: autoint1.e
Quant Time: Apr 23 17:39:27 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140516.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 15:10
Operator : BRP
Sample : 1241636005
Misc :
ALS Vial : 129 Sample Multiplier: 1

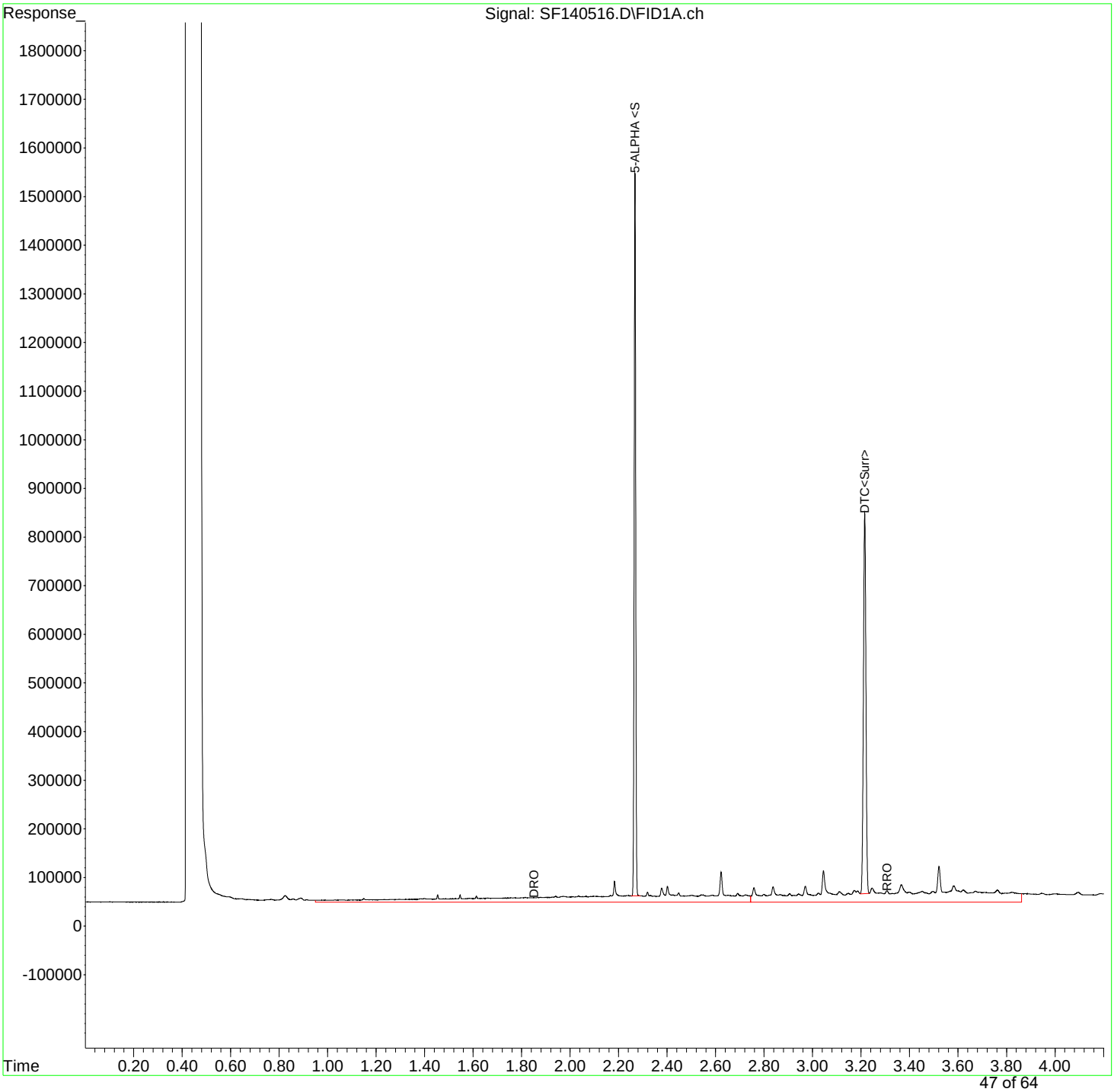
Integration File: autoint1.e
Quant Time: Apr 23 17:39:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140518.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 15:20
Operator : BRP
Sample : 1241636006
Misc :
ALS Vial : 128 Sample Multiplier: 1

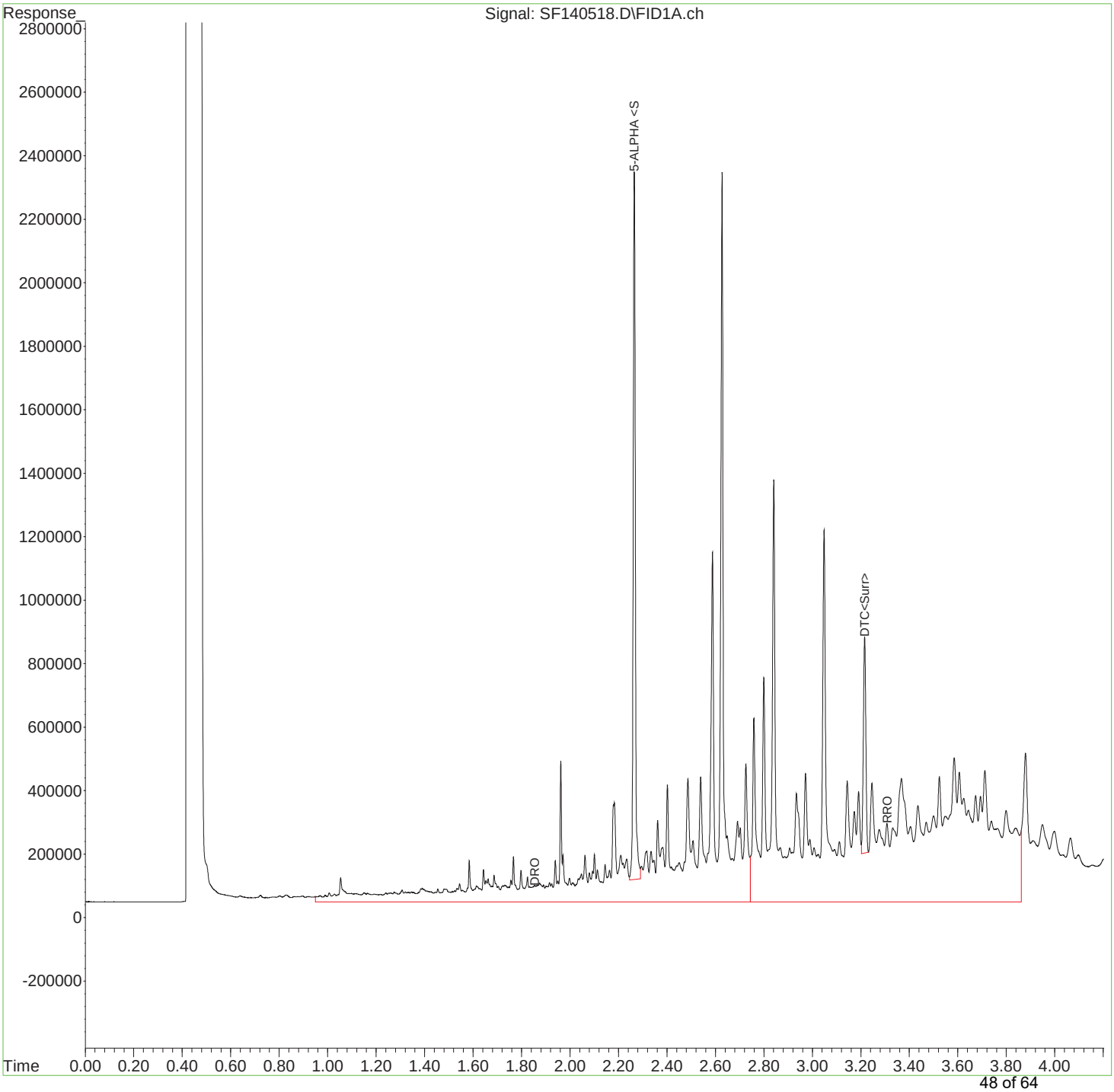
Integration File: autoint1.e
Quant Time: Apr 23 17:39:46 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

Apr 24, 2024

Tashid Shamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140520.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 15:30
Operator : BRP
Sample : 1241636007
Misc :
ALS Vial : 127 Sample Multiplier: 1

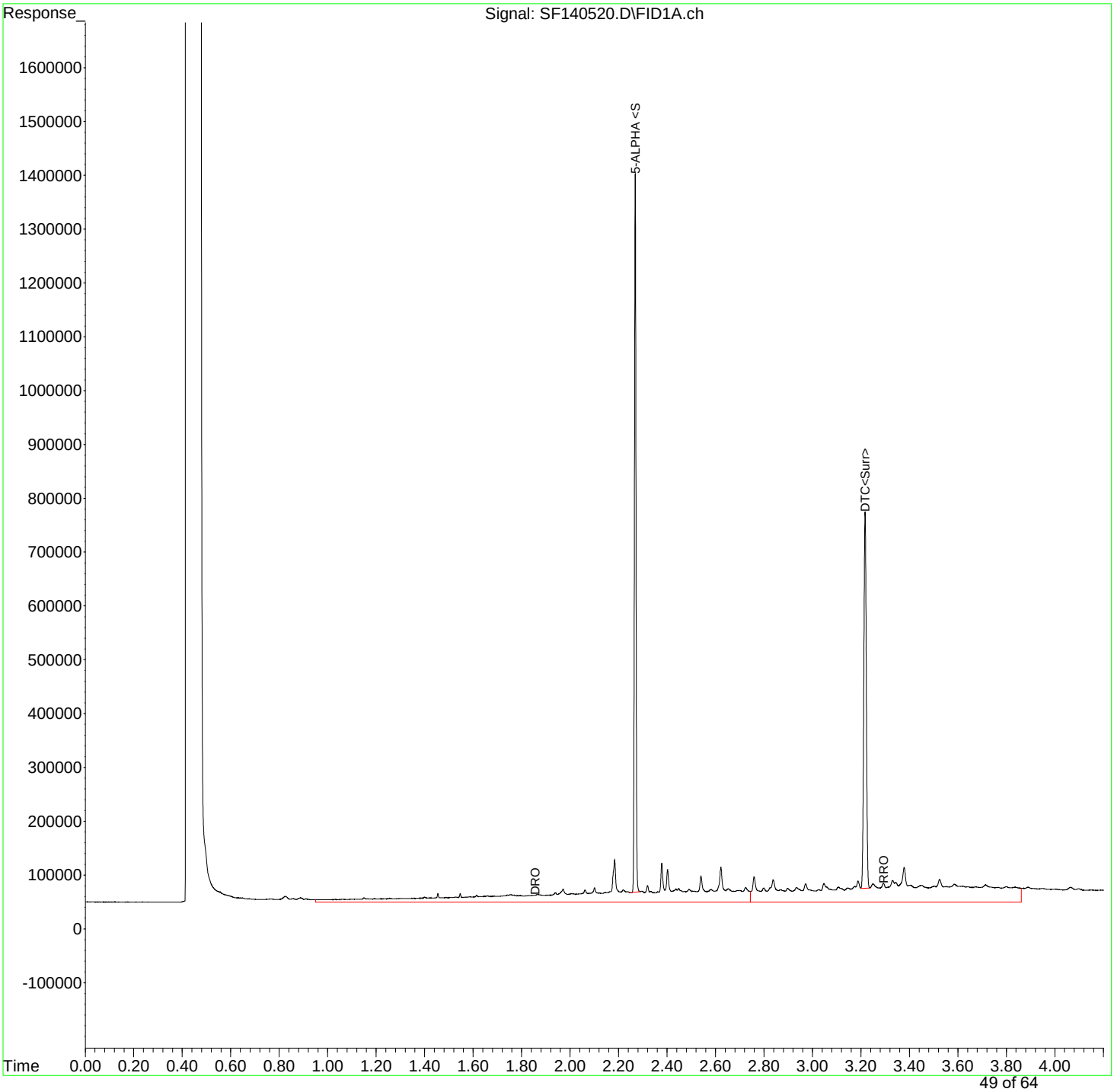
Integration File: autoint1.e
Quant Time: Apr 23 17:40:52 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashida Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140522.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 15:41
Operator : BRP
Sample : 1241636008
Misc :
ALS Vial : 126 Sample Multiplier: 1

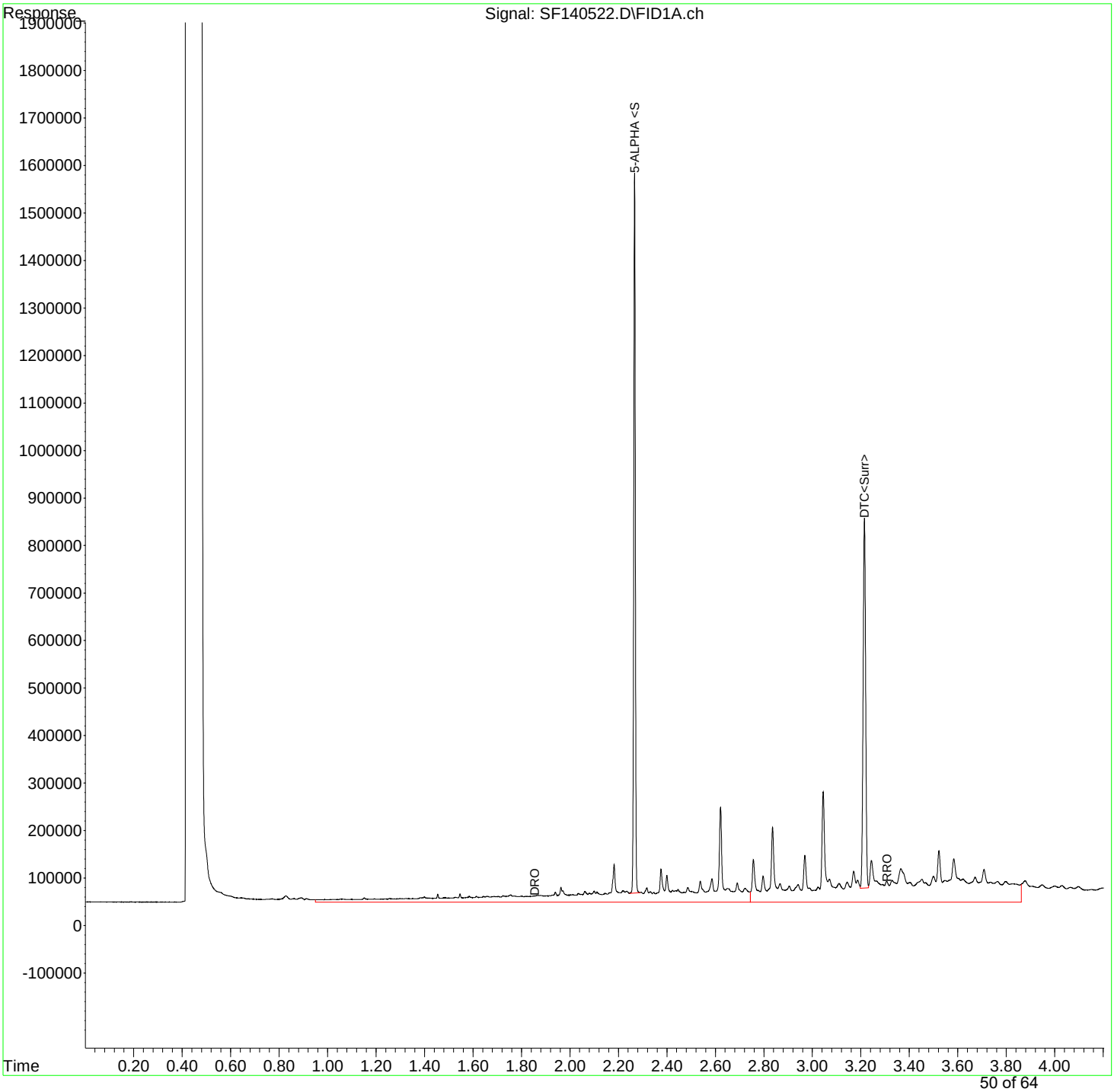
Integration File: autoint1.e
Quant Time: Apr 23 17:40:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140528.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 16:11
Operator : BRP
Sample : 1241636011
Misc :
ALS Vial : 123 Sample Multiplier: 1

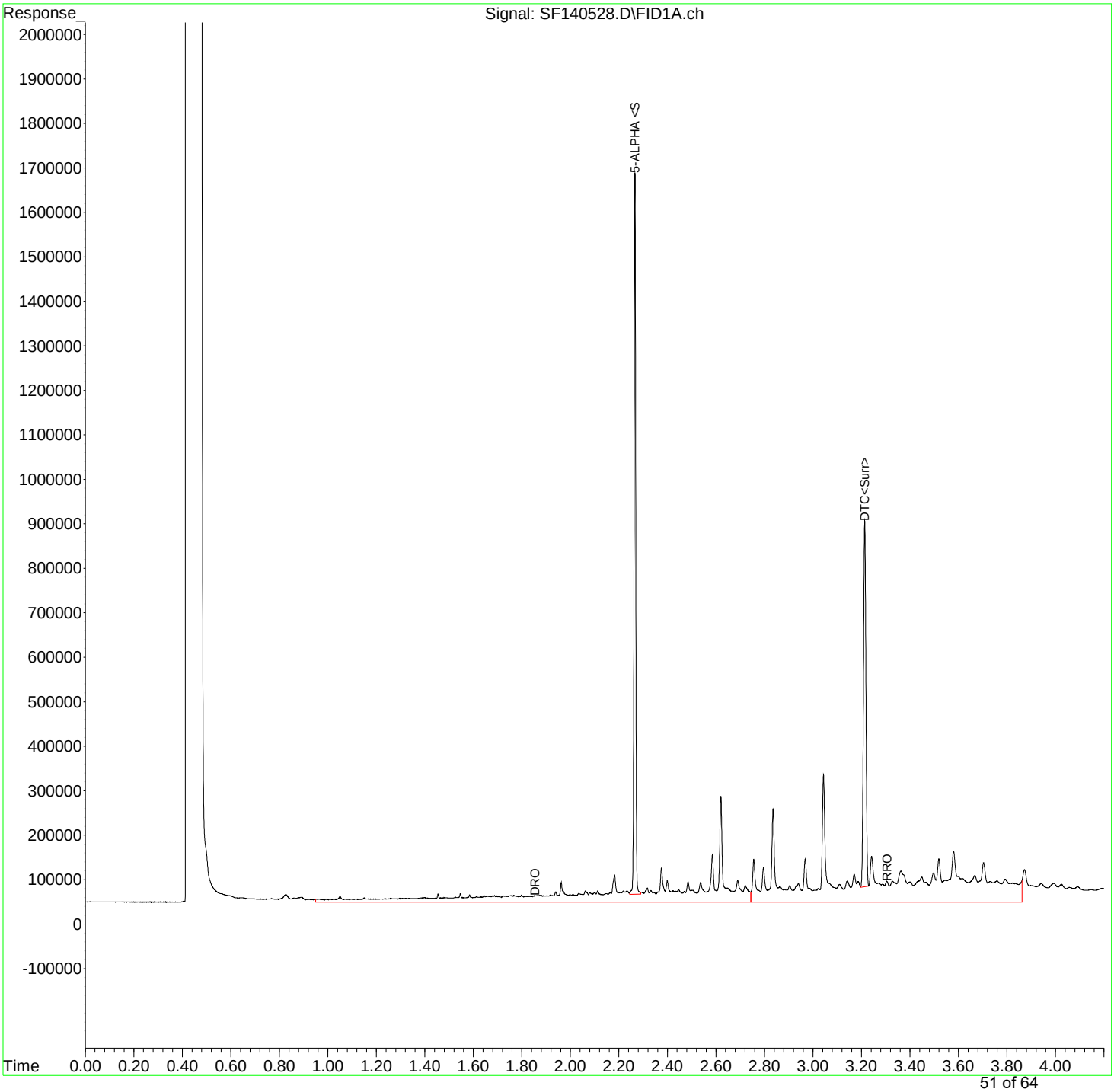
Integration File: autoint1.e
Quant Time: Apr 23 17:42:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashid Shamu



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Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140530.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 16:21
Operator : BRP
Sample : 1241636012
Misc :
ALS Vial : 122 Sample Multiplier: 1

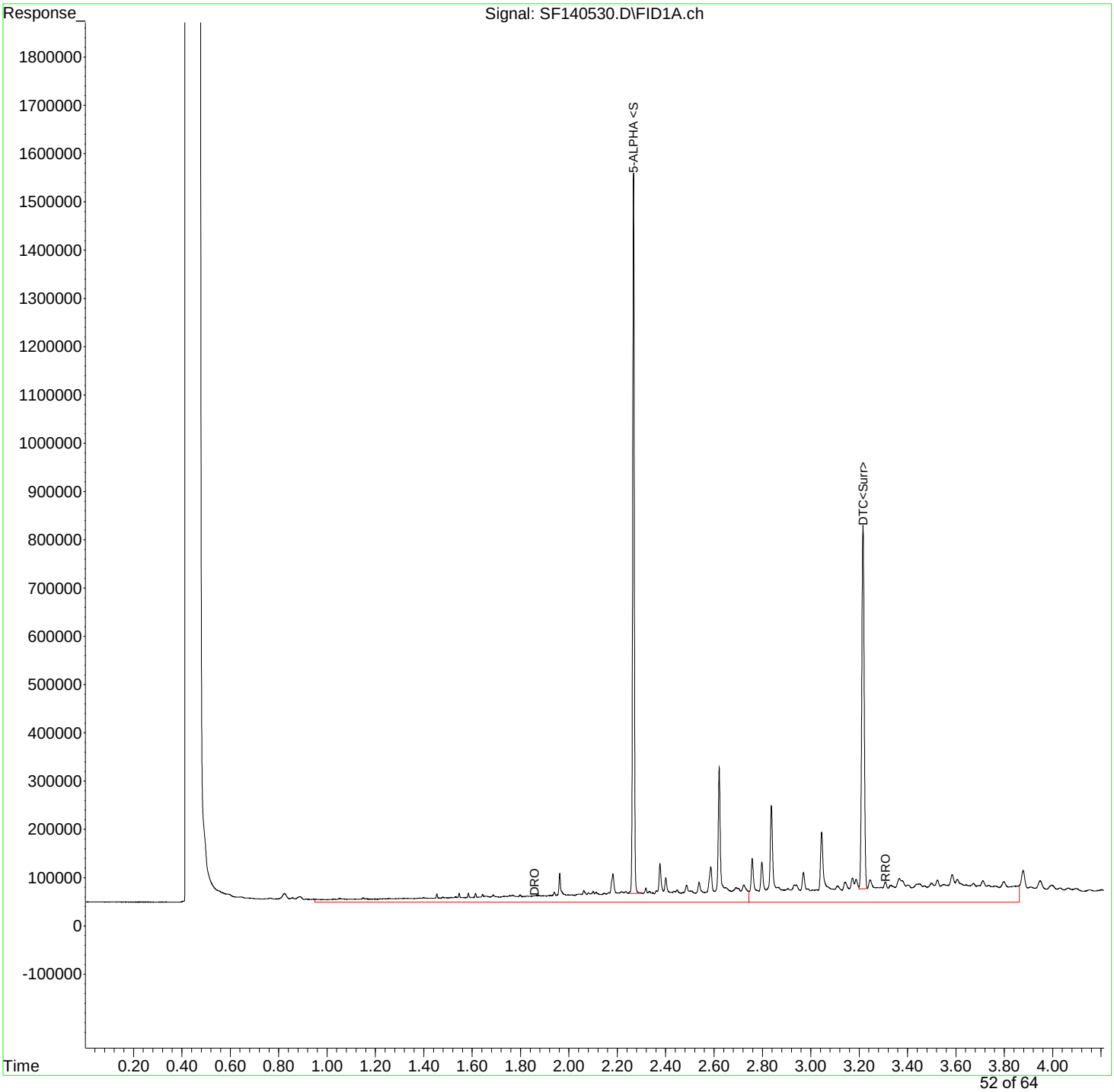
Integration File: autoint1.e
Quant Time: Apr 23 17:42:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu

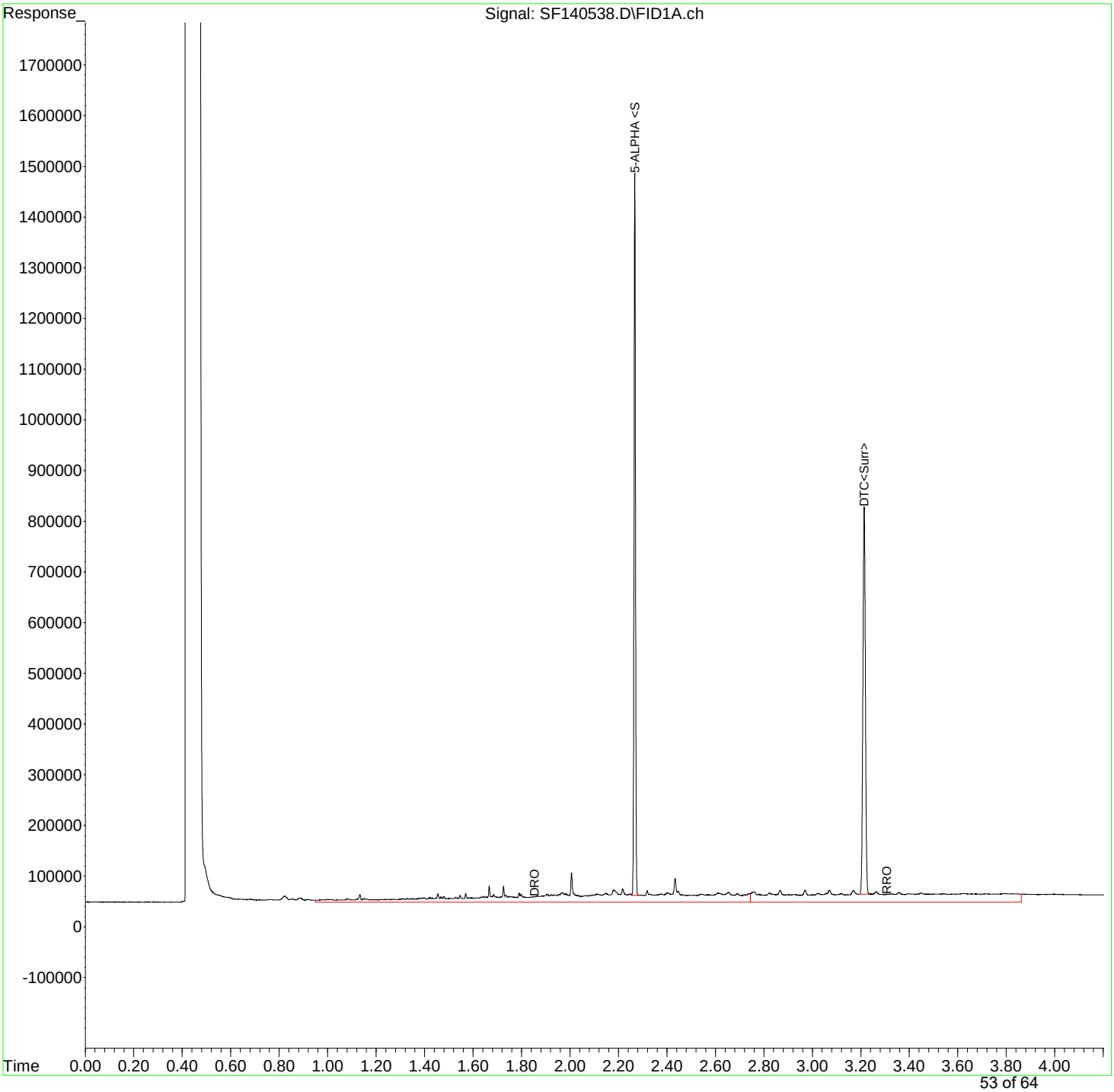


Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140538.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 17:02
Operator : BRP
Sample : 1760580 MB 49355
Misc :
ALS Vial : 121 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 17:43:42 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

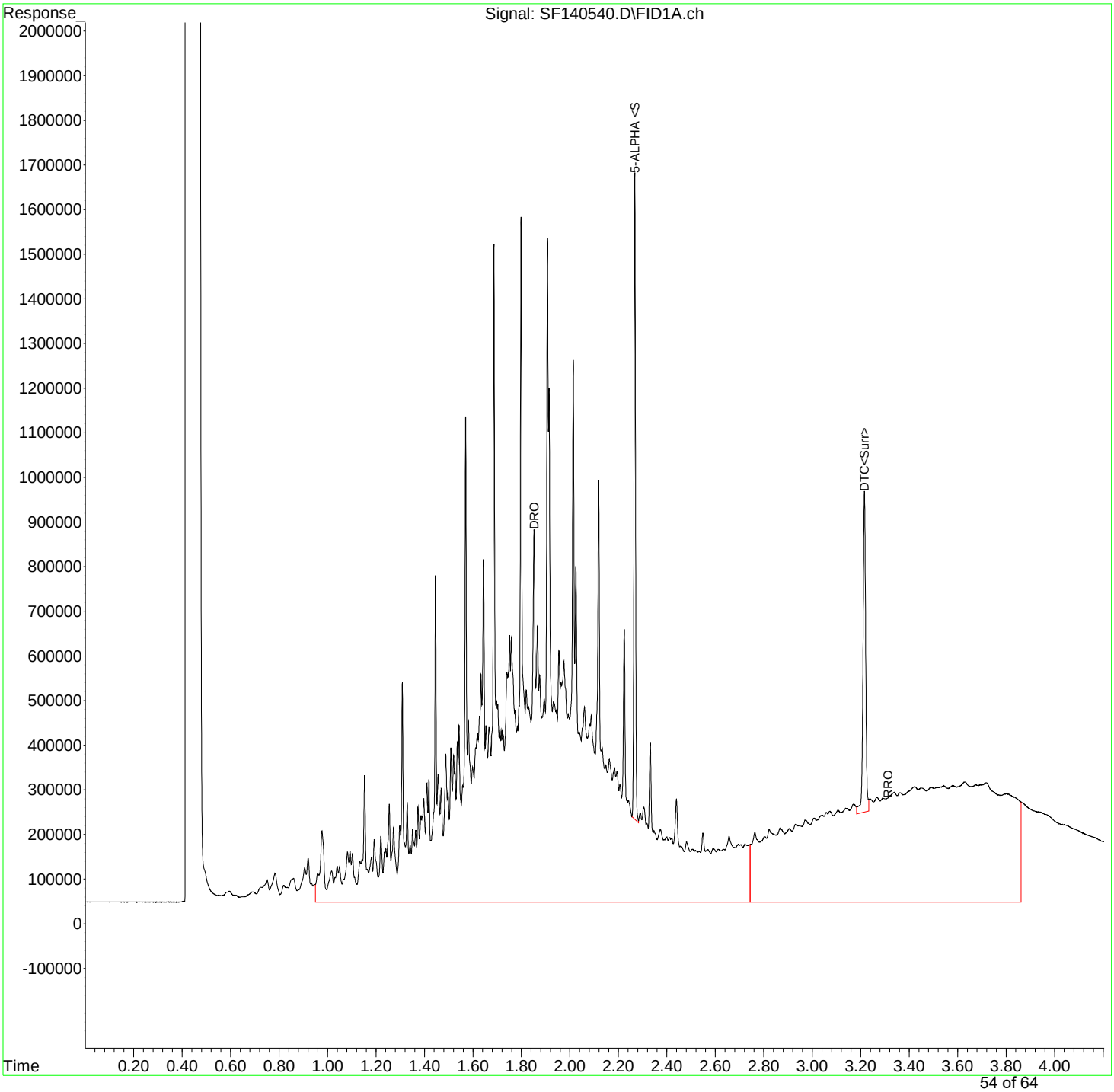
Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140540.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 17:12
Operator : BRP
Sample : 1760581 LCS 49355
Misc :
ALS Vial : 120 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 23 17:43:53 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140544.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 17:32
Operator : BRP
Sample : 1241636001 SG
Misc :
ALS Vial : 118 Sample Multiplier: 1

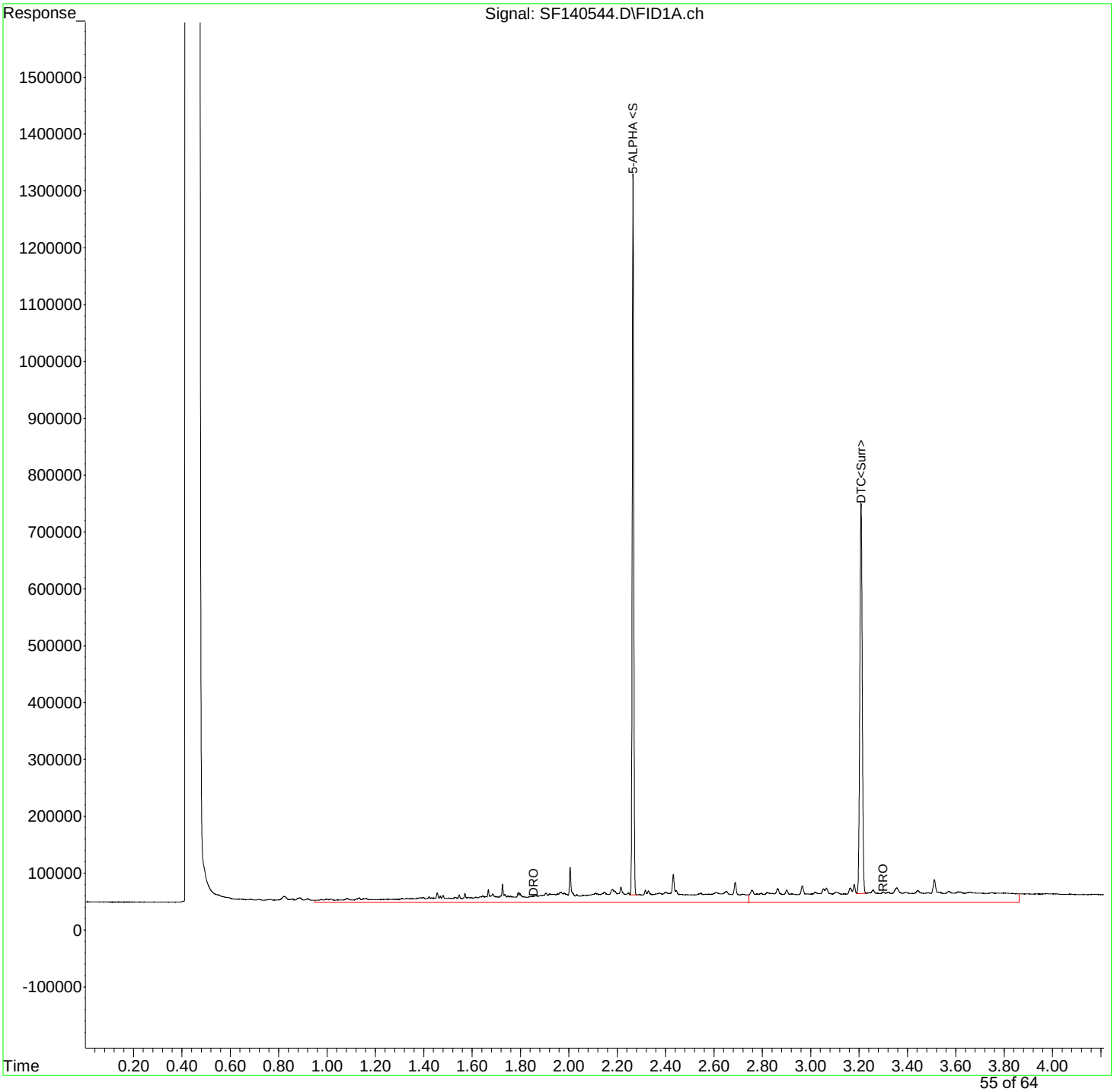
Integration File: autoint1.e
Quant Time: Apr 23 17:44:10 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140546.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 17:42
Operator : BRP
Sample : 1241636002 SG
Misc :
ALS Vial : 117 Sample Multiplier: 1

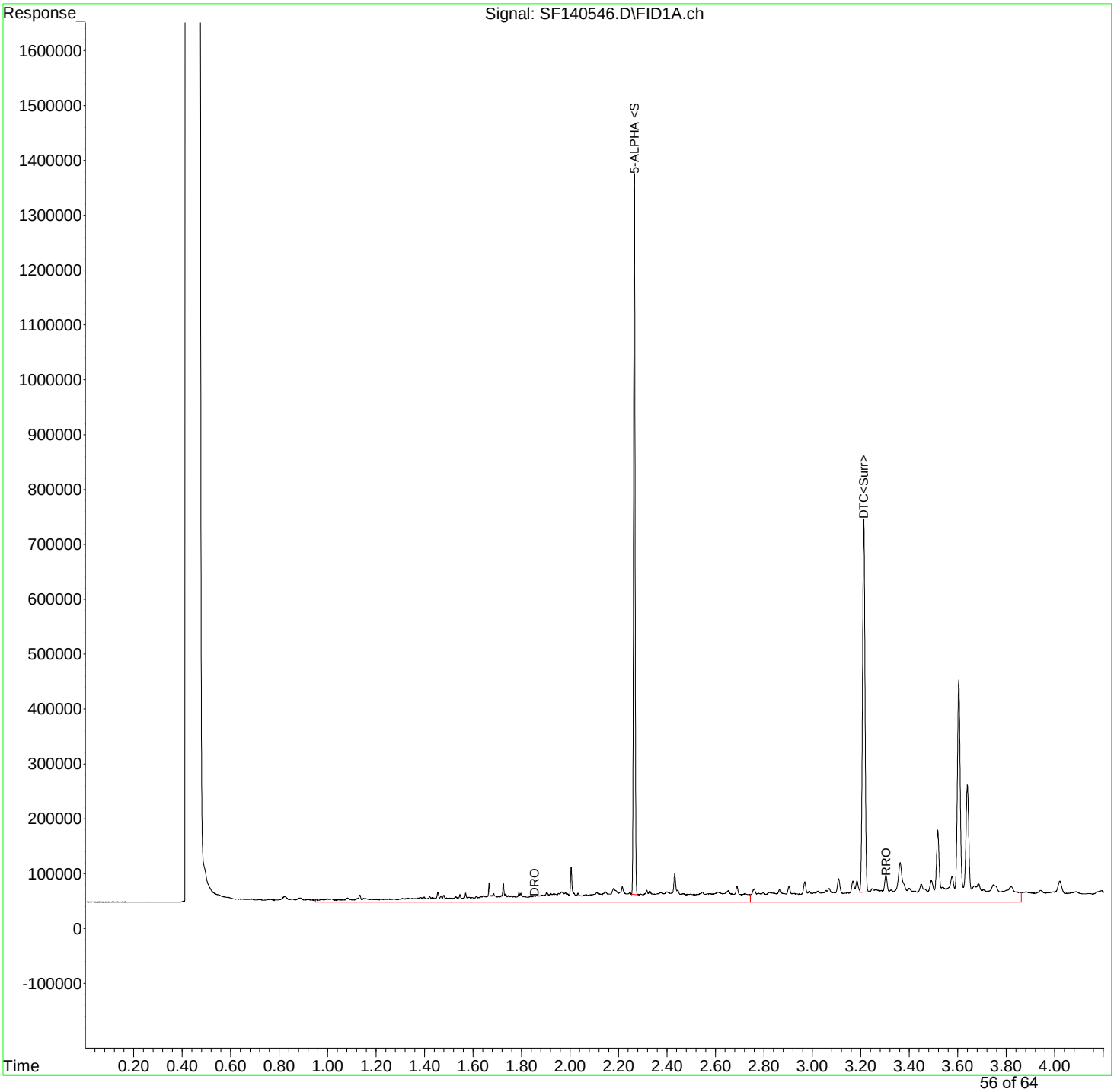
Integration File: autoint1.e
Quant Time: Apr 23 17:49:23 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

Apr 24, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140548.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 17:52
Operator : BRP
Sample : 1241636003 SG
Misc :
ALS Vial : 116 Sample Multiplier: 1

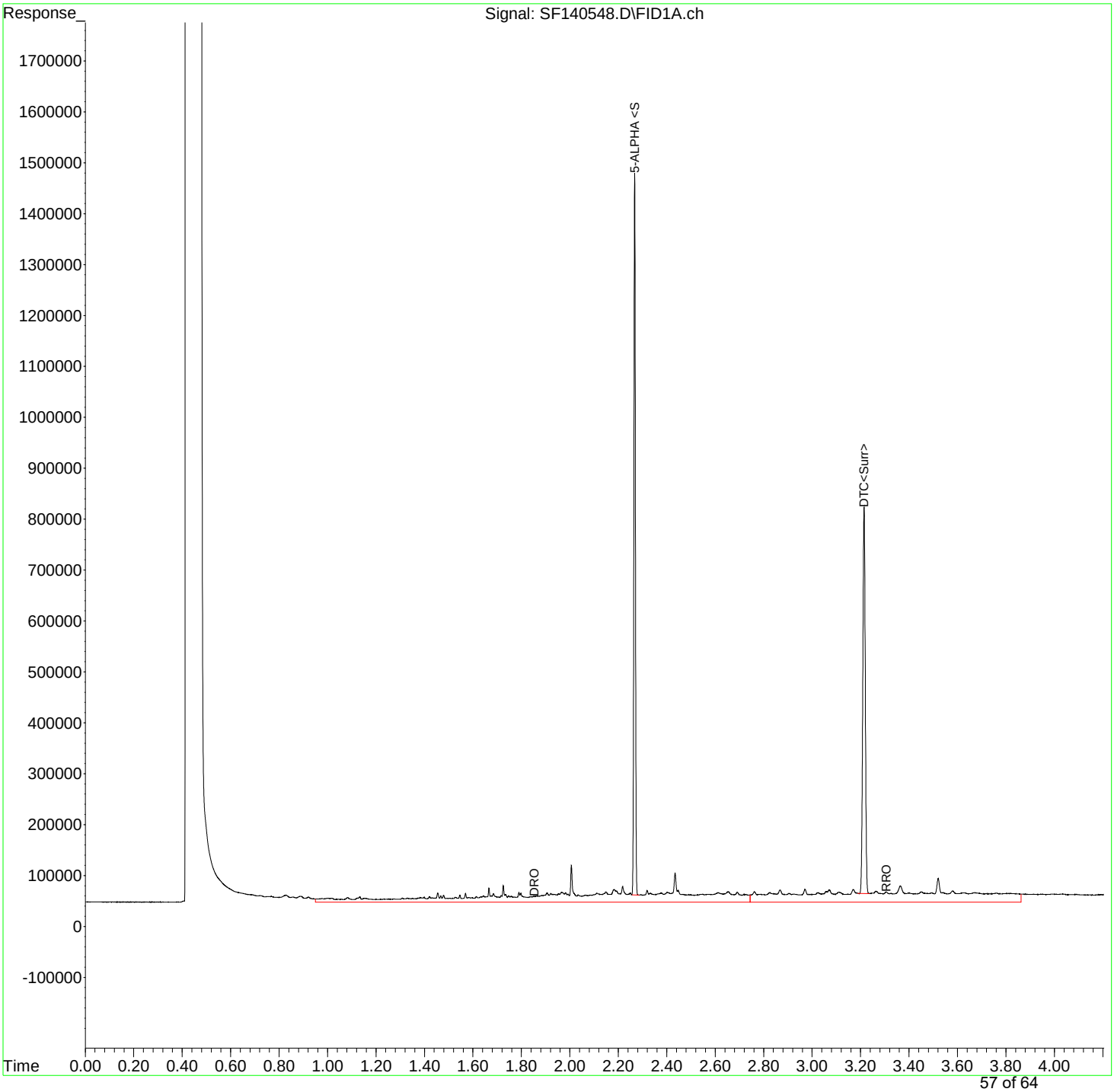
Integration File: autoint1.e
Quant Time: Apr 23 18:17:37 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140550.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 18:02
Operator : BRP
Sample : 1241636004 SG
Misc :
ALS Vial : 115 Sample Multiplier: 1

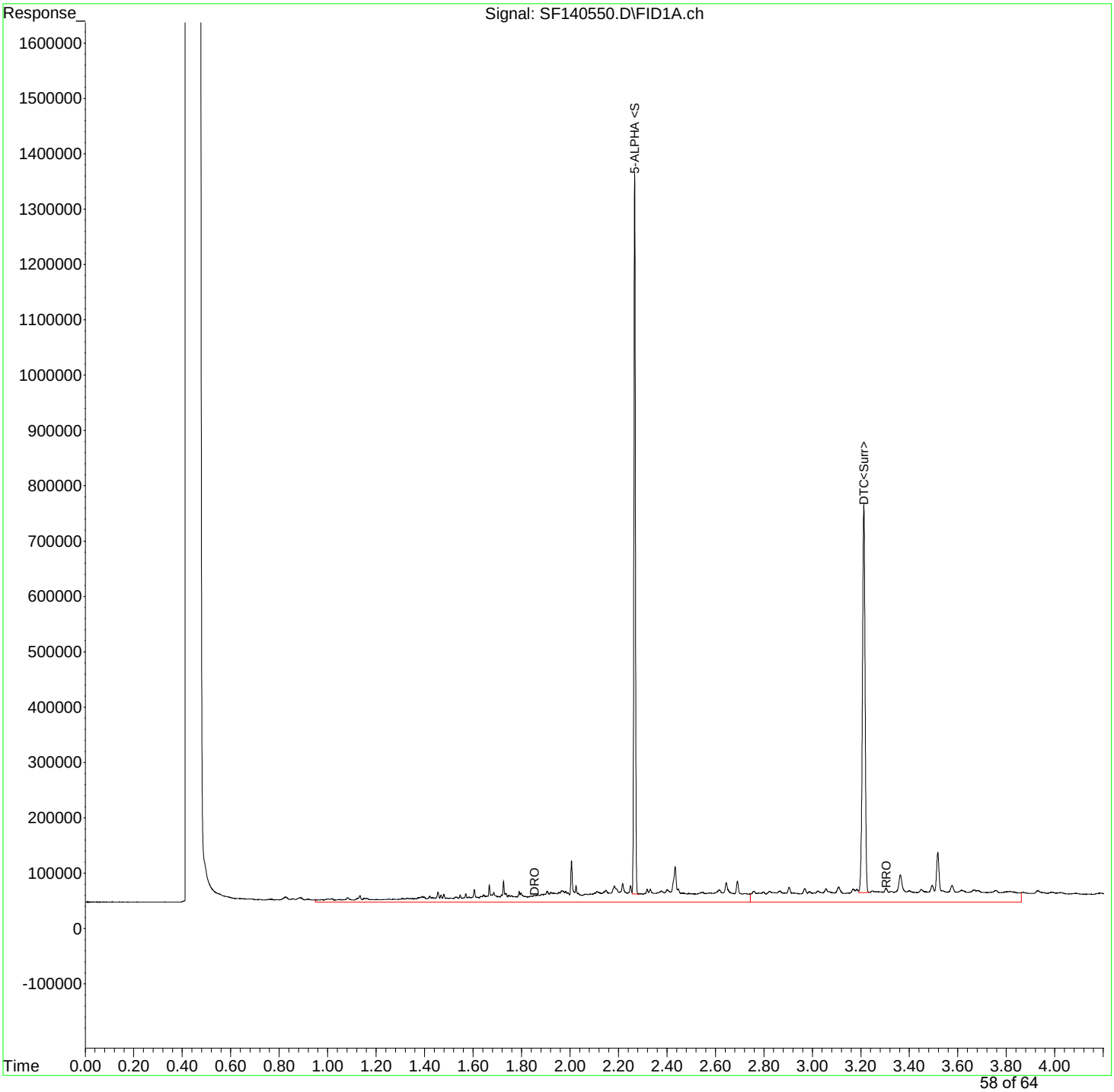
Integration File: autoint1.e
Quant Time: Apr 23 18:17:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Lashia Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140552.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 18:12
Operator : BRP
Sample : 1241636005 SG
Misc :
ALS Vial : 114 Sample Multiplier: 1

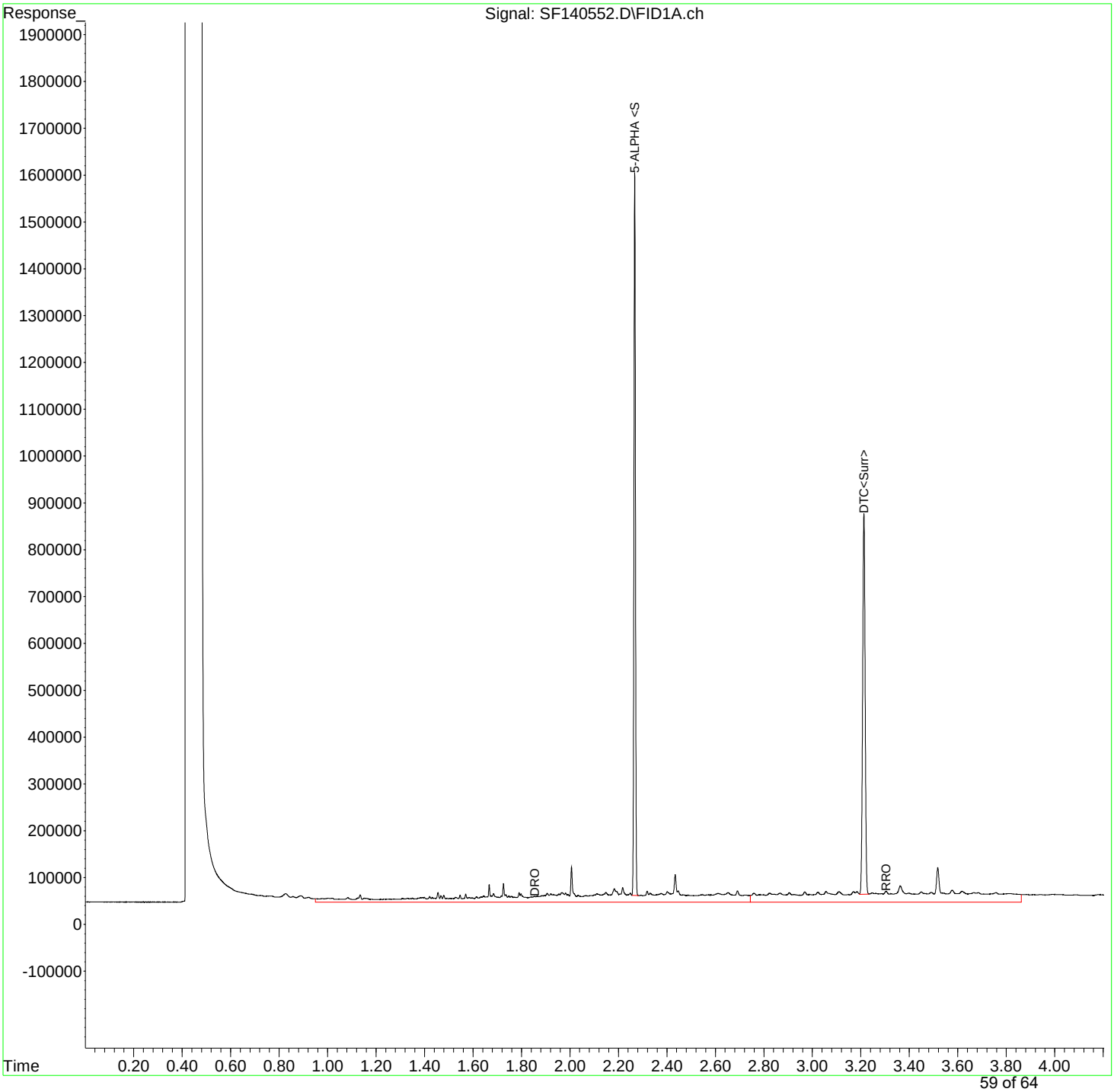
Integration File: autoint1.e
Quant Time: Apr 24 08:55:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140554.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 18:23
Operator : BRP
Sample : 1241636006 SG
Misc :
ALS Vial : 113 Sample Multiplier: 1

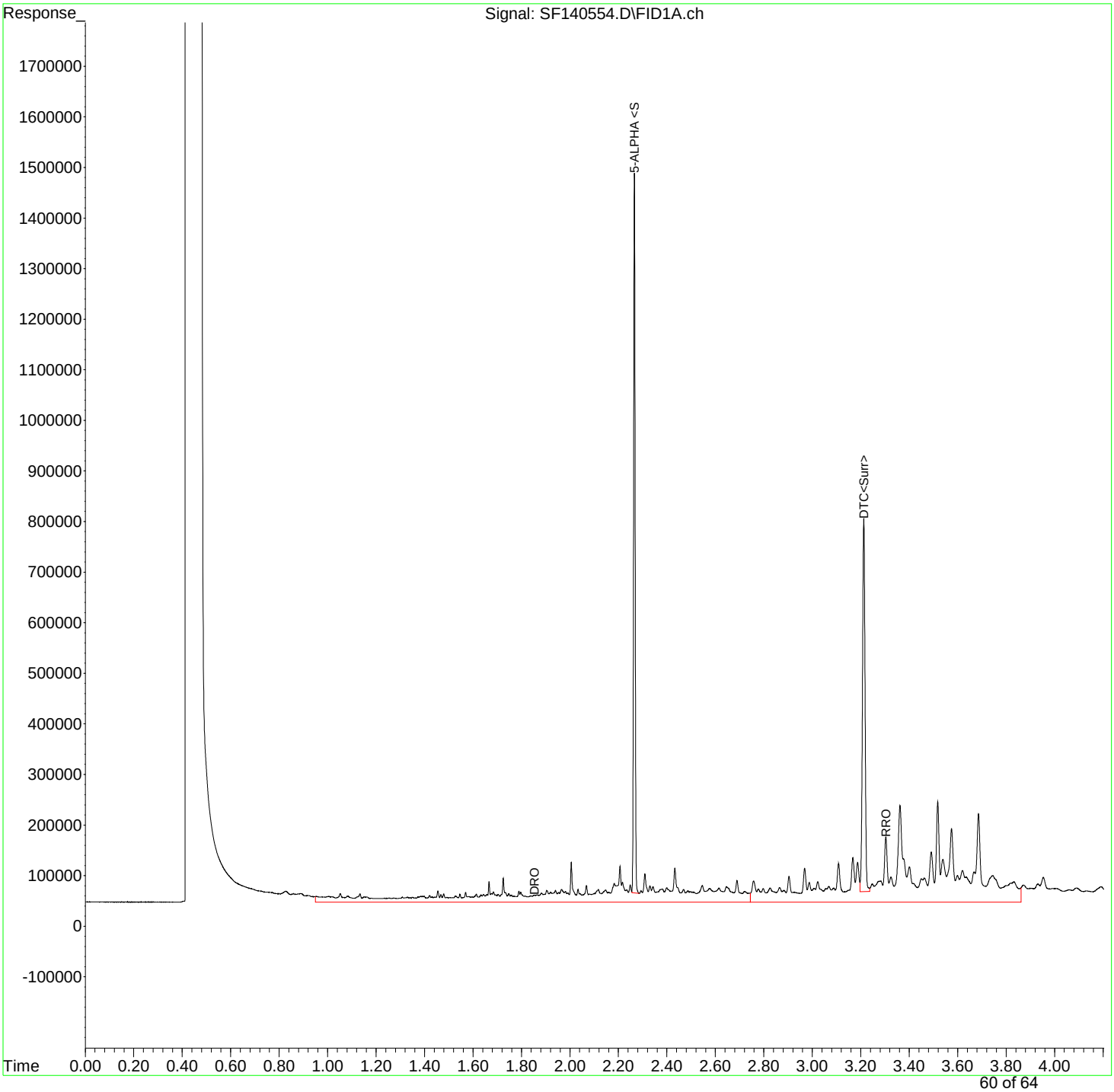
Integration File: autoint1.e
Quant Time: Apr 24 08:55:44 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is unknown and RRO is consistent with biogenics.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140556.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 18:32
Operator : BRP
Sample : 1241636007 SG
Misc :
ALS Vial : 112 Sample Multiplier: 1

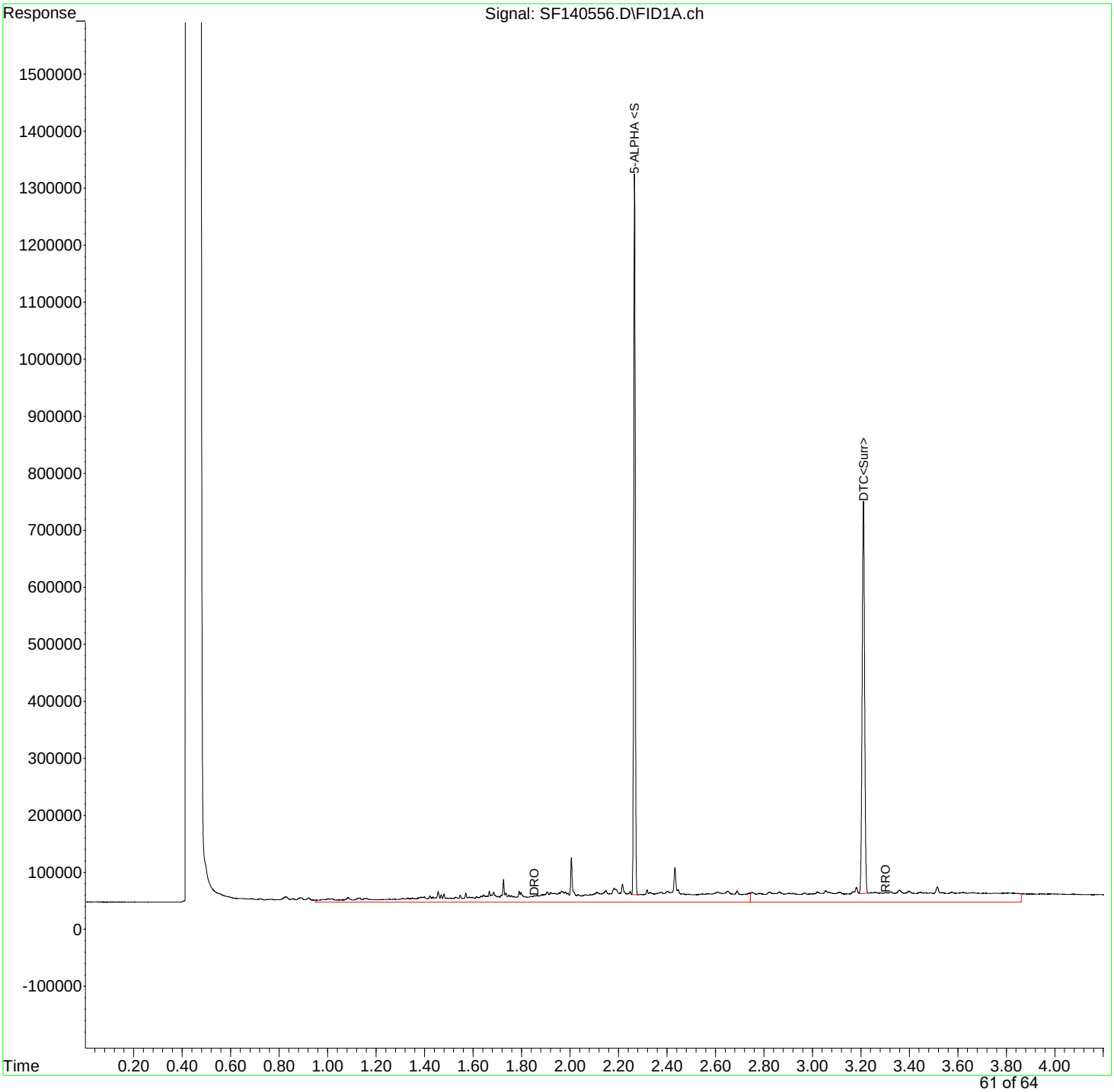
Integration File: autoint1.e
Quant Time: Apr 24 08:55:56 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140558.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 18:42
Operator : BRP
Sample : 1241636008 SG
Misc :
ALS Vial : 111 Sample Multiplier: 1

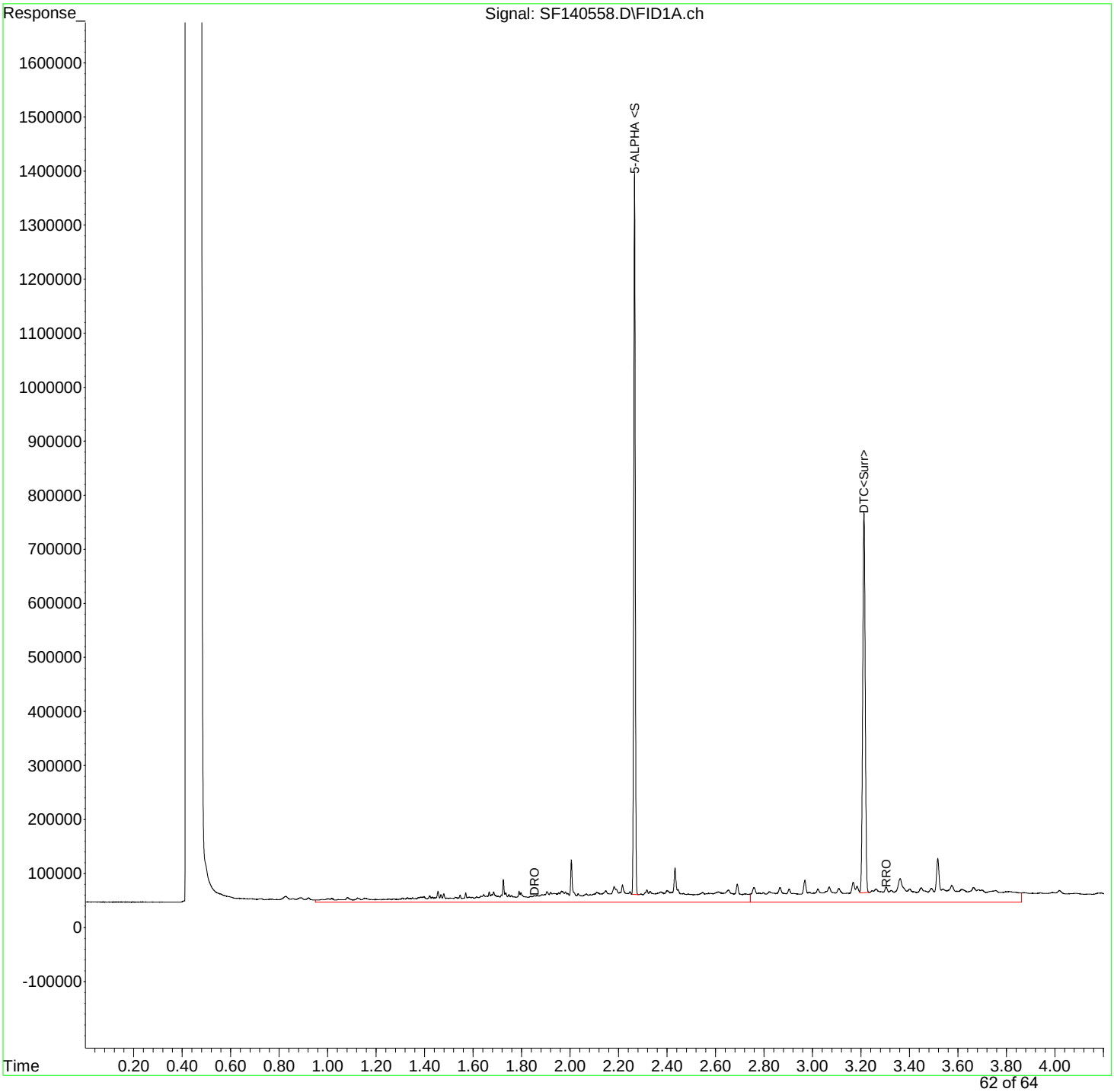
Integration File: autoint1.e
Quant Time: Apr 24 08:56:06 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Zashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140564.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 19:13
Operator : BRP
Sample : 1241636011 SG
Misc :
ALS Vial : 108 Sample Multiplier: 1

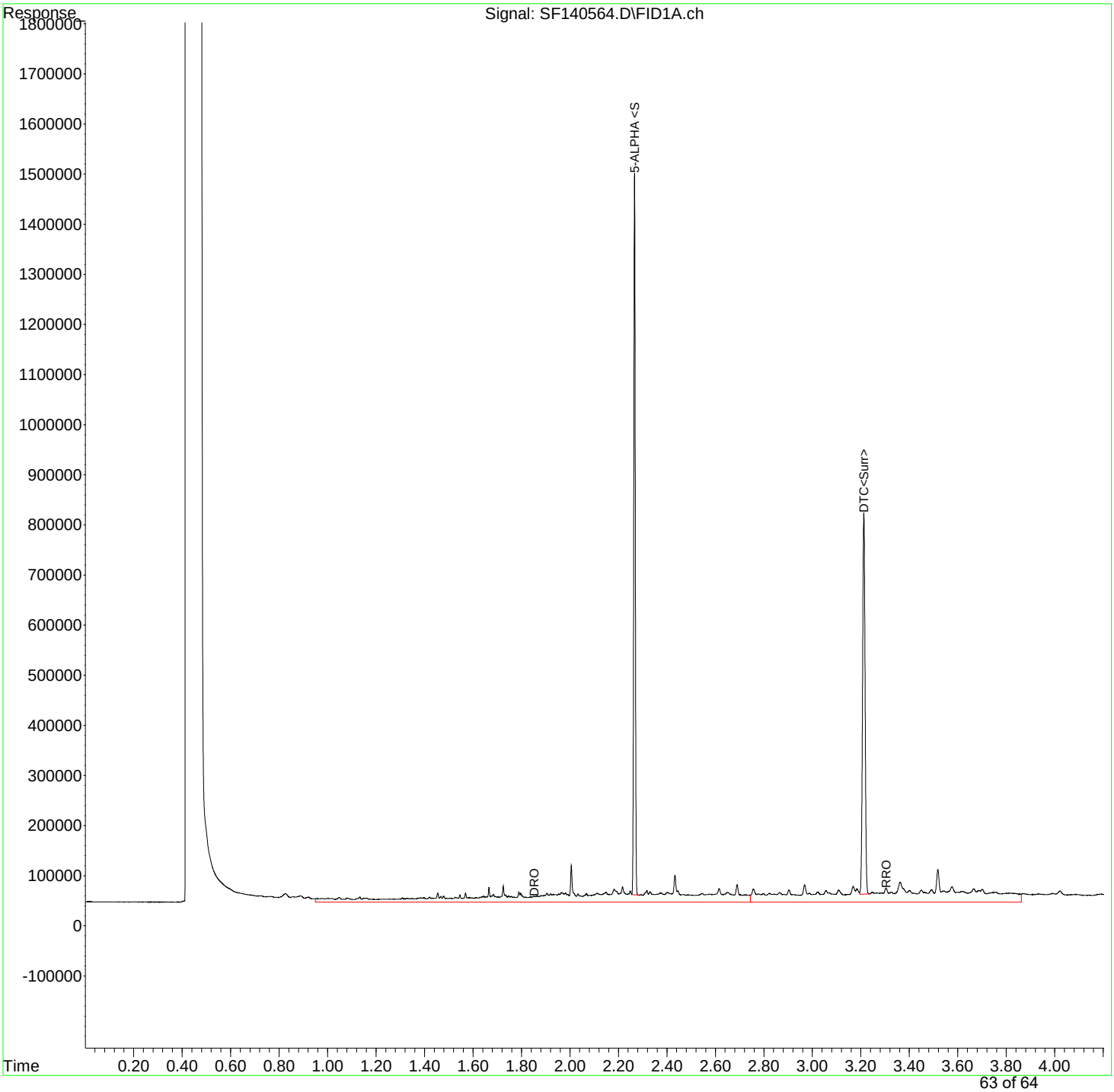
Integration File: autoint1.e
Quant Time: Apr 24 08:56:37 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04232024\
Data File : SF140566.D
Signal(s) : FID1A.ch
Acq On : 23 Apr 2024 19:23
Operator : BRP
Sample : 1241636012 SG
Misc :
ALS Vial : 107 Sample Multiplier: 1

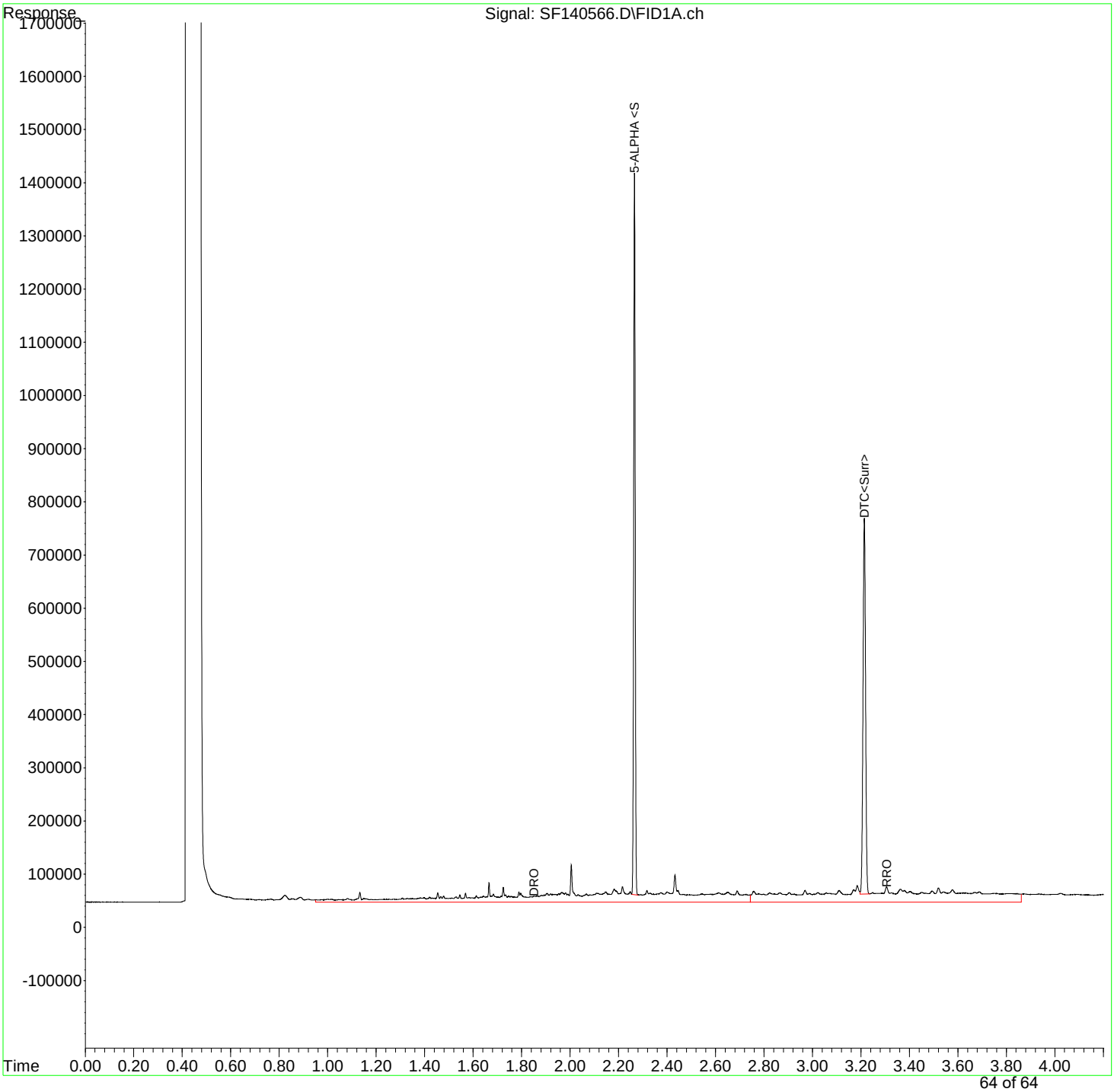
Integration File: autoint1.e
Quant Time: Apr 24 08:56:45 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 24, 2024

Tashi Lhamu



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Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241659**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241659**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24SS129SP502 (1241659024) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS130SP54.5 (1241659025) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS131SP55.5 (1241659026) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS131SP55.59 (1241659029) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS132SP502 (1241659030) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS133SP505 (1241659031) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS134SP59.5 (1241659032) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS135SP502 (1241659033) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS136SP505 (1241659034) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS136SP5059 (1241659035) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS137SP509 (1241659036) PS

AK102/103 - The hydrocarbon pattern is unknown.

1241659030DUP (1760880) DUP

2540G - Percent Solids - Sample duplicate does not meet RPD criteria due to matrix.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS110SP31.5	1241659001	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS111SP31.5	1241659002	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS1125SP0303	1241659003	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS113SP31.5	1241659004	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS114SP32.5	1241659005	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS115SP301	1241659006	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS115SP3019	1241659007	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS116SP302	1241659008	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS117SP402	1241659009	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS118SP406	1241659010	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS118SP406(1241659010I	1241659011	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS118S...(1241659010BMS	1241659012	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS119SP48.5	1241659013	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS120SP402	1241659014	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS121SP404	1241659015	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS122SP405	1241659016	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS123SP41.5	1241659017	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS124SP44.5	1241659018	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS125SP406	1241659019	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS126SP41.3	1241659020	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS127SP403	1241659021	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS127SP4039	1241659022	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS128SP45.5	1241659023	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS129SP502	1241659024	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS130SP54.5	1241659025	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS131SP55.5	1241659026	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS131SP...(1241659026BM	1241659027	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS131S...(1241659026BMS	1241659028	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS131SP55.59	1241659029	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS132SP502	1241659030	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS133SP505	1241659031	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS134SP59.5	1241659032	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS135SP502	1241659033	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS136SP505	1241659034	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS136SP5059	1241659035	04/23/2024	04/24/2024	Soil/Solid (dry weight)
RIR24SS137SP509	1241659036	04/23/2024	04/24/2024	Soil/Solid (dry weight)

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix

Method	Method Description
AK102	Diesel Range Organics (S) 2
AK102	Diesel Range Organics w/ Silica Gel
SM21 2540G	Percent Solids SM2540G

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Detectable Results Summary

Client Sample ID: **RIR24SS129SP502**
Lab Sample ID: 1241659024

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	132	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	52.2J	mg/kg

Client Sample ID: **RIR24SS131SP55.59**
Lab Sample ID: 1241659029

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	10.5J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	10.3J	mg/kg

Client Sample ID: **RIR24SS132SP502**
Lab Sample ID: 1241659030

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	112	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	30.2J	mg/kg

Client Sample ID: **RIR24SS133SP505**
Lab Sample ID: 1241659031

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	44.6	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	23.3J	mg/kg

Client Sample ID: **RIR24SS134SP59.5**
Lab Sample ID: 1241659032

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	10.4J	mg/kg

Client Sample ID: **RIR24SS135SP502**
Lab Sample ID: 1241659033

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	452	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	162	mg/kg

Client Sample ID: **RIR24SS136SP505**
Lab Sample ID: 1241659034

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.4J	mg/kg

Client Sample ID: **RIR24SS136SP5059**
Lab Sample ID: 1241659035

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.3J	mg/kg

Client Sample ID: **RIR24SS137SP509**
Lab Sample ID: 1241659036

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	14.3J	mg/kg

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Results of **RIR24SS129SP502**

Client Sample ID: **RIR24SS129SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659024
Lab Project ID: 1241659

Collection Date: 04/23/24 14:42
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):19.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	132		102	45.9	76.5	mg/kg	1		04/24/24 17:05
Surrogates									
5a Androstane (surr)	91		50-150			%	1		04/24/24 17:05

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 17:05
Container ID: 1241659024-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.526 g
Prep Extract Vol: 2 mL

Results of **RIR24SS129SP502**

Client Sample ID: **RIR24SS129SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659024
Lab Project ID: 1241659

Collection Date: 04/23/24 14:42
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):19.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	52.2	J	102	45.9	76.5	mg/kg	1		04/24/24 20:47
Surrogates									
5a Androstane (surr)	85.8		50-150			%	1		04/24/24 20:47

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 20:47
Container ID: 1241659024-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.526 g
Prep Extract Vol: 2 mL

Results of **RIR24SS130SP54.5**

Client Sample ID: **RIR24SS130SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659025
Lab Project ID: 1241659

Collection Date: 04/23/24 14:50
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.8	U	23.7	10.7	17.8	mg/kg	1		04/24/24 18:15
Surrogates									
5a Androstane (surr)	88.4		50-150			%	1		04/24/24 18:15

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 18:15
Container ID: 1241659025-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.97 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS130SP54.5**

Client Sample ID: **RIR24SS130SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659025
Lab Project ID: 1241659

Collection Date: 04/23/24 14:50
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.8	U	23.7	10.7	17.8	mg/kg	1		04/24/24 20:57
Surrogates									
5a Androstane (surr)	84.9		50-150			%	1		04/24/24 20:57

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 20:57
Container ID: 1241659025-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.97 g
Prep Extract Vol: 2 mL

Results of **RIR24SS131SP55.5**

Client Sample ID: **RIR24SS131SP55.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659026
Lab Project ID: 1241659

Collection Date: 04/23/24 15:24
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):86.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.4	U	23.2	10.4	17.4	mg/kg	1		04/24/24 17:15
Surrogates									
5a Androstane (surr)	90.3		50-150			%	1		04/24/24 17:15

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 17:15
Container ID: 1241659026-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.545 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS131SP55.5**

Client Sample ID: **RIR24SS131SP55.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659026
Lab Project ID: 1241659

Collection Date: 04/23/24 15:24
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):86.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.4	U	23.2	10.4	17.4	mg/kg	1		04/24/24 21:07
Surrogates									
5a Androstane (surr)	86		50-150			%	1		04/24/24 21:07

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 21:07
Container ID: 1241659026-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.545 g
Prep Extract Vol: 2 mL

Results of **RIR24SS131SP55.59**

Client Sample ID: **RIR24SS131SP55.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659029
Lab Project ID: 1241659

Collection Date: 04/23/24 15:25
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):88.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	10.5	J	22.7	10.2	17.0	mg/kg	1		04/24/24 18:26
Surrogates									
5a Androstane (surr)	95.1		50-150			%	1		04/24/24 18:26

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 18:26
Container ID: 1241659029-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.509 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS131SP55.59**

Client Sample ID: **RIR24SS131SP55.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659029
Lab Project ID: 1241659

Collection Date: 04/23/24 15:25
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):88.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	10.3	J	22.7	10.2	17.0	mg/kg	1		04/24/24 21:36
Surrogates									
5a Androstane (surr)	90.5		50-150			%	1		04/24/24 21:36

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 21:36
Container ID: 1241659029-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.509 g
Prep Extract Vol: 2 mL

Results of **RIR24SS132SP502**

Client Sample ID: **RIR24SS132SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659030
Lab Project ID: 1241659

Collection Date: 04/23/24 15:43
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):43.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	112		45.6	20.5	34.2	mg/kg	1		04/24/24 17:45
Surrogates									
5a Androstane (surr)	123		50-150			%	1		04/24/24 17:45

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 17:45
Container ID: 1241659030-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.652 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS132SP502**

Client Sample ID: **RIR24SS132SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659030
Lab Project ID: 1241659

Collection Date: 04/23/24 15:43
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):43.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	30.2	J	45.6	20.5	34.2	mg/kg	1		04/24/24 21:46
Surrogates									
5a Androstane (surr)	87.9		50-150			%	1		04/24/24 21:46

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 21:46
Container ID: 1241659030-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.652 g
Prep Extract Vol: 2 mL

Results of **RIR24SS133SP505**

Client Sample ID: **RIR24SS133SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659031
Lab Project ID: 1241659

Collection Date: 04/23/24 15:54
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):64.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	44.6		30.6	13.8	23.0	mg/kg	1		04/24/24 17:55
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/24/24 17:55

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 17:55
Container ID: 1241659031-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.922 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS133SP505**

Client Sample ID: **RIR24SS133SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659031
Lab Project ID: 1241659

Collection Date: 04/23/24 15:54
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):64.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	23.3	J	30.6	13.8	23.0	mg/kg	1		04/24/24 21:56
Surrogates									
5a Androstane (surr)	93		50-150			%	1		04/24/24 21:56

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 21:56
Container ID: 1241659031-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.922 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS134SP59.5**

Client Sample ID: **RIR24SS134SP59.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659032
Lab Project ID: 1241659

Collection Date: 04/23/24 16:08
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):87.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.7	U	22.3	10.0	16.7	mg/kg	1		04/24/24 18:36
Surrogates									
5a Androstane (surr)	94.9		50-150			%	1		04/24/24 18:36

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 18:36
Container ID: 1241659032-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.995 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS134SP59.5**

Client Sample ID: **RIR24SS134SP59.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659032
Lab Project ID: 1241659

Collection Date: 04/23/24 16:08
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):87.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	10.4	J	22.3	10.0	16.7	mg/kg	1		04/24/24 22:06
Surrogates									
5a Androstane (surr)	88.1		50-150			%	1		04/24/24 22:06

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 22:06
Container ID: 1241659032-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.995 g
Prep Extract Vol: 2 mL

Results of **RIR24SS135SP502**

Client Sample ID: **RIR24SS135SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659033
Lab Project ID: 1241659

Collection Date: 04/23/24 16:10
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):16.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	452		122	54.9	91.5	mg/kg	1		04/24/24 18:05
Surrogates									
5a Androstane (surr)	122		50-150			%	1		04/24/24 18:05

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 18:05
Container ID: 1241659033-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.772 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS135SP502**

Client Sample ID: **RIR24SS135SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659033
Lab Project ID: 1241659

Collection Date: 04/23/24 16:10
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):16.2
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	162		122	54.9	91.5	mg/kg	1		04/24/24 22:16
Surrogates									
5a Androstane (surr)	92.6		50-150			%	1		04/24/24 22:16

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 22:16
Container ID: 1241659033-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.772 g
Prep Extract Vol: 2 mL

Results of **RIR24SS136SP505**

Client Sample ID: **RIR24SS136SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659034
Lab Project ID: 1241659

Collection Date: 04/23/24 16:20
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):79.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.5	U	24.7	11.1	18.5	mg/kg	1		04/24/24 19:06
Surrogates									
5a Androstane (surr)	97.1		50-150			%	1		04/24/24 19:06

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 19:06
Container ID: 1241659034-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.848 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS136SP505**

Client Sample ID: **RIR24SS136SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659034
Lab Project ID: 1241659

Collection Date: 04/23/24 16:20
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):79.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.4	J	24.7	11.1	18.5	mg/kg	1		04/24/24 22:46
Surrogates									
5a Androstane (surr)	86.5		50-150			%	1		04/24/24 22:46

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 22:46
Container ID: 1241659034-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.848 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS136SP5059**

Client Sample ID: **RIR24SS136SP5059**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659035
Lab Project ID: 1241659

Collection Date: 04/23/24 16:21
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):79.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.8	U	25.0	11.2	18.8	mg/kg	1		04/24/24 19:16
Surrogates									
5a Androstane (surr)	95.5		50-150			%	1		04/24/24 19:16

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 19:16
Container ID: 1241659035-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.794 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS136SP5059**

Client Sample ID: **RIR24SS136SP5059**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659035
Lab Project ID: 1241659

Collection Date: 04/23/24 16:21
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):79.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.3	J	25.0	11.2	18.8	mg/kg	1		04/24/24 22:56
Surrogates									
5a Androstane (surr)	83.8		50-150			%	1		04/24/24 22:56

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 22:56
Container ID: 1241659035-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.794 g
Prep Extract Vol: 2 mL

Results of **RIR24SS137SP509**

Client Sample ID: **RIR24SS137SP509**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659036
Lab Project ID: 1241659

Collection Date: 04/23/24 16:29
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):73.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	20.0	U	26.6	12.0	20.0	mg/kg	1		04/24/24 19:26
Surrogates									
5a Androstane (surr)	101		50-150			%	1		04/24/24 19:26

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/24/24 19:26
Container ID: 1241659036-A

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 04/24/24 12:40
Prep Initial Wt./Vol.: 22.962 g
Prep Extract Vol: 2 mL

Print Date: 04/30/2024 3:18:14PM

J flagging is activated

Results of **RIR24SS137SP509**

Client Sample ID: **RIR24SS137SP509**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241659036
Lab Project ID: 1241659

Collection Date: 04/23/24 16:29
Received Date: 04/24/24 08:05
Matrix: Soil/Solid (dry weight)
Solids (%):73.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	14.3	J	26.6	12.0	20.0	mg/kg	1		04/24/24 23:06
Surrogates									
5a Androstane (surr)	85.1		50-150			%	1		04/24/24 23:06

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/24/24 23:06
Container ID: 1241659036-A

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/24/24 12:00
Prep Initial Wt./Vol.: 22.962 g
Prep Extract Vol: 2 mL

Method Blank

Blank ID: MB for HBN 1876332 [SPT/12023]
Blank Lab ID: 1760876

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241659001, 1241659002, 1241659003, 1241659004, 1241659005, 1241659006, 1241659007, 1241659008, 1241659009, 1241659010, 1241659013, 1241659014, 1241659015, 1241659016, 1241659017, 1241659018, 1241659019, 1241659020, 1241659021, 1241659022, 1241659023, 1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031,

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Solids	100				%

Batch Information

Analytical Batch: SPT12023
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT
Analytical Date/Time: 4/24/2024 7:52:00PM

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Duplicate Sample Summary

Original Sample ID: 1241646002
Duplicate Sample ID: 1760877
QC for Samples:

Analysis Date: 04/24/2024 19:52
Matrix: Soil/Solid (dry weight)

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	69.3	68.8	%	0.70	(< 15)

Batch Information

Analytical Batch: SPT12023
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/30/2024 3:18:19PM

Duplicate Sample Summary

Original Sample ID: 1241646008
Duplicate Sample ID: 1760878

Analysis Date: 04/24/2024 19:52
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241659001, 1241659002, 1241659003, 1241659004, 1241659005, 1241659006, 1241659007, 1241659008, 1241659009, 1241659010, 1241659013, 1241659014, 1241659015, 1241659016, 1241659017, 1241659018,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	91.5	92.5	%	1.10	(< 15)

Batch Information

Analytical Batch: SPT12023
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/30/2024 3:18:19PM

Duplicate Sample Summary

Original Sample ID: 1241659021
Duplicate Sample ID: 1760879

Analysis Date: 04/24/2024 19:52
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241659001, 1241659002, 1241659003, 1241659004, 1241659005, 1241659006, 1241659007, 1241659008, 1241659009, 1241659010, 1241659013, 1241659014, 1241659015, 1241659016, 1241659017, 1241659018,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	84.1	84.5	%	0.47	(< 15)

Batch Information

Analytical Batch: SPT12023
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/30/2024 3:18:19PM

Duplicate Sample Summary

Original Sample ID: 1241659030
Duplicate Sample ID: 1760880

Analysis Date: 04/24/2024 19:52
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241659022, 1241659023, 1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031, 1241659032, 1241659033, 1241659034, 1241659035, 1241659036

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	43.6	55.4	%	24.00*	(< 15)

Batch Information

Analytical Batch: SPT12023
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/30/2024 3:18:19PM

Method Blank

Blank ID: MB for HBN 1876242 [XXX/49359]
Blank Lab ID: 1760760

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031, 1241659032, 1241659033, 1241659034, 1241659035, 1241659036

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	84.3	70-125		0	%

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/24/2024 8:17:00PM

Prep Batch: XXX49359
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/24/2024 12:00:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241659 [XXX49359]
Blank Spike Lab ID: 1760761
Date Analyzed: 04/24/2024 20:27

Spike Duplicate ID: LCSD for HBN 1241659 [XXX49359]
Spike Duplicate Lab ID: 1760762
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031, 1241659032, 1241659033, 1241659034, 1241659035, 1241659036

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	440	99	444	444	100	(70-125)	0.92	(< 20)
Surrogates									
5a Androstane (surr)	8.89		94	8.89		97	(70-125)	3.40	

Batch Information

Analytical Batch: **XFC16830**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49359**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/24/2024 12:00**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241659026
MS Sample ID: 1241659027 BMS
MSD Sample ID: 1241659028 BMSD

Analysis Date: 04/24/2024 21:07
Analysis Date: 04/24/2024 21:16
Analysis Date: 04/24/2024 21:26
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	17.4U	516	527	102	512	521	102	60-140	1.00	(< 50)
Surrogates										
5a Androstane (surr)		10.3	10.2	99	10.2	9.85	96	50-150	3.10	

Batch Information

Analytical Batch: XFC16830
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/24/2024 9:16:00PM

Prep Batch: XXX49359
Prep Method: Sonication Extraction Soil AK102 Silica
Prep Date/Time: 4/24/2024 12:00:00PM
Prep Initial Wt./Vol.: 22.52g
Prep Extract Vol: 2.00mL

Print Date: 04/30/2024 3:18:27PM

Method Blank

Blank ID: MB for HBN 1876243 [XXX/49360]
Blank Lab ID: 1760763

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031, 1241659032, 1241659033, 1241659034, 1241659035, 1241659036

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	101	60-120		0	%

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/24/2024 4:34:00PM

Prep Batch: XXX49360
Prep Method: SW3550C
Prep Date/Time: 4/24/2024 12:40:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241659 [XXX49360]
Blank Spike Lab ID: 1760764
Date Analyzed: 04/24/2024 16:45

Spike Duplicate ID: LCSD for HBN 1241659 [XXX49360]
Spike Duplicate Lab ID: 1760765
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241659024, 1241659025, 1241659026, 1241659029, 1241659030, 1241659031, 1241659032, 1241659033, 1241659034, 1241659035, 1241659036

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	520	117	444	518	116	(75-125)	0.40	(< 20)
Surrogates									
5a Androstane (surr)	8.89		110	8.89		112	(60-120)	2.10	

Batch Information

Analytical Batch: **XFC16831**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49360**
Prep Method: **SW3550C**
Prep Date/Time: **04/24/2024 12:40**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Billable Matrix Spike Summary

Original Sample ID: 1241659026
MS Sample ID: 1241659027 BMS
MSD Sample ID: 1241659028 BMSD

Analysis Date: 04/24/2024 17:15
Analysis Date: 04/24/2024 17:25
Analysis Date: 04/24/2024 17:35
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	17.4U	516	576	112	512	577	113	60-140	0.26	(< 50)
Surrogates										
5a Androstane (surr)		10.3	10.7	104	10.2	10.9	106	50-150	1.80	

Batch Information

Analytical Batch: XFC16831
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/24/2024 5:25:00PM

Prep Batch: XXX49360
Prep Method: Sonication Extr Soil AK102/3 Reg 2Ml
Prep Date/Time: 4/24/2024 12:40:00PM
Prep Initial Wt./Vol.: 22.52g
Prep Extract Vol: 2.00mL

Print Date: 04/30/2024 3:18:34PM

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CHAIN OF CUSTODY RECORD

1241659

P#409567 GM

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois | PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI | PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl | E-MAIL: jdahl@alaskapeninsulacorp.com | Profile #:

INVOICE TO: TALCES JV, LLC | QUOTE #: | P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	REMARKS/LOC ID
1A	RIR24SS110SP31.5	4/23/24	920	$0	1	Grab		X	
2A	RIR24SS111SP31.5	4/23/24	928	$0	1	Grab		X	
3A	RIR24SS112SP303	4/23/24	934	$0	1	Grab		X	
4A	RIR24SS113SP31.5	4/23/24	945	$0	1	Grab		X	
5A	RIR24SS114SP32.5	4/23/24	954	$0	1	Grab		X	
6A	RIR24SS115SP301	4/23/24	1036	$0	1	Grab		X	
7A	RIR24SS115SP3019	4/23/24	1038	$0	1	Grab		X	
8A	RIR24SS116SP302	4/23/24	1050	$0	1	Grab		X	
9A	RIR24SS117SP402	4/23/24	1142	$0	1	Grab		X	
10A 10AC	RIR24SS118SP400	4/23/24	1152	$0	3	Grab		X	MS/MSD

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/23/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/24/24	8:05	Received For Laboratory By: Jeremy Gorham

Section 4 — DOD Project? Yes No

Cooler ID: RIR002

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 Hr Rapid Turnaround

Temp Blank °C: 2.5 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) FR INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

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CHAIN OF CUSTODY RECORD

1241659

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	4°C DRO-SG	REMARKS/LOC ID
7A	RIR24SS119SP4 8.5	4/23/24	1207	SO	1	Grab		X	
8A	RIR24SS120SP402	4/23/24	1229	SO	1	Grab		X	
9A	RIR24SS121SP404	4/23/24	1236	SO	1	Grab		X	
10A	RIR24SS122SP405	4/23/24	1245	SO	1	Grab		X	
11A	RIR24SS123SP41.5	4/23/24	1322	SO	1	Grab		X	
12A	RIR24SS124SP4 4.5	4/23/24	1330	SO	1	Grab		X	
13A	RIR24SS125SP406	4/23/24	1340	SO	1	Grab		X	
14A	RIR24SS126SP41.3	4/23/24	1358	SO	1	Grab		X	
15A	RIR24SS127SP403	4/23/24	1410	SO	1	Grab		X	
16A	RIR24 SS127SP4039	4/23/24	1411	SO	1	Grab		X	

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/23/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/24/24	8:05	Received For Laboratory By: Jeremy Cortes

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIR002

Requested Turnaround Time and/or Special Instructions:

24 Hr Rapid Turnaround

Temp Blank °C: 2.5 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) FR INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

http://www.sgs.com/terms-and-conditions

SGS

SGS North America Inc.
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1241659

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	TALCES JV, LLC		
CONTACT:	Greg DuBois	PHONE #:	1 (907) 830-8360
PROJECT NAME:	Ralston Island RI	PROJECT/ PWSID/ PERMIT#:	697DCK-24-C-00040
REPORTS TO:	Julie Dahl	E-MAIL:	jdahl@alaskapeninsulacorp.com
		Profile #:	
INVOICE TO:	TALCES JV, LLC	QUOTE #:	
		P.O. #:	Ralston Is.

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
23A	RIR24SS128SP45.5	4/23/24	1424	SO	1	Grab		X	
24A	RIR24SS129SP502	4/23/24	1442	SO	1	Grab		X	
25A	RIR24 SS130SP54.5	4/23/24	1450	SO	1	Grab		X	
26A 27A 28A	RIR24 SS131 SP55.5	4/23/24	1524	SO	3	Grab		X	MS/MSD
29A	RIR24SS131 SP55.59	4/23/24	1525	SO	1	Grab		X	
30A	RIR24SS132SP502	4/23/24	1543	SO	1	Grab		X	
31A	RIR24SS133SP505	4/23/24	1554	SO	1	Grab		X	
32A	RIR24SS134 SP54.5	4/23/24	1608	SO	1	Grab		X	
33A	RIR24SS135 SP502	4/23/24	1618	SO	1	Grab		X	
34A	RIR24SS136SP505	4/23/24	1620	SO	1	Grab		X	

Section 3 — Preservative

Section 4

DOD Project? Yes No

Cooler ID: RIR002

Data Deliverable Requirements:

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/23/24	1900	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/24/24	8:05	Received For Laboratory By: Jeremy Groth

Requested Turnaround Time and/or Special Instructions:

24 Hr Turnaround

Temp Blank °C: 2.5 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) FR INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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CHAIN OF CUSTODY RECORD

1241659

www.us.sgs.com

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois | PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI | PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl | E-MAIL: jdahl@alaskapeninsulacorp.com | Profile #:

INVOICE TO: TALCES JV, LLC | QUOTE #: | P.O. #: Ralston Is.

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS
29 A	RIR24SS136SP5059	4/23/24	1621	SO	1	Grab		X	REMARKS/LOC ID
30 A	RIR24SS137SP509	4/23/24	1629	SO	1	Grab		X	
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								

Section 3 — Preservative

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIR002

Requested Turnaround Time and/or Special Instructions:

24 Hr Turnaround

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/23/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/24/24	8:05	Received For Laboratory By: Jeramy Corth

Temp Blank °C: 2.5 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) FR INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [X] Commerical Delivery [ ]

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1241659

SGS

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	MS/MSD
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials:
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241659001-A	No Preservative Required	OK			
1241659002-A	No Preservative Required	OK			
1241659003-A	No Preservative Required	OK			
1241659004-A	No Preservative Required	OK			
1241659005-A	No Preservative Required	OK			
1241659006-A	No Preservative Required	OK			
1241659007-A	No Preservative Required	OK			
1241659008-A	No Preservative Required	OK			
1241659009-A	No Preservative Required	OK			
1241659010-A	No Preservative Required	OK			
1241659010-B	No Preservative Required	OK			
1241659010-C	No Preservative Required	OK			
1241659011-A	No Preservative Required	OK			
1241659011-B	No Preservative Required	OK			
1241659011-C	No Preservative Required	OK			
1241659012-A	No Preservative Required	OK			
1241659012-B	No Preservative Required	OK			
1241659012-C	No Preservative Required	OK			
1241659013-A	No Preservative Required	OK			
1241659014-A	No Preservative Required	OK			
1241659015-A	No Preservative Required	OK			
1241659016-A	No Preservative Required	OK			
1241659017-A	No Preservative Required	OK			
1241659018-A	No Preservative Required	OK			
1241659019-A	No Preservative Required	OK			
1241659020-A	No Preservative Required	OK			
1241659021-A	No Preservative Required	OK			
1241659022-A	No Preservative Required	OK			
1241659023-A	No Preservative Required	OK			
1241659024-A	No Preservative Required	OK			
1241659025-A	No Preservative Required	OK			
1241659026-A	No Preservative Required	OK			
1241659026-B	No Preservative Required	OK			
1241659026-C	No Preservative Required	OK			
1241659027-A	No Preservative Required	OK			
1241659027-B	No Preservative Required	OK			
1241659027-C	No Preservative Required	OK			
1241659028-A	No Preservative Required	OK			
1241659028-B	No Preservative Required	OK			
1241659028-C	No Preservative Required	OK			
1241659029-A	No Preservative Required	OK			
1241659030-A	No Preservative Required	OK			
1241659031-A	No Preservative Required	OK			
1241659032-A	No Preservative Required	OK			
1241659033-A	No Preservative Required	OK			
1241659034-A	No Preservative Required	OK			
1241659035-A	No Preservative Required	OK			
1241659036-A	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

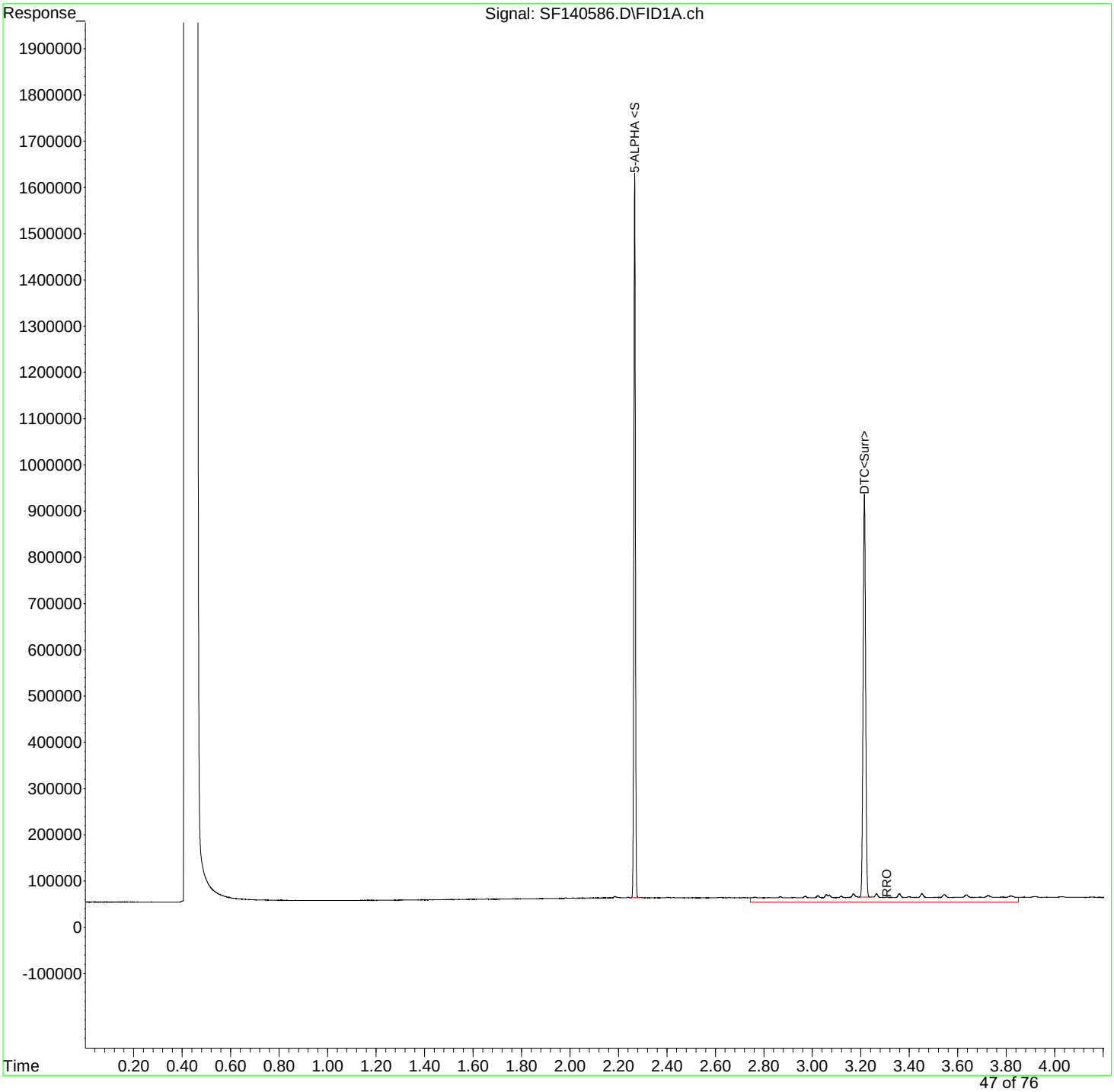
Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140586.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 11:10
Operator : T.L
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 24 11:31:31 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

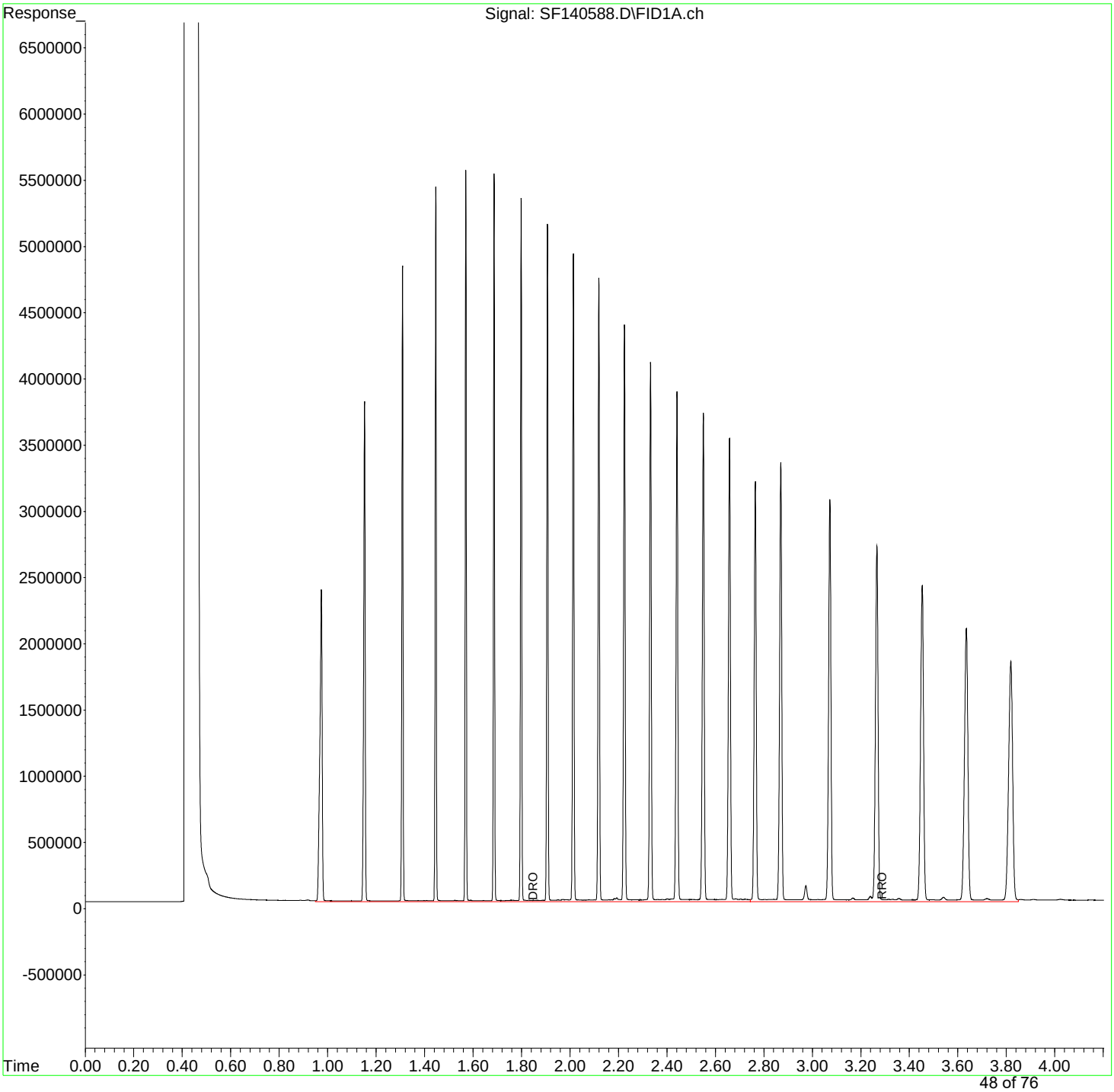
Volume Inj. :
Signal Phase :
Signal Info :



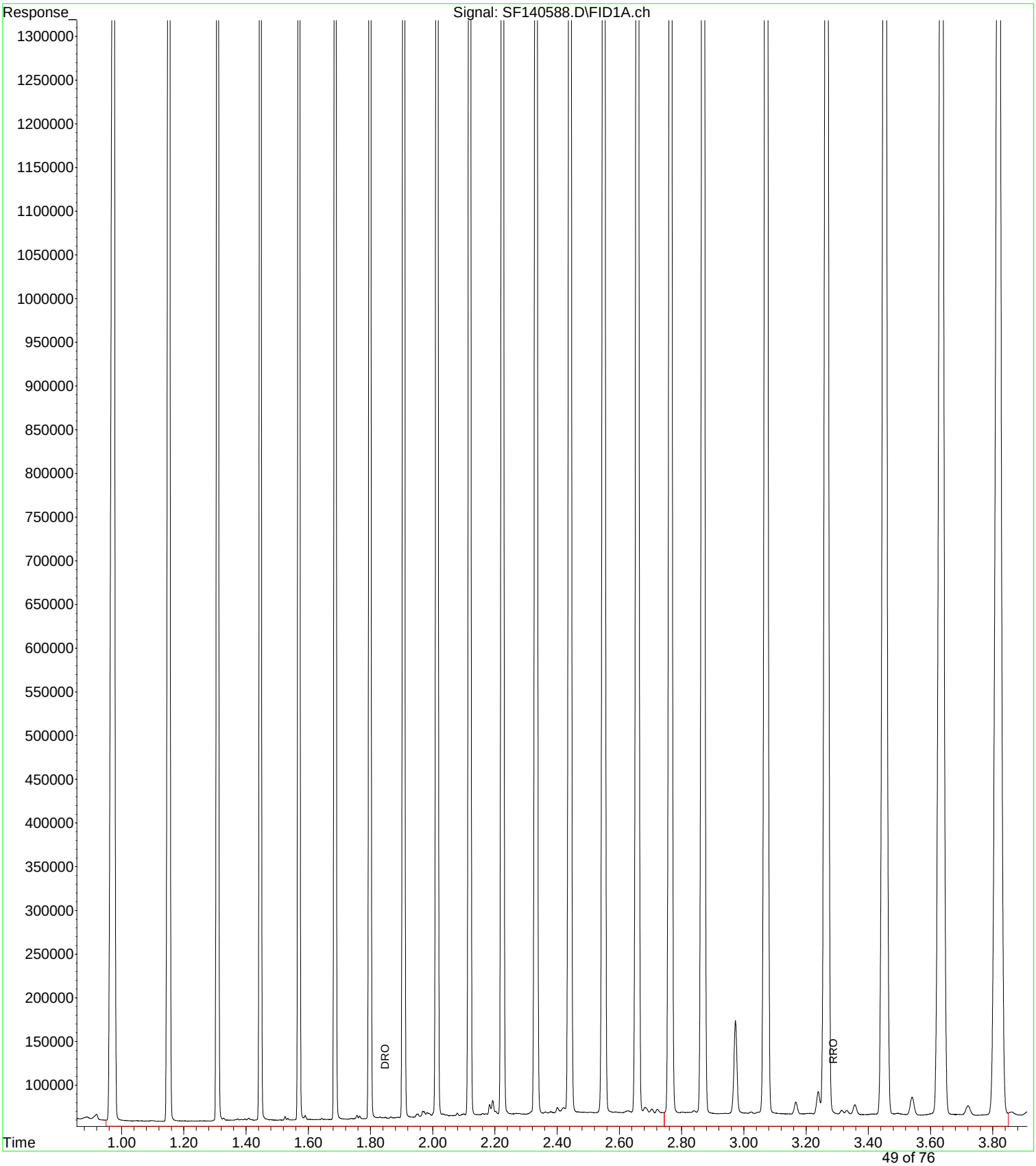
Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140588.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 11:20
Operator : T.L
Sample : NAS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 24 11:31:22 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



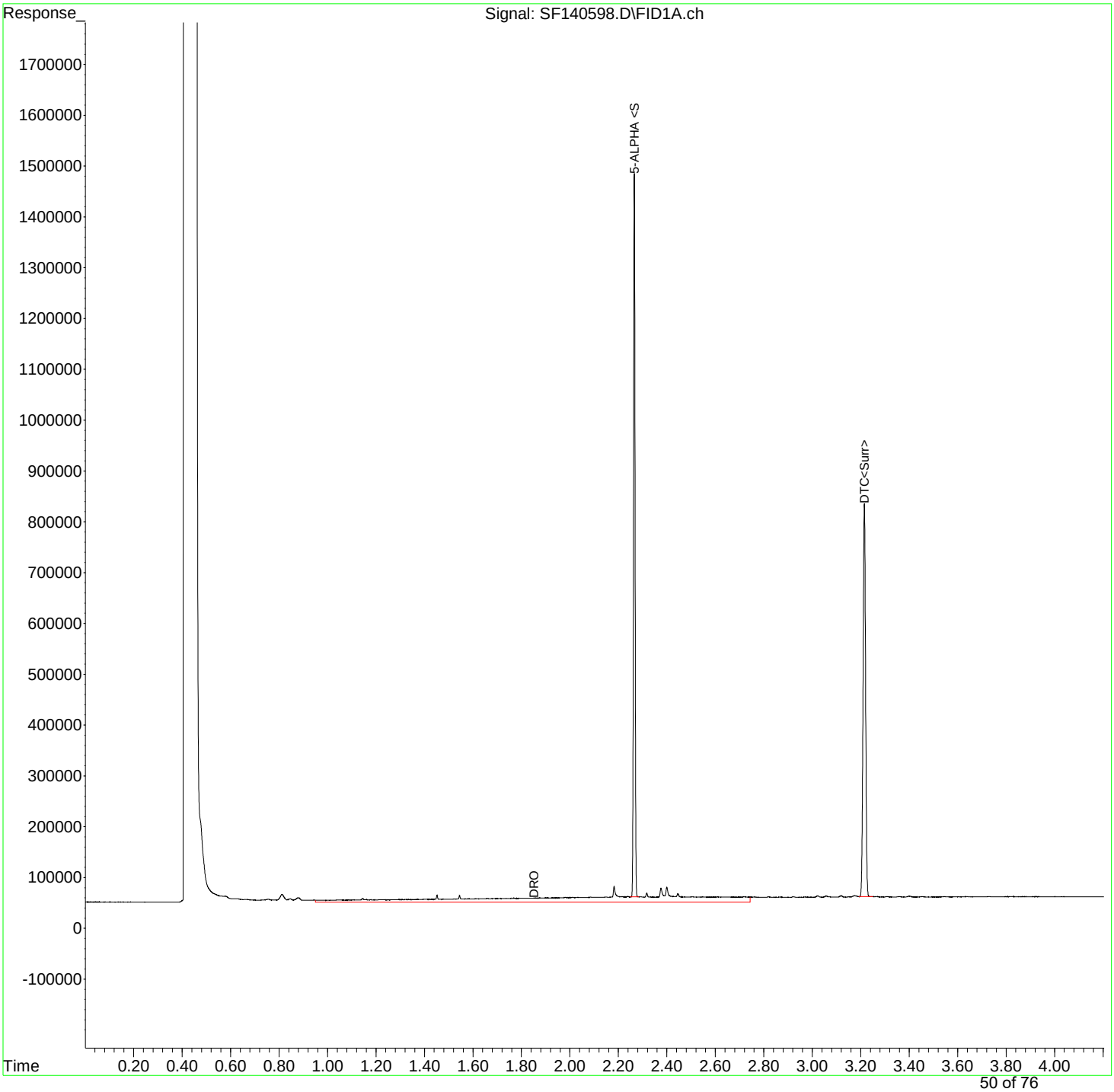
File :Z:\DATA\SF\Data\SF04242024\SF140588.D
Operator : T.L
Acquired : 24 Apr 2024 11:20 using AcqMethod SF_MXTDUAL_2023.M
Instrument : SF
Sample Name: NAS
Misc Info :
Vial Number: 2



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140598.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 12:34
Operator : T.L
Sample : 1760589 MB 49358
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 24 13:03:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140652.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 17:05
Operator : T.L
Sample : 1241659024
Misc :
ALS Vial : 29 Sample Multiplier: 1

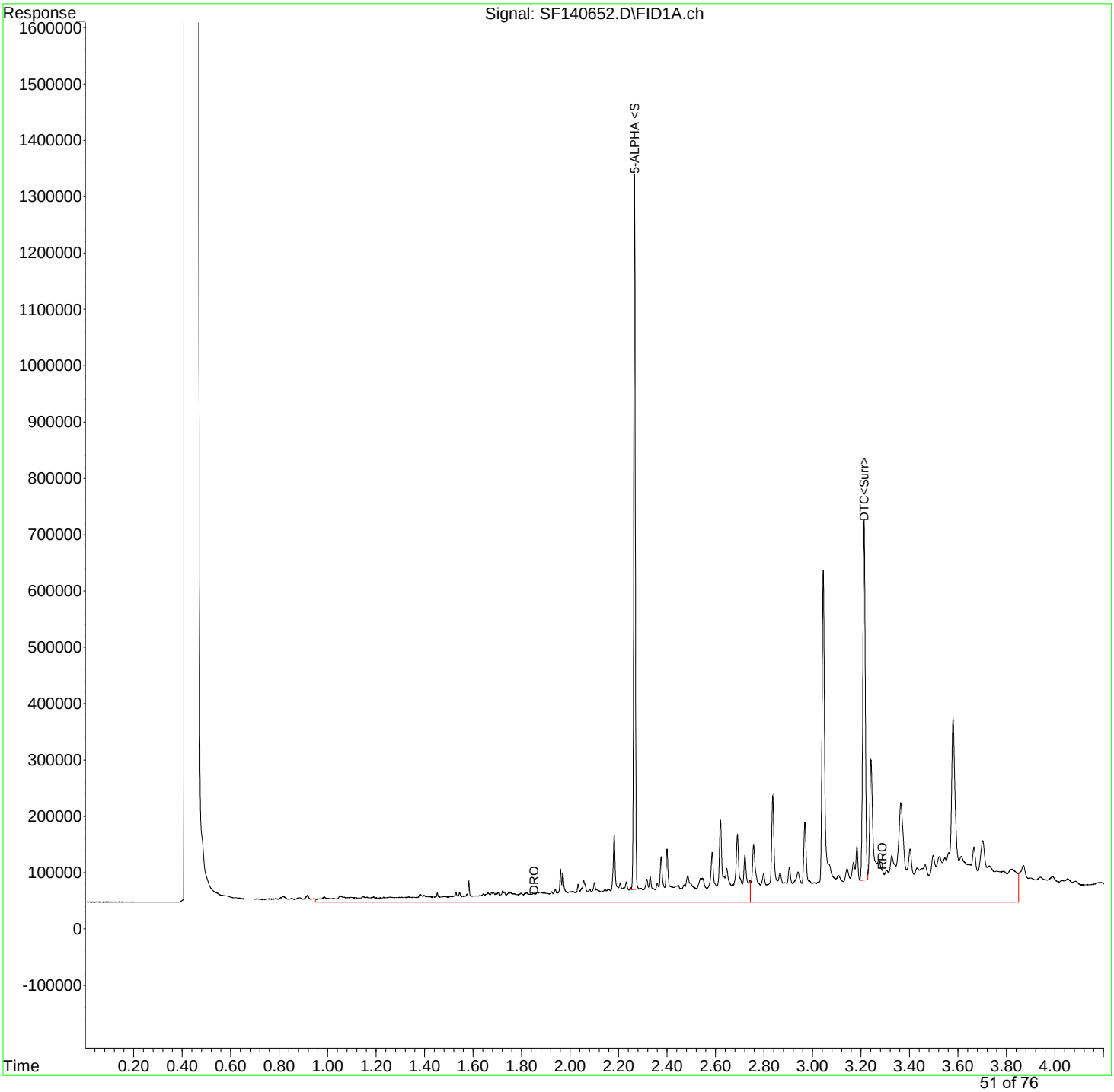
Integration File: autoint1.e
Quant Time: Apr 24 17:15:24 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140666.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:15
Operator : T.L
Sample : 1241659025
Misc :
ALS Vial : 36 Sample Multiplier: 1

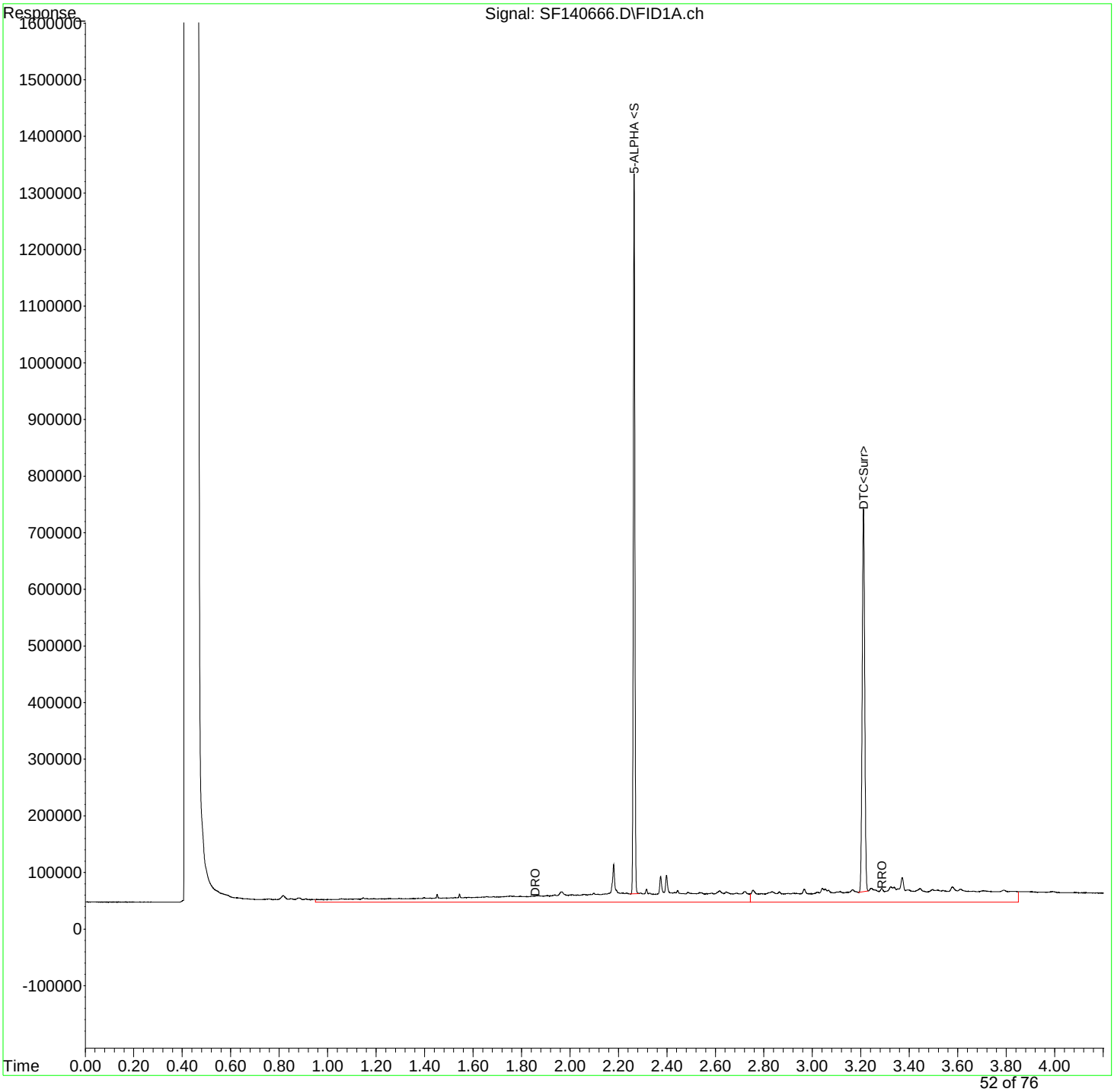
Integration File: autoint1.e
Quant Time: Apr 24 18:24:31 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140654.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 17:15
Operator : T.L
Sample : 1241659026 PS
Misc :
ALS Vial : 30 Sample Multiplier: 1

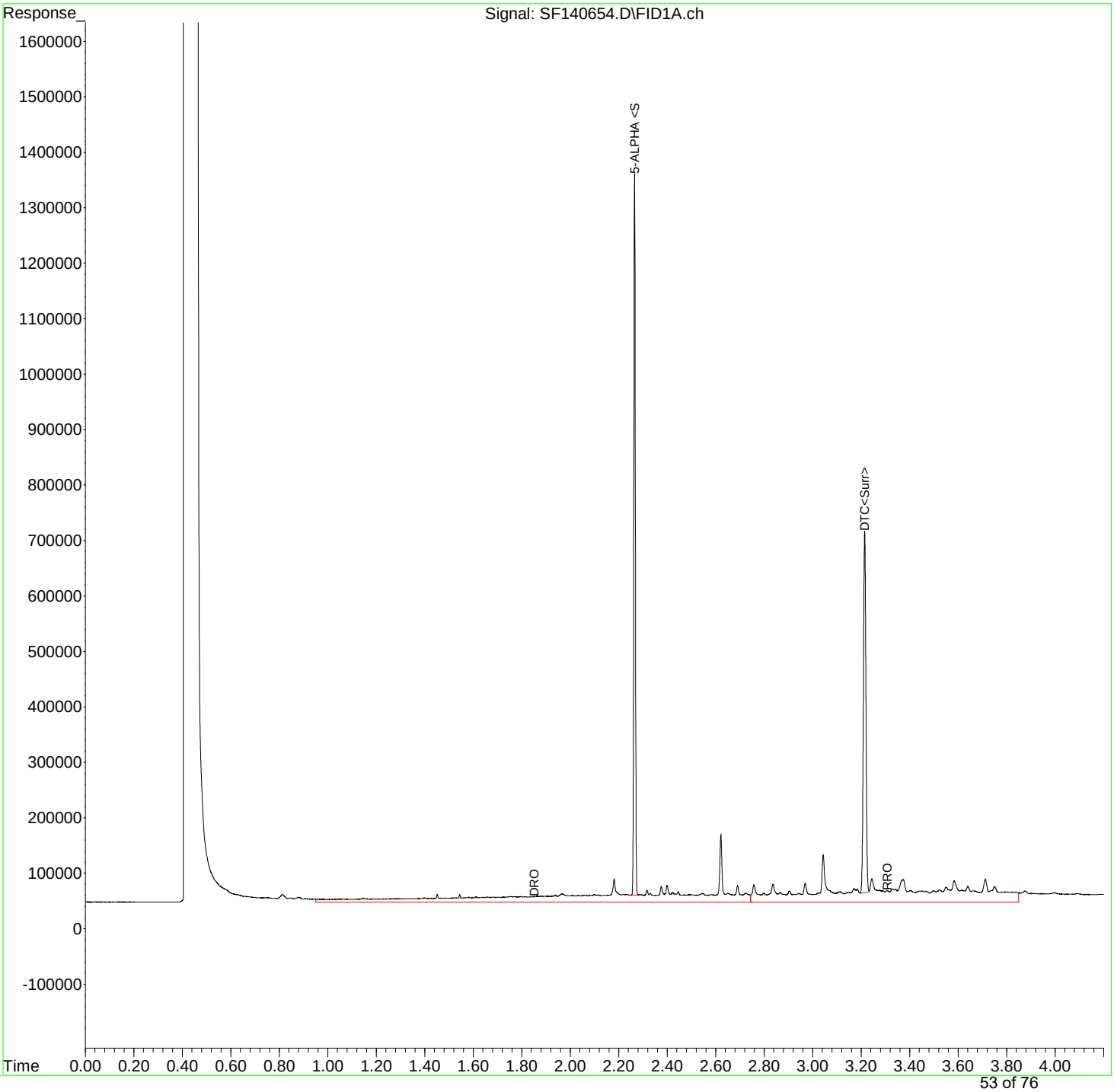
Integration File: autoint1.e
Quant Time: Apr 24 17:29:18 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashi Dhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140668.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:26
Operator : T.L
Sample : 1241659029
Misc :
ALS Vial : 37 Sample Multiplier: 1

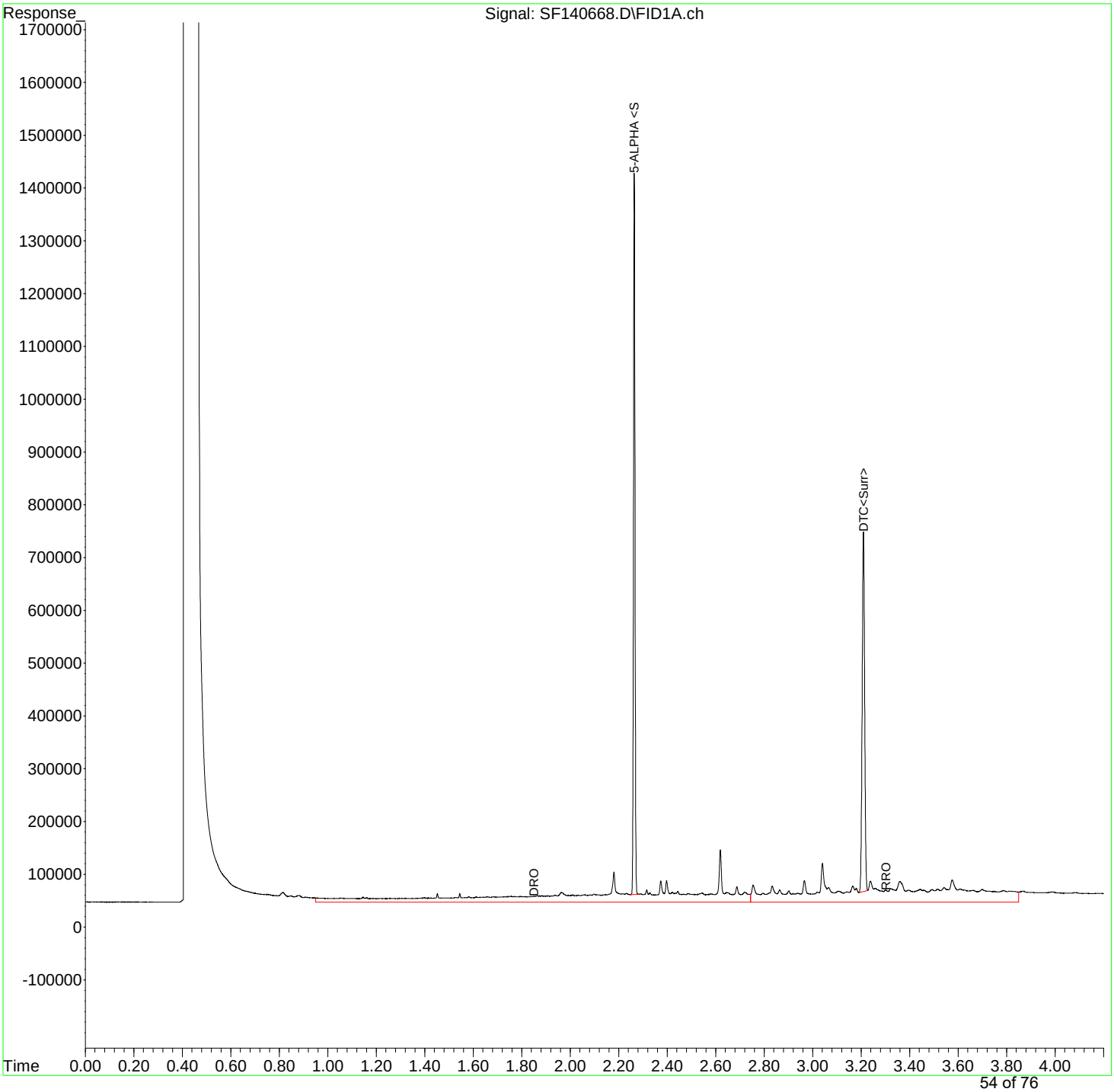
Integration File: autoint1.e
Quant Time: Apr 24 18:35:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140660.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 17:45
Operator : T.L
Sample : 1241659030
Misc :
ALS Vial : 33 Sample Multiplier: 1

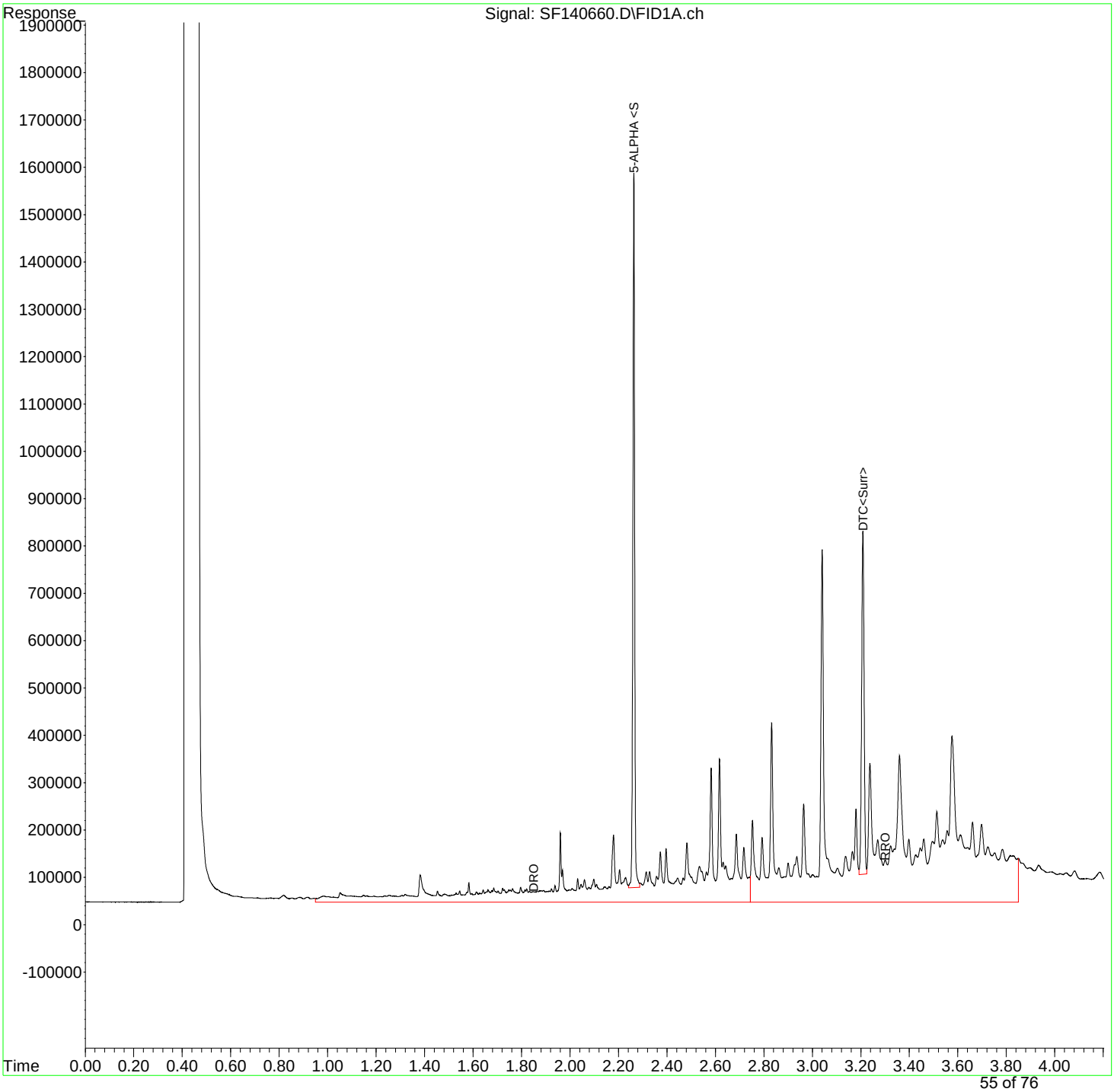
Integration File: autoint1.e
Quant Time: Apr 24 17:51:57 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140662.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 17:55
Operator : T.L
Sample : 1241659031
Misc :
ALS Vial : 34 Sample Multiplier: 1

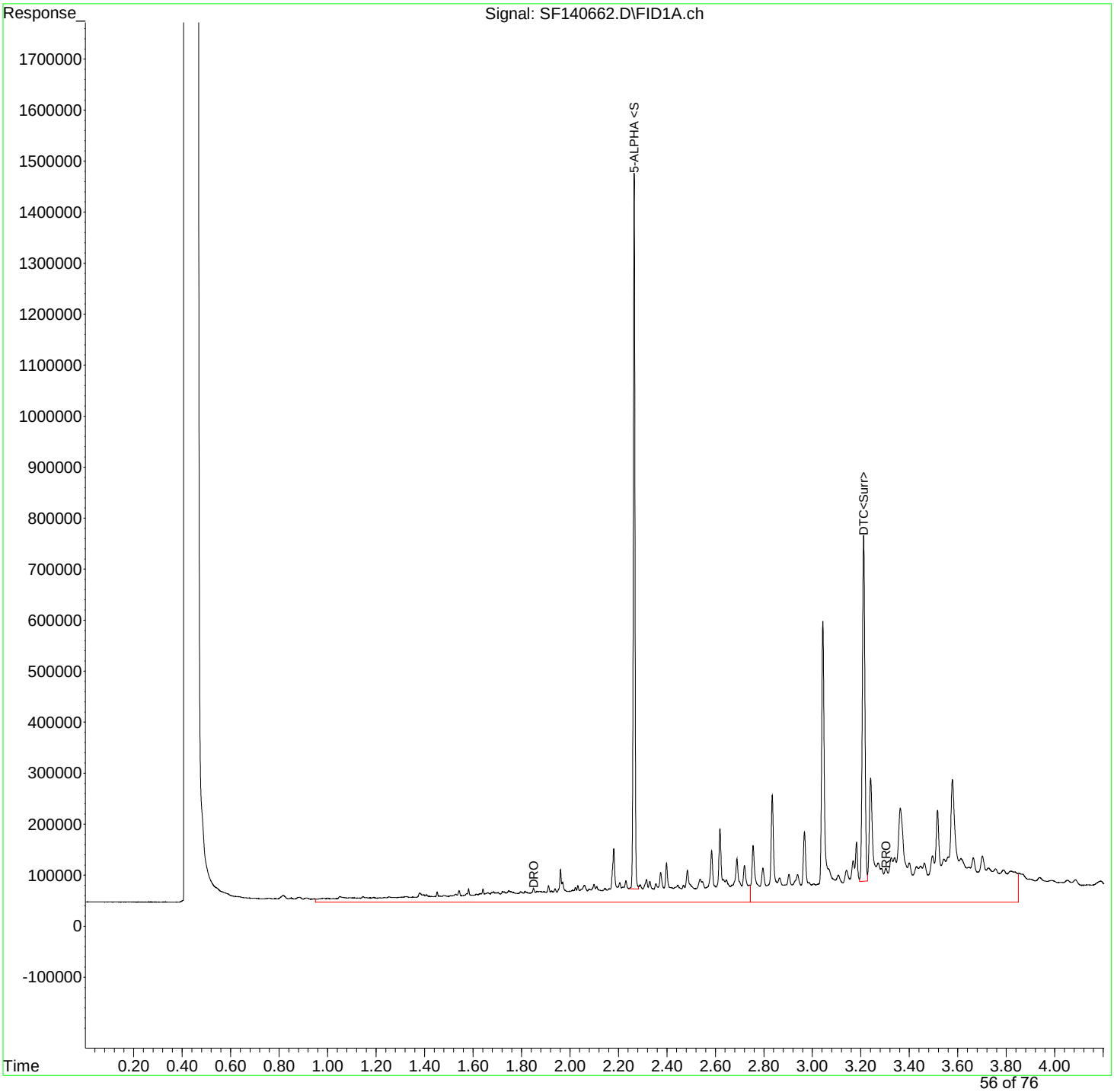
Integration File: autoint1.e
Quant Time: Apr 24 18:03:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Zashidhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140670.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:36
Operator : T.L
Sample : 1241659032
Misc :
ALS Vial : 38 Sample Multiplier: 1

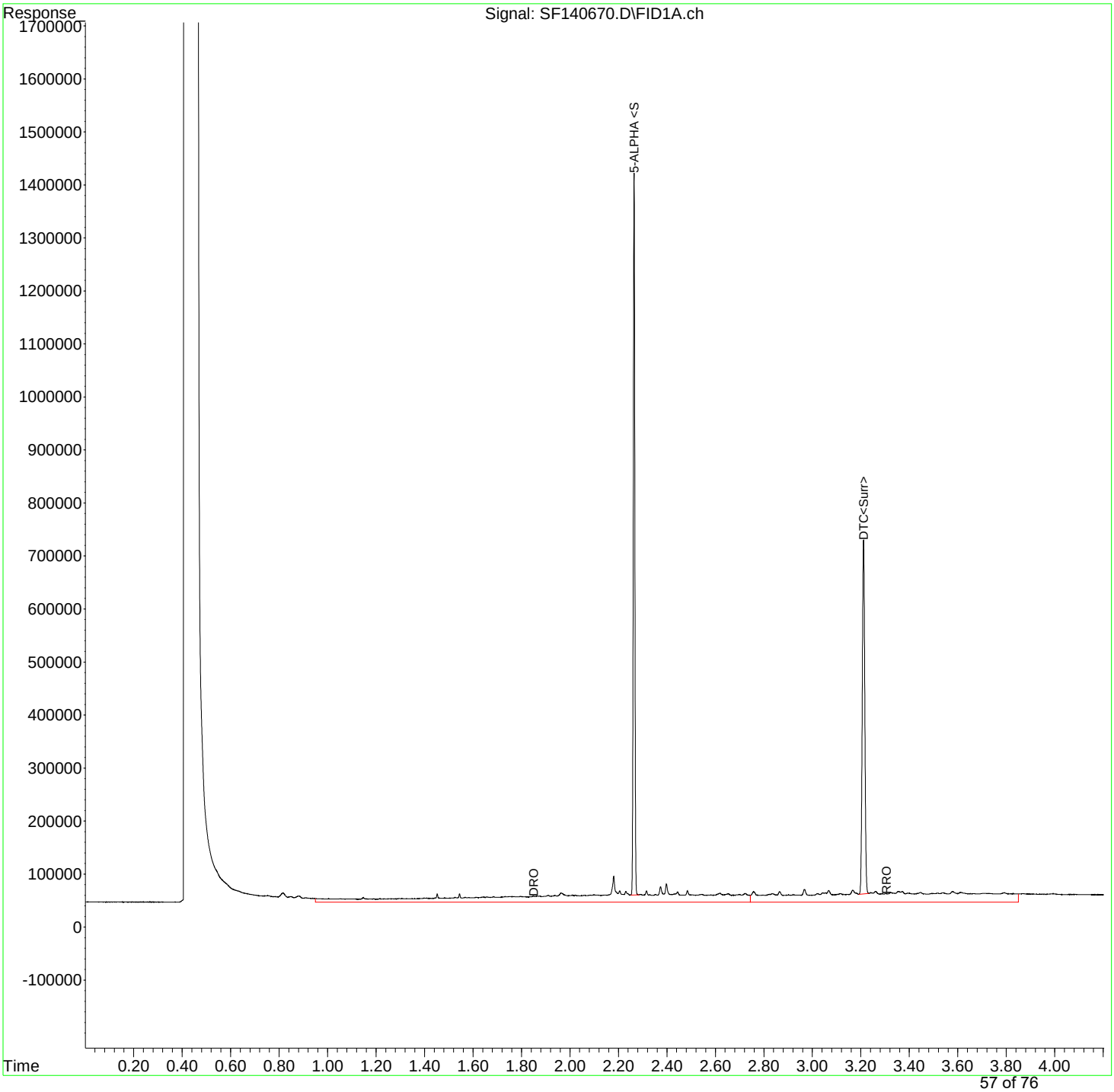
Integration File: autoint1.e
Quant Time: Apr 24 18:45:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Shamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140664.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:05
Operator : T.L
Sample : 1241659033
Misc :
ALS Vial : 35 Sample Multiplier: 1

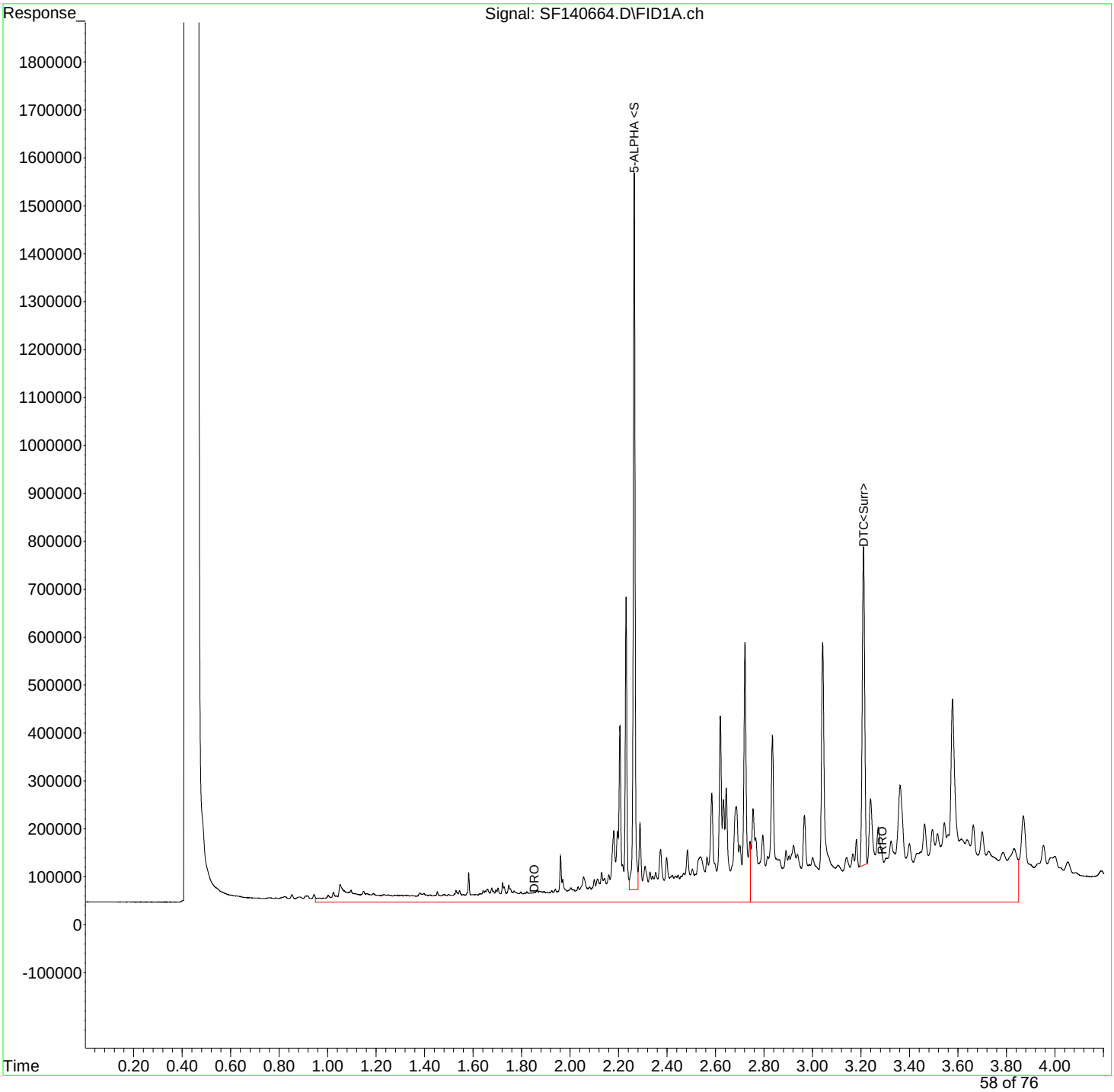
Integration File: autoint1.e
Quant Time: Apr 24 18:15:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashia Thamu

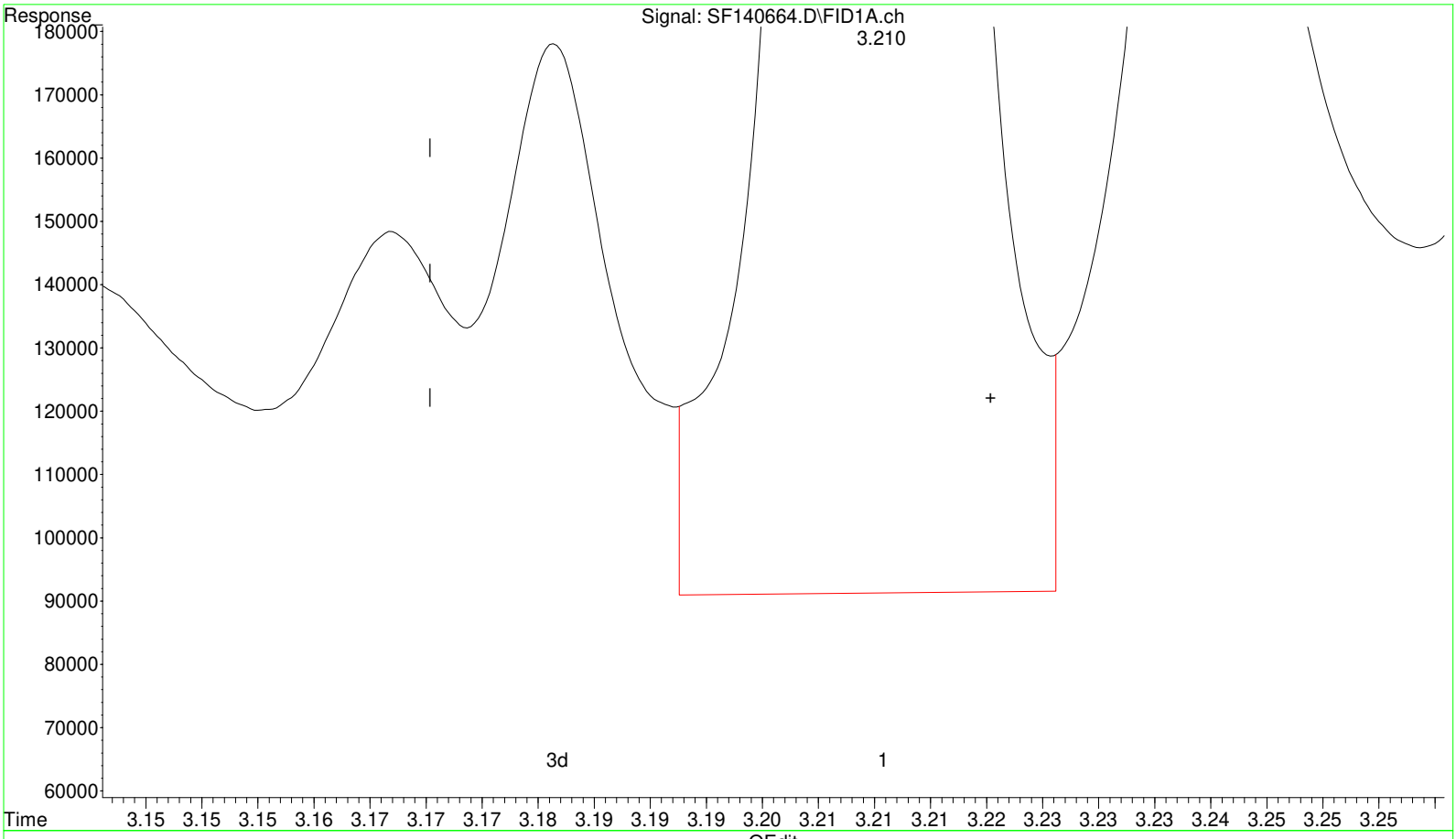


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140664.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:05
Operator : T.L
Sample : 1241659033
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 24 18:14:38 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.211min 97.223 µg/mL

response 5343907

O-BLC

Apr 24, 2024

Tashi Lhamu

Apr 25, 2024

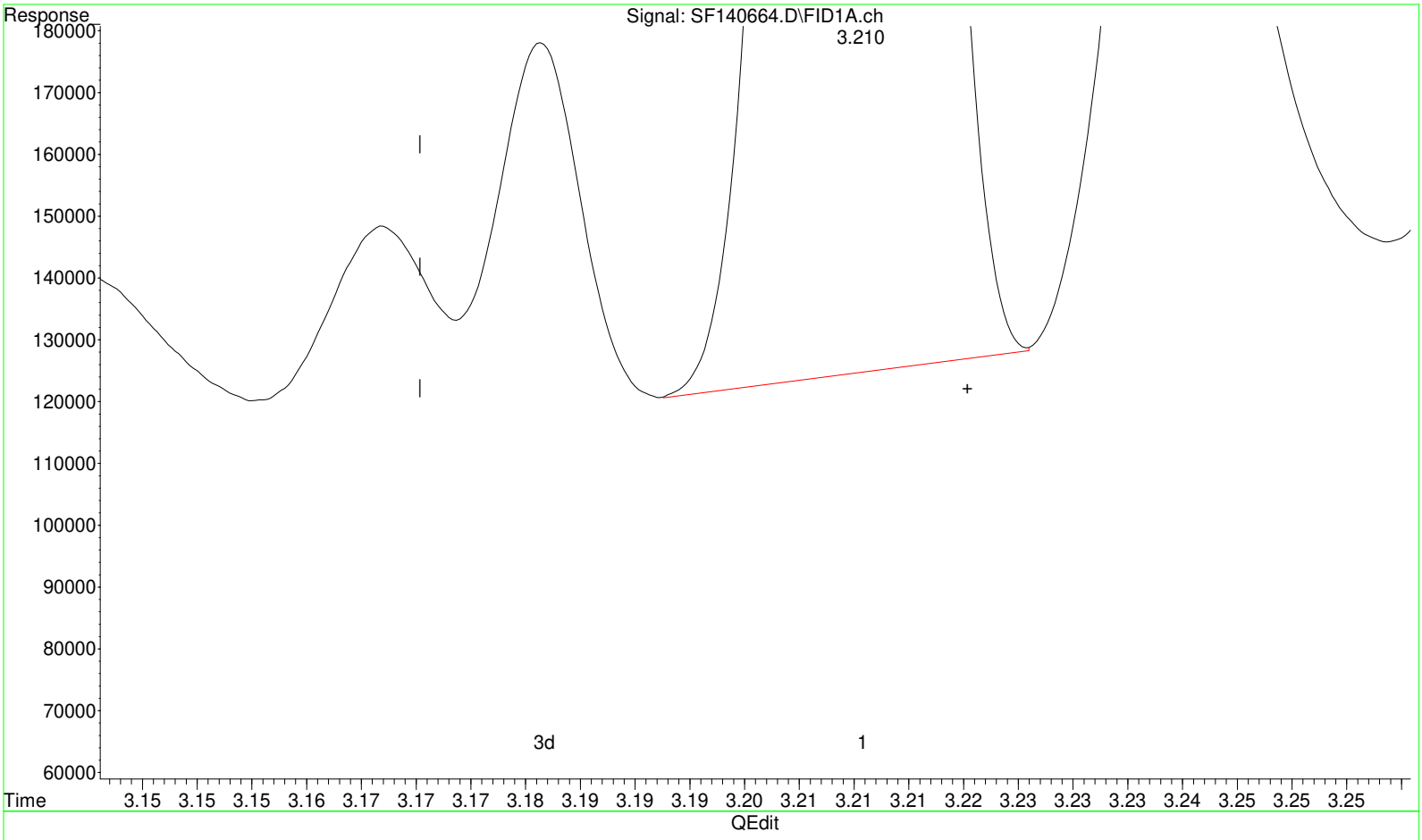
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140664.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 18:05
Operator : T.L
Sample : 1241659033
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 24 18:14:38 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.210min 85.082 µg/mL m

response 4676577

M-BLC
Apr 24, 2024

Apr 25, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140676.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 19:06
Operator : T.L
Sample : 1241659034
Misc :
ALS Vial : 39 Sample Multiplier: 1

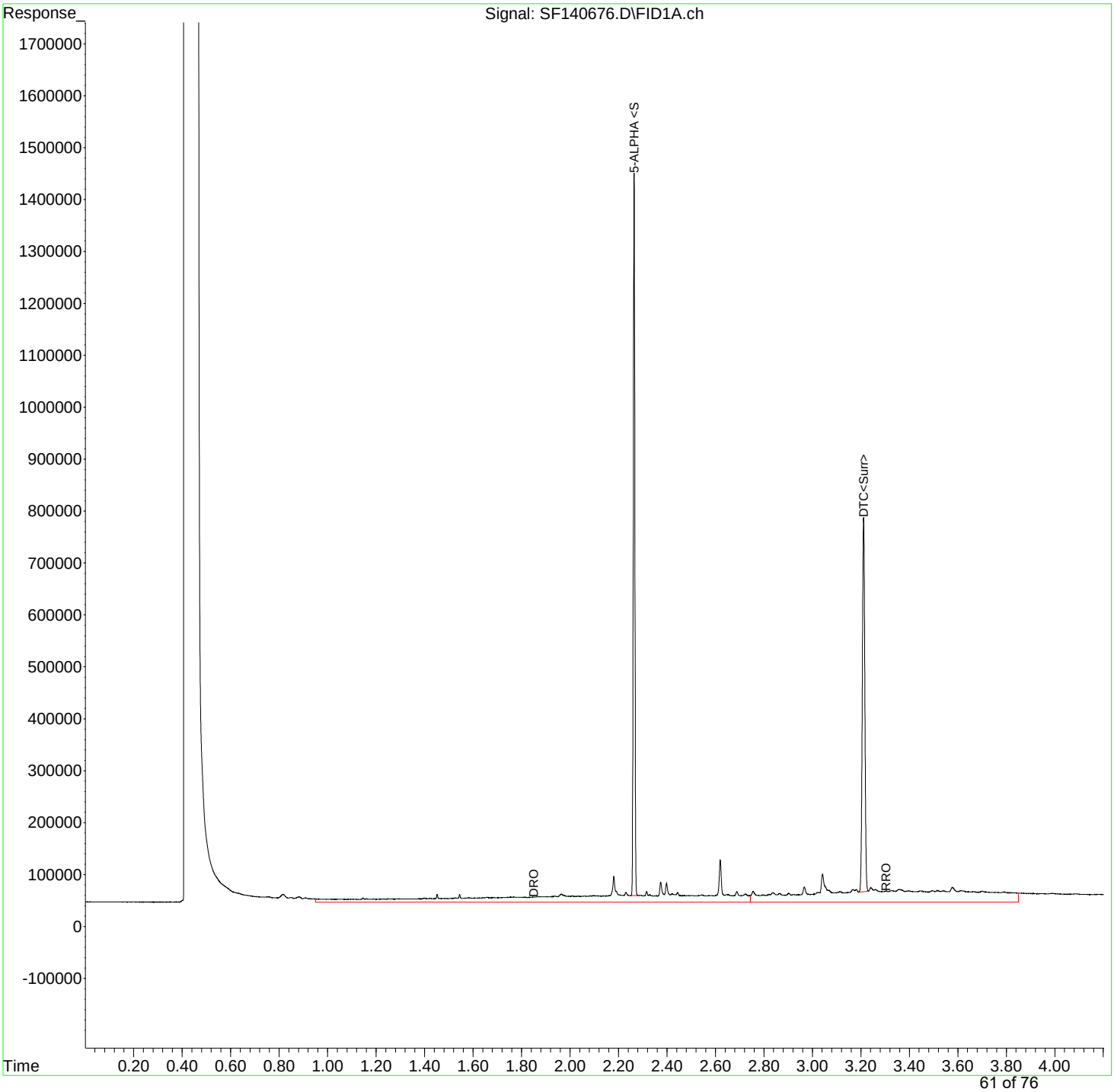
Integration File: autoint1.e
Quant Time: Apr 25 08:48:14 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140678.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 19:16
Operator : T.L
Sample : 1241659035
Misc :
ALS Vial : 40 Sample Multiplier: 1

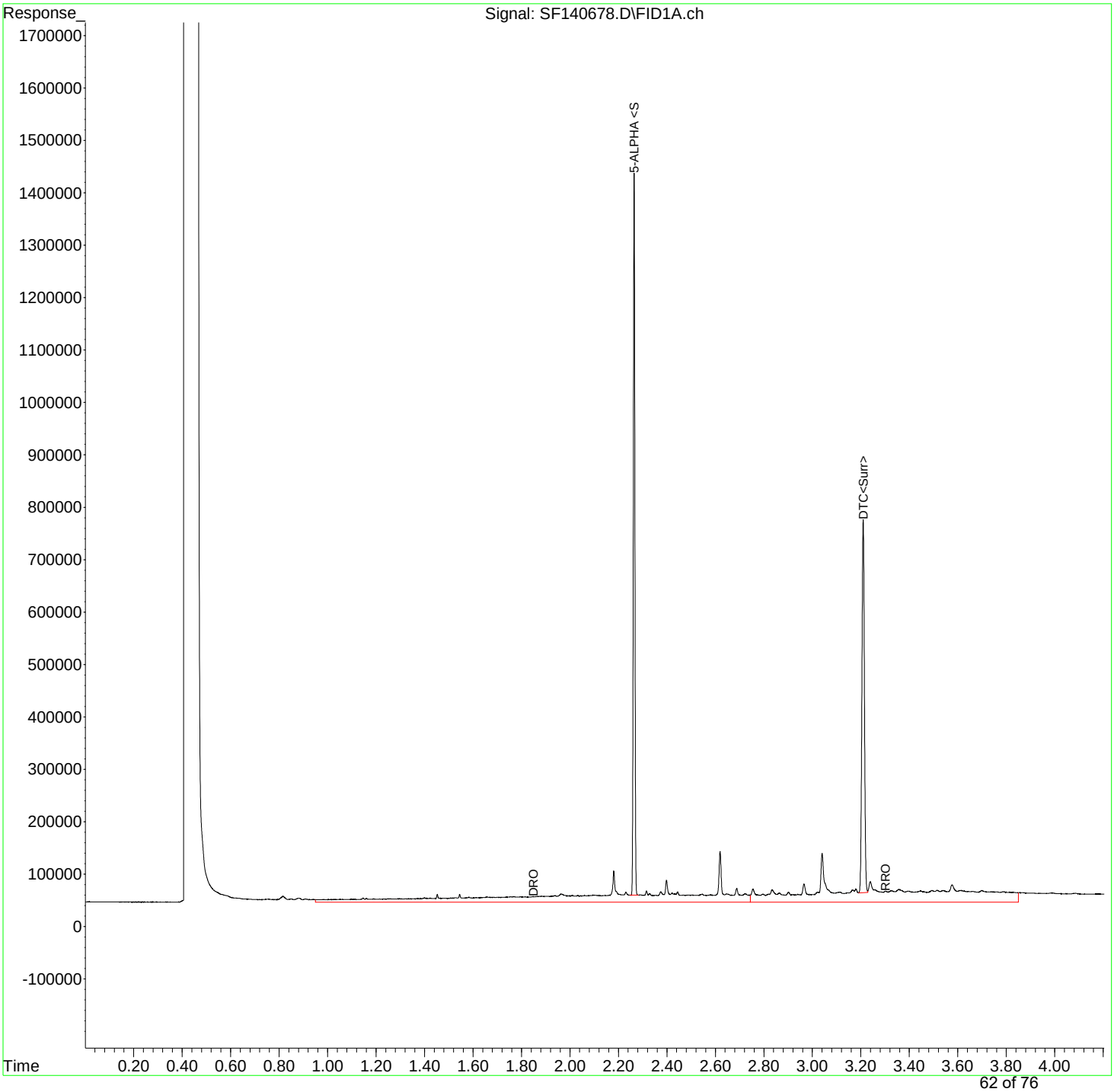
Integration File: autoint1.e
Quant Time: Apr 25 08:49:41 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140680.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 19:26
Operator : T.L
Sample : 1241659036
Misc :
ALS Vial : 41 Sample Multiplier: 1

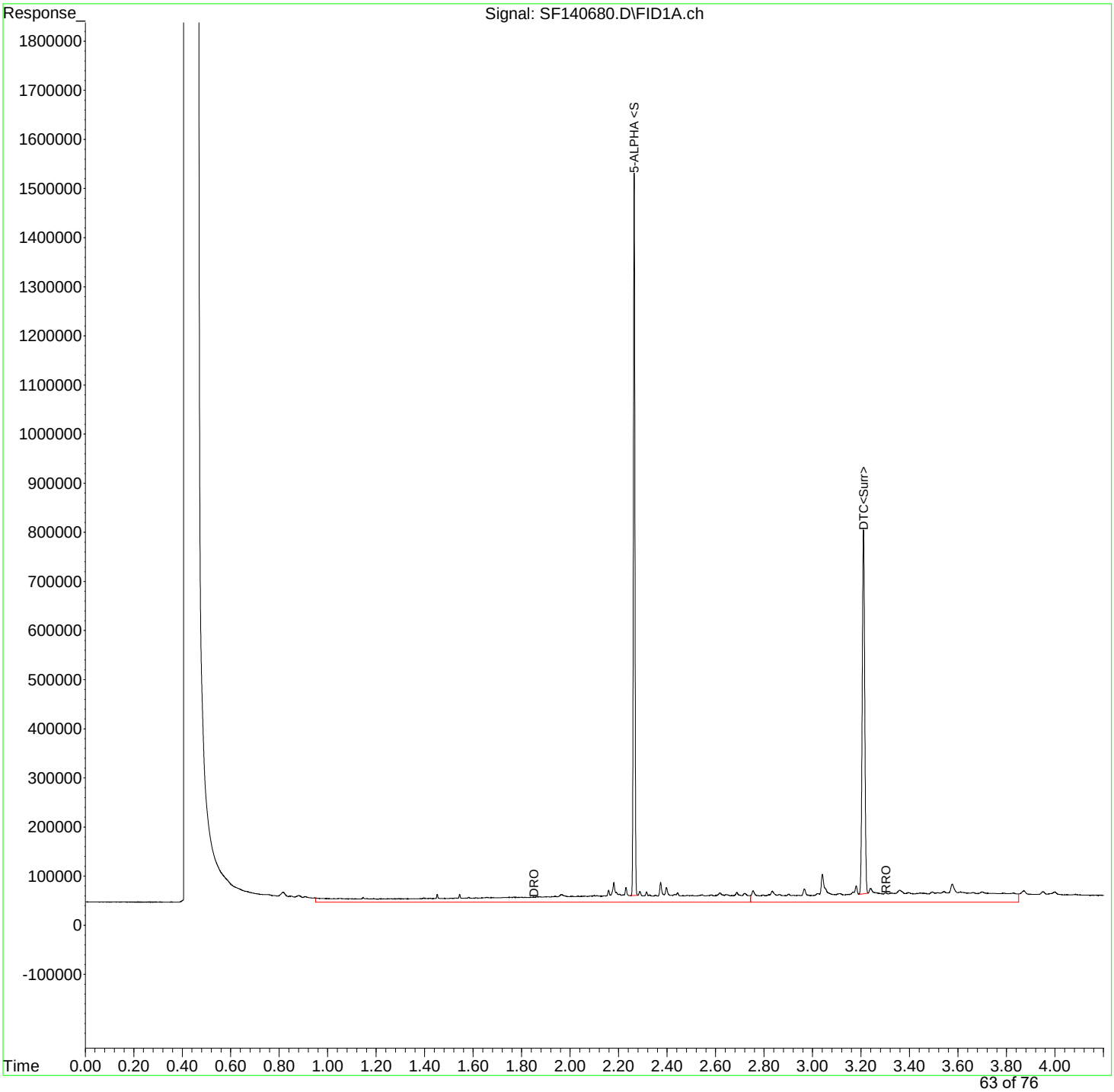
Integration File: autoint1.e
Quant Time: Apr 25 08:53:35 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

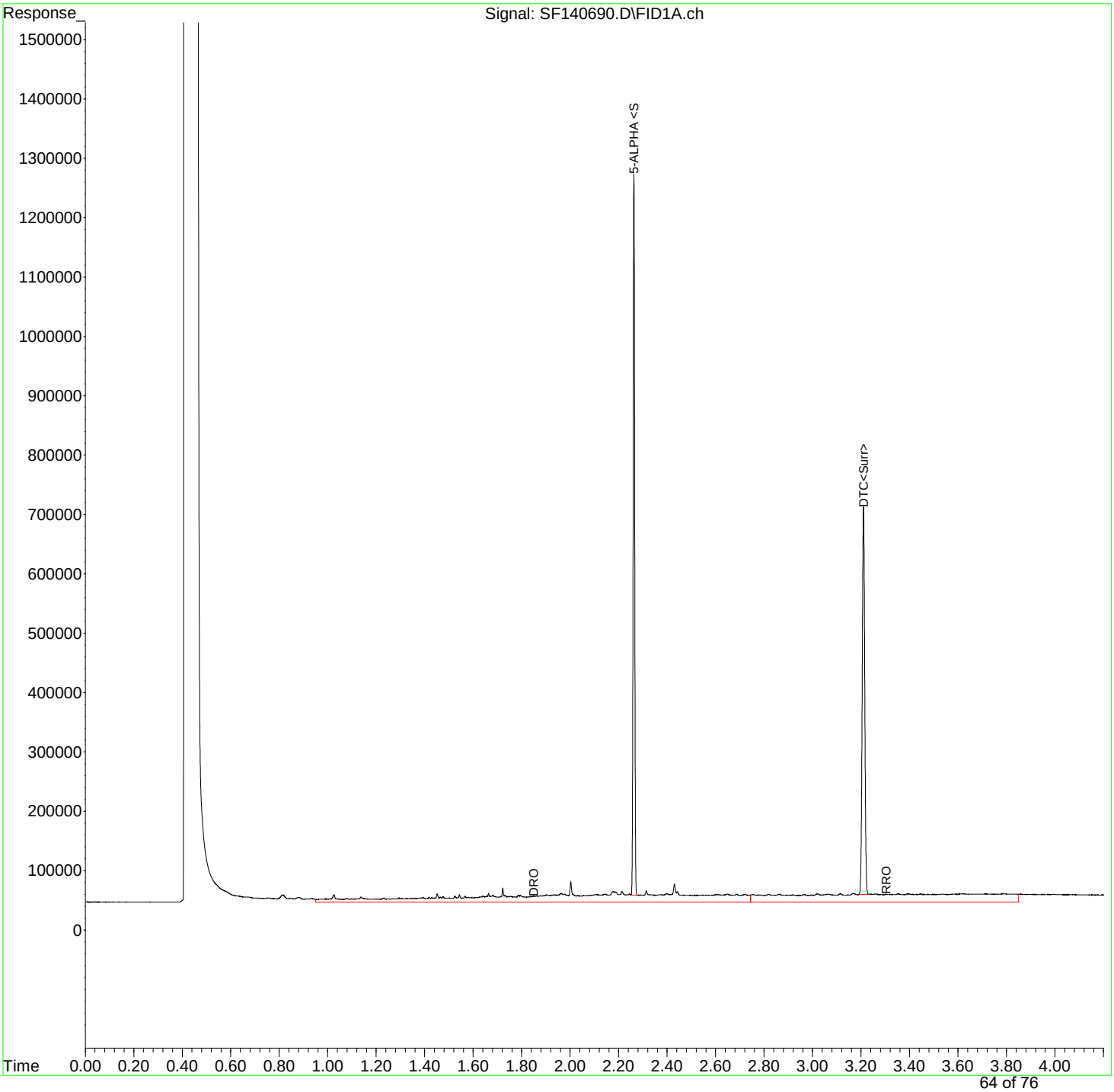
Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140690.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 20:17
Operator : T.L
Sample : 1760760 MB 49359 SG
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 08:57:06 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

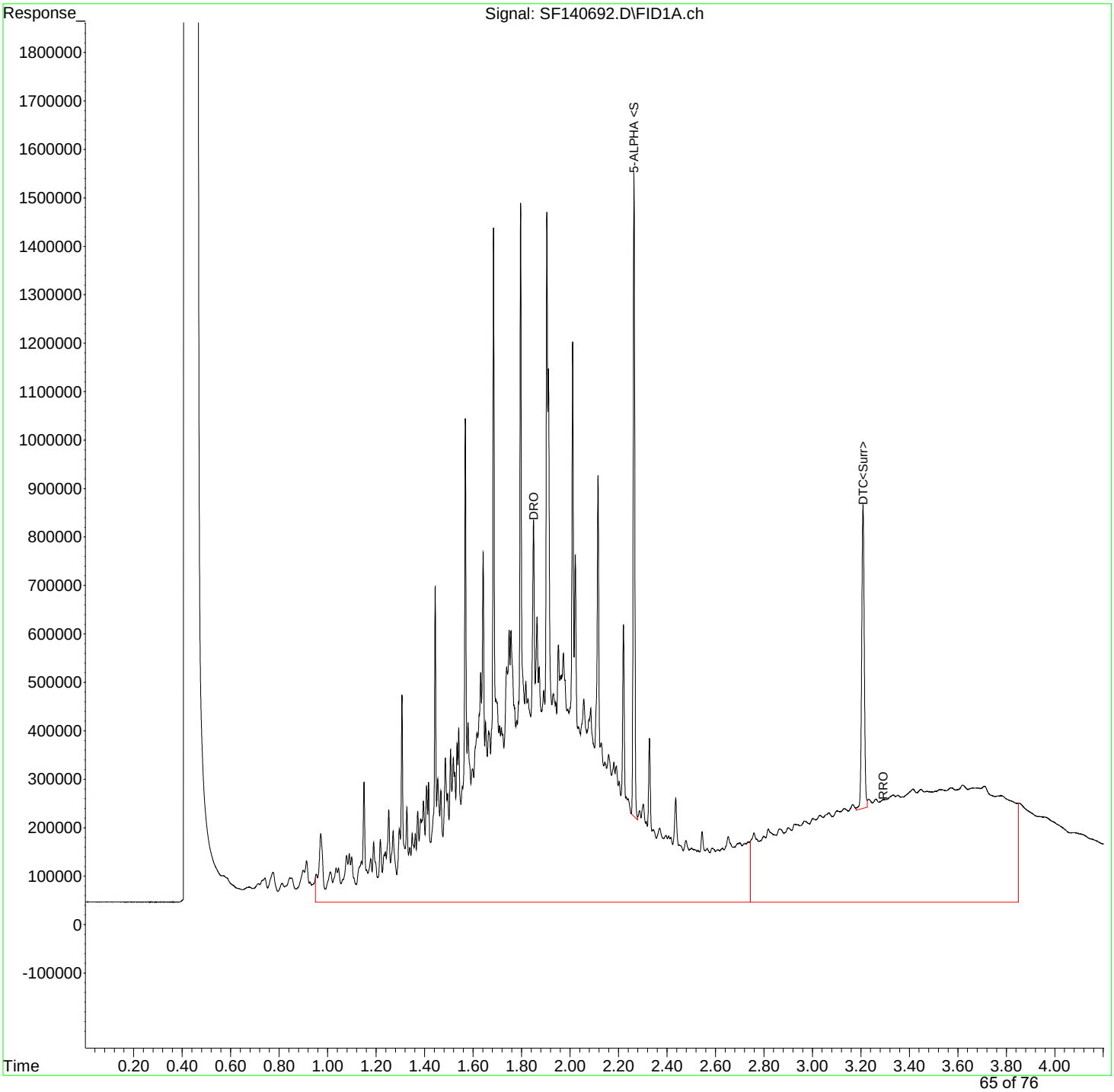
Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140692.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 20:27
Operator : T.L
Sample : 1760761 LCS 49359 SG
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 08:57:25 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140696.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 20:47
Operator : T.L
Sample : 1241659024 SG
Misc :
ALS Vial : 47 Sample Multiplier: 1

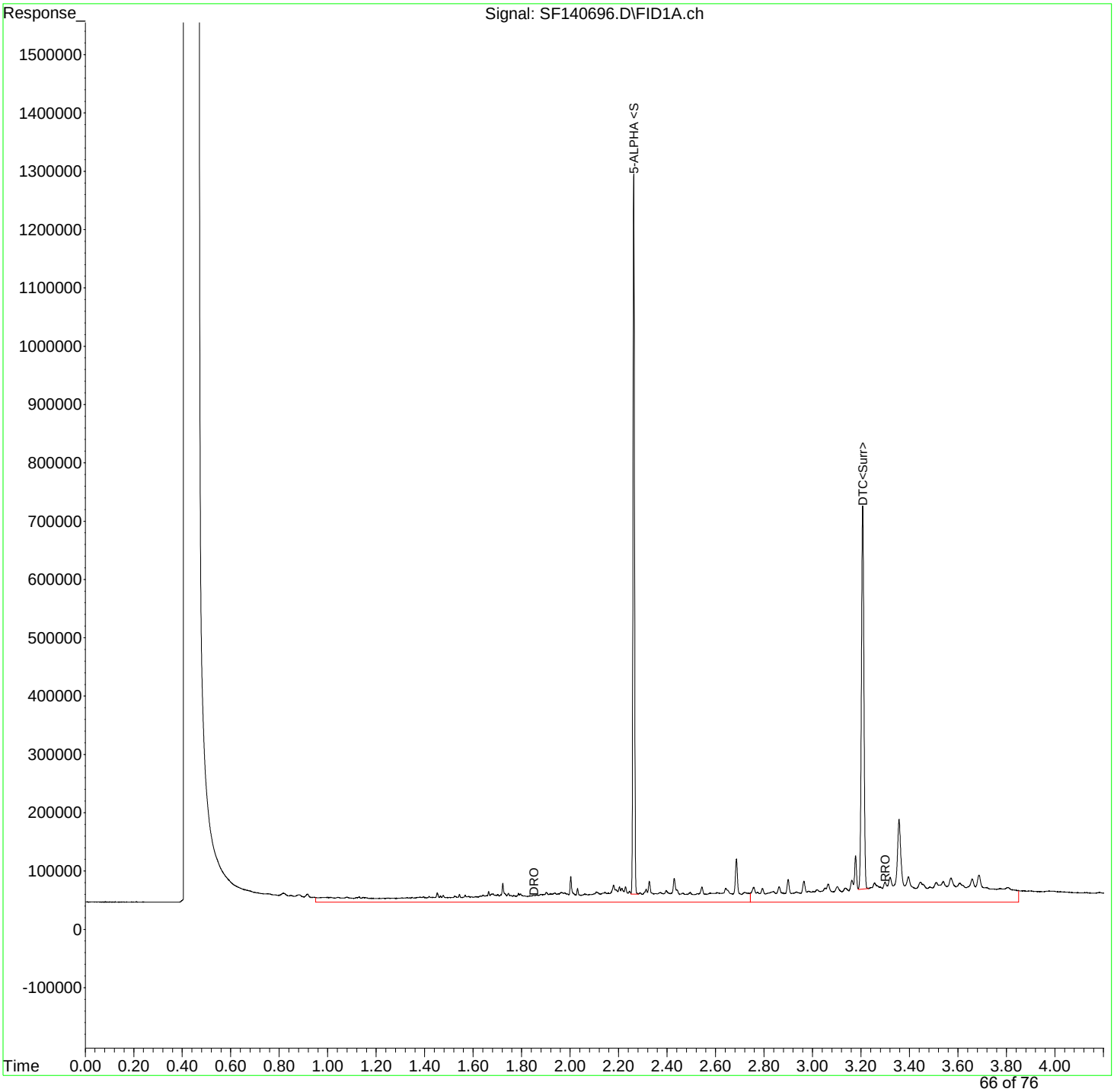
Integration File: autoint1.e
Quant Time: Apr 25 08:58:08 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140698.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 20:57
Operator : T.L
Sample : 1241659025 SG
Misc :
ALS Vial : 48 Sample Multiplier: 1

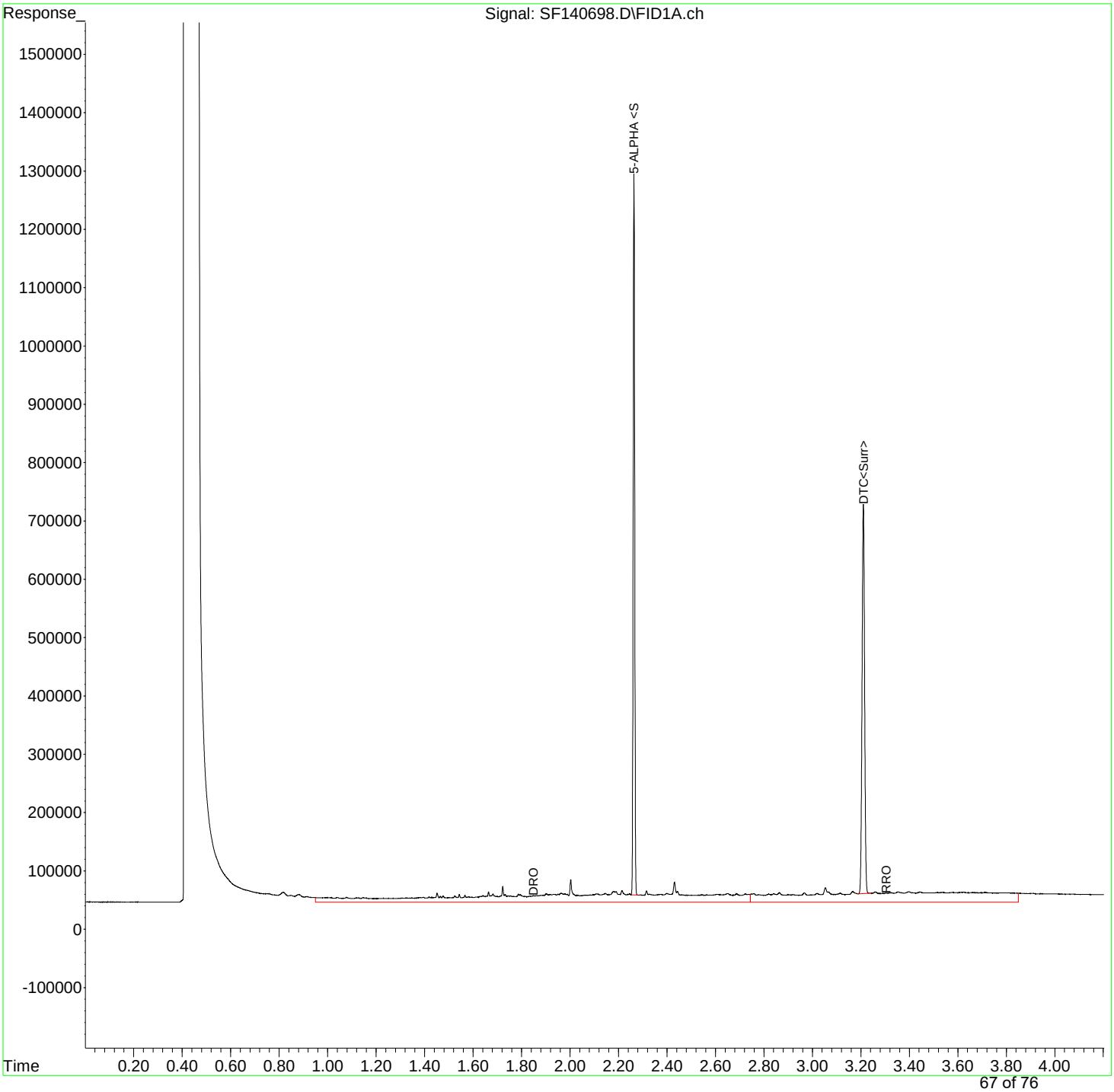
Integration File: autoint1.e
Quant Time: Apr 25 08:58:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140700.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 21:07
Operator : T.L
Sample : 1241659026 PS SG
Misc :
ALS Vial : 49 Sample Multiplier: 1

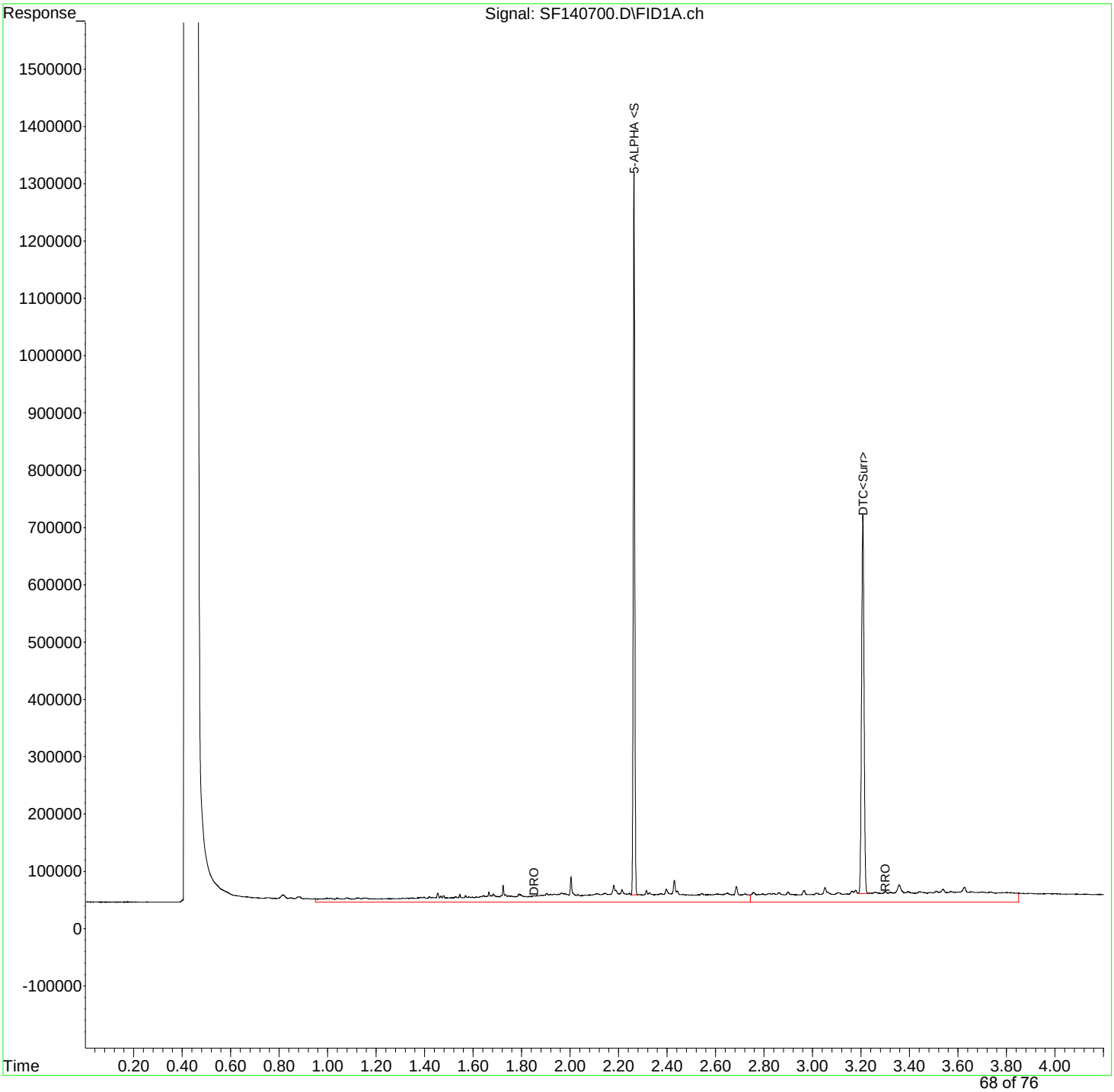
Integration File: autoint1.e
Quant Time: Apr 25 08:59:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140706.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 21:36
Operator : T.L
Sample : 1241659029 SG
Misc :
ALS Vial : 52 Sample Multiplier: 1

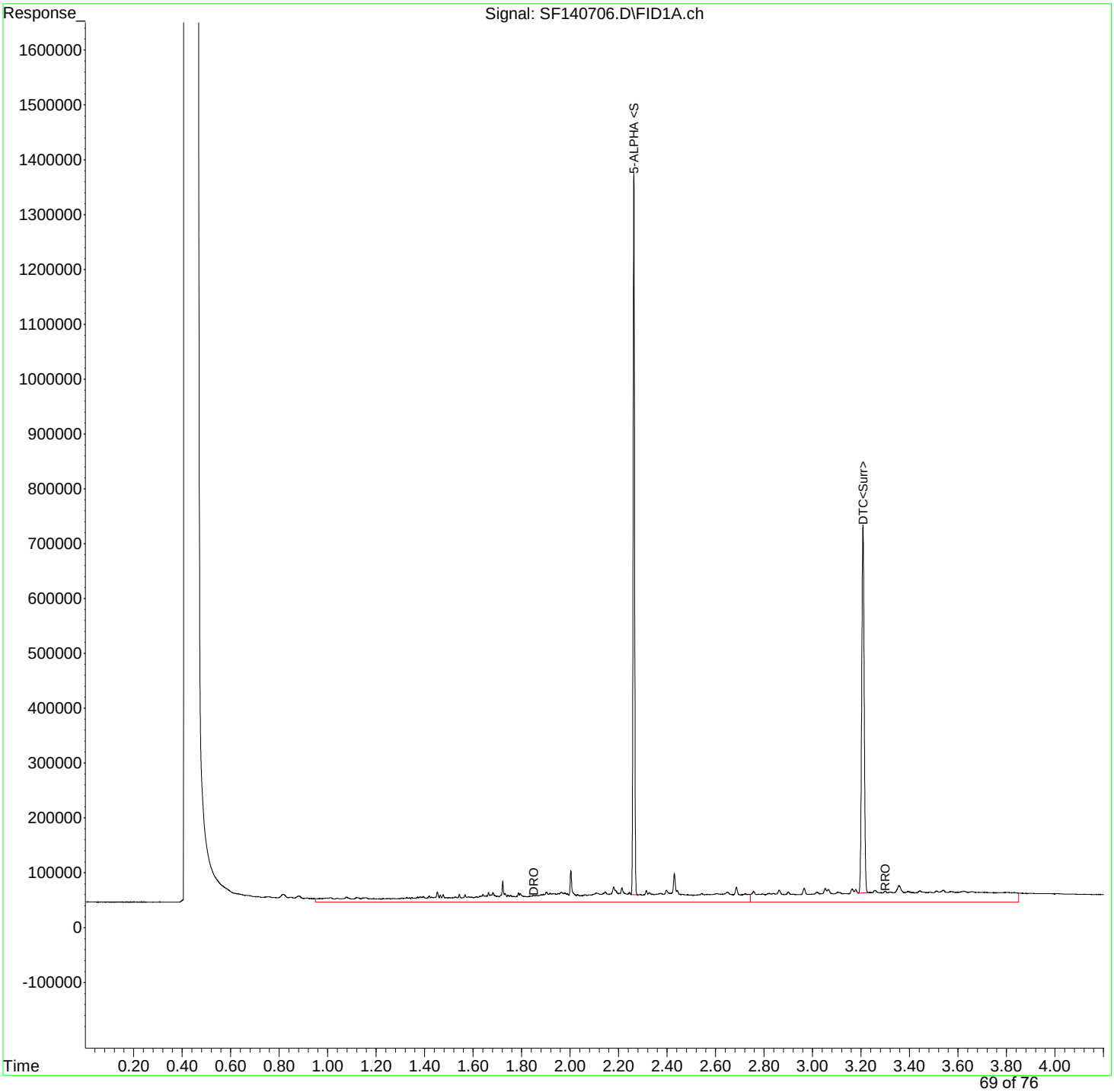
Integration File: autoint1.e
Quant Time: Apr 25 09:01:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Thamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140708.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 21:46
Operator : T.L
Sample : 1241659030 SG
Misc :
ALS Vial : 53 Sample Multiplier: 1

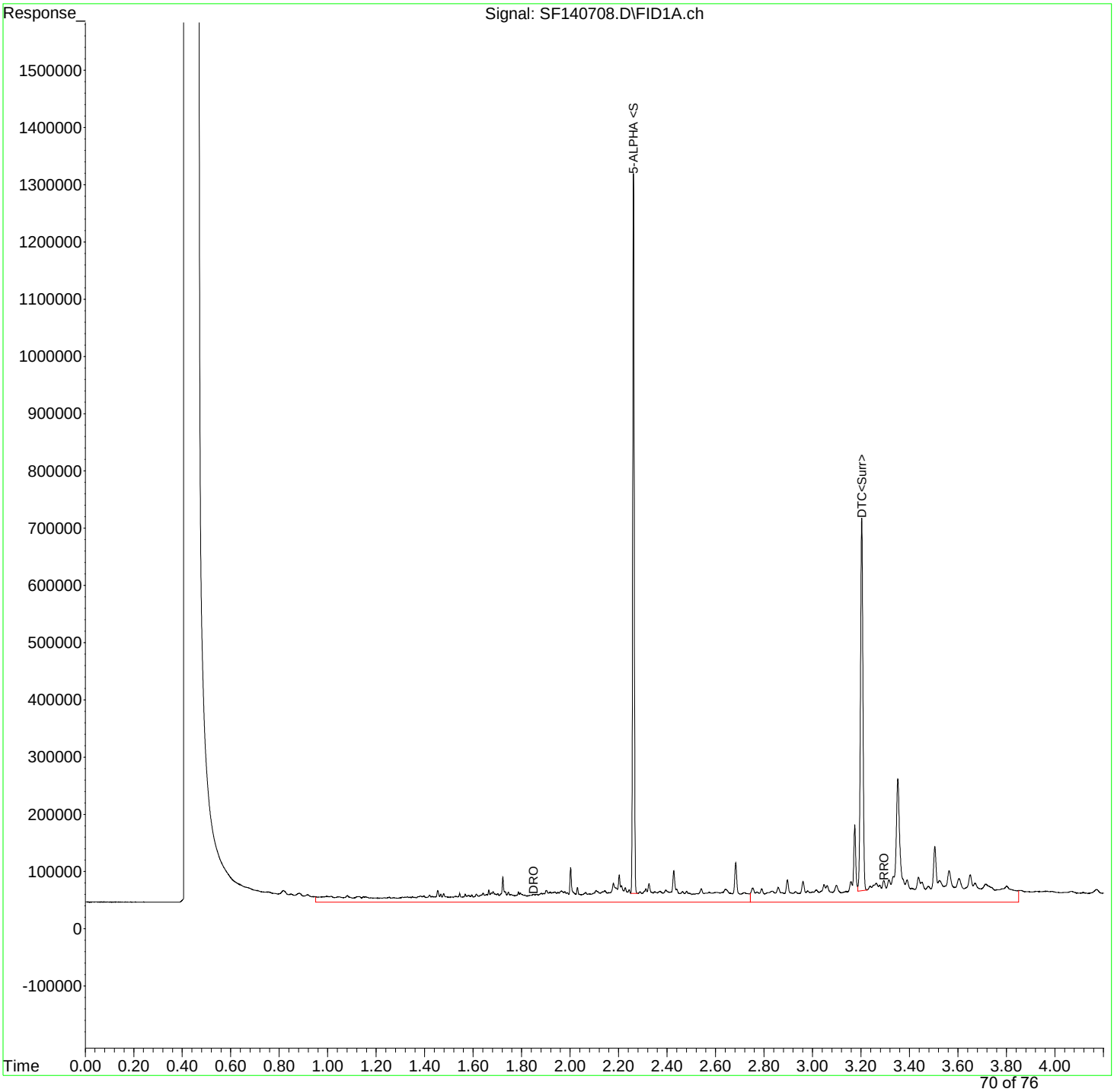
Integration File: autoint1.e
Quant Time: Apr 25 09:01:08 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140710.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 21:56
Operator : T.L
Sample : 1241659031 SG
Misc :
ALS Vial : 54 Sample Multiplier: 1

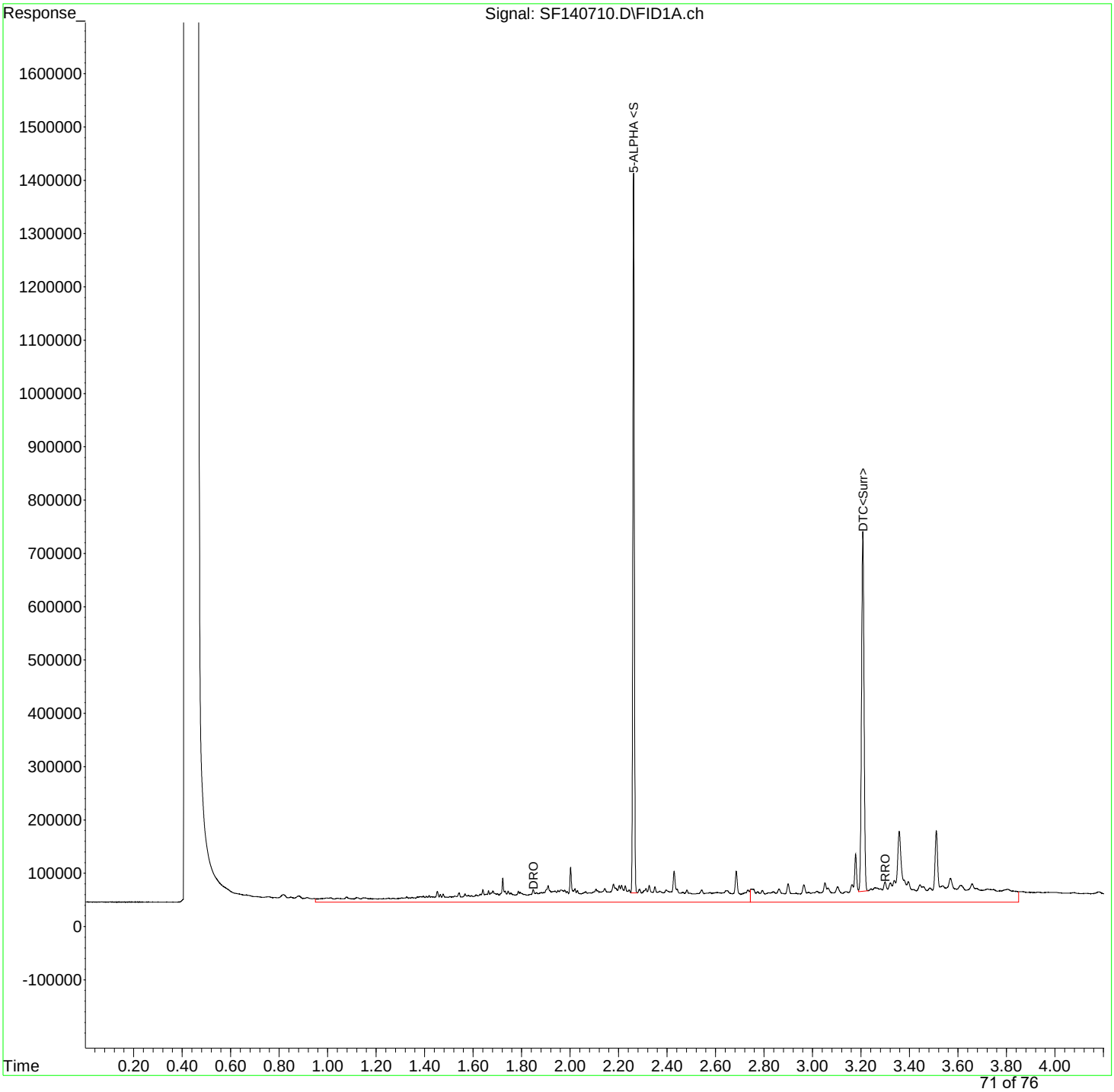
Integration File: autoint1.e
Quant Time: Apr 25 09:01:35 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashid Ihamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140712.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 22:06
Operator : T.L
Sample : 1241659032 SG
Misc :
ALS Vial : 55 Sample Multiplier: 1

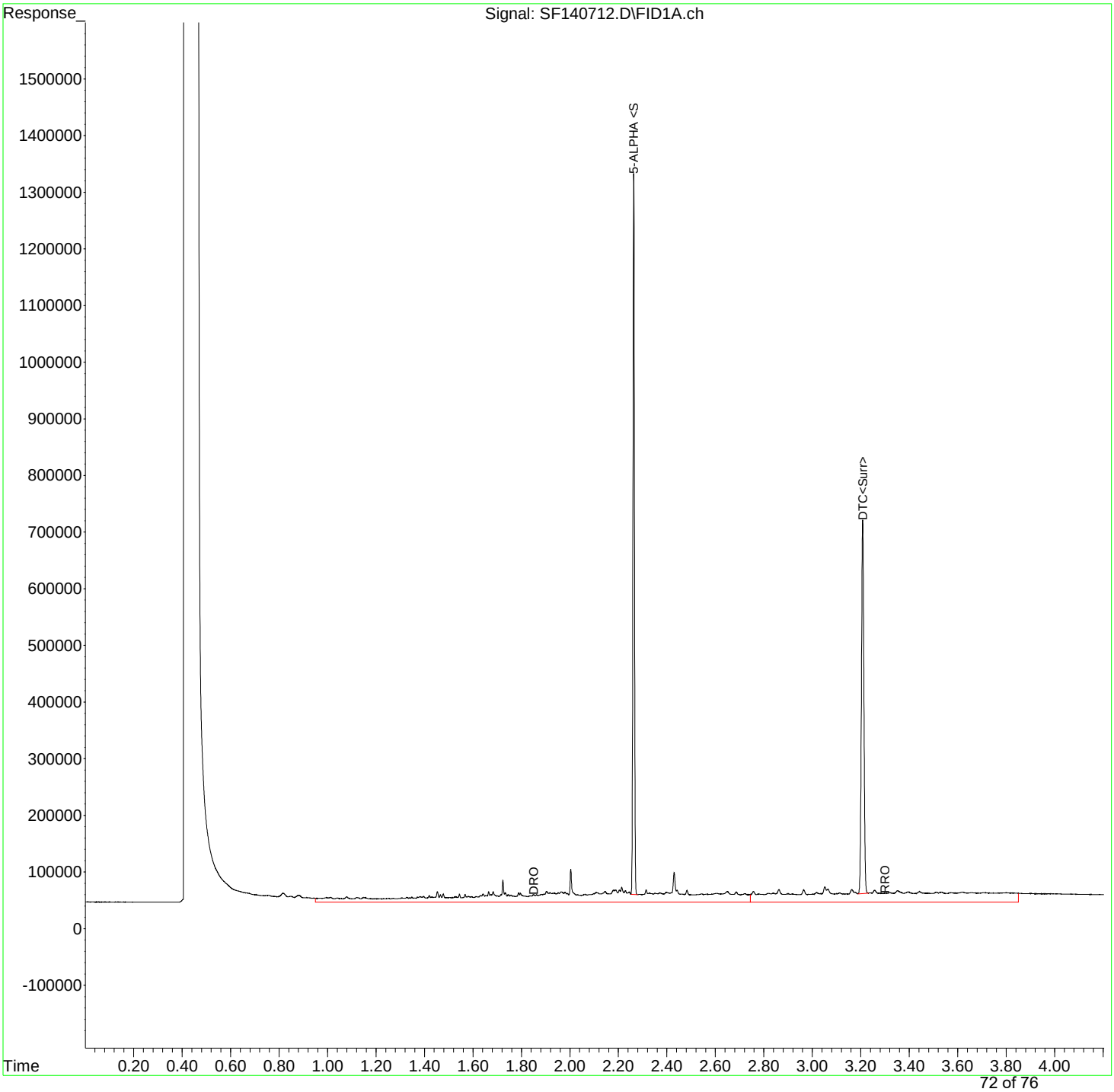
Integration File: autoint1.e
Quant Time: Apr 25 09:01:42 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140714.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 22:16
Operator : T.L
Sample : 1241659033 SG
Misc :
ALS Vial : 56 Sample Multiplier: 1

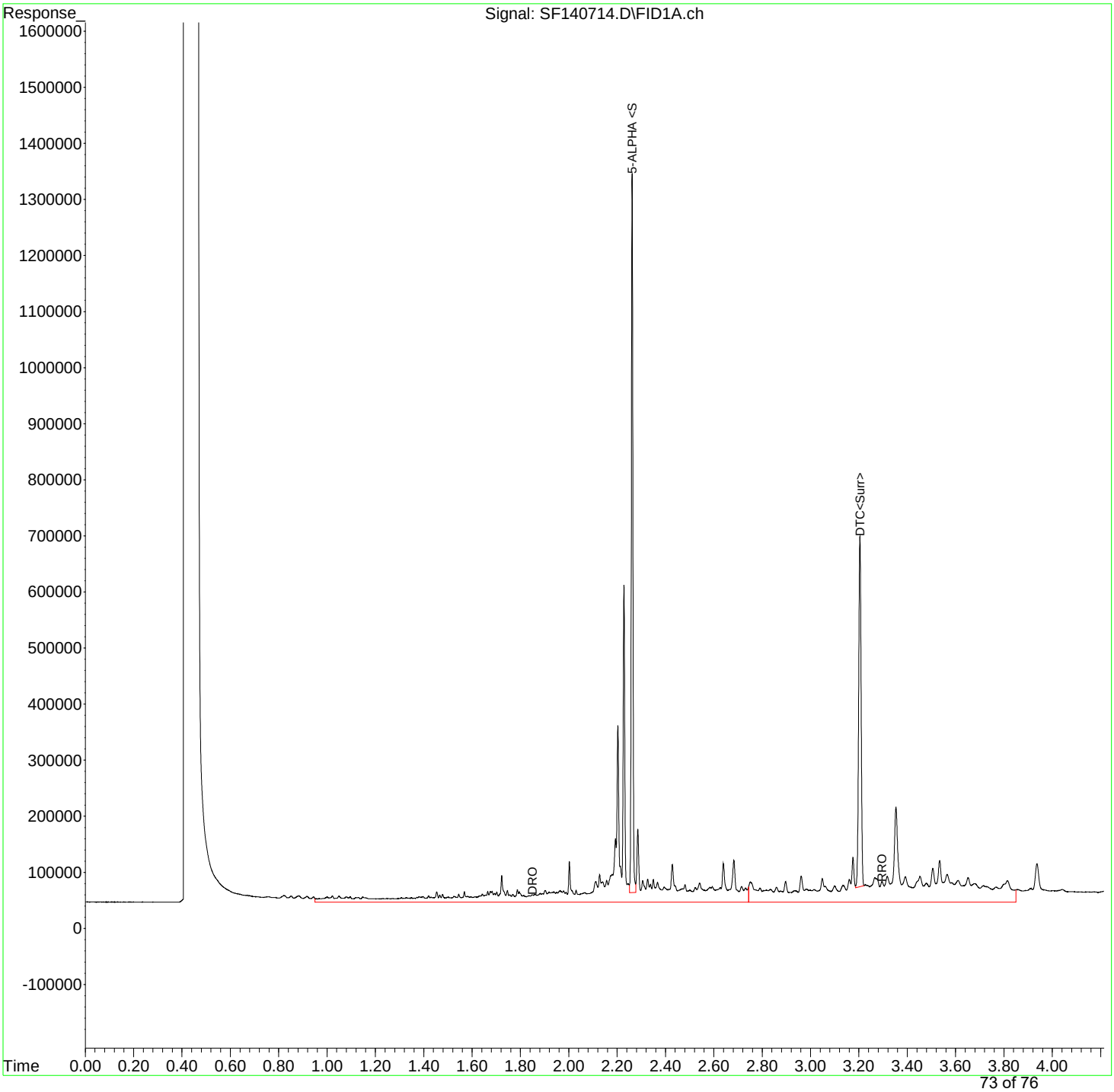
Integration File: autoint1.e
Quant Time: Apr 25 09:01:49 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140720.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 22:46
Operator : T.L
Sample : 1241659034 SG
Misc :
ALS Vial : 57 Sample Multiplier: 1

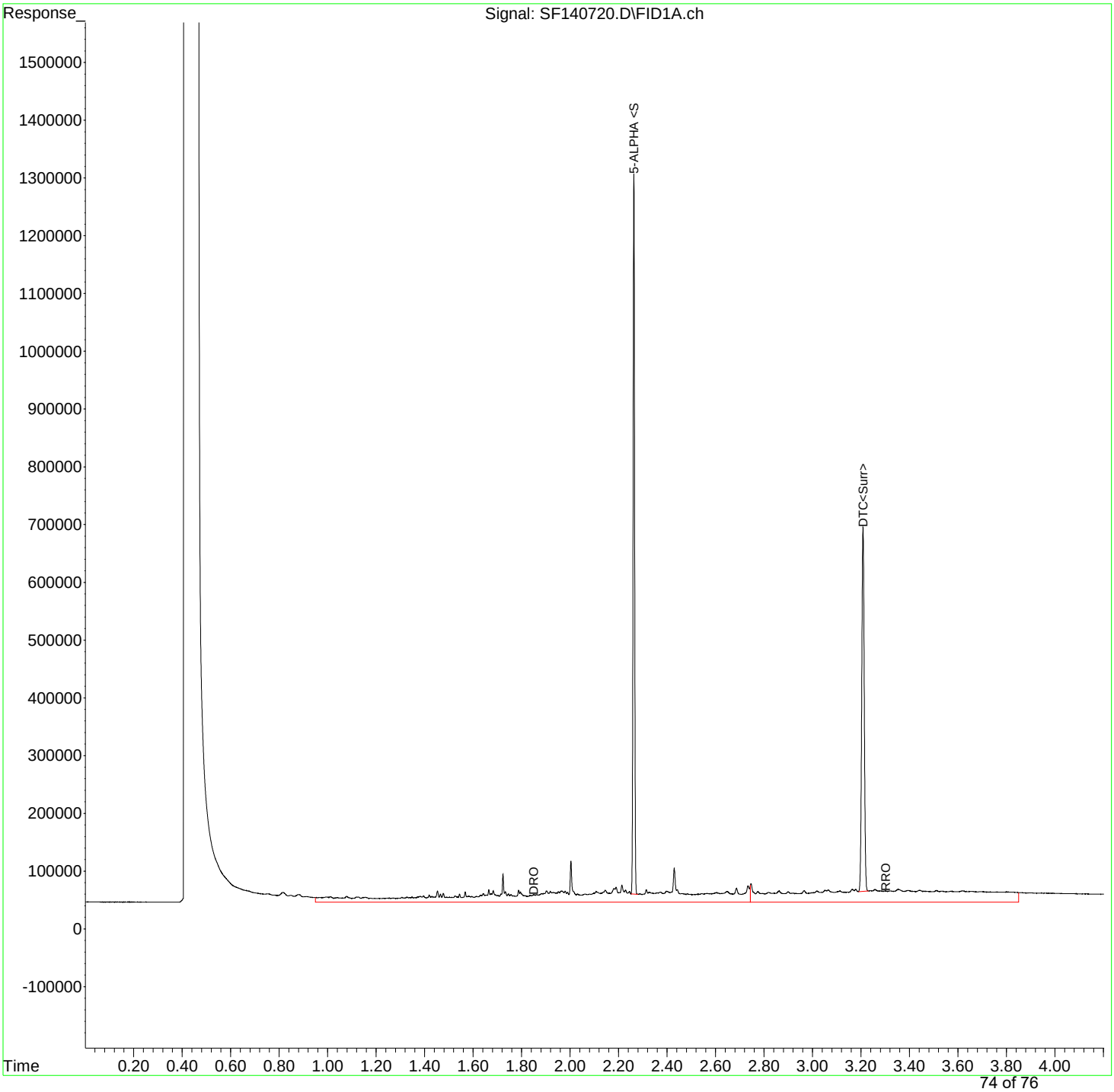
Integration File: autoint1.e
Quant Time: Apr 25 09:02:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140722.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 22:56
Operator : T.L
Sample : 1241659035 SG
Misc :
ALS Vial : 58 Sample Multiplier: 1

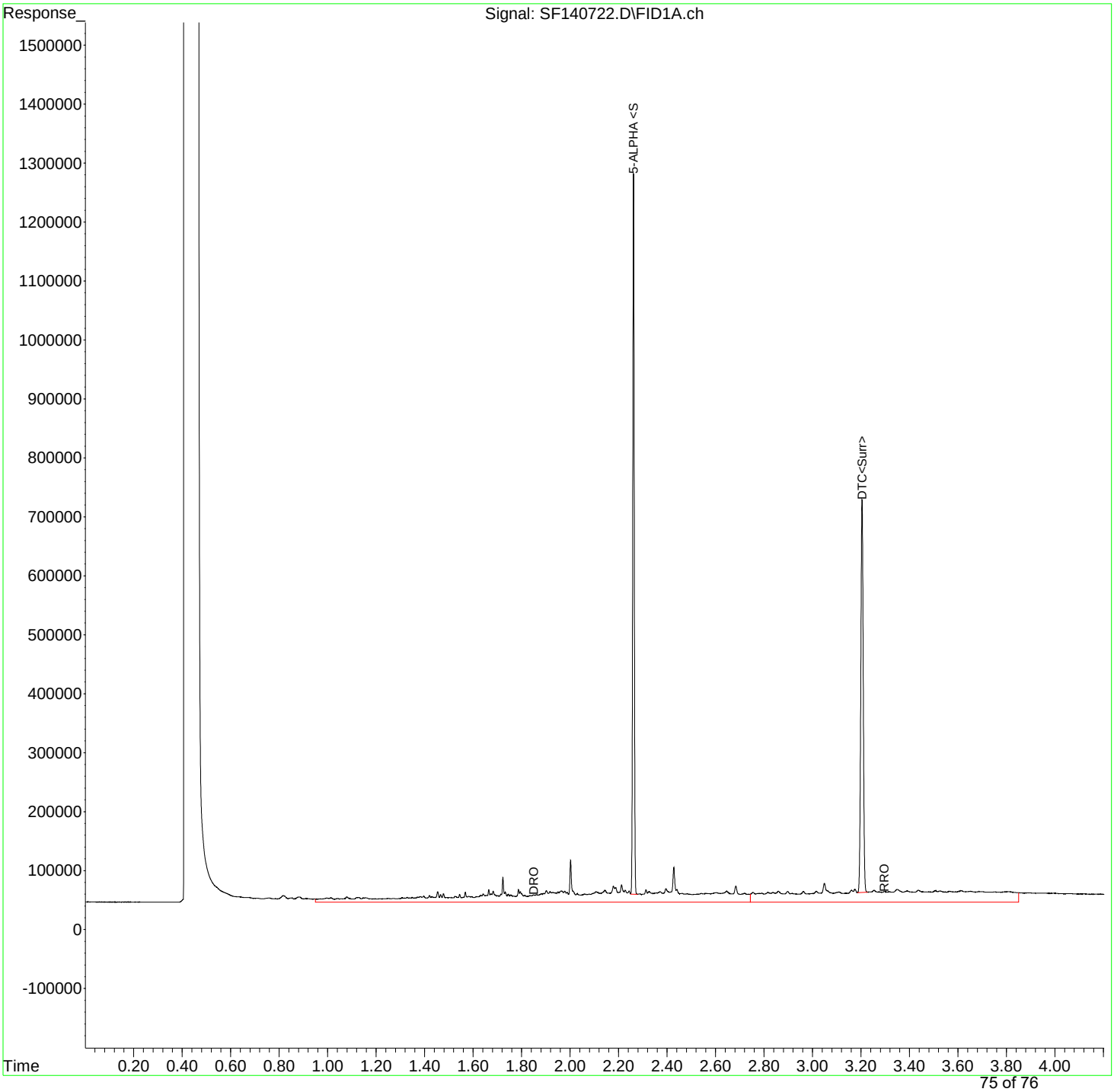
Integration File: autoint1.e
Quant Time: Apr 25 09:02:44 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Shamu



Data Path : Z:\DATA\SF\Data\SF04242024\
Data File : SF140724.D
Signal(s) : FID1A.ch
Acq On : 24 Apr 2024 23:06
Operator : T.L
Sample : 1241659036 SG
Misc :
ALS Vial : 59 Sample Multiplier: 1

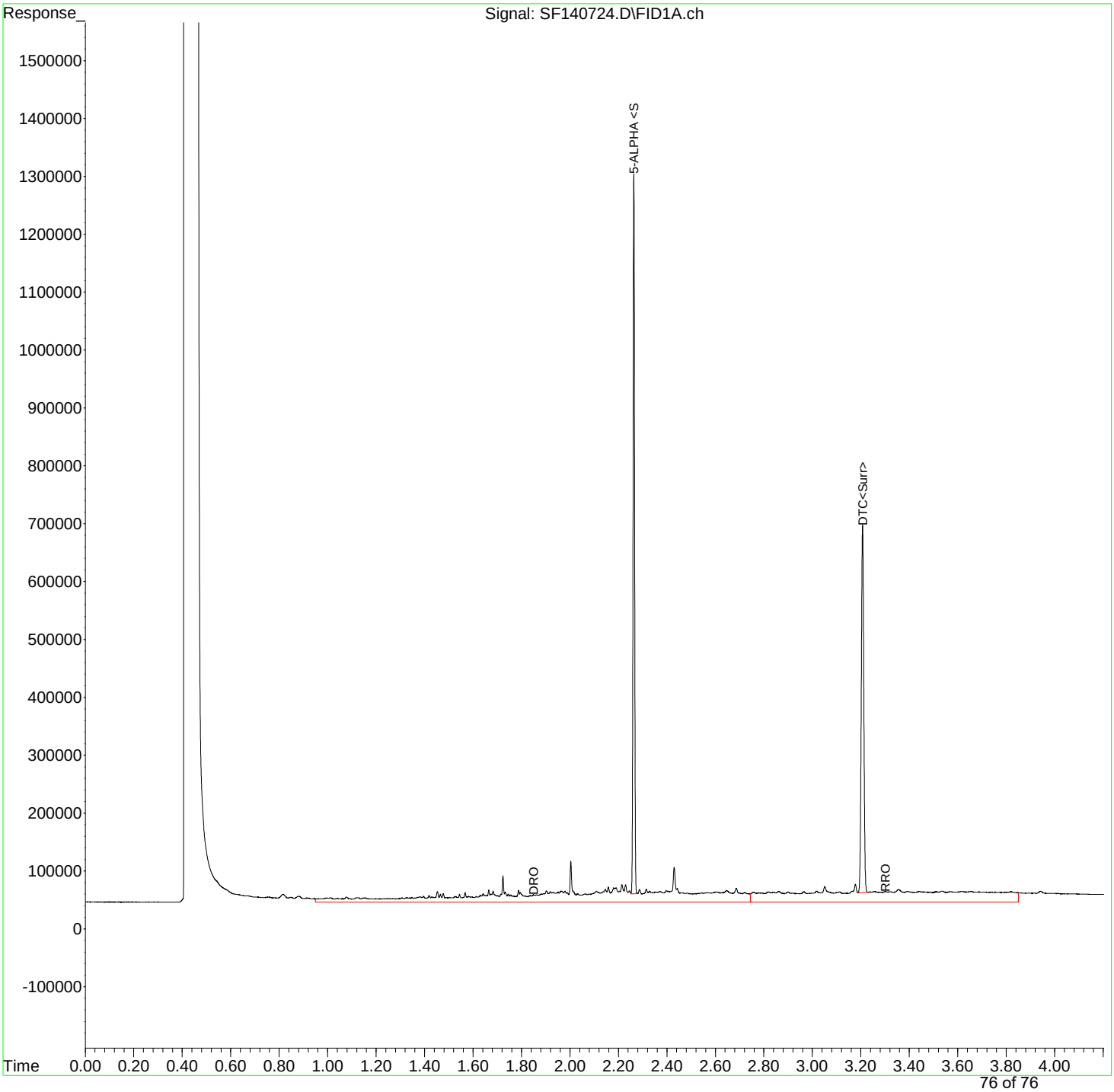
Integration File: autoint1.e
Quant Time: Apr 25 09:02:53 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241686**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

Print Date: 04/26/2024 2:43:44PM

Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241686**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24SS138SP502 (1241686001) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS139SP504 (1241686002) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS140SP7.5 (1241686003) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS141SP02 (1241686004) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS142SP533.5 (1241686005) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS143SP506 (1241686006) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS144SP502 (1241686007) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS145SP54.5 (1241686008) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS146SP507 (1241686009) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS147SP502 (1241686010) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS148SP54.5 (1241686011) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS148SP54.59 (1241686012) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS149SP56.5 (1241686013) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS150SP50.5 (1241686014) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241686**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

RIR24SS151SP502 (1241686015) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS152SP505 (1241686016) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS153SP502 (1241686017) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS154SP504 (1241686018) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS155SP505 (1241686019) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS156SP51.5 (1241686020) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS157SP53.5 (1241686021) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS158SP505 (1241686022) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS158SP5059 (1241686025) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS159SP402 (1241686026) PS

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS160SP43.5 (1241686027) PS

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS161SP407 (1241686028) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS162SP31.5 (1241686029) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS163SP303 (1241686030) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS164SP601 (1241686031) PS

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241686**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS165SP603 (1241686032) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS166SP61.5 (1241686033) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS166SP61.59 (1241686034) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS167SP604 (1241686035) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS168SP73.5 (1241686036) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS168SP73.59 (1241686037) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS169SP71.5 (1241686038) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS170SP73.5 (1241686039) PS

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS171SP81.5 (1241686040) PS

AK102/103 - The hydrocarbon pattern is unknown.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS138SP502	1241686001	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS139SP504	1241686002	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS140SP7.5	1241686003	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS141SP02	1241686004	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS142SP533.5	1241686005	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS143SP506	1241686006	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS144SP502	1241686007	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS145SP54.5	1241686008	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS146SP507	1241686009	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS147SP502	1241686010	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS148SP54.5	1241686011	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS148SP54.59	1241686012	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS149SP56.5	1241686013	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS150SP50.5	1241686014	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS151SP502	1241686015	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS152SP505	1241686016	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS153SP502	1241686017	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS154SP504	1241686018	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS155SP505	1241686019	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS156SP51.5	1241686020	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS157SP53.5	1241686021	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS158SP505	1241686022	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS158SP505(1241686022I	1241686023	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS158S...(1241686022BM	1241686024	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS158SP5059	1241686025	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS159SP402	1241686026	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS160SP43.5	1241686027	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS161SP407	1241686028	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS162SP31.5	1241686029	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS163SP303	1241686030	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS164SP601	1241686031	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS165SP603	1241686032	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS166SP61.5	1241686033	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS166SP61.59	1241686034	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS167SP604	1241686035	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS168SP73.5	1241686036	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS168SP73.59	1241686037	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS169SP71.5	1241686038	04/24/2024	04/25/2024	Soil/Solid (dry weight)
RIR24SS170SP73.5	1241686039	04/24/2024	04/25/2024	Soil/Solid (dry weight)

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS171SP81.5	1241686040	04/24/2024	04/25/2024	Soil/Solid (dry weight)

Method	Method Description
AK102	Diesel Range Organics (S) 2
AK102	Diesel Range Organics w/ Silica Gel
SM21 2540G	Percent Solids SM2540G

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Detectable Results Summary

Client Sample ID: **RIR24SS138SP502**
Lab Sample ID: 1241686001

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	423	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	124	mg/kg

Client Sample ID: **RIR24SS139SP504**
Lab Sample ID: 1241686002

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.2J	mg/kg

Client Sample ID: **RIR24SS140SP7.5**
Lab Sample ID: 1241686003

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.8J	mg/kg

Client Sample ID: **RIR24SS141SP02**
Lab Sample ID: 1241686004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	113	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	62.0J	mg/kg

Client Sample ID: **RIR24SS142SP533.5**
Lab Sample ID: 1241686005

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	18.9J	mg/kg

Client Sample ID: **RIR24SS143SP506**
Lab Sample ID: 1241686006

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	16.2J	mg/kg

Client Sample ID: **RIR24SS144SP502**
Lab Sample ID: 1241686007

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	866	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	175	mg/kg

Client Sample ID: **RIR24SS145SP54.5**
Lab Sample ID: 1241686008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	14.3J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	18.0J	mg/kg

Client Sample ID: **RIR24SS146SP507**
Lab Sample ID: 1241686009

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	17.8J	mg/kg

Client Sample ID: **RIR24SS147SP502**
Lab Sample ID: 1241686010

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	429	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	87.3J	mg/kg

Client Sample ID: **RIR24SS148SP54.5**
Lab Sample ID: 1241686011

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.3J	mg/kg

Client Sample ID: **RIR24SS148SP54.59**
Lab Sample ID: 1241686012

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.1J	mg/kg

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Detectable Results Summary

Client Sample ID: **RIR24SS149SP56.5**
Lab Sample ID: 1241686013

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.4J	mg/kg

Client Sample ID: **RIR24SS150SP50.5**
Lab Sample ID: 1241686014

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	57.7	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	18.1J	mg/kg

Client Sample ID: **RIR24SS151SP502**
Lab Sample ID: 1241686015

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	12.7J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.3J	mg/kg

Client Sample ID: **RIR24SS152SP505**
Lab Sample ID: 1241686016

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	19.6J	mg/kg

Client Sample ID: **RIR24SS153SP502**
Lab Sample ID: 1241686017

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	435	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	126	mg/kg

Client Sample ID: **RIR24SS154SP504**
Lab Sample ID: 1241686018

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	14.1J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	17.0J	mg/kg

Client Sample ID: **RIR24SS155SP505**
Lab Sample ID: 1241686019

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	19.1J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	20.4J	mg/kg

Client Sample ID: **RIR24SS156SP51.5**
Lab Sample ID: 1241686020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	441	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	127	mg/kg

Client Sample ID: **RIR24SS157SP53.5**
Lab Sample ID: 1241686021

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.5J	mg/kg

Client Sample ID: **RIR24SS158SP505**
Lab Sample ID: 1241686022

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.4J	mg/kg

Client Sample ID: **RIR24SS158SP5059**
Lab Sample ID: 1241686025

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	10.3J	mg/kg

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Detectable Results Summary

Client Sample ID: **RIR24SS159SP402**
Lab Sample ID: 1241686026

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	48.9	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	20.8J	mg/kg

Client Sample ID: **RIR24SS160SP43.5**
Lab Sample ID: 1241686027

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	74.8	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	26.1J	mg/kg

Client Sample ID: **RIR24SS161SP407**
Lab Sample ID: 1241686028

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	10.7J	mg/kg

Client Sample ID: **RIR24SS162SP31.5**
Lab Sample ID: 1241686029

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.0J	mg/kg

Client Sample ID: **RIR24SS167SP604**
Lab Sample ID: 1241686035

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	20.9J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	17.7J	mg/kg

Client Sample ID: **RIR24SS168SP73.5**
Lab Sample ID: 1241686036

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.8J	mg/kg

Client Sample ID: **RIR24SS168SP73.59**
Lab Sample ID: 1241686037

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	14.0J	mg/kg

Client Sample ID: **RIR24SS169SP71.5**
Lab Sample ID: 1241686038

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	14.1J	mg/kg

Client Sample ID: **RIR24SS170SP73.5**
Lab Sample ID: 1241686039

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	13.2J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	18.2J	mg/kg

Client Sample ID: **RIR24SS171SP81.5**
Lab Sample ID: 1241686040

	Parameter	Result	Units
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	14.3J	mg/kg

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Results of **RIR24SS138SP502**

Client Sample ID: **RIR24SS138SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686001
Lab Project ID: 1241686

Collection Date: 04/24/24 09:32
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):16.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	423		121	54.5	90.8	mg/kg	1		04/25/24 19:53
Surrogates									
5a Androstane (surr)	124		50-150			%	1		04/25/24 19:53

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:53
Container ID: 1241686001-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.835 g
Prep Extract Vol: 2 mL

Results of **RIR24SS138SP502**

Client Sample ID: **RIR24SS138SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686001
Lab Project ID: 1241686

Collection Date: 04/24/24 09:32
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):16.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	124		121	54.5	90.8	mg/kg	1		04/25/24 22:03
Surrogates									
5a Androstane (surr)	83.4		50-150			%	1		04/25/24 22:03

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:03
Container ID: 1241686001-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.835 g
Prep Extract Vol: 2 mL

Results of **RIR24SS139SP504**

Client Sample ID: **RIR24SS139SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686002
Lab Project ID: 1241686

Collection Date: 04/24/24 09:34
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.5	U	24.7	11.1	18.5	mg/kg	1		04/25/24 17:12
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/25/24 17:12

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:12
Container ID: 1241686002-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.503 g
Prep Extract Vol: 2 mL

Results of **RIR24SS139SP504**

Client Sample ID: **RIR24SS139SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686002
Lab Project ID: 1241686

Collection Date: 04/24/24 09:34
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.2	J	24.7	11.1	18.5	mg/kg	1		04/25/24 22:13
Surrogates									
5a Androstane (surr)	82.4		50-150			%	1		04/25/24 22:13

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:13
Container ID: 1241686002-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.503 g
Prep Extract Vol: 2 mL

Results of **RIR24SS140SP7.5**

Client Sample ID: **RIR24SS140SP7.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686003
Lab Project ID: 1241686

Collection Date: 04/24/24 09:36
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.9	U	22.5	10.1	16.9	mg/kg	1		04/25/24 17:23
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/25/24 17:23

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:23
Container ID: 1241686003-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.679 g
Prep Extract Vol: 2 mL

Results of **RIR24SS140SP7.5**

Client Sample ID: **RIR24SS140SP7.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686003
Lab Project ID: 1241686

Collection Date: 04/24/24 09:36
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):88.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.8	J	22.5	10.1	16.9	mg/kg	1		04/25/24 22:24
Surrogates									
5a Androstane (surr)	89.8		50-150			%	1		04/25/24 22:24

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:24
Container ID: 1241686003-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.679 g
Prep Extract Vol: 2 mL

Results of **RIR24SS141SP02**

Client Sample ID: **RIR24SS141SP02**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686004
Lab Project ID: 1241686

Collection Date: 04/24/24 10:06
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):28.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	113		70.6	31.8	52.9	mg/kg	1		04/25/24 17:33
Surrogates									
5a Androstane (surr)	100		50-150			%	1		04/25/24 17:33

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:33
Container ID: 1241686004-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.539 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS141SP02**

Client Sample ID: **RIR24SS141SP02**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686004
Lab Project ID: 1241686

Collection Date: 04/24/24 10:06
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):28.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	62.0	J	70.6	31.8	52.9	mg/kg	1		04/25/24 22:34
Surrogates									
5a Androstane (surr)	81.4		50-150			%	1		04/25/24 22:34

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:34
Container ID: 1241686004-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.539 g
Prep Extract Vol: 2 mL

Results of **RIR24SS142SP533.5**

Client Sample ID: **RIR24SS142SP533.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686005
Lab Project ID: 1241686

Collection Date: 04/24/24 10:08
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.5	U	24.7	11.1	18.5	mg/kg	1		04/25/24 17:43
Surrogates									
5a Androstane (surr)	113		50-150			%	1		04/25/24 17:43

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:43
Container ID: 1241686005-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.577 g
Prep Extract Vol: 2 mL

Results of **RIR24SS142SP533.5**

Client Sample ID: **RIR24SS142SP533.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686005
Lab Project ID: 1241686

Collection Date: 04/24/24 10:08
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.9	J	24.7	11.1	18.5	mg/kg	1		04/25/24 22:44
Surrogates									
5a Androstane (surr)	97		50-150			%	1		04/25/24 22:44

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:44
Container ID: 1241686005-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.577 g
Prep Extract Vol: 2 mL

Results of **RIR24SS143SP506**

Client Sample ID: **RIR24SS143SP506**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686006
Lab Project ID: 1241686

Collection Date: 04/24/24 10:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):89.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.6	U	22.1	9.94	16.6	mg/kg	1		04/25/24 17:53
Surrogates									
5a Androstane (surr)	99.2		50-150			%	1		04/25/24 17:53

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:53
Container ID: 1241686006-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.752 g
Prep Extract Vol: 2 mL

Results of **RIR24SS143SP506**

Client Sample ID: **RIR24SS143SP506**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686006
Lab Project ID: 1241686

Collection Date: 04/24/24 10:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):89.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	16.2	J	22.1	9.94	16.6	mg/kg	1		04/25/24 22:54
Surrogates									
5a Androstane (surr)	84.2		50-150			%	1		04/25/24 22:54

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:54
Container ID: 1241686006-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.752 g
Prep Extract Vol: 2 mL

Results of **RIR24SS144SP502**

Client Sample ID: **RIR24SS144SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686007
Lab Project ID: 1241686

Collection Date: 04/24/24 10:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):15.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	866		131	59.1	98.3	mg/kg	1		04/25/24 18:03
Surrogates									
5a Androstane (surr)	162	*	50-150			%	1		04/25/24 18:03

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:03
Container ID: 1241686007-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.835 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS144SP502**

Client Sample ID: **RIR24SS144SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686007
Lab Project ID: 1241686

Collection Date: 04/24/24 10:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):15.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	175		131	59.1	98.3	mg/kg	1		04/25/24 23:04
Surrogates									
5a Androstane (surr)	84.8		50-150			%	1		04/25/24 23:04

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:04
Container ID: 1241686007-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.835 g
Prep Extract Vol: 2 mL

Results of **RIR24SS145SP54.5**

Client Sample ID: **RIR24SS145SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686008
Lab Project ID: 1241686

Collection Date: 04/24/24 10:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	14.3	J	24.1	10.8	18.1	mg/kg	1		04/25/24 18:12
Surrogates									
5a Androstane (surr)	101		50-150			%	1		04/25/24 18:12

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:12
Container ID: 1241686008-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.775 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS145SP54.5**

Client Sample ID: **RIR24SS145SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686008
Lab Project ID: 1241686

Collection Date: 04/24/24 10:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.0	J	24.1	10.8	18.1	mg/kg	1		04/25/24 23:34
Surrogates									
5a Androstane (surr)	86.4		50-150			%	1		04/25/24 23:34

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:34
Container ID: 1241686008-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.775 g
Prep Extract Vol: 2 mL

Results of **RIR24SS146SP507**

Client Sample ID: **RIR24SS146SP507**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686009
Lab Project ID: 1241686

Collection Date: 04/24/24 10:44
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	19.1	U	25.5	11.5	19.1	mg/kg	1		04/25/24 18:23
Surrogates									
5a Androstane (surr)	98.7		50-150			%	1		04/25/24 18:23

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:23
Container ID: 1241686009-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.582 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS146SP507**

Client Sample ID: **RIR24SS146SP507**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686009
Lab Project ID: 1241686

Collection Date: 04/24/24 10:44
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.8	J	25.5	11.5	19.1	mg/kg	1		04/25/24 23:44
Surrogates									
5a Androstane (surr)	84.2		50-150			%	1		04/25/24 23:44

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:44
Container ID: 1241686009-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.582 g
Prep Extract Vol: 2 mL

Results of **RIR24SS147SP502**

Client Sample ID: **RIR24SS147SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686010
Lab Project ID: 1241686

Collection Date: 04/24/24 11:00
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):17.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	429		111	49.9	83.3	mg/kg	1		04/25/24 18:33
Surrogates									
5a Androstane (surr)	122		50-150			%	1		04/25/24 18:33

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:33
Container ID: 1241686010-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.622 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS147SP502**

Client Sample ID: **RIR24SS147SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686010
Lab Project ID: 1241686

Collection Date: 04/24/24 11:00
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):17.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	87.3	J	111	49.9	83.3	mg/kg	1		04/25/24 23:55
Surrogates									
5a Androstane (surr)	72.7		50-150			%	1		04/25/24 23:55

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:55
Container ID: 1241686010-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.622 g
Prep Extract Vol: 2 mL

Results of **RIR24SS148SP54.5**

Client Sample ID: **RIR24SS148SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686011
Lab Project ID: 1241686

Collection Date: 04/24/24 11:02
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.3	J	23.8	10.7	17.9	mg/kg	1		04/25/24 18:43
Surrogates									
5a Androstane (surr)	93.5		50-150			%	1		04/25/24 18:43

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:43
Container ID: 1241686011-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.857 g
Prep Extract Vol: 2 mL

Results of **RIR24SS148SP54.5**

Client Sample ID: **RIR24SS148SP54.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686011
Lab Project ID: 1241686

Collection Date: 04/24/24 11:02
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.9	U	23.8	10.7	17.9	mg/kg	1		04/26/24 00:05
Surrogates									
5a Androstane (surr)	80.7		50-150			%	1		04/26/24 00:05

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:05
Container ID: 1241686011-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.857 g
Prep Extract Vol: 2 mL

Results of **RIR24SS148SP54.59**

Client Sample ID: **RIR24SS148SP54.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686012
Lab Project ID: 1241686

Collection Date: 04/24/24 11:03
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.2	U	24.3	10.9	18.2	mg/kg	1		04/25/24 18:53
Surrogates									
5a Androstane (surr)	98.4		50-150			%	1		04/25/24 18:53

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:53
Container ID: 1241686012-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.629 g
Prep Extract Vol: 2 mL

Results of **RIR24SS148SP54.59**

Client Sample ID: **RIR24SS148SP54.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686012
Lab Project ID: 1241686

Collection Date: 04/24/24 11:03
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.1	J	24.3	10.9	18.2	mg/kg	1		04/26/24 00:15
Surrogates									
5a Androstane (surr)	86.5		50-150			%	1		04/26/24 00:15

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:15
Container ID: 1241686012-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.629 g
Prep Extract Vol: 2 mL

Results of **RIR24SS149SP56.5**

Client Sample ID: **RIR24SS149SP56.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686013
Lab Project ID: 1241686

Collection Date: 04/24/24 11:04
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.3	U	24.4	11.0	18.3	mg/kg	1		04/25/24 19:03
Surrogates									
5a Androstane (surr)	97		50-150			%	1		04/25/24 19:03

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:03
Container ID: 1241686013-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.882 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS149SP56.5**

Client Sample ID: **RIR24SS149SP56.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686013
Lab Project ID: 1241686

Collection Date: 04/24/24 11:04
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.4	J	24.4	11.0	18.3	mg/kg	1		04/26/24 00:25
Surrogates									
5a Androstane (surr)	86.1		50-150			%	1		04/26/24 00:25

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:25
Container ID: 1241686013-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.882 g
Prep Extract Vol: 2 mL

Results of **RIR24SS150SP50.5**

Client Sample ID: **RIR24SS150SP50.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686014
Lab Project ID: 1241686

Collection Date: 04/24/24 11:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):77.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	57.7		25.2	11.3	18.9	mg/kg	1		04/25/24 19:13
Surrogates									
5a Androstane (surr)	113		50-150			%	1		04/25/24 19:13

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:13
Container ID: 1241686014-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.997 g
Prep Extract Vol: 2 mL

Results of **RIR24SS150SP50.5**

Client Sample ID: **RIR24SS150SP50.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686014
Lab Project ID: 1241686

Collection Date: 04/24/24 11:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):77.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.1	J	25.2	11.3	18.9	mg/kg	1		04/26/24 00:35
Surrogates									
5a Androstane (surr)	96		50-150			%	1		04/26/24 00:35

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:35
Container ID: 1241686014-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.997 g
Prep Extract Vol: 2 mL

Results of **RIR24SS151SP502**

Client Sample ID: **RIR24SS151SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686015
Lab Project ID: 1241686

Collection Date: 04/24/24 11:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	12.7	J	24.0	10.8	18.0	mg/kg	1		04/25/24 19:23
Surrogates									
5a Androstane (surr)	112		50-150			%	1		04/25/24 19:23

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:23
Container ID: 1241686015-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.683 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS151SP502**

Client Sample ID: **RIR24SS151SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686015
Lab Project ID: 1241686

Collection Date: 04/24/24 11:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.3	J	24.0	10.8	18.0	mg/kg	1		04/26/24 00:45
Surrogates									
5a Androstane (surr)	92.5		50-150			%	1		04/26/24 00:45

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:45
Container ID: 1241686015-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.683 g
Prep Extract Vol: 2 mL

Results of **RIR24SS152SP505**

Client Sample ID: **RIR24SS152SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686016
Lab Project ID: 1241686

Collection Date: 04/24/24 11:44
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):88.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.5	U	22.0	9.92	16.5	mg/kg	1		04/25/24 19:33
Surrogates									
5a Androstane (surr)	93.1		50-150			%	1		04/25/24 19:33

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:33
Container ID: 1241686016-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.977 g
Prep Extract Vol: 2 mL

Results of **RIR24SS152SP505**

Client Sample ID: **RIR24SS152SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686016
Lab Project ID: 1241686

Collection Date: 04/24/24 11:44
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):88.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	19.6	J	22.0	9.92	16.5	mg/kg	1		04/26/24 00:55
Surrogates									
5a Androstane (surr)	102		50-150			%	1		04/26/24 00:55

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:55
Container ID: 1241686016-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.977 g
Prep Extract Vol: 2 mL

Results of **RIR24SS153SP502**

Client Sample ID: **RIR24SS153SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686017
Lab Project ID: 1241686

Collection Date: 04/24/24 12:06
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):16.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	435		123	55.2	92.3	mg/kg	1		04/25/24 20:03
Surrogates									
5a Androstane (surr)	148		50-150			%	1		04/25/24 20:03

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:03
Container ID: 1241686017-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.886 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS153SP502**

Client Sample ID: **RIR24SS153SP502**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686017
Lab Project ID: 1241686

Collection Date: 04/24/24 12:06
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):16.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	126		123	55.2	92.3	mg/kg	1		04/26/24 01:06
Surrogates									
5a Androstane (surr)	82.9		50-150			%	1		04/26/24 01:06

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:06
Container ID: 1241686017-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.886 g
Prep Extract Vol: 2 mL

Results of **RIR24SS154SP504**

Client Sample ID: **RIR24SS154SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686018
Lab Project ID: 1241686

Collection Date: 04/24/24 12:08
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	14.1	J	24.4	11.0	18.3	mg/kg	1		04/25/24 20:13
Surrogates									
5a Androstane (surr)	102		50-150			%	1		04/25/24 20:13

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:13
Container ID: 1241686018-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.719 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS154SP504**

Client Sample ID: **RIR24SS154SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686018
Lab Project ID: 1241686

Collection Date: 04/24/24 12:08
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.0	J	24.4	11.0	18.3	mg/kg	1		04/26/24 01:16
Surrogates									
5a Androstane (surr)	86.5		50-150			%	1		04/26/24 01:16

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:16
Container ID: 1241686018-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.719 g
Prep Extract Vol: 2 mL

Results of **RIR24SS155SP505**

Client Sample ID: **RIR24SS155SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686019
Lab Project ID: 1241686

Collection Date: 04/24/24 12:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	19.1	J	22.5	10.1	16.9	mg/kg	1		04/25/24 20:22
Surrogates									
5a Androstane (surr)	105		50-150			%	1		04/25/24 20:22

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:22
Container ID: 1241686019-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.953 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS155SP505**

Client Sample ID: **RIR24SS155SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686019
Lab Project ID: 1241686

Collection Date: 04/24/24 12:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):87.2
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	20.4	J	22.5	10.1	16.9	mg/kg	1		04/26/24 01:26
Surrogates									
5a Androstane (surr)	87.4		50-150			%	1		04/26/24 01:26

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:26
Container ID: 1241686019-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.953 g
Prep Extract Vol: 2 mL

Results of **RIR24SS156SP51.5**

Client Sample ID: **RIR24SS156SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686020
Lab Project ID: 1241686

Collection Date: 04/24/24 12:36
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):15.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	441		126	56.8	94.5	mg/kg	1		04/25/24 20:33
Surrogates									
5a Androstane (surr)	104		50-150			%	1		04/25/24 20:33

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:33
Container ID: 1241686020-A

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 04/25/24 11:36
Prep Initial Wt./Vol.: 22.689 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS156SP51.5**

Client Sample ID: **RIR24SS156SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686020
Lab Project ID: 1241686

Collection Date: 04/24/24 12:36
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):15.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	127		126	56.8	94.5	mg/kg	1		04/26/24 01:36
Surrogates									
5a Androstane (surr)	78.3		50-150			%	1		04/26/24 01:36

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:36
Container ID: 1241686020-A

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 11:41
Prep Initial Wt./Vol.: 22.689 g
Prep Extract Vol: 2 mL

Results of **RIR24SS157SP53.5**

Client Sample ID: **RIR24SS157SP53.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686021
Lab Project ID: 1241686

Collection Date: 04/24/24 12:38
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.1	U	24.1	10.8	18.1	mg/kg	1		04/25/24 17:12
Surrogates									
5a Androstane (surr)	95.4		50-150			%	1		04/25/24 17:12

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:12
Container ID: 1241686021-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS157SP53.5**

Client Sample ID: **RIR24SS157SP53.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686021
Lab Project ID: 1241686

Collection Date: 04/24/24 12:38
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):81.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.5	J	24.1	10.8	18.1	mg/kg	1		04/25/24 21:43
Surrogates									
5a Androstane (surr)	96.9		50-150			%	1		04/25/24 21:43

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 21:43
Container ID: 1241686021-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

Results of **RIR24SS158SP505**

Client Sample ID: **RIR24SS158SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686022
Lab Project ID: 1241686

Collection Date: 04/24/24 12:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.4	U	23.2	10.4	17.4	mg/kg	1		04/25/24 17:23
Surrogates									
5a Androstane (surr)	95		50-150			%	1		04/25/24 17:23

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:23
Container ID: 1241686022-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.52 g
Prep Extract Vol: 2 mL

Results of **RIR24SS158SP505**

Client Sample ID: **RIR24SS158SP505**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686022
Lab Project ID: 1241686

Collection Date: 04/24/24 12:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.2
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.4	J	23.2	10.4	17.4	mg/kg	1		04/25/24 21:53
Surrogates									
5a Androstane (surr)	92.6		50-150			%	1		04/25/24 21:53

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 21:53
Container ID: 1241686022-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.52 g
Prep Extract Vol: 2 mL

Results of **RIR24SS158SP5059**

Client Sample ID: **RIR24SS158SP5059**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686025
Lab Project ID: 1241686

Collection Date: 04/24/24 12:41
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.1	U	22.8	10.2	17.1	mg/kg	1		04/25/24 17:53
Surrogates									
5a Androstane (surr)	98.6		50-150			%	1		04/25/24 17:53

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 17:53
Container ID: 1241686025-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.774 g
Prep Extract Vol: 2 mL

Results of **RIR24SS158SP5059**

Client Sample ID: **RIR24SS158SP5059**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686025
Lab Project ID: 1241686

Collection Date: 04/24/24 12:41
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	10.3	J	22.8	10.2	17.1	mg/kg	1		04/25/24 22:24
Surrogates									
5a Androstane (surr)	90.9		50-150			%	1		04/25/24 22:24

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:24
Container ID: 1241686025-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.774 g
Prep Extract Vol: 2 mL

Results of **RIR24SS159SP402**

Client Sample ID: **RIR24SS159SP402**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686026
Lab Project ID: 1241686

Collection Date: 04/24/24 14:15
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):54.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	48.9		36.3	16.3	27.2	mg/kg	1		04/25/24 18:03
Surrogates									
5a Androstane (surr)	111		50-150			%	1		04/25/24 18:03

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:03
Container ID: 1241686026-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.753 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS159SP402**

Client Sample ID: **RIR24SS159SP402**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686026
Lab Project ID: 1241686

Collection Date: 04/24/24 14:15
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):54.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	20.8	J	36.3	16.3	27.2	mg/kg	1		04/25/24 22:34
Surrogates									
5a Androstane (surr)	85.9		50-150			%	1		04/25/24 22:34

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:34
Container ID: 1241686026-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.753 g
Prep Extract Vol: 2 mL

Results of **RIR24SS160SP43.5**

Client Sample ID: **RIR24SS160SP43.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686027
Lab Project ID: 1241686

Collection Date: 04/24/24 14:17
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):49.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	74.8		39.8	17.9	29.8	mg/kg	1		04/25/24 18:12
Surrogates									
5a Androstane (surr)	120		50-150			%	1		04/25/24 18:12

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:12
Container ID: 1241686027-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.678 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS160SP43.5**

Client Sample ID: **RIR24SS160SP43.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686027
Lab Project ID: 1241686

Collection Date: 04/24/24 14:17
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):49.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	26.1	J	39.8	17.9	29.8	mg/kg	1		04/25/24 22:44
Surrogates									
5a Androstane (surr)	88.5		50-150			%	1		04/25/24 22:44

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:44
Container ID: 1241686027-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.678 g
Prep Extract Vol: 2 mL

Results of **RIR24SS161SP407**

Client Sample ID: **RIR24SS161SP407**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686028
Lab Project ID: 1241686

Collection Date: 04/24/24 14:19
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):92.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.0	U	21.4	9.65	16.0	mg/kg	1		04/25/24 18:23
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/25/24 18:23

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:23
Container ID: 1241686028-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.743 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS161SP407**

Client Sample ID: **RIR24SS161SP407**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686028
Lab Project ID: 1241686

Collection Date: 04/24/24 14:19
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):92.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	10.7	J	21.4	9.65	16.0	mg/kg	1		04/25/24 22:54
Surrogates									
5a Androstane (surr)	90.6		50-150			%	1		04/25/24 22:54

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 22:54
Container ID: 1241686028-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.743 g
Prep Extract Vol: 2 mL

Results of **RIR24SS162SP31.5**

Client Sample ID: **RIR24SS162SP31.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686029
Lab Project ID: 1241686

Collection Date: 04/24/24 14:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.5	U	24.7	11.1	18.5	mg/kg	1		04/25/24 18:33
Surrogates									
5a Androstane (surr)	98.8		50-150			%	1		04/25/24 18:33

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:33
Container ID: 1241686029-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.738 g
Prep Extract Vol: 2 mL

Results of **RIR24SS162SP31.5**

Client Sample ID: **RIR24SS162SP31.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686029
Lab Project ID: 1241686

Collection Date: 04/24/24 14:40
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.0	J	24.7	11.1	18.5	mg/kg	1		04/25/24 23:04
Surrogates									
5a Androstane (surr)	91.4		50-150			%	1		04/25/24 23:04

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:04
Container ID: 1241686029-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.738 g
Prep Extract Vol: 2 mL

Results of **RIR24SS163SP303**

Client Sample ID: **RIR24SS163SP303**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686030
Lab Project ID: 1241686

Collection Date: 04/24/24 14:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):94.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	15.7	U	20.9	9.41	15.7	mg/kg	1		04/25/24 18:43
Surrogates									
5a Androstane (surr)	101		50-150			%	1		04/25/24 18:43

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:43
Container ID: 1241686030-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.903 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS163SP303**

Client Sample ID: **RIR24SS163SP303**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686030
Lab Project ID: 1241686

Collection Date: 04/24/24 14:42
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):94.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	15.7	U	20.9	9.41	15.7	mg/kg	1		04/25/24 23:14
Surrogates									
5a Androstane (surr)	85.4		50-150			%	1		04/25/24 23:14

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:14
Container ID: 1241686030-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.903 g
Prep Extract Vol: 2 mL

Results of **RIR24SS164SP601**

Client Sample ID: **RIR24SS164SP601**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686031
Lab Project ID: 1241686

Collection Date: 04/24/24 15:25
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):72.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	20.4	U	27.2	12.3	20.4	mg/kg	1		04/25/24 18:53
Surrogates									
5a Androstane (surr)	100		50-150			%	1		04/25/24 18:53

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 18:53
Container ID: 1241686031-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.692 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS164SP601**

Client Sample ID: **RIR24SS164SP601**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686031
Lab Project ID: 1241686

Collection Date: 04/24/24 15:25
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):72.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	20.4	U	27.2	12.3	20.4	mg/kg	1		04/25/24 23:44
Surrogates									
5a Androstane (surr)	90.1		50-150			%	1		04/25/24 23:44

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:44
Container ID: 1241686031-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.692 g
Prep Extract Vol: 2 mL

Results of **RIR24SS165SP603**

Client Sample ID: **RIR24SS165SP603**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686032
Lab Project ID: 1241686

Collection Date: 04/24/24 15:27
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):83.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.7	U	23.6	10.6	17.7	mg/kg	1		04/25/24 19:03
Surrogates									
5a Androstane (surr)	99.2		50-150			%	1		04/25/24 19:03

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:03
Container ID: 1241686032-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

Results of **RIR24SS165SP603**

Client Sample ID: **RIR24SS165SP603**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686032
Lab Project ID: 1241686

Collection Date: 04/24/24 15:27
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):83.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.7	U	23.6	10.6	17.7	mg/kg	1		04/25/24 23:55
Surrogates									
5a Androstane (surr)	85.4		50-150			%	1		04/25/24 23:55

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/25/24 23:55
Container ID: 1241686032-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

Results of **RIR24SS166SP61.5**

Client Sample ID: **RIR24SS166SP61.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686033
Lab Project ID: 1241686

Collection Date: 04/24/24 15:55
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.6	U	24.8	11.1	18.6	mg/kg	1		04/25/24 19:13
Surrogates									
5a Androstane (surr)	105		50-150			%	1		04/25/24 19:13

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:13
Container ID: 1241686033-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.533 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS166SP61.5**

Client Sample ID: **RIR24SS166SP61.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686033
Lab Project ID: 1241686

Collection Date: 04/24/24 15:55
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.6	U	24.8	11.1	18.6	mg/kg	1		04/26/24 00:05
Surrogates									
5a Androstane (surr)	98.6		50-150			%	1		04/26/24 00:05

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:05
Container ID: 1241686033-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.533 g
Prep Extract Vol: 2 mL

Results of **RIR24SS166SP61.59**

Client Sample ID: **RIR24SS166SP61.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686034
Lab Project ID: 1241686

Collection Date: 04/24/24 15:56
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):75.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	19.4	U	25.8	11.6	19.4	mg/kg	1		04/25/24 19:23
Surrogates									
5a Androstane (surr)	97.2		50-150			%	1		04/25/24 19:23

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:23
Container ID: 1241686034-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS166SP61.59**

Client Sample ID: **RIR24SS166SP61.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686034
Lab Project ID: 1241686

Collection Date: 04/24/24 15:56
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):75.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	19.4	U	25.8	11.6	19.4	mg/kg	1		04/26/24 00:15
Surrogates									
5a Androstane (surr)	91.5		50-150			%	1		04/26/24 00:15

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:15
Container ID: 1241686034-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.968 g
Prep Extract Vol: 2 mL

Results of **RIR24SS167SP604**

Client Sample ID: **RIR24SS167SP604**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686035
Lab Project ID: 1241686

Collection Date: 04/24/24 15:57
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	20.9	J	25.2	11.4	18.9	mg/kg	1		04/25/24 19:33
Surrogates									
5a Androstane (surr)	104		50-150			%	1		04/25/24 19:33

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:33
Container ID: 1241686035-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.622 g
Prep Extract Vol: 2 mL

Results of **RIR24SS167SP604**

Client Sample ID: **RIR24SS167SP604**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686035
Lab Project ID: 1241686

Collection Date: 04/24/24 15:57
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	17.7	J	25.2	11.4	18.9	mg/kg	1		04/26/24 00:25
Surrogates									
5a Androstane (surr)	93.7		50-150			%	1		04/26/24 00:25

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:25
Container ID: 1241686035-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.622 g
Prep Extract Vol: 2 mL

Results of **RIR24SS168SP73.5**

Client Sample ID: **RIR24SS168SP73.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686036
Lab Project ID: 1241686

Collection Date: 04/24/24 16:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):83.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.7	U	23.6	10.6	17.7	mg/kg	1		04/25/24 19:43
Surrogates									
5a Androstane (surr)	100		50-150			%	1		04/25/24 19:43

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 19:43
Container ID: 1241686036-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.868 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS168SP73.5**

Client Sample ID: **RIR24SS168SP73.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686036
Lab Project ID: 1241686

Collection Date: 04/24/24 16:10
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):83.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.8	J	23.6	10.6	17.7	mg/kg	1		04/26/24 00:35
Surrogates									
5a Androstane (surr)	87.8		50-150			%	1		04/26/24 00:35

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:35
Container ID: 1241686036-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.868 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS168SP73.59**

Client Sample ID: **RIR24SS168SP73.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686037
Lab Project ID: 1241686

Collection Date: 04/24/24 16:11
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	17.3	U	23.1	10.4	17.3	mg/kg	1		04/25/24 20:13
Surrogates									
5a Androstane (surr)	110		50-150			%	1		04/25/24 20:13

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:13
Container ID: 1241686037-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.655 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS168SP73.59**

Client Sample ID: **RIR24SS168SP73.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686037
Lab Project ID: 1241686

Collection Date: 04/24/24 16:11
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):86.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	14.0	J	23.1	10.4	17.3	mg/kg	1		04/26/24 00:45
Surrogates									
5a Androstane (surr)	89.8		50-150			%	1		04/26/24 00:45

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:45
Container ID: 1241686037-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.655 g
Prep Extract Vol: 2 mL

Results of **RIR24SS169SP71.5**

Client Sample ID: **RIR24SS169SP71.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686038
Lab Project ID: 1241686

Collection Date: 04/24/24 16:28
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.5	U	24.6	11.0	18.5	mg/kg	1		04/25/24 20:22
Surrogates									
5a Androstane (surr)	102		50-150			%	1		04/25/24 20:22

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:22
Container ID: 1241686038-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.736 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS169SP71.5**

Client Sample ID: **RIR24SS169SP71.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686038
Lab Project ID: 1241686

Collection Date: 04/24/24 16:28
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):80.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	14.1	J	24.6	11.0	18.5	mg/kg	1		04/26/24 00:55
Surrogates									
5a Androstane (surr)	88.6		50-150			%	1		04/26/24 00:55

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 00:55
Container ID: 1241686038-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.736 g
Prep Extract Vol: 2 mL

Results of **RIR24SS170SP73.5**

Client Sample ID: **RIR24SS170SP73.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686039
Lab Project ID: 1241686

Collection Date: 04/24/24 16:30
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	13.2	J	23.7	10.7	17.8	mg/kg	1		04/25/24 20:33
Surrogates									
5a Androstane (surr)	100		50-150			%	1		04/25/24 20:33

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:33
Container ID: 1241686039-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.983 g
Prep Extract Vol: 2 mL

Print Date: 04/26/2024 2:43:54PM

J flagging is activated

Results of **RIR24SS170SP73.5**

Client Sample ID: **RIR24SS170SP73.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686039
Lab Project ID: 1241686

Collection Date: 04/24/24 16:30
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):82.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.2	J	23.7	10.7	17.8	mg/kg	1		04/26/24 01:06
Surrogates									
5a Androstane (surr)	96.8		50-150			%	1		04/26/24 01:06

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:06
Container ID: 1241686039-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.983 g
Prep Extract Vol: 2 mL

Results of **RIR24SS171SP81.5**

Client Sample ID: **RIR24SS171SP81.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686040
Lab Project ID: 1241686

Collection Date: 04/24/24 16:32
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	18.7	U	24.9	11.2	18.7	mg/kg	1		04/25/24 20:43
Surrogates									
5a Androstane (surr)	105		50-150			%	1		04/25/24 20:43

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/25/24 20:43
Container ID: 1241686040-A

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.981 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS171SP81.5**

Client Sample ID: **RIR24SS171SP81.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241686040
Lab Project ID: 1241686

Collection Date: 04/24/24 16:32
Received Date: 04/25/24 08:18
Matrix: Soil/Solid (dry weight)
Solids (%):78.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	14.3	J	24.9	11.2	18.7	mg/kg	1		04/26/24 01:16
Surrogates									
5a Androstane (surr)	83.2		50-150			%	1		04/26/24 01:16

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 01:16
Container ID: 1241686040-A

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/25/24 12:30
Prep Initial Wt./Vol.: 22.981 g
Prep Extract Vol: 2 mL

Method Blank

Blank ID: MB for HBN 1876445 [SPT/12025]
Blank Lab ID: 1761139

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241686001, 1241686002, 1241686003, 1241686004, 1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020, 1241686021, 1241686022, 1241686025, 1241686026, 1241686027, 1241686028, 1241686029,

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Solids	99.9				%

Batch Information

Analytical Batch: SPT12025
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT
Analytical Date/Time: 4/25/2024 9:40:00PM

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Duplicate Sample Summary

Original Sample ID: 1241648007
Duplicate Sample ID: 1761140
Analysis Date: 04/25/2024 21:40
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	91.3	92.0	%	0.83	(< 15)

Batch Information

Analytical Batch: SPT12025
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/26/2024 2:44:02PM

Duplicate Sample Summary

Original Sample ID: 1241652001
Duplicate Sample ID: 1761141
QC for Samples:
1241686001, 1241686002

Analysis Date: 04/25/2024 21:40
Matrix: Soil/Solid (dry weight)

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	96.4	96.5	%	0.12	(< 15)

Batch Information

Analytical Batch: SPT12025
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/26/2024 2:44:02PM

Duplicate Sample Summary

Original Sample ID: 1241686002
Duplicate Sample ID: 1761142

Analysis Date: 04/25/2024 21:40
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241686001, 1241686002, 1241686003, 1241686004, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	81.1	83.5	%	2.90	(< 15)

Batch Information

Analytical Batch: SPT12025
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/26/2024 2:44:02PM

Duplicate Sample Summary

Original Sample ID: 1241686016
Duplicate Sample ID: 1761143

Analysis Date: 04/25/2024 21:40
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241686003, 1241686004, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020, 1241686021, 1241686022, 1241686025, 1241686026,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	88.8	89.4	%	0.59	(< 15)

Batch Information

Analytical Batch: SPT12025
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 04/26/2024 2:44:02PM

Method Blank

Blank ID: MB for HBN 1876344 [XXX/49364]
Blank Lab ID: 1760943

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241686001, 1241686002, 1241686003, 1241686004, 1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	113	60-120		0	%

Batch Information

Analytical Batch: XFC16834
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/26/2024 9:02:00AM

Prep Batch: XXX49364
Prep Method: SW3550C
Prep Date/Time: 4/25/2024 11:36:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241686 [XXX49364]
Blank Spike Lab ID: 1760944
Date Analyzed: 04/25/2024 21:13

Spike Duplicate ID: LCSD for HBN 1241686 [XXX49364]
Spike Duplicate Lab ID: 1760945
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241686001, 1241686002, 1241686003, 1241686004, 1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	531	119	444	522	118	(75-125)	1.60	(< 20)
Surrogates									
5a Androstane (surr)	8.89		115	8.89		113	(60-120)	2.20	

Batch Information

Analytical Batch: **XFC16834**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49364**
Prep Method: **SW3550C**
Prep Date/Time: **04/25/2024 11:36**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Method Blank

Blank ID: MB for HBN 1876345 [XXX/49365]
Blank Lab ID: 1760946

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241686001, 1241686002, 1241686003, 1241686004, 1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	102	70-125		0	%

Batch Information

Analytical Batch: XFC16835
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/26/2024 9:12:00AM

Prep Batch: XXX49365
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/25/2024 11:41:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241686 [XXX49365]
Blank Spike Lab ID: 1760947
Date Analyzed: 04/25/2024 21:43

Spike Duplicate ID: LCSD for HBN 1241686 [XXX49365]
Spike Duplicate Lab ID: 1760948
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241686001, 1241686002, 1241686003, 1241686004, 1241686005, 1241686006, 1241686007, 1241686008, 1241686009, 1241686010, 1241686011, 1241686012, 1241686013, 1241686014, 1241686015, 1241686016, 1241686017, 1241686018, 1241686019, 1241686020

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	421	95	444	435	98	(70-125)	3.30	(< 20)
Surrogates									
5a Androstane (surr)	8.89		93	8.89		95	(70-125)	2.40	

Batch Information

Analytical Batch: **XFC16835**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49365**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/25/2024 11:41**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Method Blank

Blank ID: MB for HBN 1876352 [XXX/49366]
Blank Lab ID: 1760983

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241686021, 1241686022, 1241686025, 1241686026, 1241686027, 1241686028, 1241686029, 1241686030, 1241686031, 1241686032, 1241686033, 1241686034, 1241686035, 1241686036, 1241686037, 1241686038, 1241686039, 1241686040

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	105	60-120		0	%

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/25/2024 4:42:00PM

Prep Batch: XXX49366
Prep Method: SW3550C
Prep Date/Time: 4/25/2024 12:30:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241686 [XXX49366]
Blank Spike Lab ID: 1760984
Date Analyzed: 04/25/2024 16:52

Spike Duplicate ID: LCSD for HBN 1241686 [XXX49366]
Spike Duplicate Lab ID: 1760985
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241686021, 1241686022, 1241686025, 1241686026, 1241686027, 1241686028, 1241686029, 1241686030, 1241686031, 1241686032, 1241686033, 1241686034, 1241686035, 1241686036, 1241686037, 1241686038, 1241686039, 1241686040

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	496	112	444	491	110	(75-125)	0.93	(< 20)
Surrogates									
5a Androstane (surr)	8.89		109	8.89		108	(60-120)	1.10	

Batch Information

Analytical Batch: **XFC16837**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **T.L**

Prep Batch: **XXX49366**
Prep Method: **SW3550C**
Prep Date/Time: **04/25/2024 12:30**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Billable Matrix Spike Summary

Original Sample ID: 1241686022
MS Sample ID: 1241686023 BMS
MSD Sample ID: 1241686024 BMSD

Analysis Date: 04/25/2024 17:23
Analysis Date: 04/25/2024 17:33
Analysis Date: 04/25/2024 17:43
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	17.4U	509	548	107	515	543	106	60-140	0.65	(< 50)
Surrogates										
5a Androstane (surr)		10.2	11.0	108	10.3	10.8	105	50-150	1.50	

Batch Information

Analytical Batch: XFC16837
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/25/2024 5:33:00PM

Prep Batch: XXX49366
Prep Method: Sonication Extr Soil AK102/3 Reg 2Ml
Prep Date/Time: 4/25/2024 12:30:00PM
Prep Initial Wt./Vol.: 22.78g
Prep Extract Vol: 2.00mL

Print Date: 04/26/2024 2:44:23PM

Method Blank

Blank ID: MB for HBN 1876353 [XXX/49367]
Blank Lab ID: 1760990

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241686021, 1241686022, 1241686025, 1241686026, 1241686027, 1241686028, 1241686029, 1241686030, 1241686031, 1241686032, 1241686033, 1241686034, 1241686035, 1241686036, 1241686037, 1241686038, 1241686039, 1241686040

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	87.8	70-125		0	%

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/25/2024 9:13:00PM

Prep Batch: XXX49367
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/25/2024 12:30:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241686 [XXX49367]
Blank Spike Lab ID: 1760991
Date Analyzed: 04/25/2024 21:23

Spike Duplicate ID: LCSD for HBN 1241686 [XXX49367]
Spike Duplicate Lab ID: 1760992
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241686021, 1241686022, 1241686025, 1241686026, 1241686027, 1241686028, 1241686029, 1241686030, 1241686031, 1241686032, 1241686033, 1241686034, 1241686035, 1241686036, 1241686037, 1241686038, 1241686039, 1241686040

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	407	92	444	440	99	(70-125)	7.70	(< 20)
Surrogates									
5a Androstane (surr)	8.89		90	8.89		99	(70-125)	9.80	

Batch Information

Analytical Batch: **XFC16838**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **T.L**

Prep Batch: **XXX49367**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/25/2024 12:30**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241686022
MS Sample ID: 1241686023 BMS
MSD Sample ID: 1241686024 BMSD

Analysis Date: 04/25/2024 21:53
Analysis Date: 04/25/2024 22:03
Analysis Date: 04/25/2024 22:13
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	12.4J	509	508	97	515	486	92	60-140	4.50	(< 50)
Surrogates										
5a Androstane (surr)		10.2	10.2	100	10.3	9.54	93	50-150	7.10	

Batch Information

Analytical Batch: XFC16838
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/25/2024 10:03:00PM

Prep Batch: XXX49367
Prep Method: Sonication Extraction Soil AK102 Silica
Prep Date/Time: 4/25/2024 12:30:00PM
Prep Initial Wt./Vol.: 22.78g
Prep Extract Vol: 2.00mL

Print Date: 04/26/2024 2:44:30PM

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1241686

P#409567 GM

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Page 1 of 4

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG								REMARKS/LOC ID
(1) A	RIR24SS138SP502	4/24/24	932	SO	1	Grab		X								
(2) A	RIR24SS139SP504	4/24/24	934	SO	1	Grab		X								
(3) A	RIR24SS140SP7.5	4/24/24	936	SO	1	Grab		X								
(4) A	RIR24 SS141SP02	4/24/24	1006	SO	1	Grab		X								
(5) A	RIR24 SS142SP3.5	4/24/24	1008	SO	1	Grab		X								
(6) A	RIR24SS143SP506	4/24/24	1010	SO	1	Grab		X								
(7) A	RIR24 SS144SP502	4/24/24	1040	SO	1	Grab		X								
(8) A	RIR24 SS 145SP4.5	4/24/24	1042	SO	1	Grab		X								
(9) A	RIR24 SS146SP507	4/24/24	1044	SO	1	Grab		X								
(10) A	RIR24 SS147SP502	4/24/24	1100	SO	1	Grab		X								

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

	Date	Time	
Relinquished By: (1) ~~Robert Melrose~~	4/24/24	1800	Received By: Kimi Lloyd
Relinquished By: (2) Kimi Lloyd	4/25/24	0818	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	4/25/24	0818	Received For Laboratory By:

Section 4 — DOD Project? Yes No

Cooler ID: RIR003

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 HR Turnaround

Temp Blank °C: 4.7 #D30 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois | PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI | PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl | E-MAIL: jdahl@alaskapeninsulacorp.com | Profile #:

INVOICE TO: TALCES JV, LLC | QUOTE #: | P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	REMARKS/LOC ID
11	A	RIR24SS148SP54.5	4/24/24	1102	SO	1	Grab		X	
12	A	RIR24SS148SP54.59	4/24/24	1103	SO	1	Grab		X	
13	A	RIR24SS149SP56.5	4/24/24	1104	SO	1	Grab		X	
14	A	RIR24SS150SP50.5	4/24/24	1140	SO	1	Grab		X	
15	A	RIR24SS151SP502	4/24/24	1142	SO	1	Grab		X	
16	A	RIR24SS152SP505	4/24/24	1144	SO	1	Grab		X	
17	A	RIR24SS153SP502	4/24/24	1206	SO	1	Grab		X	
18	A	RIR24SS154SP504	4/24/24	1208	SO	1	Grab		X	
19	A	RIR24SS155SP505	4/24/24	1210	SO	1	Grab		X	
20	A	RIR24SS156SP51.5	4/24/24	1236	SO	1	Grab		X	

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

Relinquished By: (1) ~~Robert Melrose~~	Date 4/24/24	Time 1800	Received By: Kimi Lloyd
Relinquished By: (2) Kimi Lloyd	Date 4/25/24	Time 0818	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 4/25/24	Time 0818	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIR003

Requested Turnaround Time and/or Special Instructions:

24 Hr Rapid Turnaround

Temp Blank °C: 4.2°C #030 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [X] Commerical Delivery [ ]

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C: AK102 HOLD	Analysis* 4°C: DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
20 A	RIR24SS157SP535	4/24/24	1238	SO	1	Grab		X	
22 (23) AC	RIR24SS158SP505	4/24/24	1240	SO	3	Grab		X	MS/MSD
25 A	RIR24SS159SP5059	4/24/24	1241	SO	1	Grab		X	
26 A	RIR24SS159SP402	4/24/24	1415	SO	1	Grab		X	
27 A	RIR24SS160SP435	4/24/24	1417	SO	1	Grab		X	
28 A	RIR24SS161SP407	4/24/24	1419	SO	1	Grab		X	
29 A	RIR24SS162SP315	4/24/24	1440	SO	1	Grab		X	
30 A	RIR24SS163SP303	4/24/24	1442	SO	1	Grab		X	
31 A	RIR24SS164SP601	4/24/24	1525	SO	1	Grab		X	
32 A	RIR24SS165SP603	4/24/24	1527	SO	1	Grab		X	

Section 5

	Date	Time	
Relinquished By: (1) ~~Robert Melrose~~	4/24/24	1800	Received By: Kimi Lloyd
Relinquished By: (2) Kimi Lloyd	4/25/24	0818	Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	4/25/24	0818	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIR 003

Requested Turnaround Time and/or Special Instructions:

24 Hr Rapid Turnaround

Temp Blank °C: 4.2 °#030 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [X] Commerical Delivery [ ]

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CHAIN OF CUSTODY RECORD

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	TALCES JV, LLC		
CONTACT:	Greg DuBois	PHONE #:	1 (907) 830-8360
PROJECT NAME:	Ralston Island RI	PROJECT/ PWSID/ PERMIT#:	697DCK-24-C-00040
REPORTS TO:	Julie Dahl	E-MAIL:	jdahl@alaskapeninsulacorp.com
		Profile #:	
INVOICE TO:	TALCES JV, LLC	QUOTE #:	
		P.O. #:	Ralston Is.

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C: AK102 HOLD	Analysis* 4°C: DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS
33 A	RIR24SS168SP61.5	4/24/24	1558	SO	1	Grab		X	
34 A	RIR24SS166SP61.5A	4/24/24	1556	SO	1	Grab		X	
35 A	RIR24SS167SP66.4	4/24/24	1557	SO	1	Grab		X	
36 A	RIR24SS168SP73.5	4/24/24	1610	SO	1	Grab		X	
37 A	RIR24SS168SP73.5A	4/24/24	1611	SO	1	Grab		X	
38 A	RIR24SS169SP71.5	4/24/24	1628	SO	1	Grab		X	
39 A	RIR24SS170SP73.5	4/24/24	1630	SO	1	Grab		X	
40 A	RIR24SS171SP61.5	4/24/24	1632	SO	1	Grab		X	
	RIR24SS								
	RIR24SS								

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/24/24	1800	Received By: Kimi Lloyd
Relinquished By: (2) Kimi Lloyd	4/25/24	0818	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	4/25/24	0818	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID: RIR003

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 HR Rapid Turnaround

Temp Blank °C: 4.2° HD30 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	(Yes)	No	N/A	
Was temperature between 0-6° C?	(Yes)	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	(Yes)	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	(Yes)	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	(N/A)	
If rush was requested by the client, was the requested TAT approved?	(Yes)	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	(N/A)	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	(Yes)	No	N/A	
If provided on containers, do dates/times collected match COC?	(Yes)	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	(Yes)	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	(Yes)	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	(N/A)	
Were all VOA vials free of headspace >6mm?	Yes	No	(N/A)	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	(N/A)	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	(N/A)	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	(Yes)	No	N/A	MS/MSD
For Rush/Short Holding time, was the lab notified?	(Yes)	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	(N/A)	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	(N/A)	Reviewer Initials:

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241686001-A	No Preservative Required	OK			
1241686002-A	No Preservative Required	OK			
1241686003-A	No Preservative Required	OK			
1241686004-A	No Preservative Required	OK			
1241686005-A	No Preservative Required	OK			
1241686006-A	No Preservative Required	OK			
1241686007-A	No Preservative Required	OK			
1241686008-A	No Preservative Required	OK			
1241686009-A	No Preservative Required	OK			
1241686010-A	No Preservative Required	OK			
1241686011-A	No Preservative Required	OK			
1241686012-A	No Preservative Required	OK			
1241686013-A	No Preservative Required	OK			
1241686014-A	No Preservative Required	OK			
1241686015-A	No Preservative Required	OK			
1241686016-A	No Preservative Required	OK			
1241686017-A	No Preservative Required	OK			
1241686018-A	No Preservative Required	OK			
1241686019-A	No Preservative Required	OK			
1241686020-A	No Preservative Required	OK			
1241686021-A	No Preservative Required	OK			
1241686022-A	No Preservative Required	OK			
1241686022-B	No Preservative Required	OK			
1241686022-C	No Preservative Required	OK			
1241686023-A	No Preservative Required	OK			
1241686023-B	No Preservative Required	OK			
1241686023-C	No Preservative Required	OK			
1241686024-A	No Preservative Required	OK			
1241686024-B	No Preservative Required	OK			
1241686024-C	No Preservative Required	OK			
1241686025-A	No Preservative Required	OK			
1241686026-A	No Preservative Required	OK			
1241686027-A	No Preservative Required	OK			
1241686028-A	No Preservative Required	OK			
1241686029-A	No Preservative Required	OK			
1241686030-A	No Preservative Required	OK			
1241686031-A	No Preservative Required	OK			
1241686032-A	No Preservative Required	OK			
1241686033-A	No Preservative Required	OK			
1241686034-A	No Preservative Required	OK			
1241686035-A	No Preservative Required	OK			
1241686036-A	No Preservative Required	OK			
1241686037-A	No Preservative Required	OK			
1241686038-A	No Preservative Required	OK			
1241686039-A	No Preservative Required	OK			
1241686040-A	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

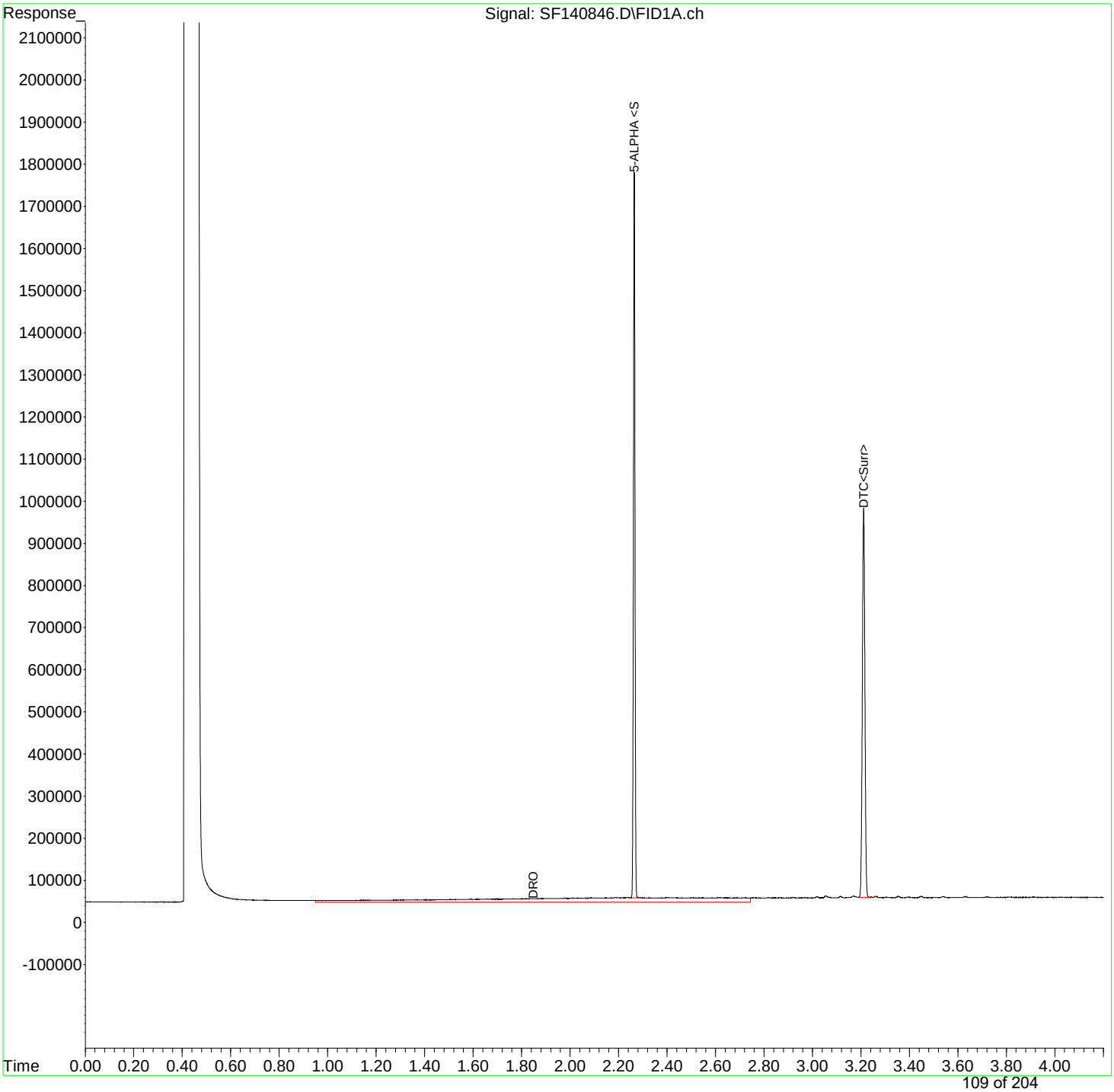
Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140846.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 16:32
Operator : T.L
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 16:41:43 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

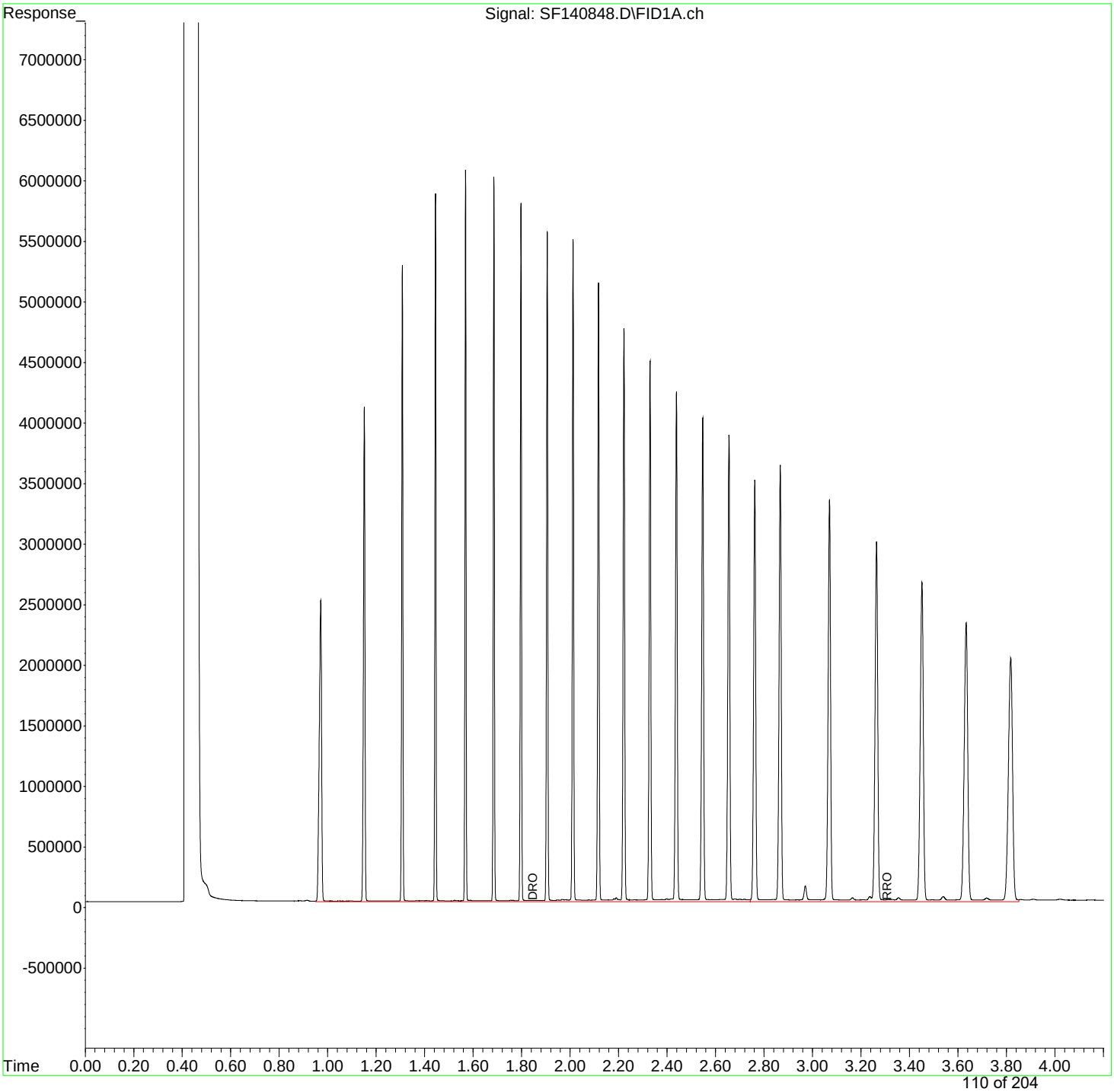
Volume Inj. :
Signal Phase :
Signal Info :



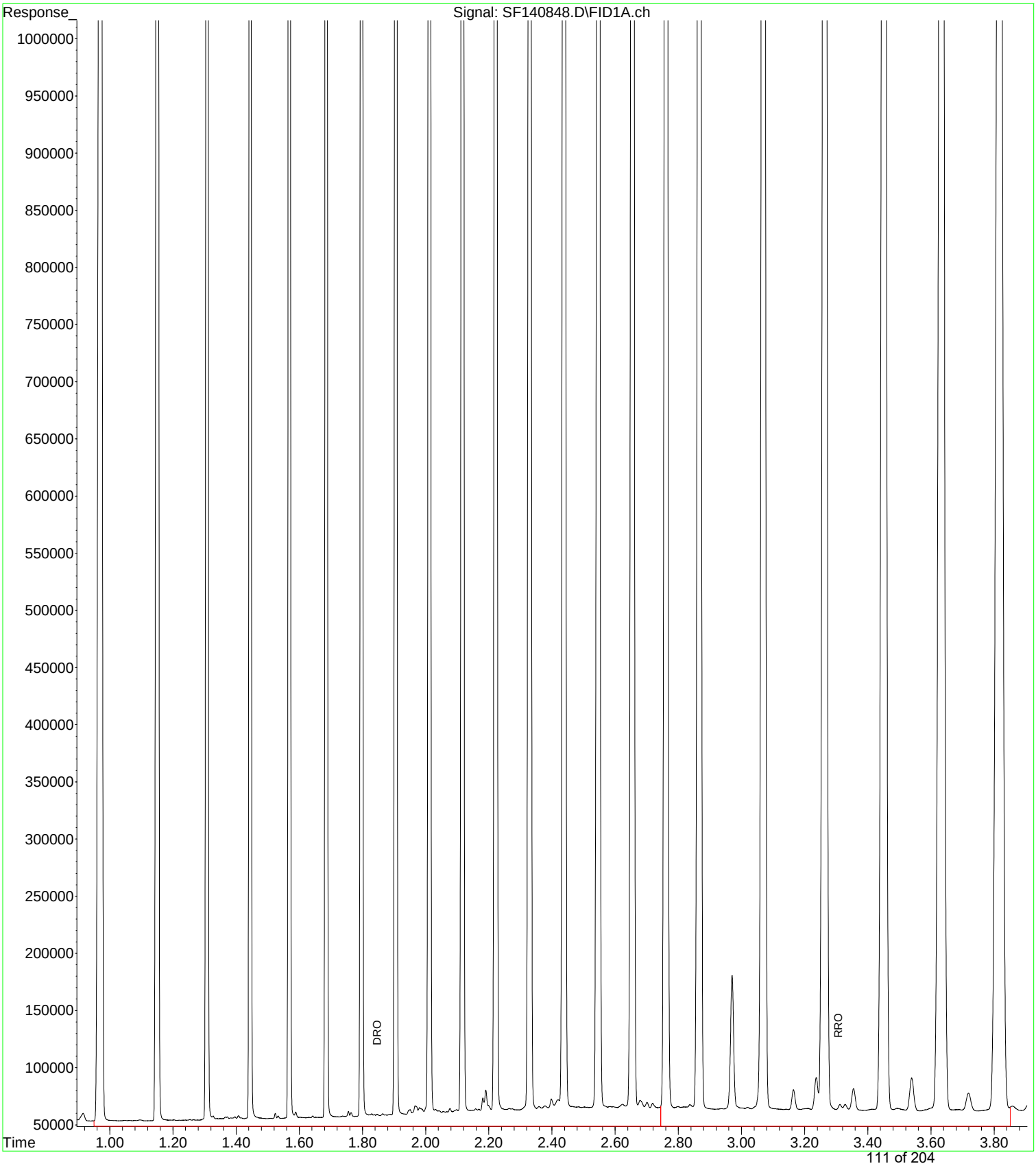
Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140848.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 16:42
Operator : T.L
Sample : NAS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 16:55:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



File :Z:\DATA\SF\Data\SF04252024A\SF140848.D
Operator : T.L
Acquired : 25 Apr 2024 16:42 using AcqMethod SF_MXTDUAL_2023.M
Instrument : SF
Sample Name: NAS
Misc Info :
Vial Number: 2



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140886.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:53
Operator : T.L
Sample : 1241686001
Misc :
ALS Vial : 12 Sample Multiplier: 1

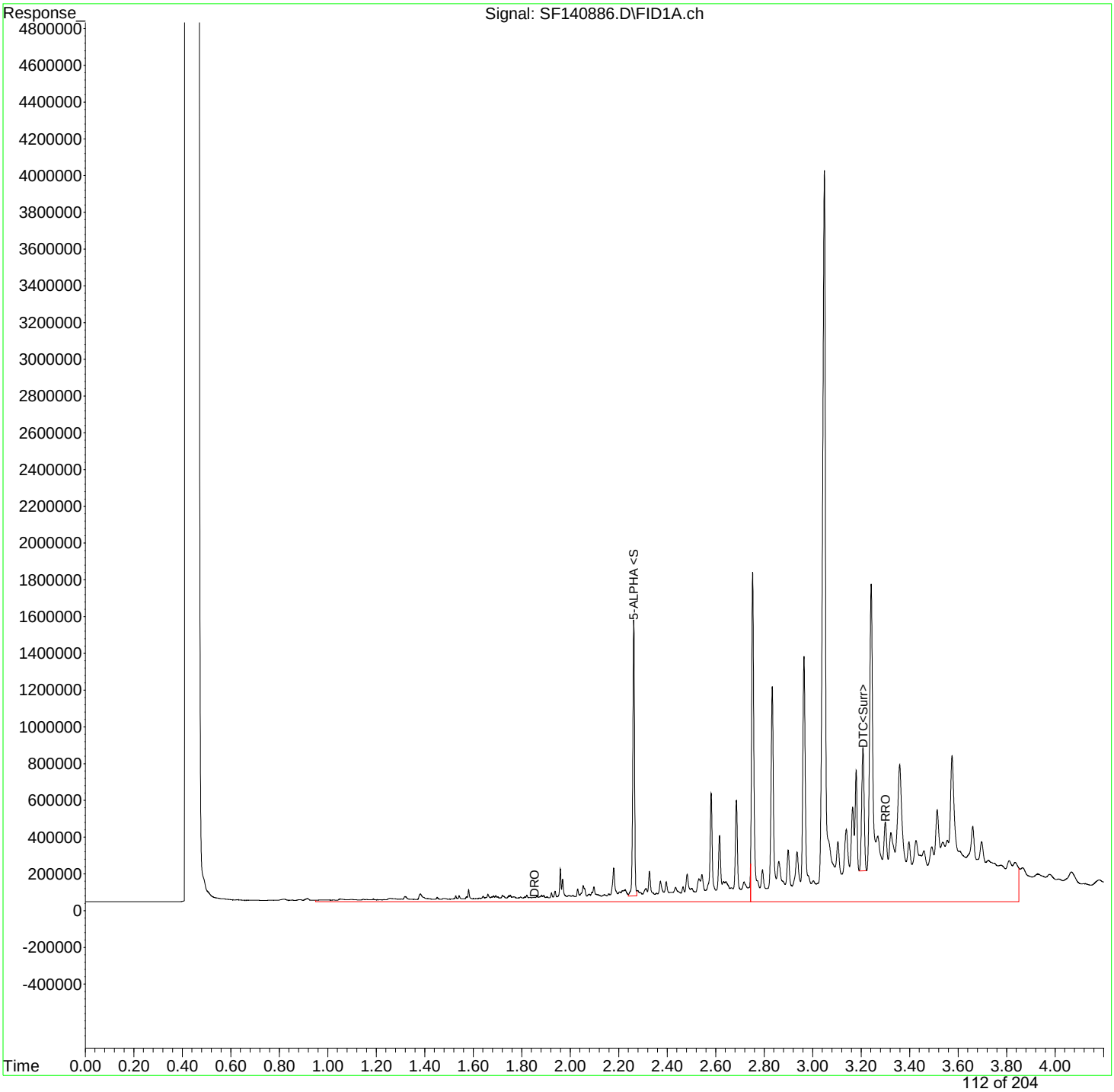
Integration File: autoint1.e
Quant Time: Apr 25 20:00:26 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

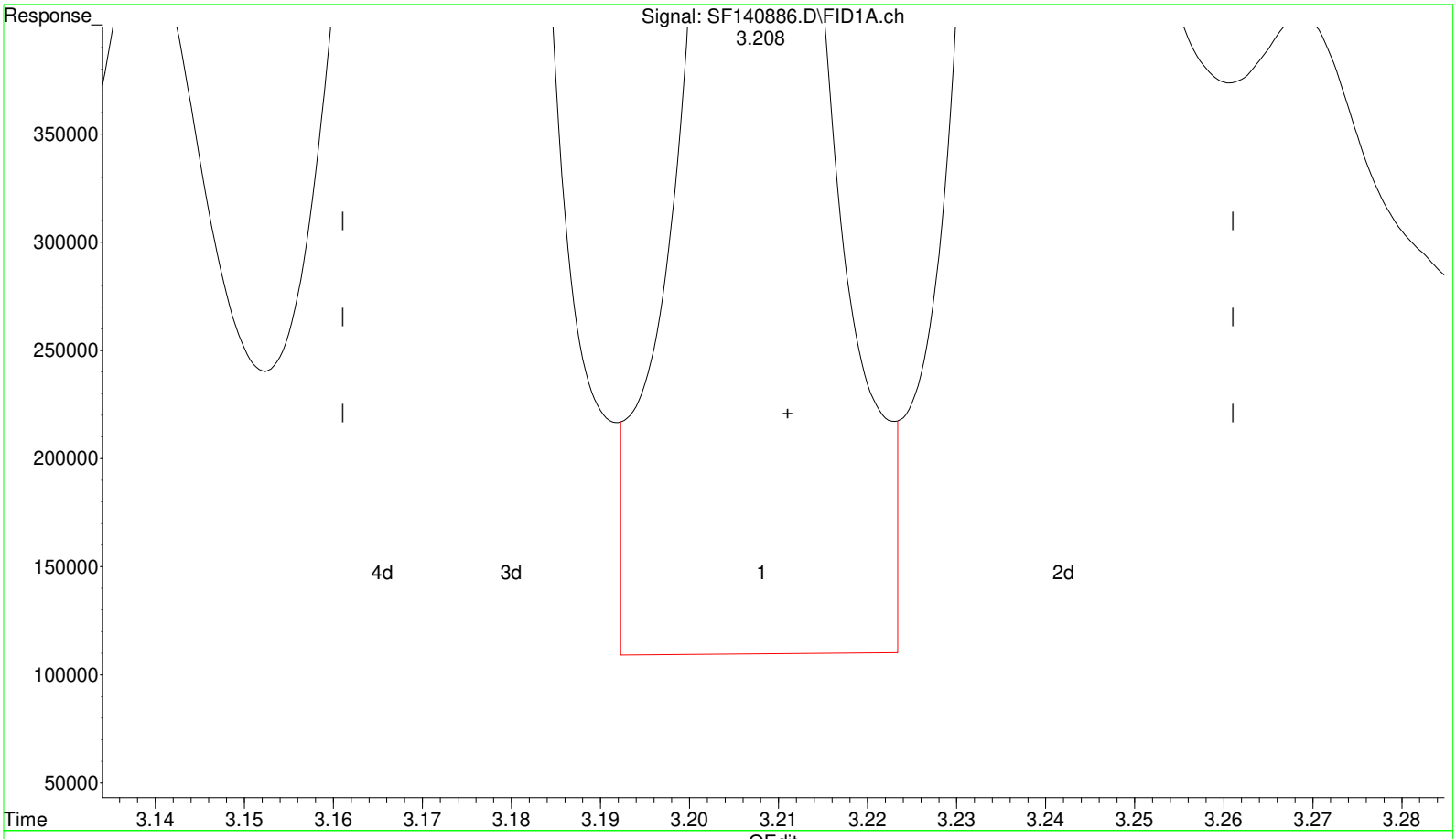


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140886.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:53
Operator : T.L
Sample : 1241686001
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 20:00:11 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 123.667 µg/mL

response 6797440

O-BLC

Apr 26, 2024

Tashi Lhamu

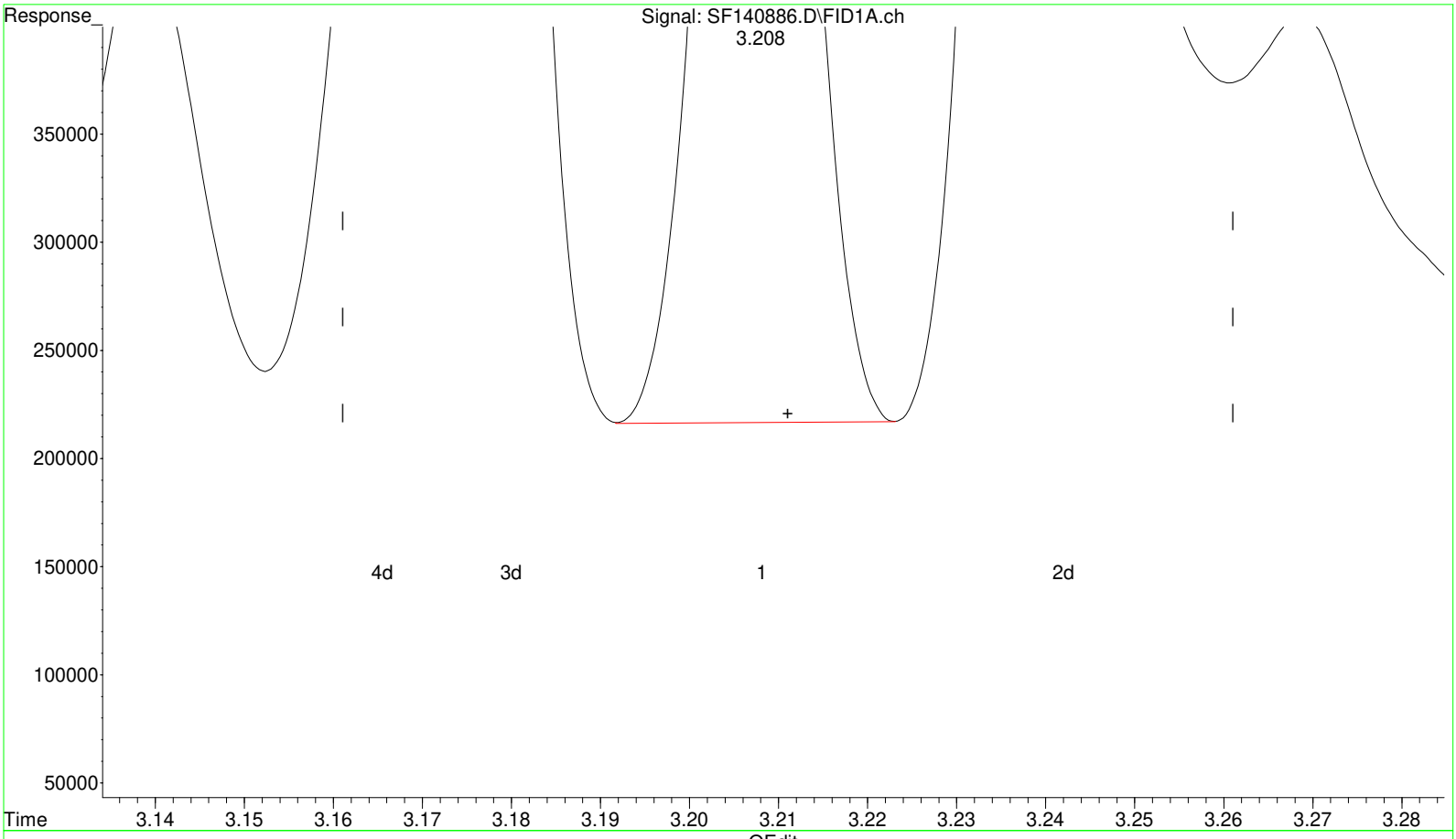
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140886.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:53
Operator : T.L
Sample : 1241686001
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 20:00:11 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 87.347 µg/mL m

response 4801064

M-BLC
Apr 26, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140854.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 17:12
Operator : T.L
Sample : 1241686002
Misc :
ALS Vial : 13 Sample Multiplier: 1

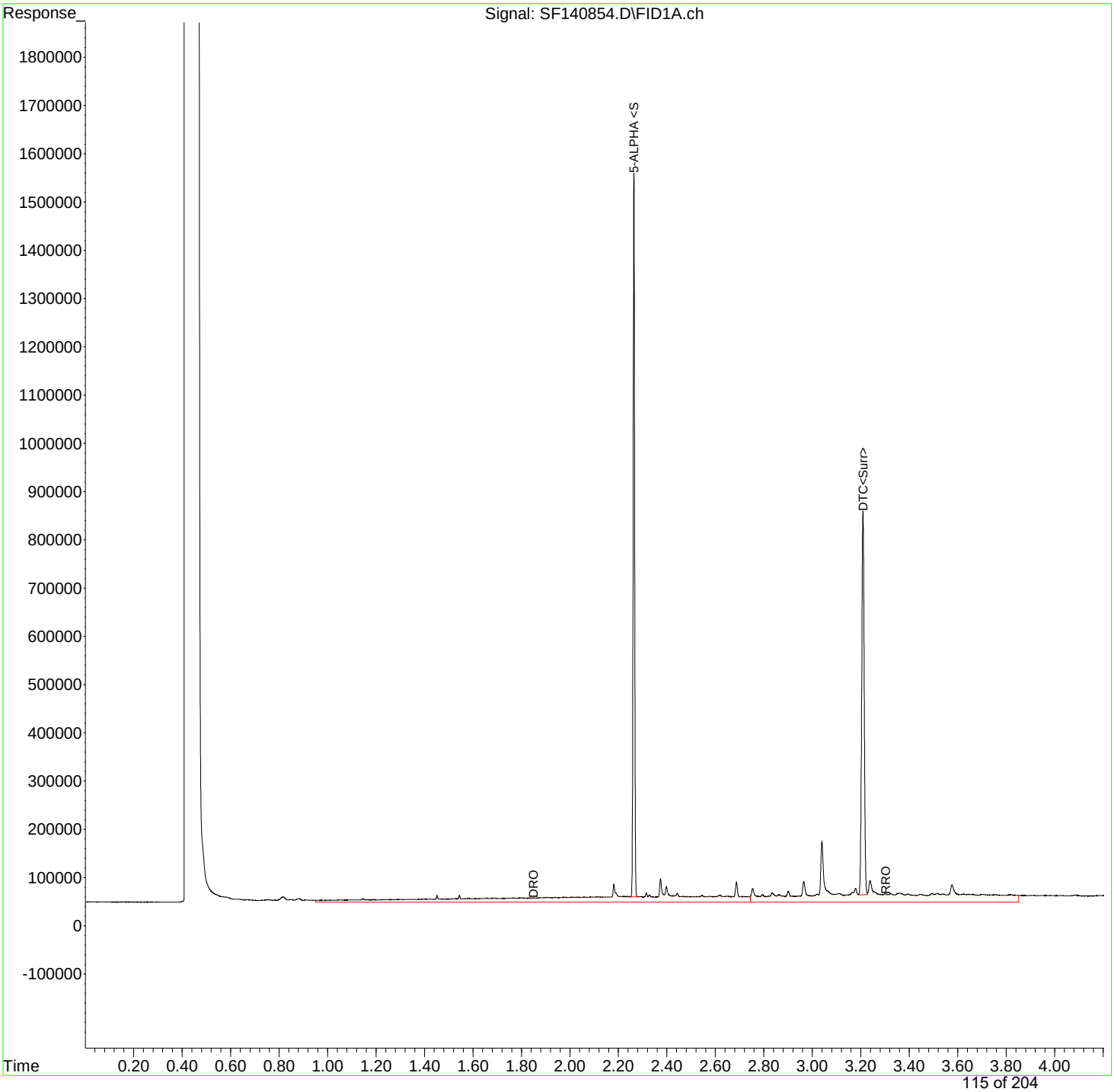
Integration File: autoint1.e
Quant Time: Apr 25 17:20:41 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140856.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 17:23
Operator : T.L
Sample : 1241686003
Misc :
ALS Vial : 14 Sample Multiplier: 1

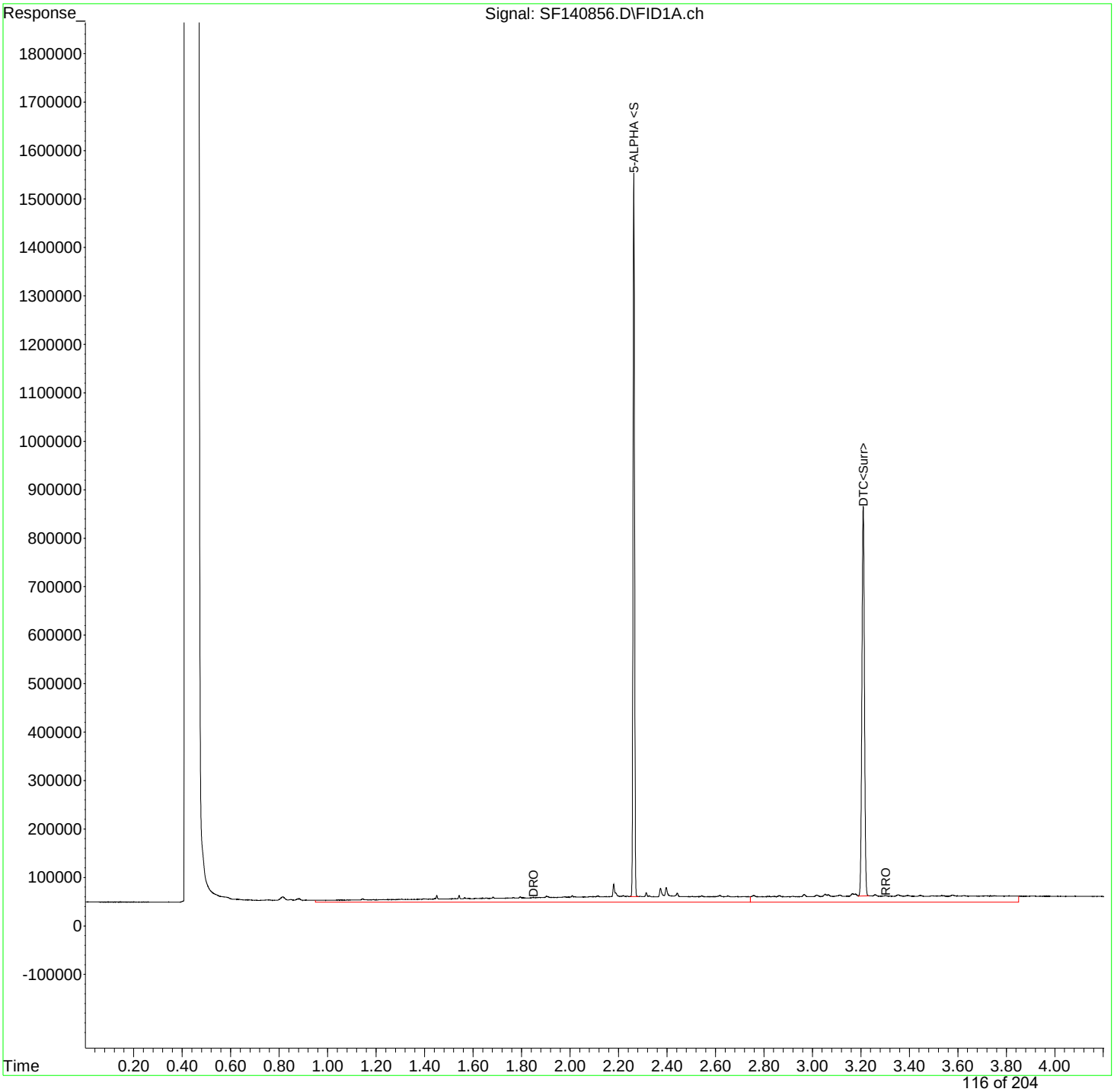
Integration File: autoint1.e
Quant Time: Apr 25 17:30:33 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140858.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 17:33
Operator : T.L
Sample : 1241686004
Misc :
ALS Vial : 15 Sample Multiplier: 1

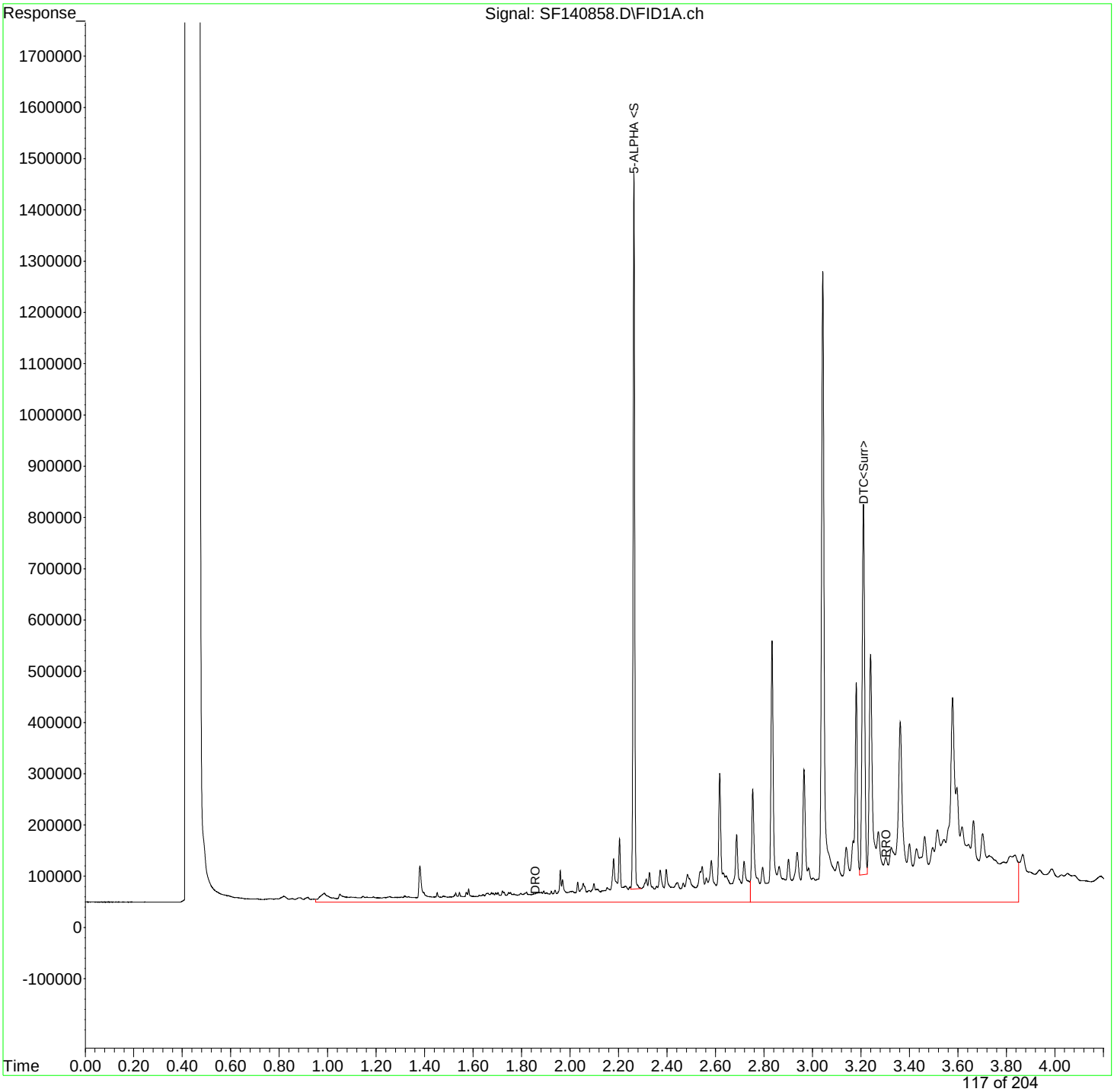
Integration File: autoint1.e
Quant Time: Apr 25 17:41:39 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140860.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 17:43
Operator : T.L
Sample : 1241686005
Misc :
ALS Vial : 16 Sample Multiplier: 1

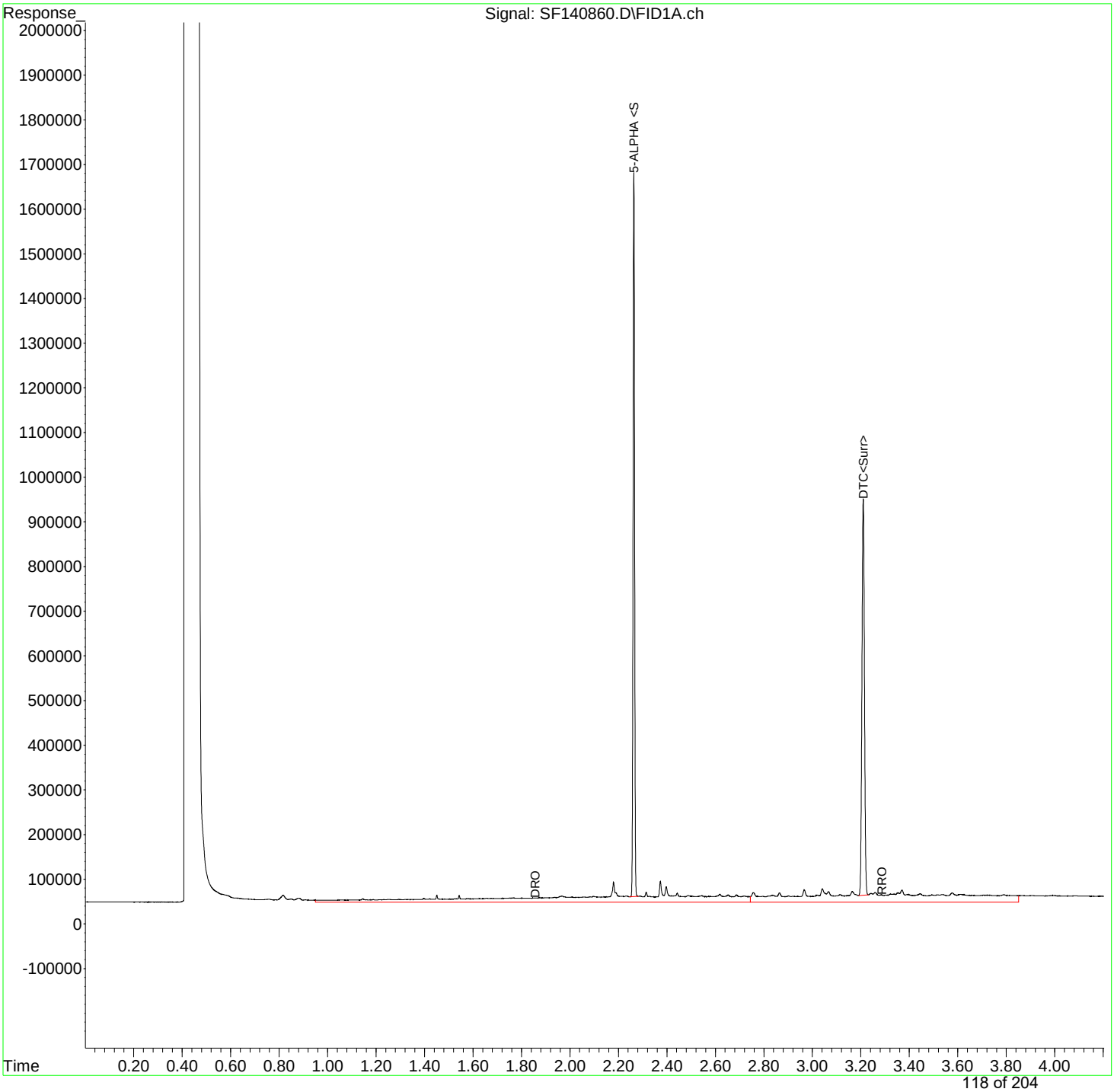
Integration File: autoint1.e
Quant Time: Apr 25 17:51:03 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140862.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 17:53
Operator : T.L
Sample : 1241686006
Misc :
ALS Vial : 17 Sample Multiplier: 1

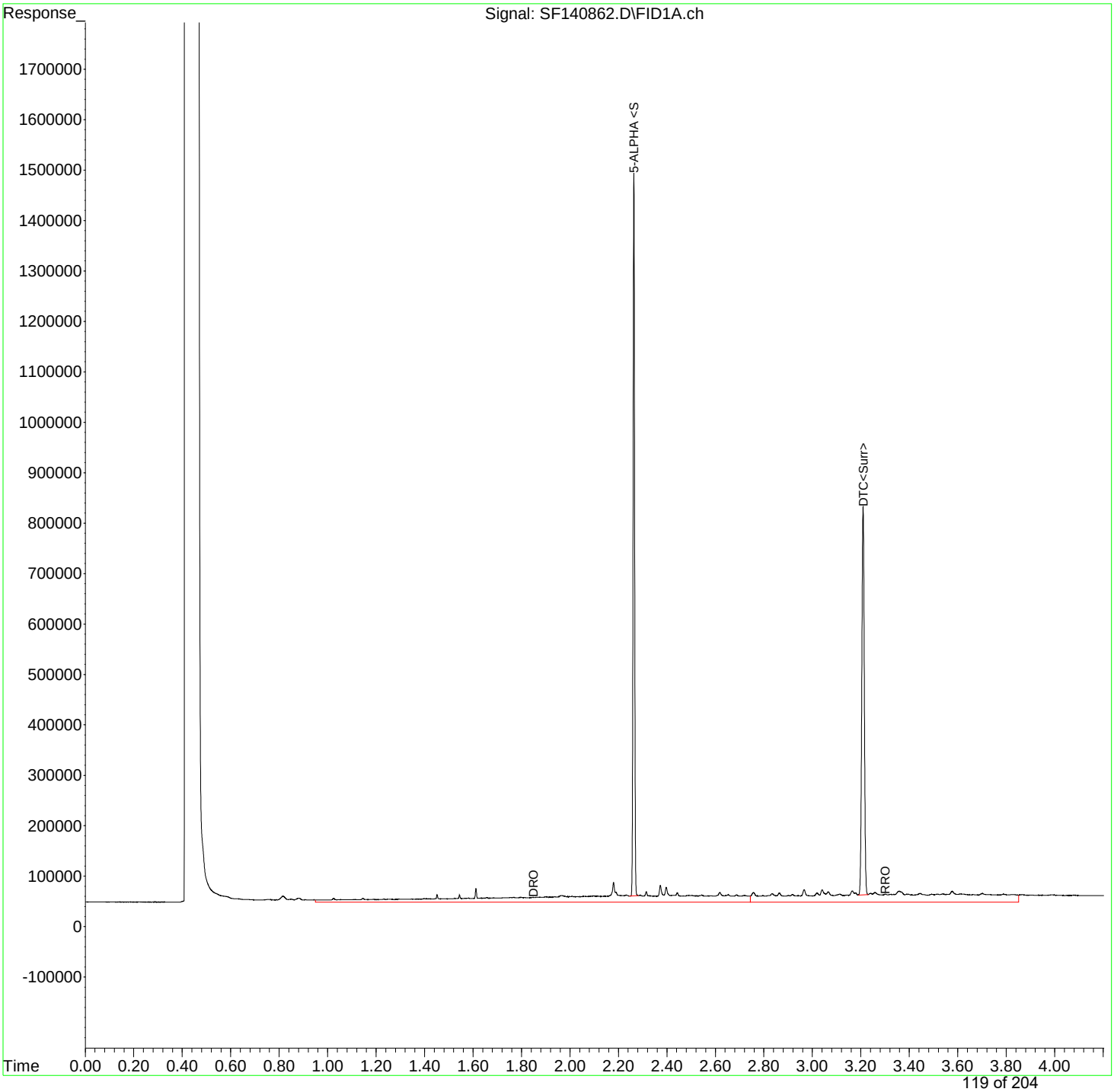
Integration File: autoint1.e
Quant Time: Apr 25 18:03:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140864.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:03
Operator : T.L
Sample : 1241686007
Misc :
ALS Vial : 18 Sample Multiplier: 1

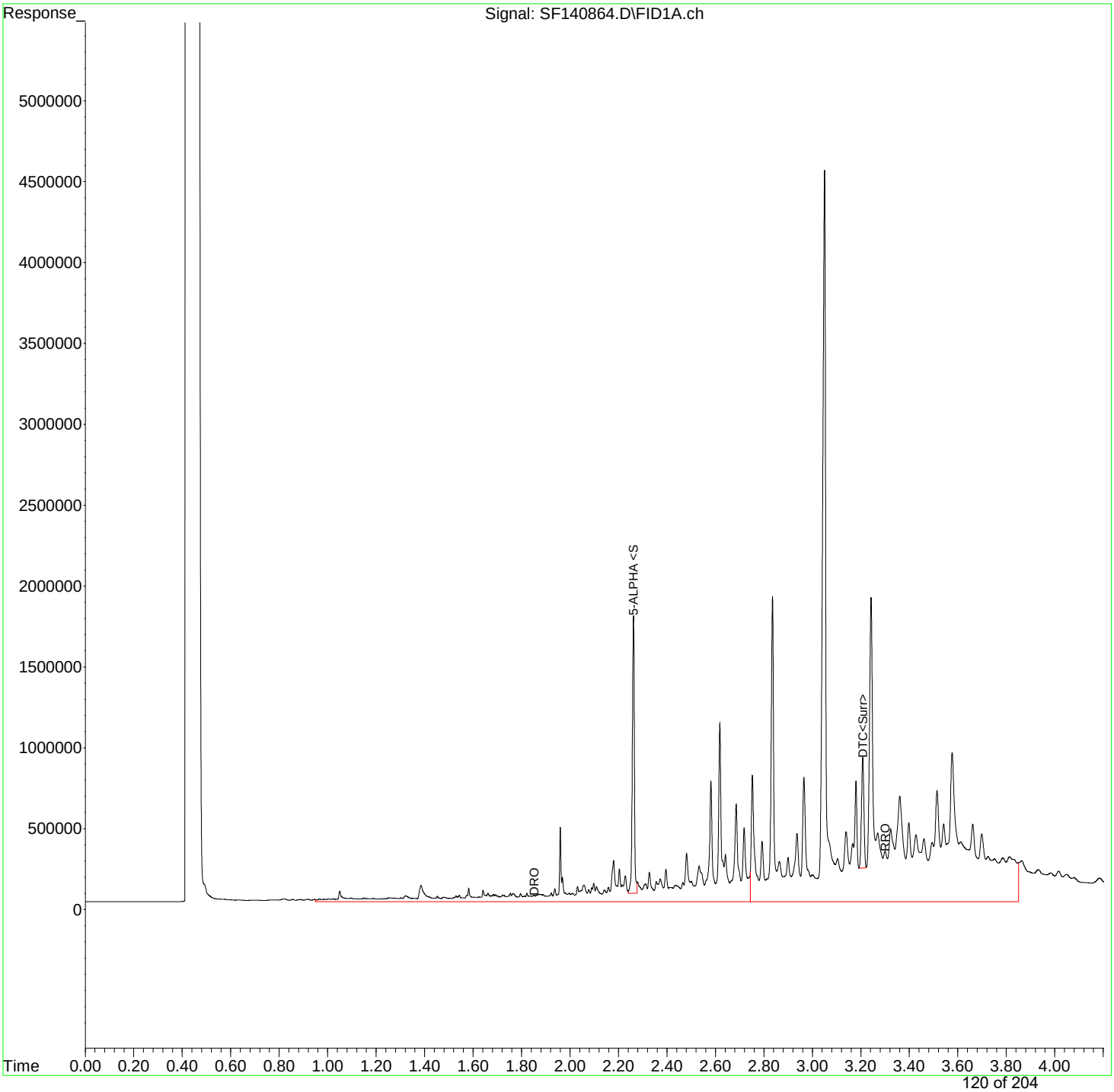
Integration File: autoint1.e
Quant Time: Apr 25 18:11:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

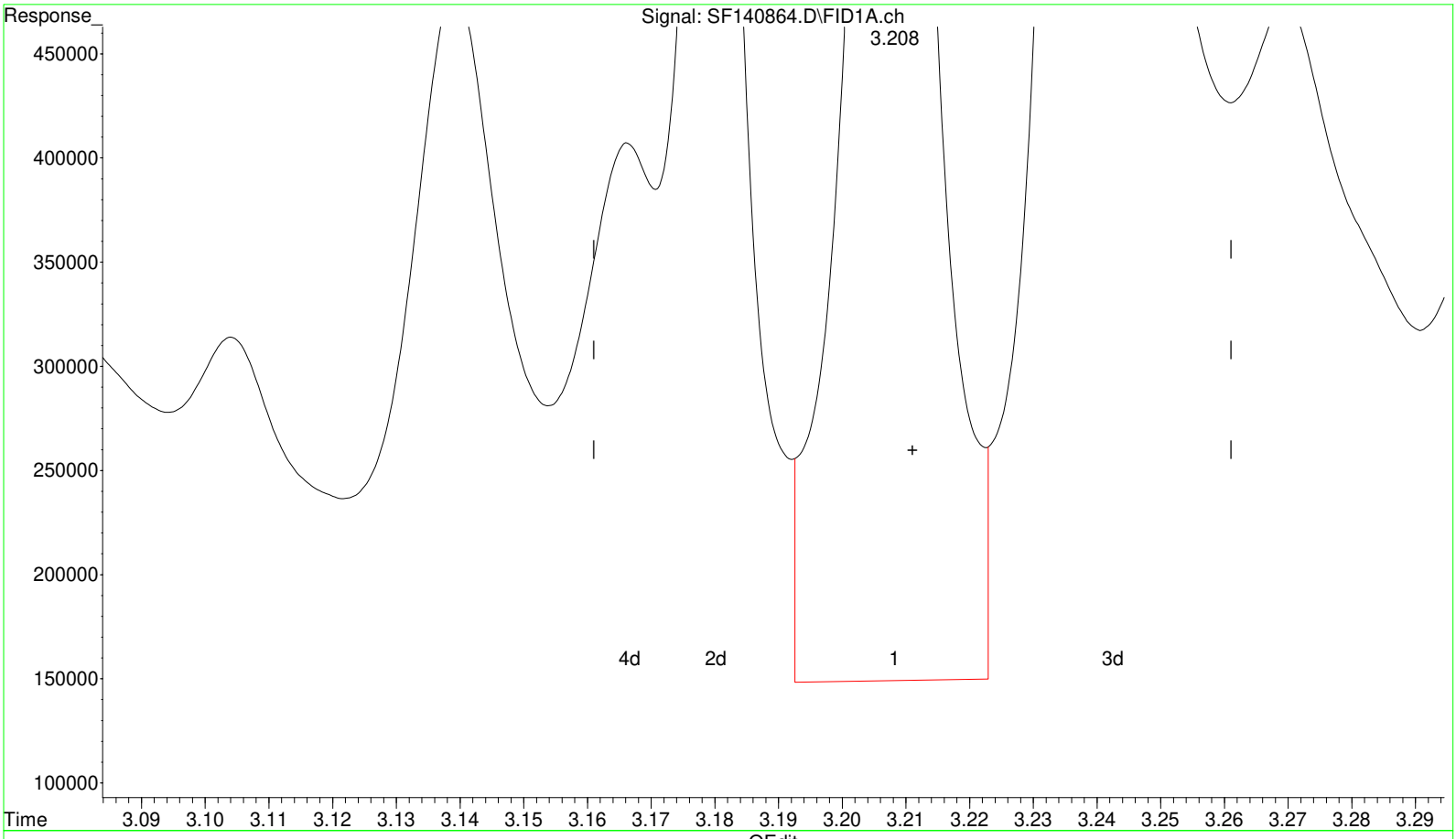


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140864.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:03
Operator : T.L
Sample : 1241686007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 18:10:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 123.220 µg/mL

response 6772857

O-BLC

Apr 25, 2024

Tashi Lhamu

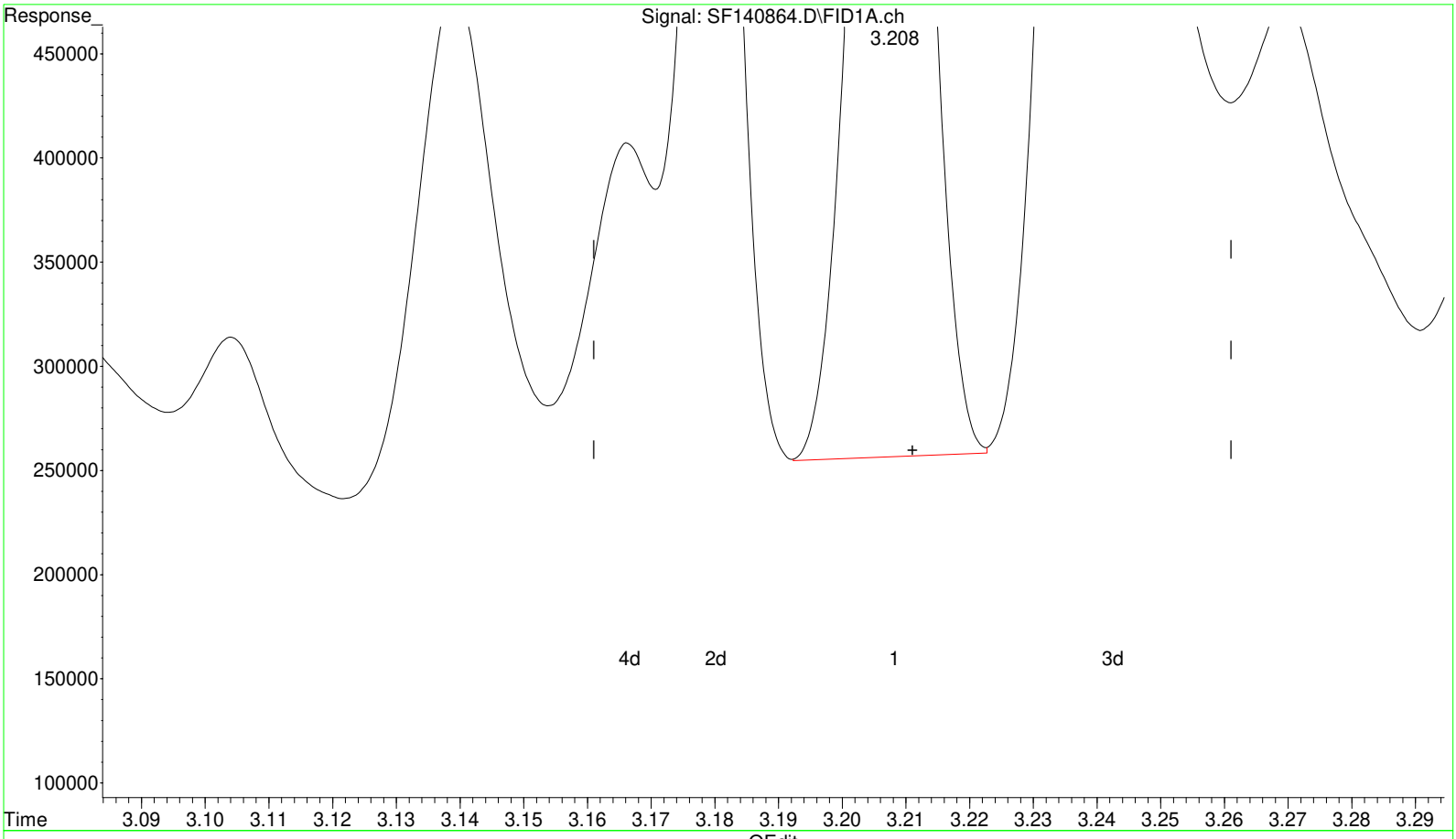
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140864.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:03
Operator : T.L
Sample : 1241686007
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 18:10:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 87.632 µg/mL m

response 4816740

M-BLC
Apr 25, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140866.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:12
Operator : T.L
Sample : 1241686008
Misc :
ALS Vial : 19 Sample Multiplier: 1

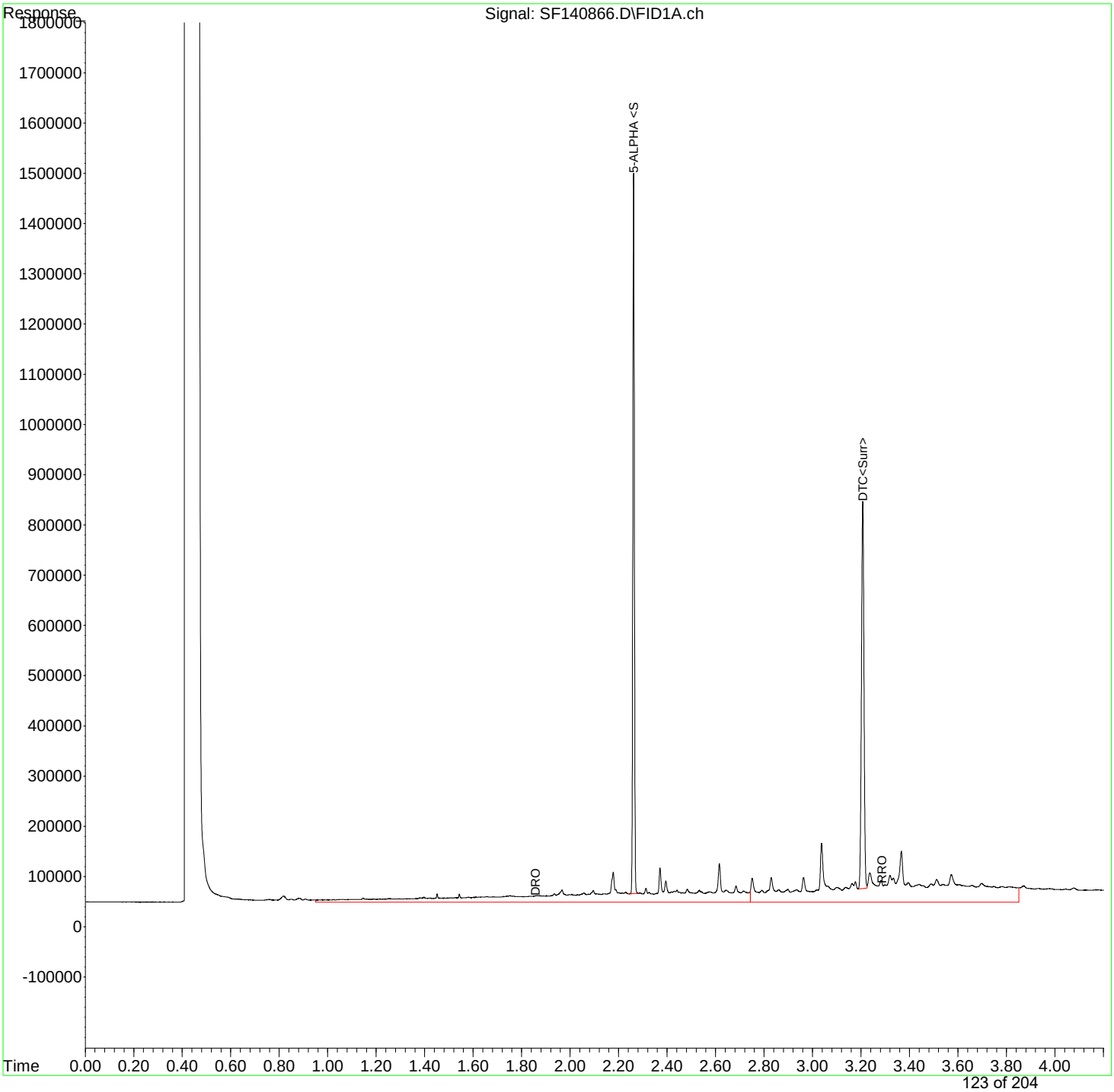
Integration File: autoint1.e
Quant Time: Apr 25 18:19:55 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140868.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:23
Operator : T.L
Sample : 1241686009
Misc :
ALS Vial : 20 Sample Multiplier: 1

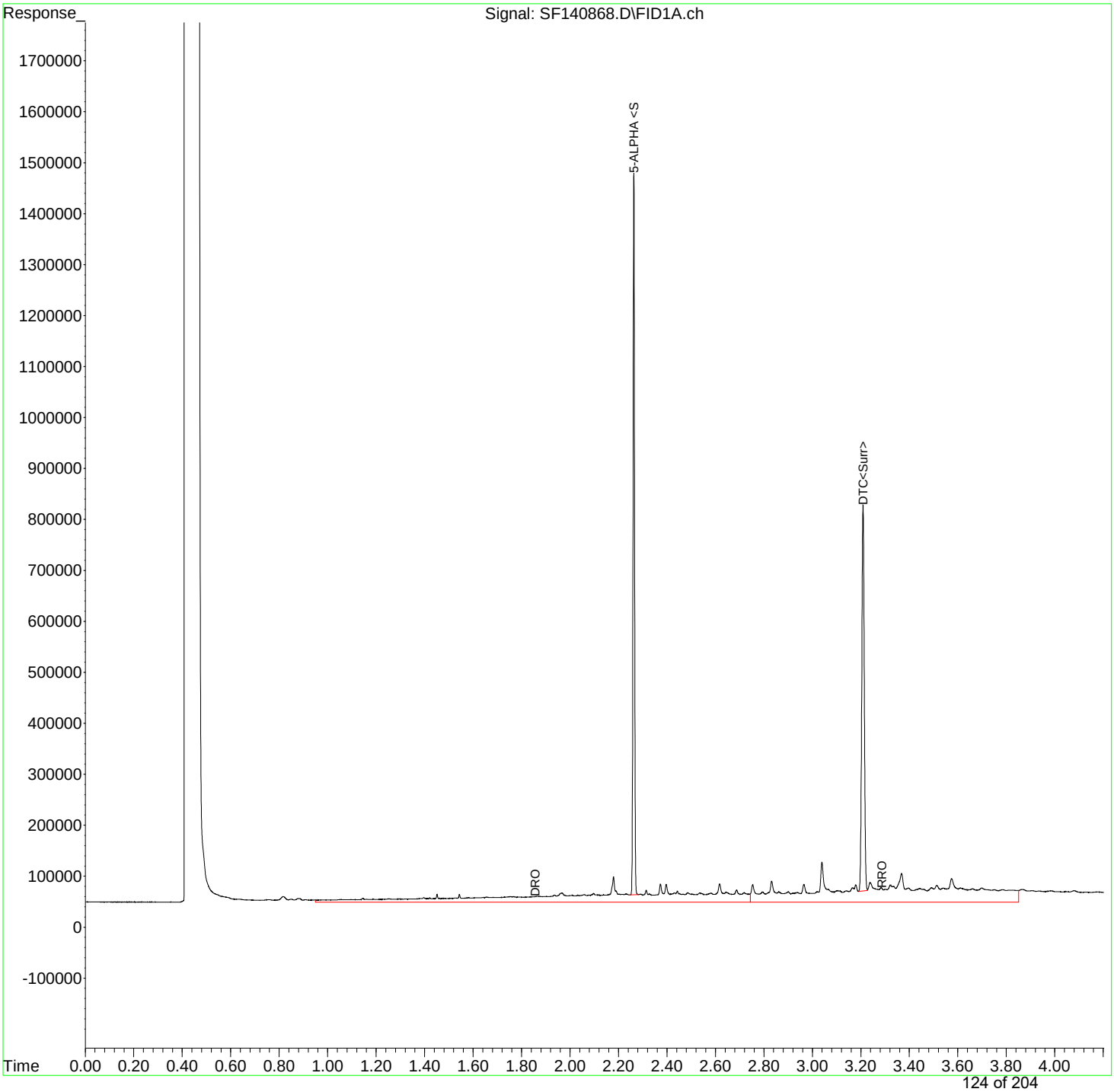
Integration File: autoint1.e
Quant Time: Apr 25 18:42:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140870.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:33
Operator : T.L
Sample : 1241686010
Misc :
ALS Vial : 21 Sample Multiplier: 1

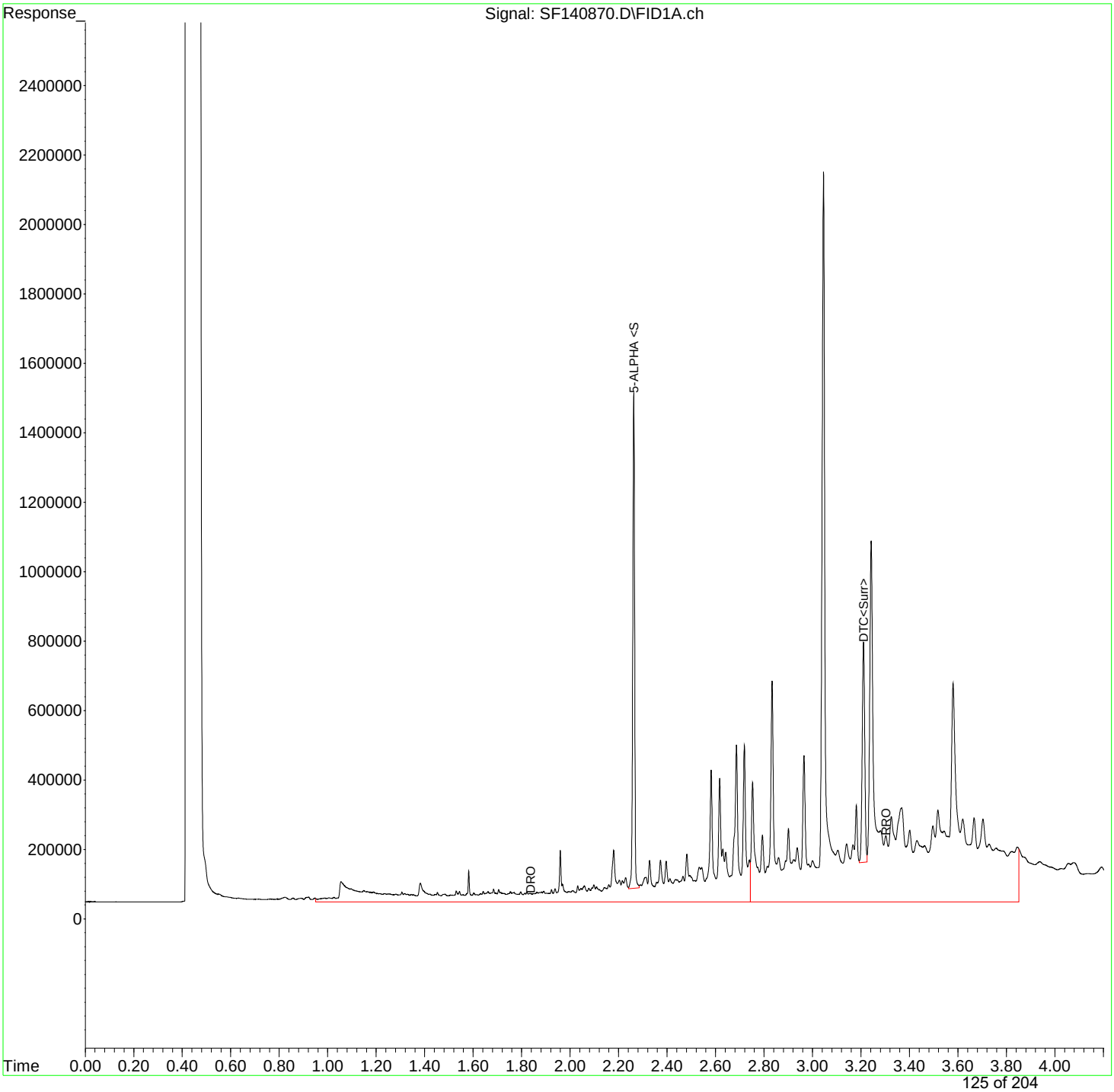
Integration File: autoint1.e
Quant Time: Apr 25 18:42:45 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140872.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:43
Operator : T.L
Sample : 1241686011
Misc :
ALS Vial : 22 Sample Multiplier: 1

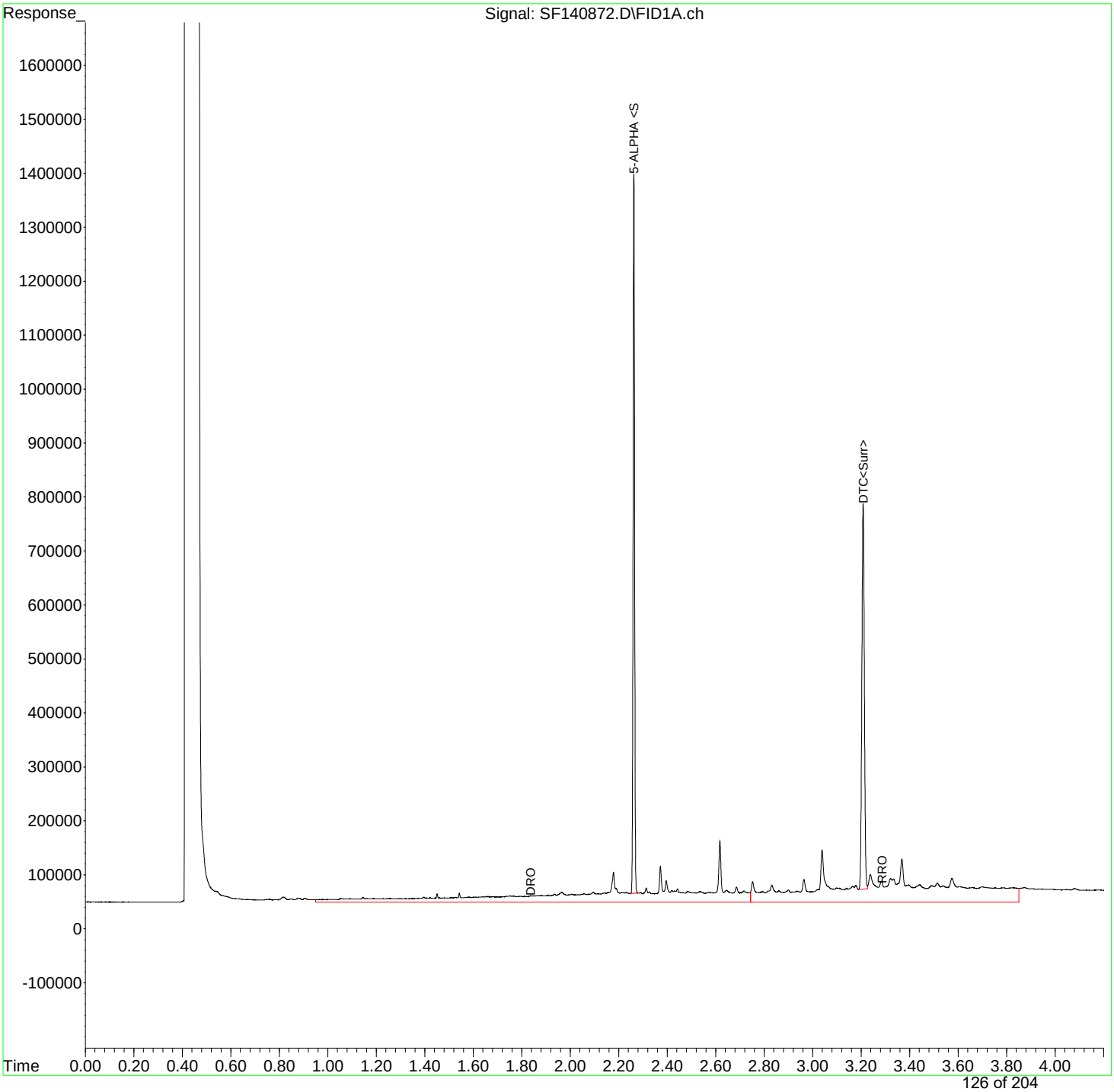
Integration File: autoint1.e
Quant Time: Apr 25 18:49:52 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140874.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 18:53
Operator : T.L
Sample : 1241686012
Misc :
ALS Vial : 23 Sample Multiplier: 1

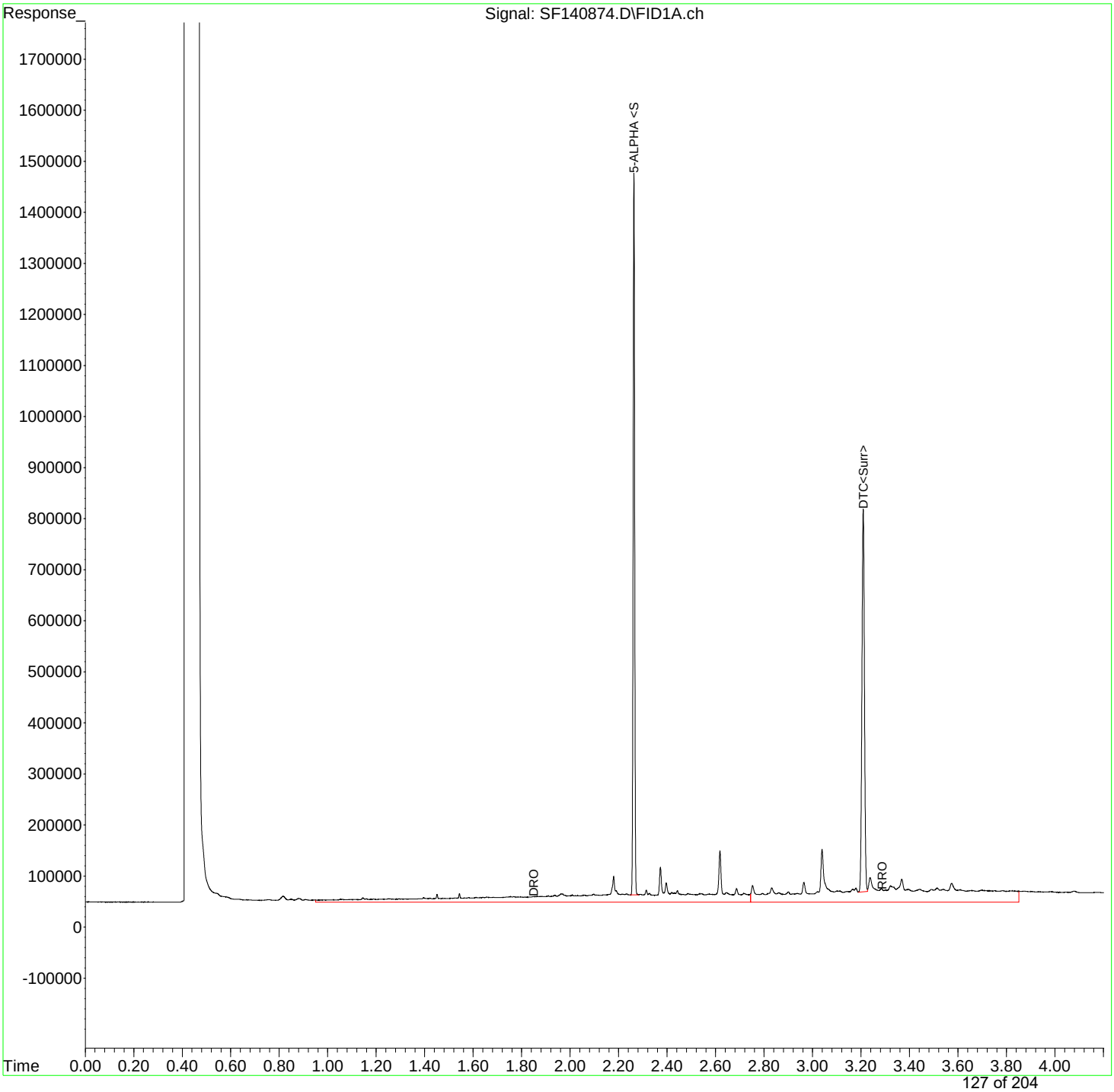
Integration File: autoint1.e
Quant Time: Apr 25 19:01:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Thamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140876.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:03
Operator : T.L
Sample : 1241686013
Misc :
ALS Vial : 24 Sample Multiplier: 1

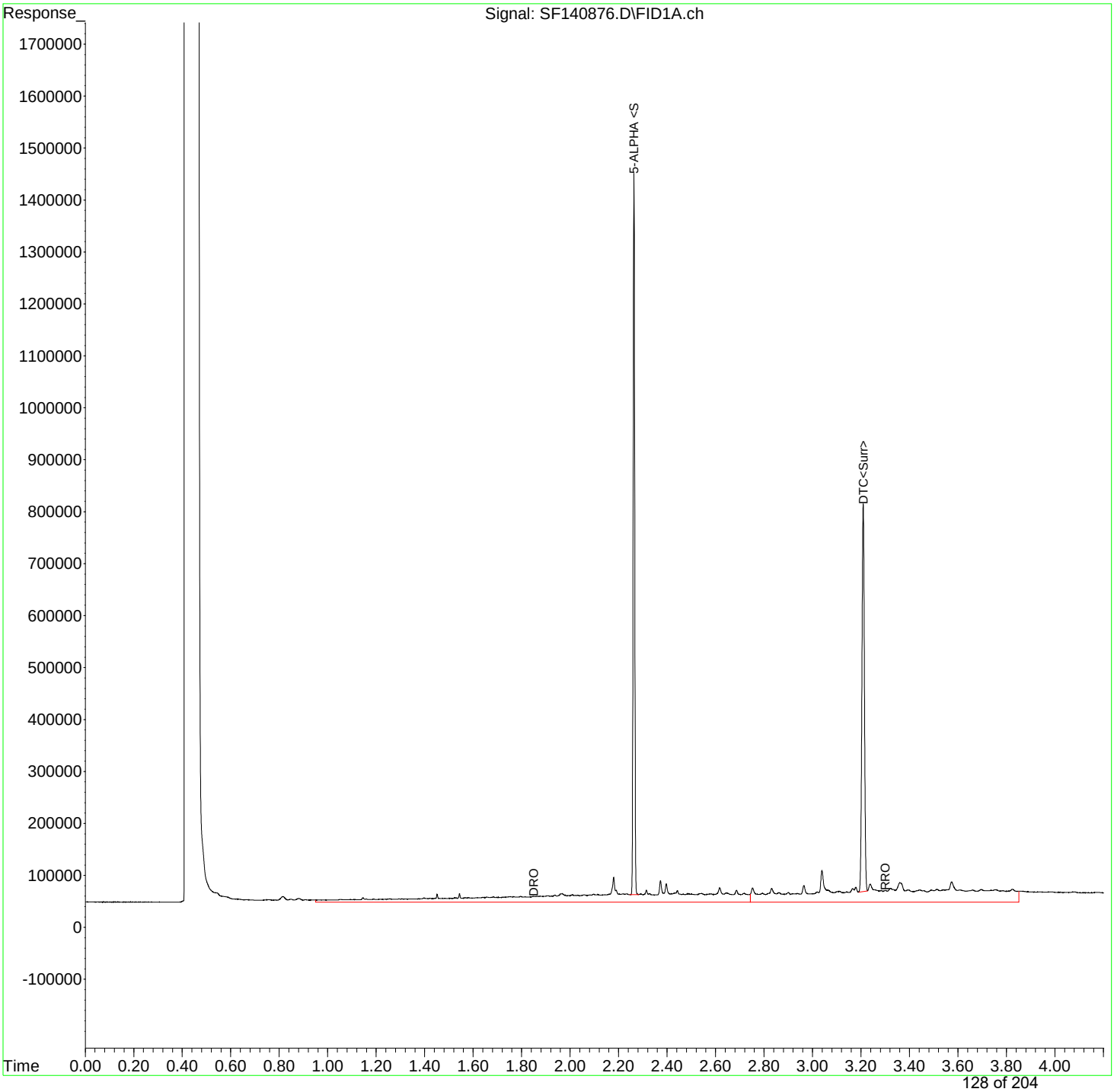
Integration File: autoint1.e
Quant Time: Apr 25 19:10:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140878.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:13
Operator : T.L
Sample : 1241686014
Misc :
ALS Vial : 25 Sample Multiplier: 1

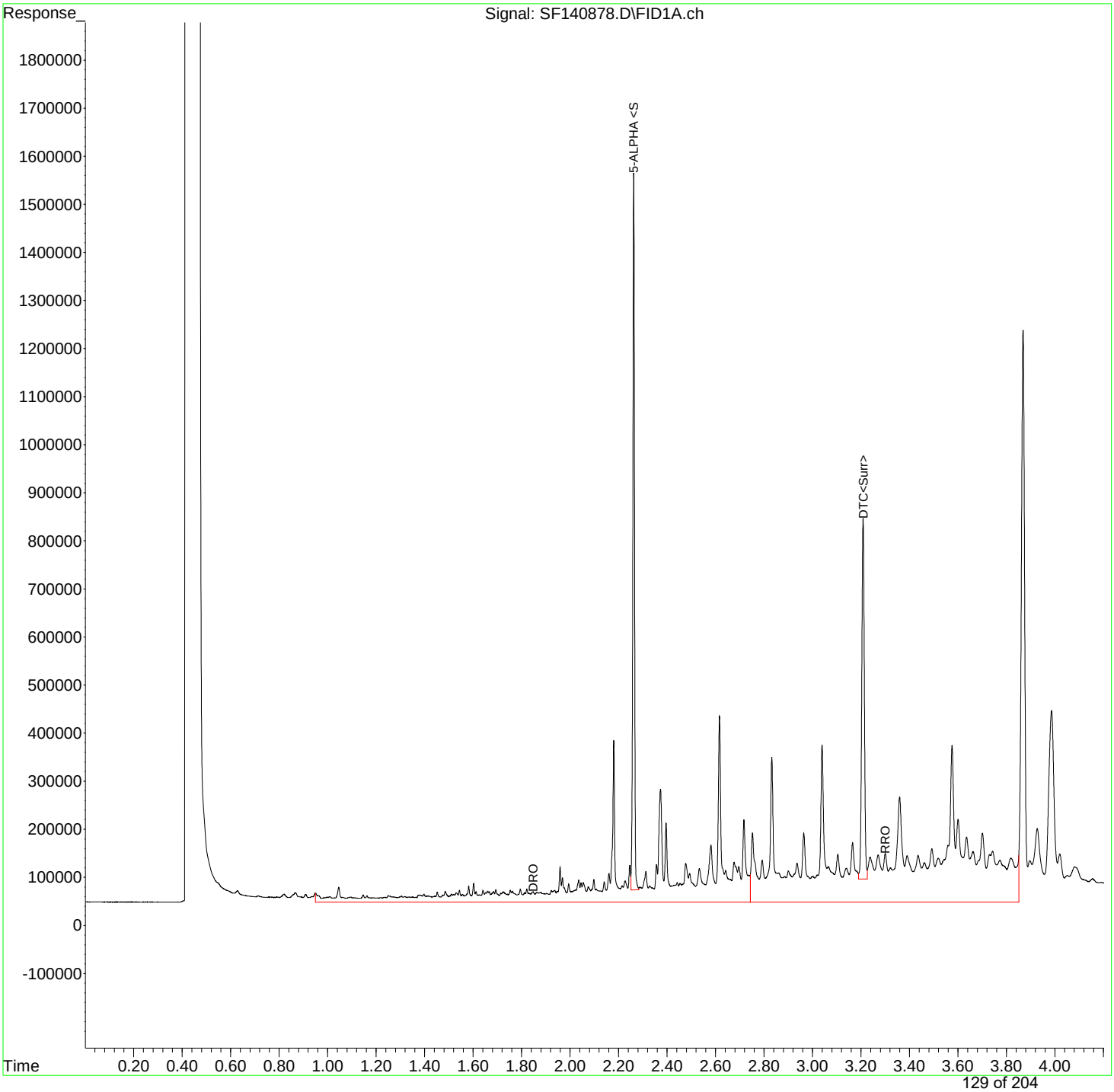
Integration File: autoint1.e
Quant Time: Apr 25 19:20:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140880.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:23
Operator : T.L
Sample : 1241686015
Misc :
ALS Vial : 26 Sample Multiplier: 1

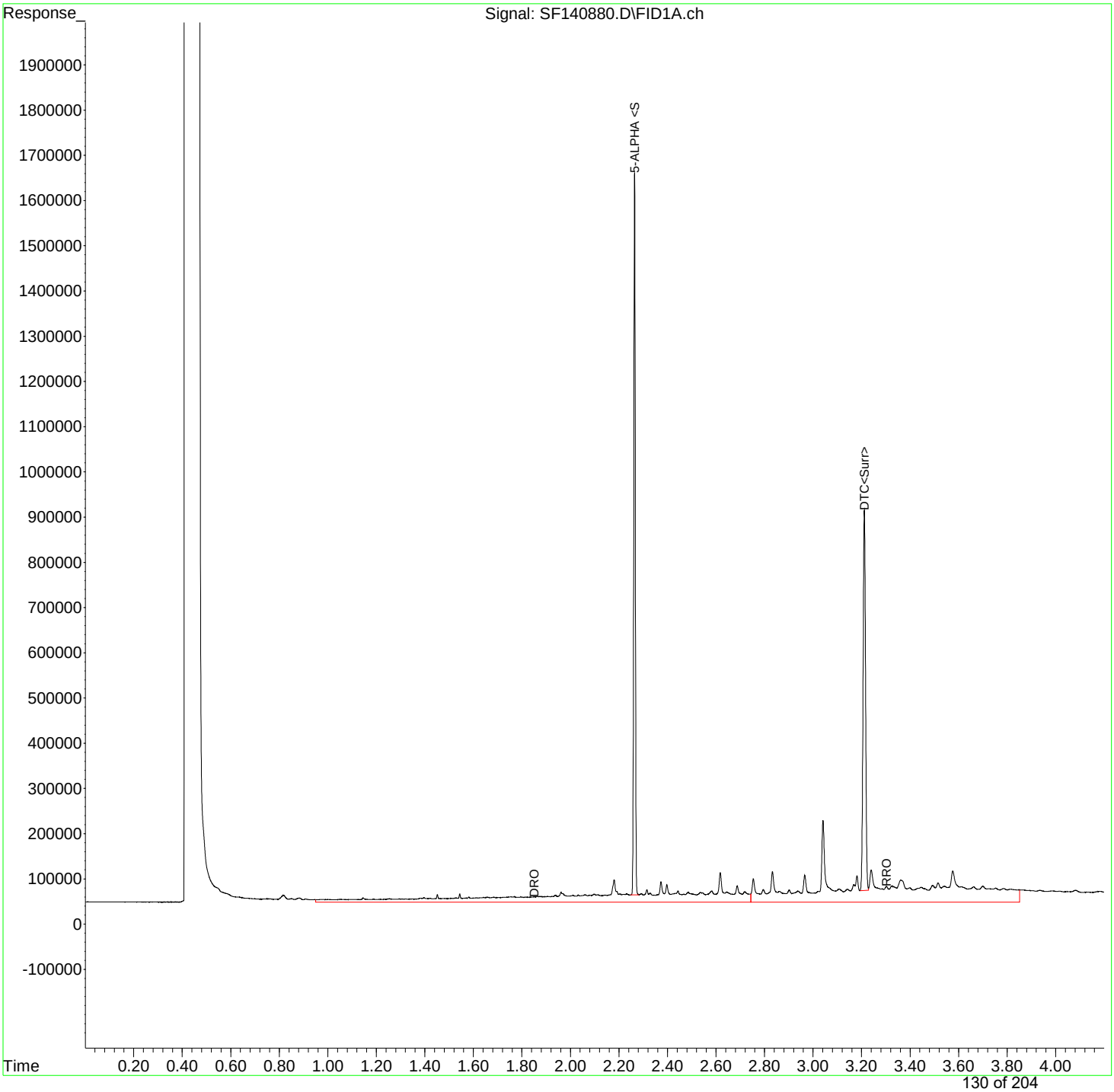
Integration File: autoint1.e
Quant Time: Apr 25 19:44:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140882.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 19:33
Operator : T.L
Sample : 1241686016
Misc :
ALS Vial : 27 Sample Multiplier: 1

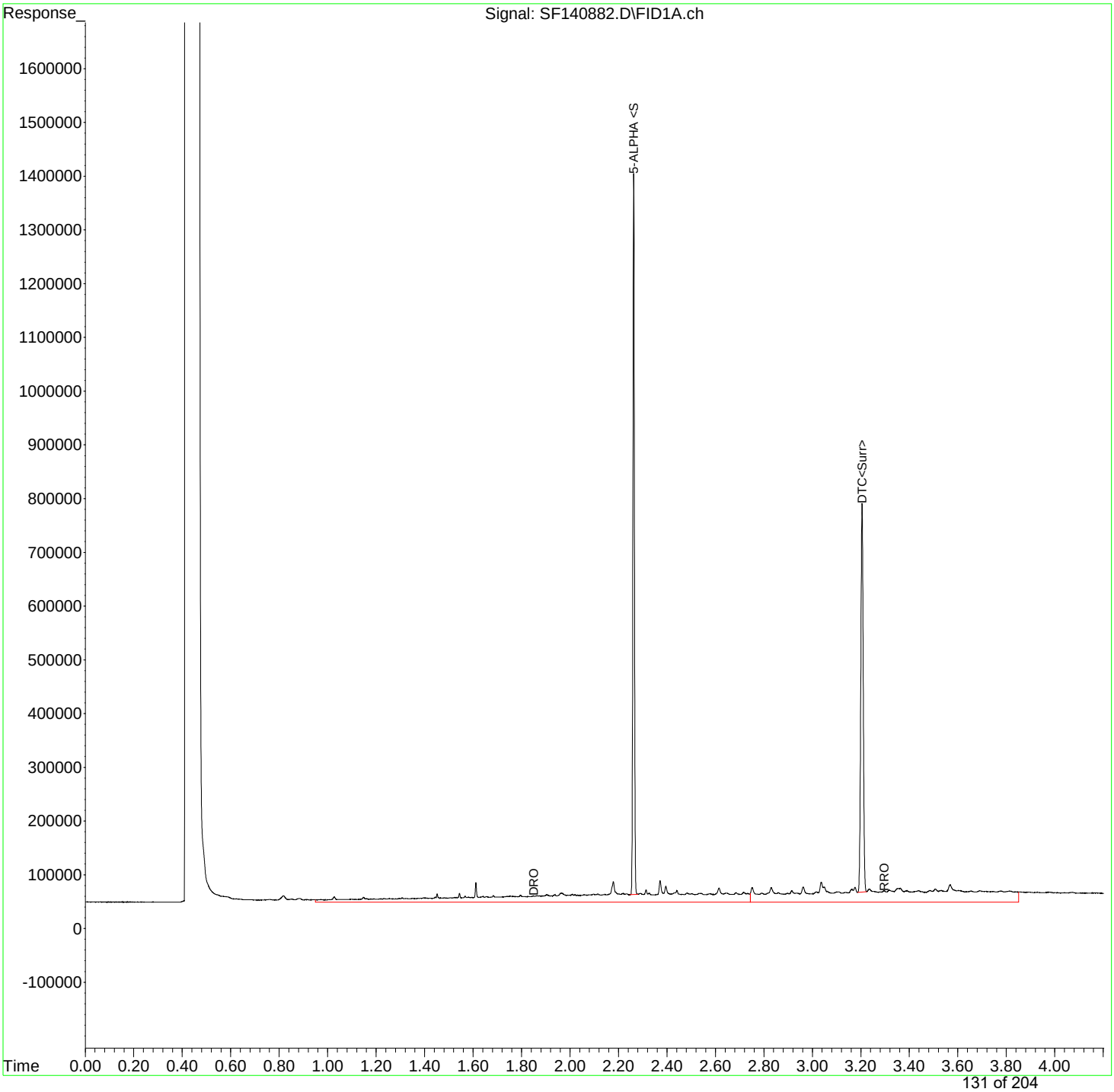
Integration File: autoint1.e
Quant Time: Apr 25 19:44:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140888.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:03
Operator : T.L
Sample : 1241686017
Misc :
ALS Vial : 28 Sample Multiplier: 1

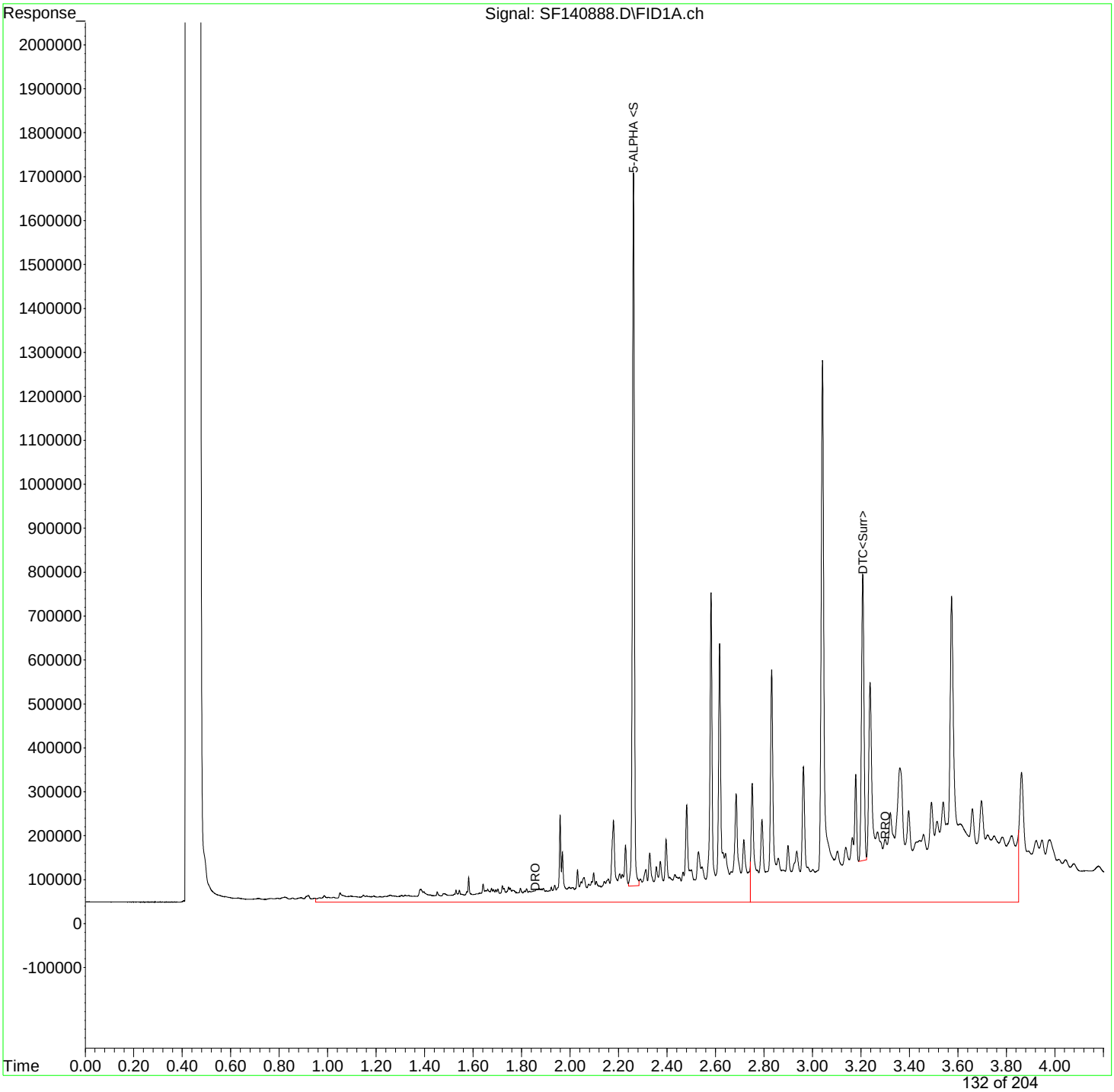
Integration File: autoint1.e
Quant Time: Apr 26 08:30:13 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

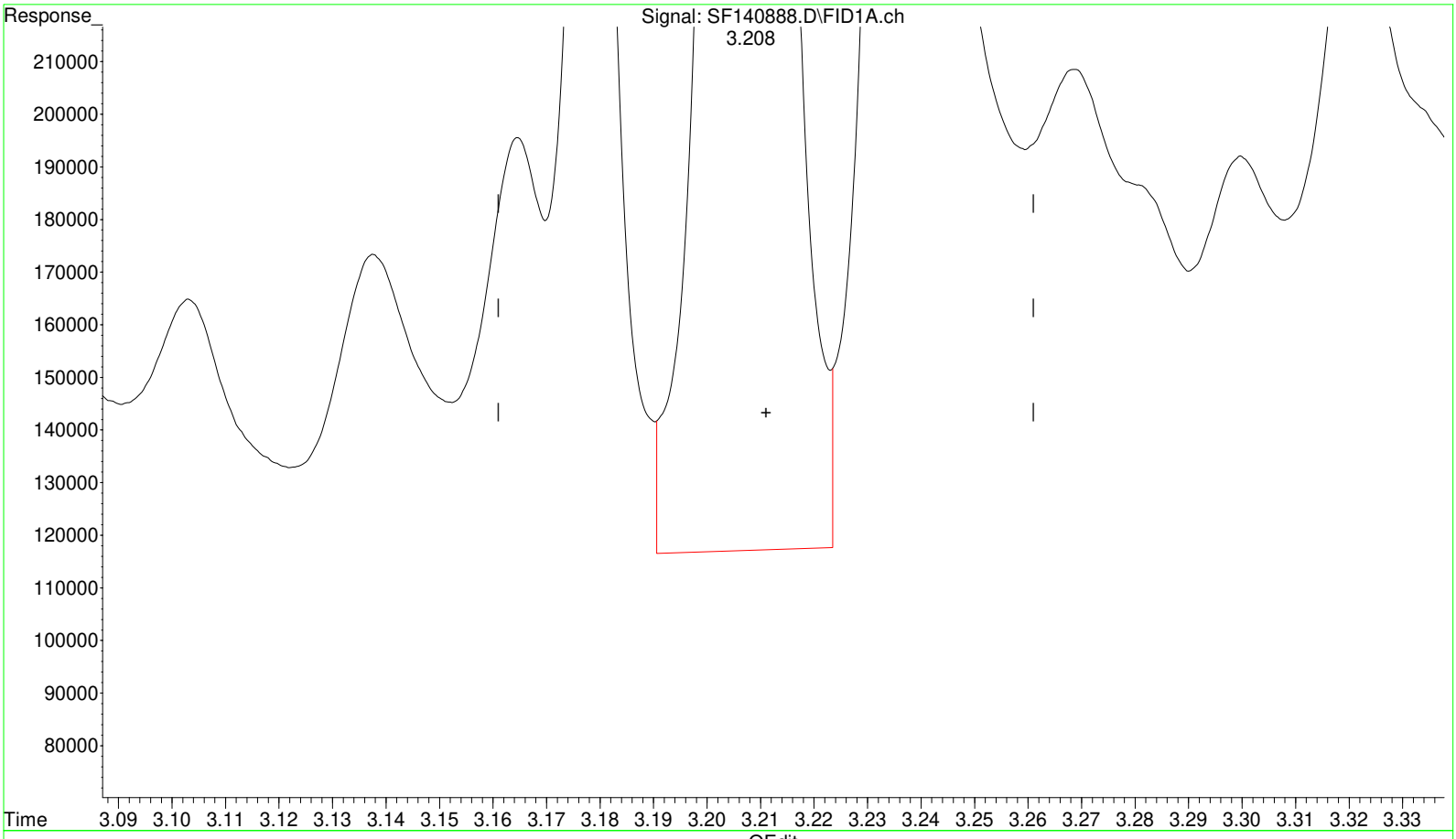


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140888.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:03
Operator : T.L
Sample : 1241686017
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:29:49 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 94.533 µg/mL

response 5196028

O-BLC

Apr 26, 2024

Tashi Lhamu

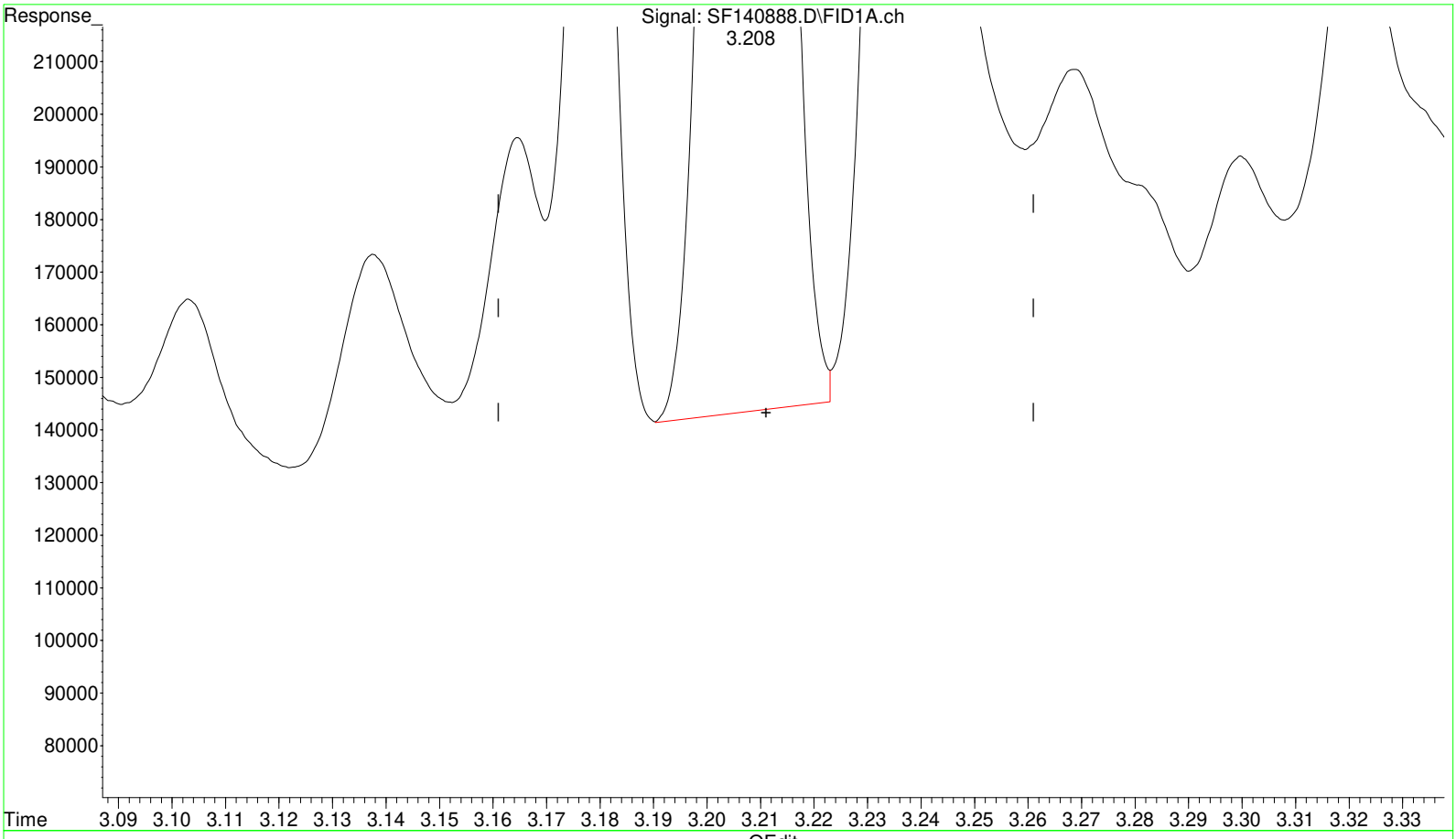
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140888.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:03
Operator : T.L
Sample : 1241686017
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:29:49 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 85.079 µg/mL m

response 4676381

M-BLC
Apr 26, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140890.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:13
Operator : T.L
Sample : 1241686018
Misc :
ALS Vial : 29 Sample Multiplier: 1

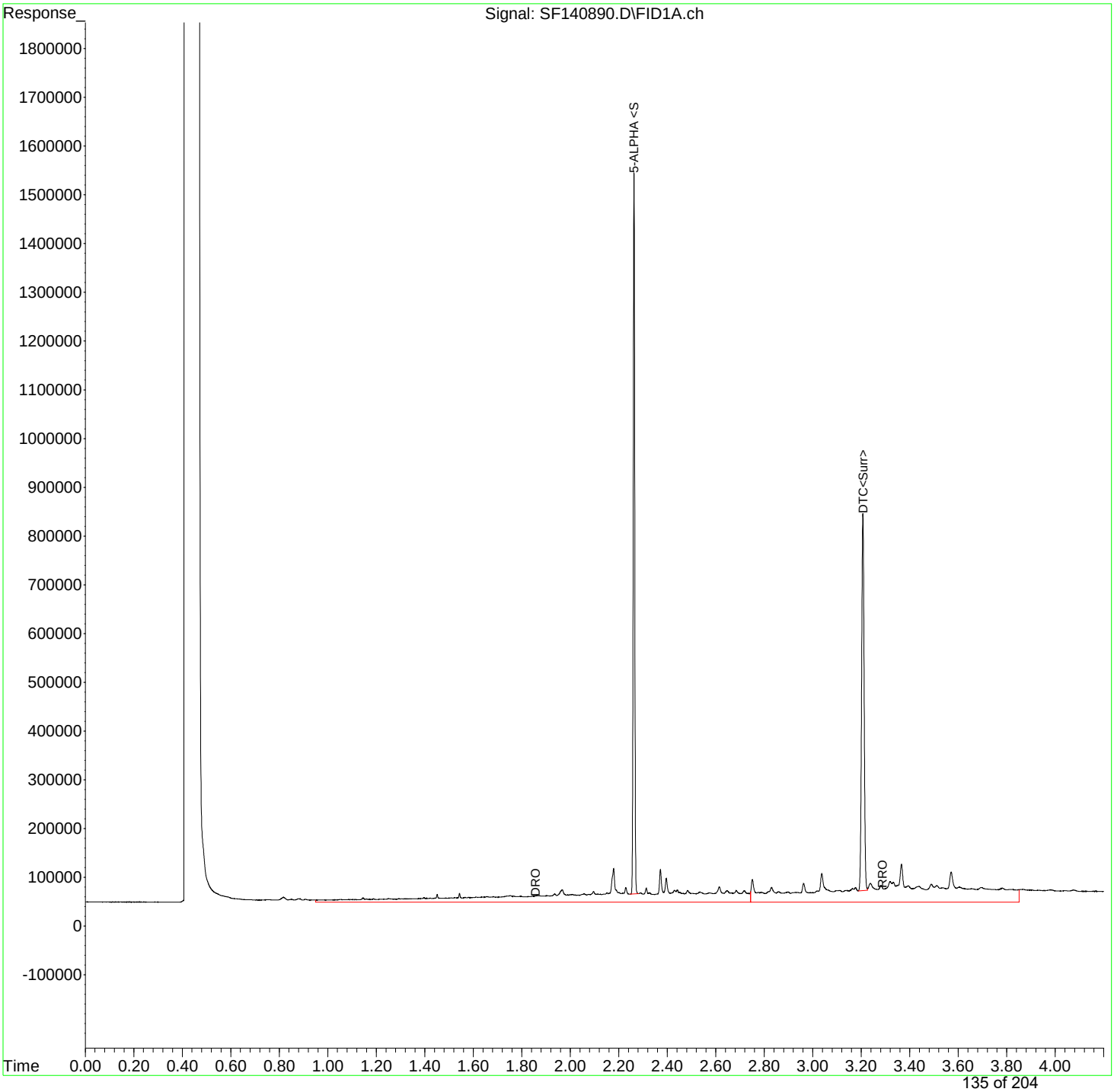
Integration File: autoint1.e
Quant Time: Apr 26 08:30:51 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140892.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:22
Operator : T.L
Sample : 1241686019
Misc :
ALS Vial : 30 Sample Multiplier: 1

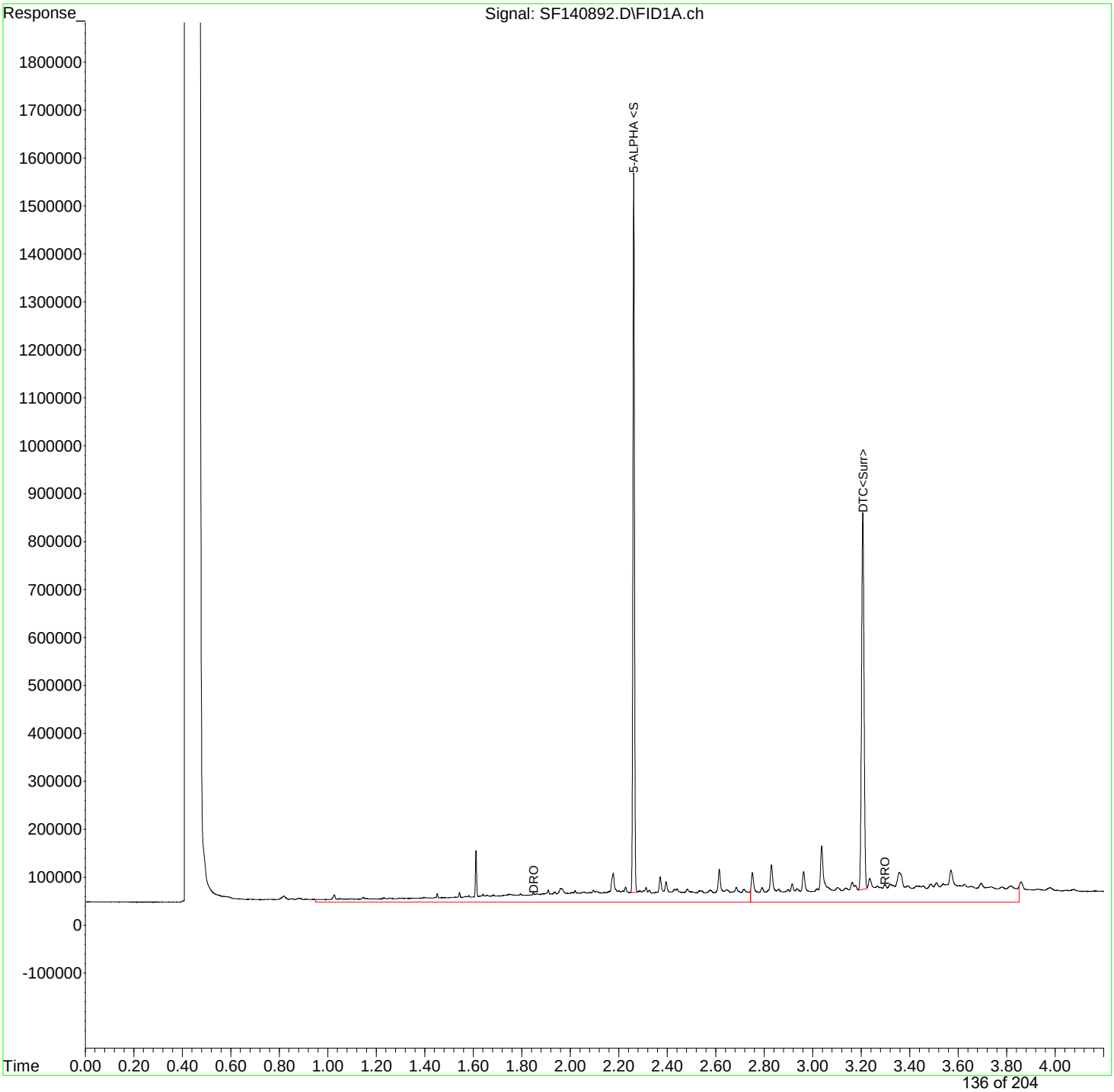
Integration File: autoint1.e
Quant Time: Apr 26 08:31:38 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140894.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:33
Operator : T.L
Sample : 1241686020
Misc :
ALS Vial : 31 Sample Multiplier: 1

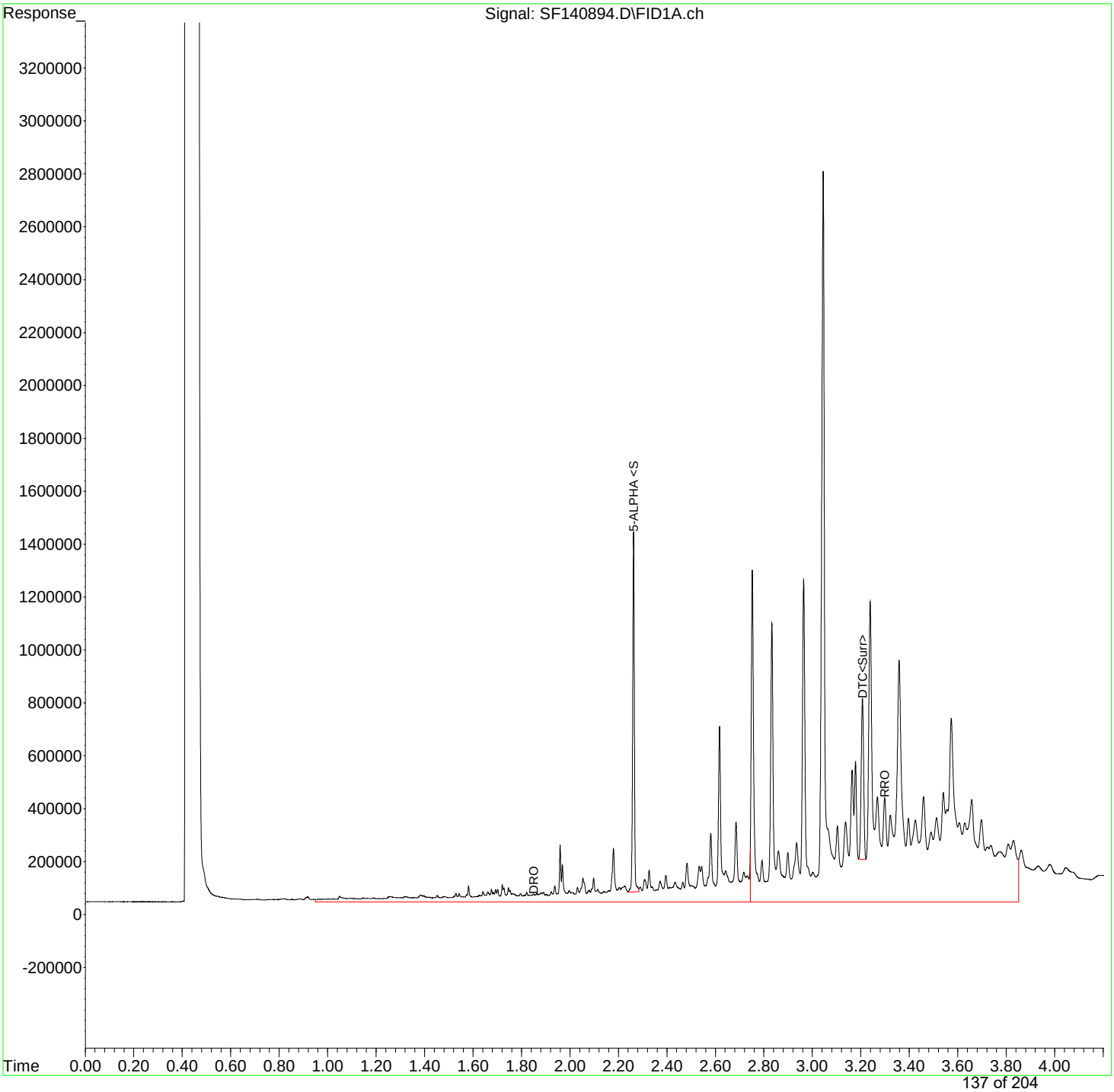
Integration File: autoint1.e
Quant Time: Apr 26 08:32:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

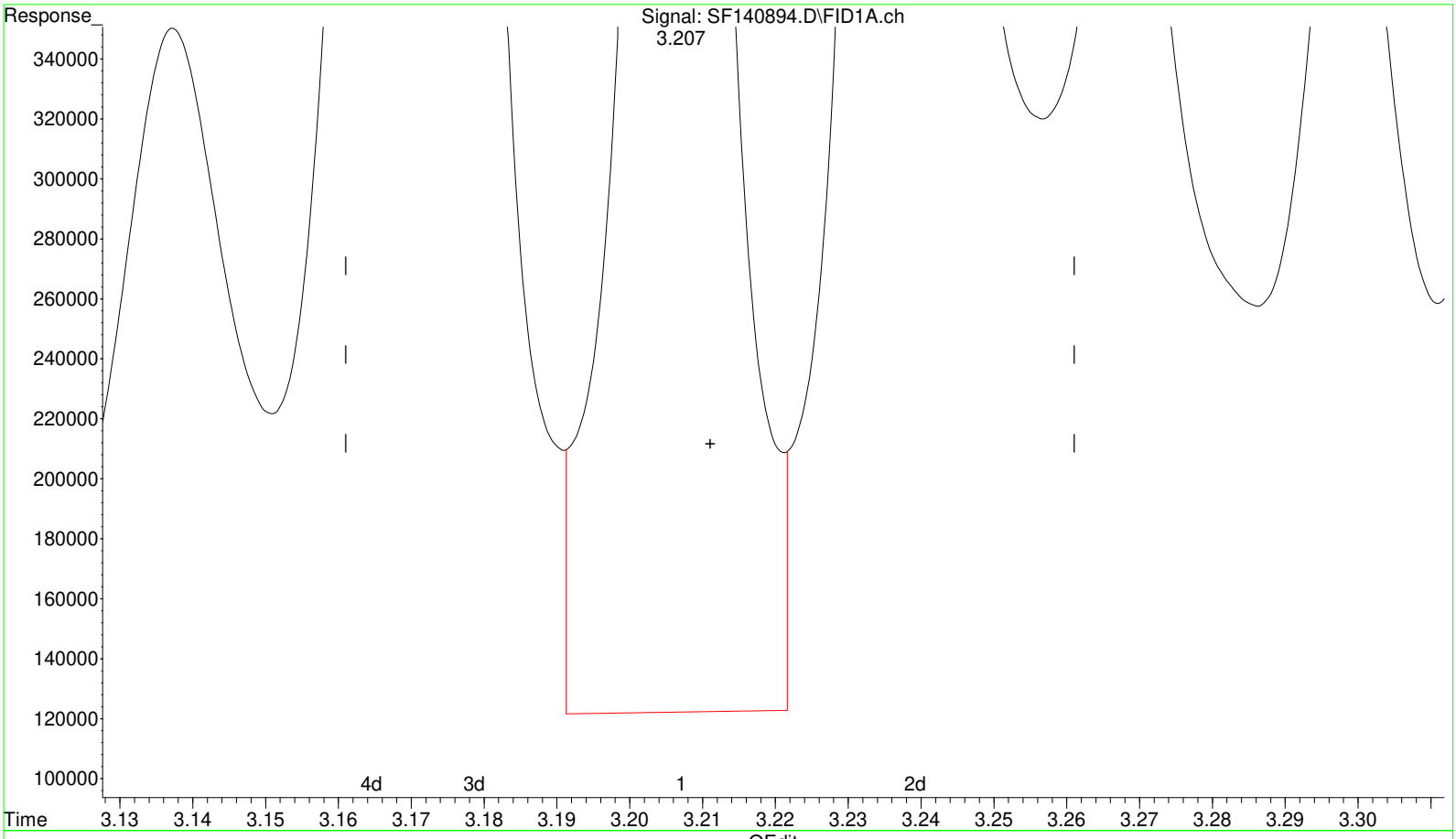


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140894.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:33
Operator : T.L
Sample : 1241686020
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:31:49 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.207min 107.049 µg/mL

response 5884020

O-BLC

Apr 26, 2024

Zashid Khamu

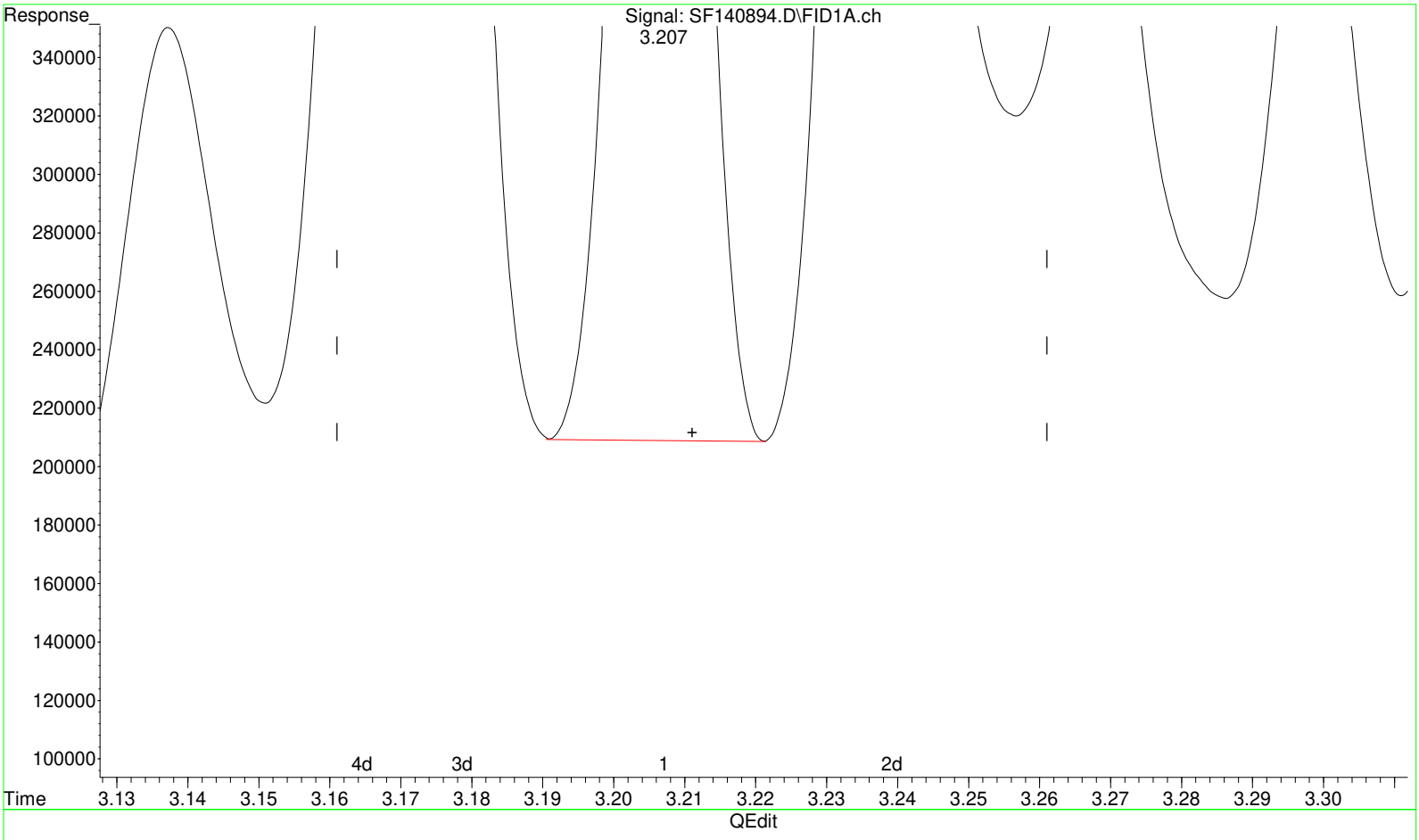
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140894.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 20:33
Operator : T.L
Sample : 1241686020
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:31:49 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.207min 78.337 µg/mL m

response 4305852

M-BLC
Apr 26, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140853.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 17:12
Operator : T.L
Sample : 1241686021
Misc :
ALS Vial : 74 Sample Multiplier: 1

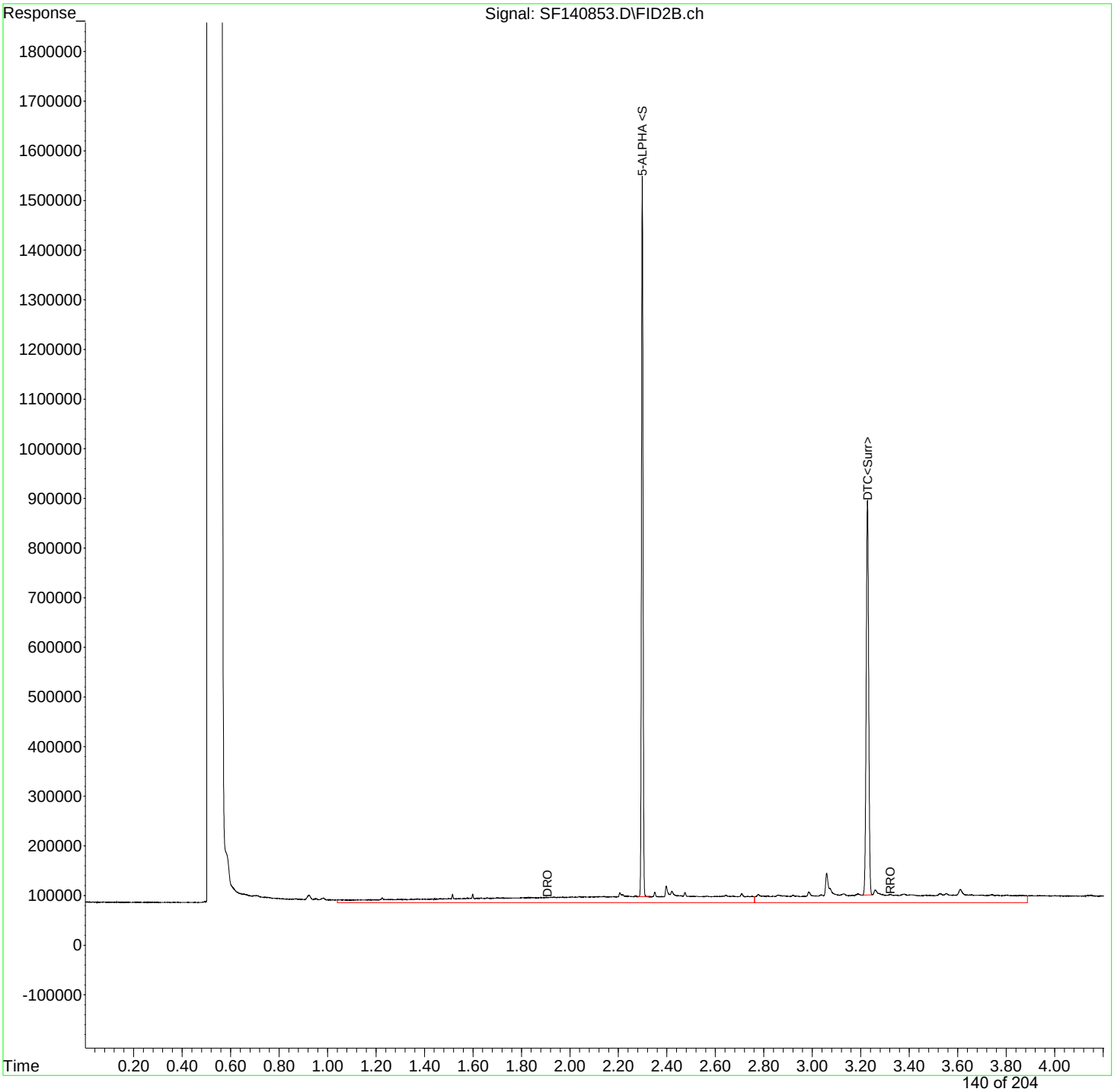
Integration File: autoint1.e
Quant Time: Apr 25 17:21:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140855.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 17:23
Operator : T.L
Sample : 1241686022
Misc :
ALS Vial : 75 Sample Multiplier: 1

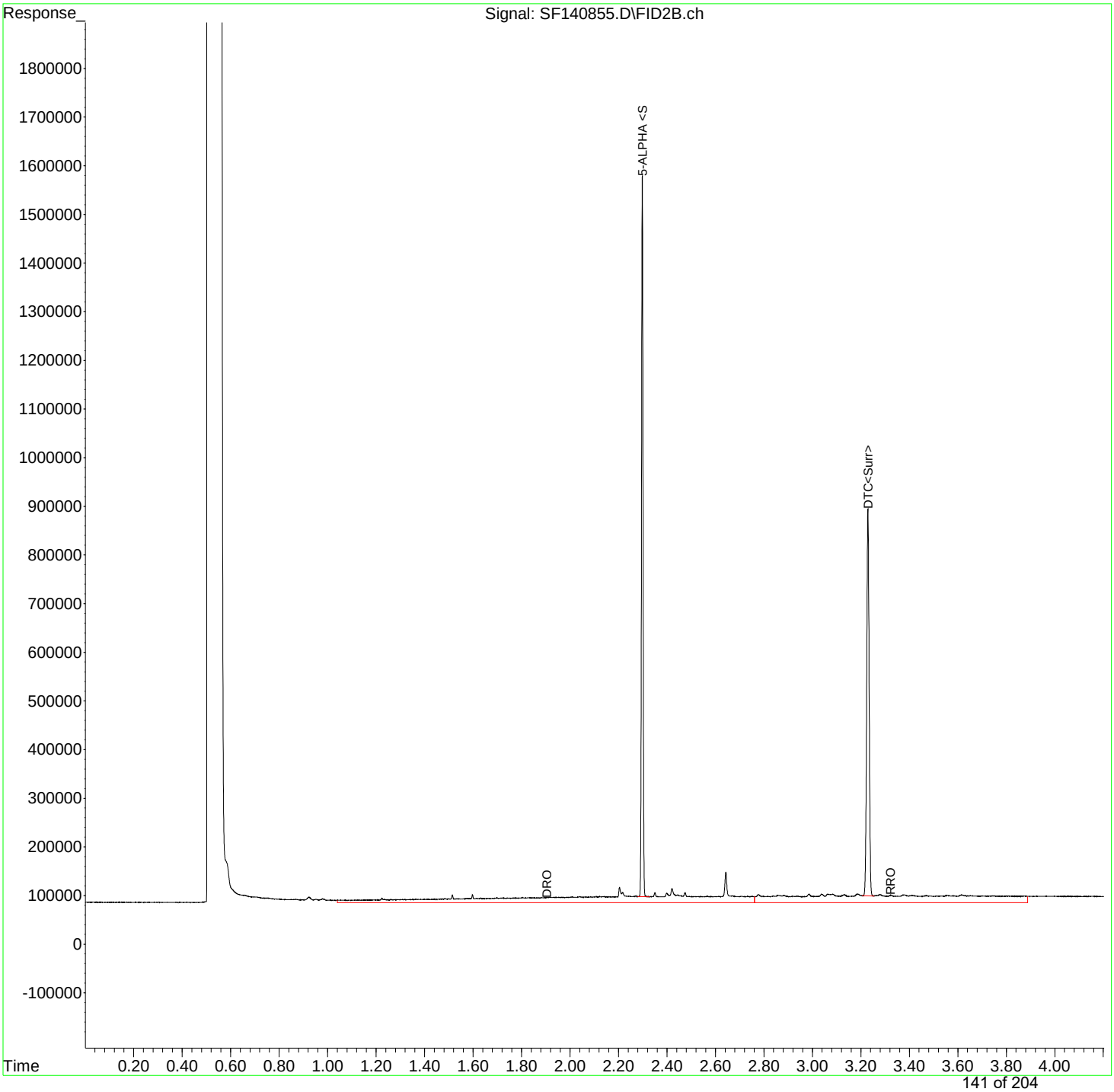
Integration File: autoint1.e
Quant Time: Apr 25 17:30:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140861.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 17:53
Operator : T.L
Sample : 1241686025
Misc :
ALS Vial : 78 Sample Multiplier: 1

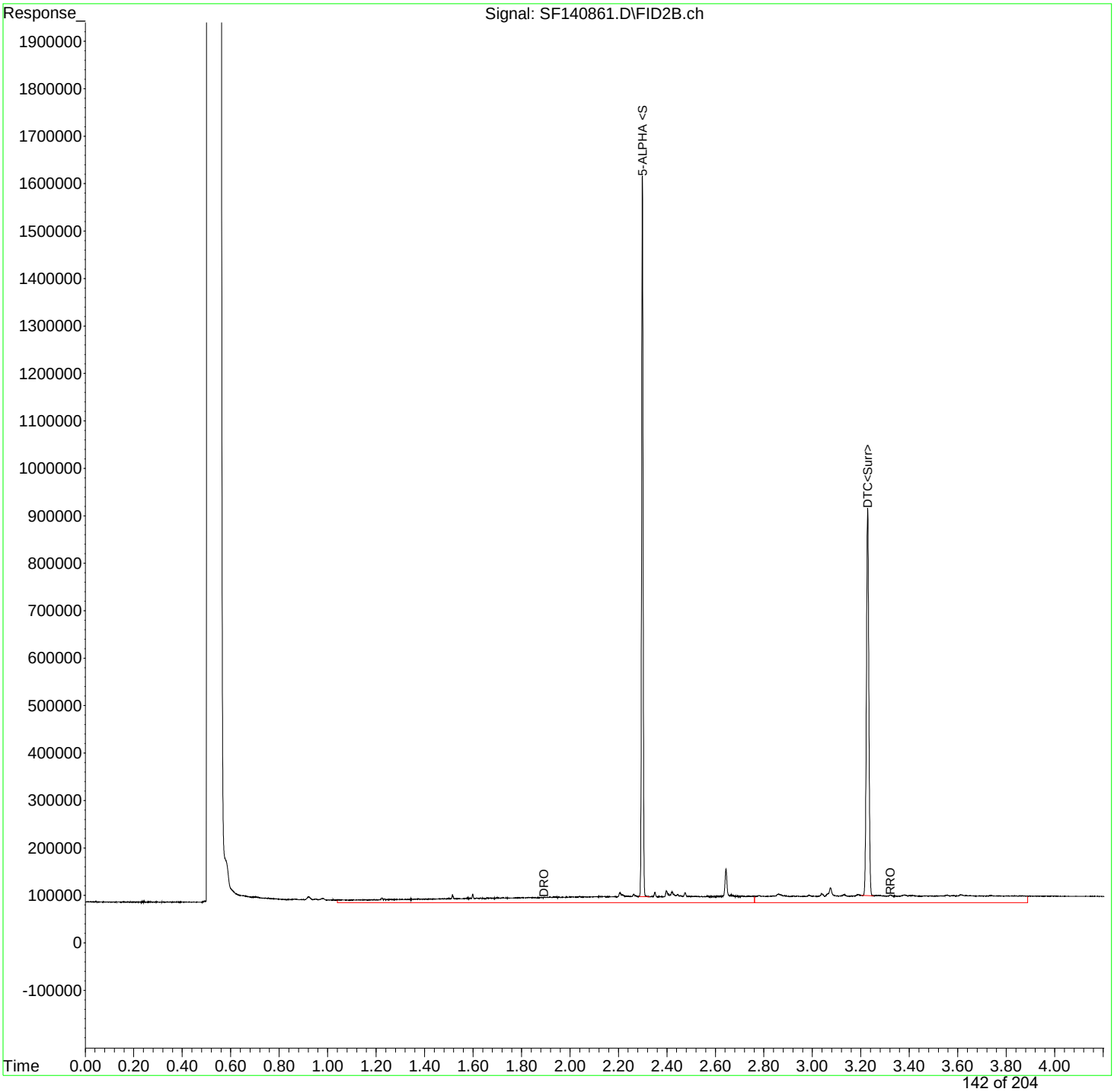
Integration File: autoint1.e
Quant Time: Apr 25 18:04:12 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Ihamu



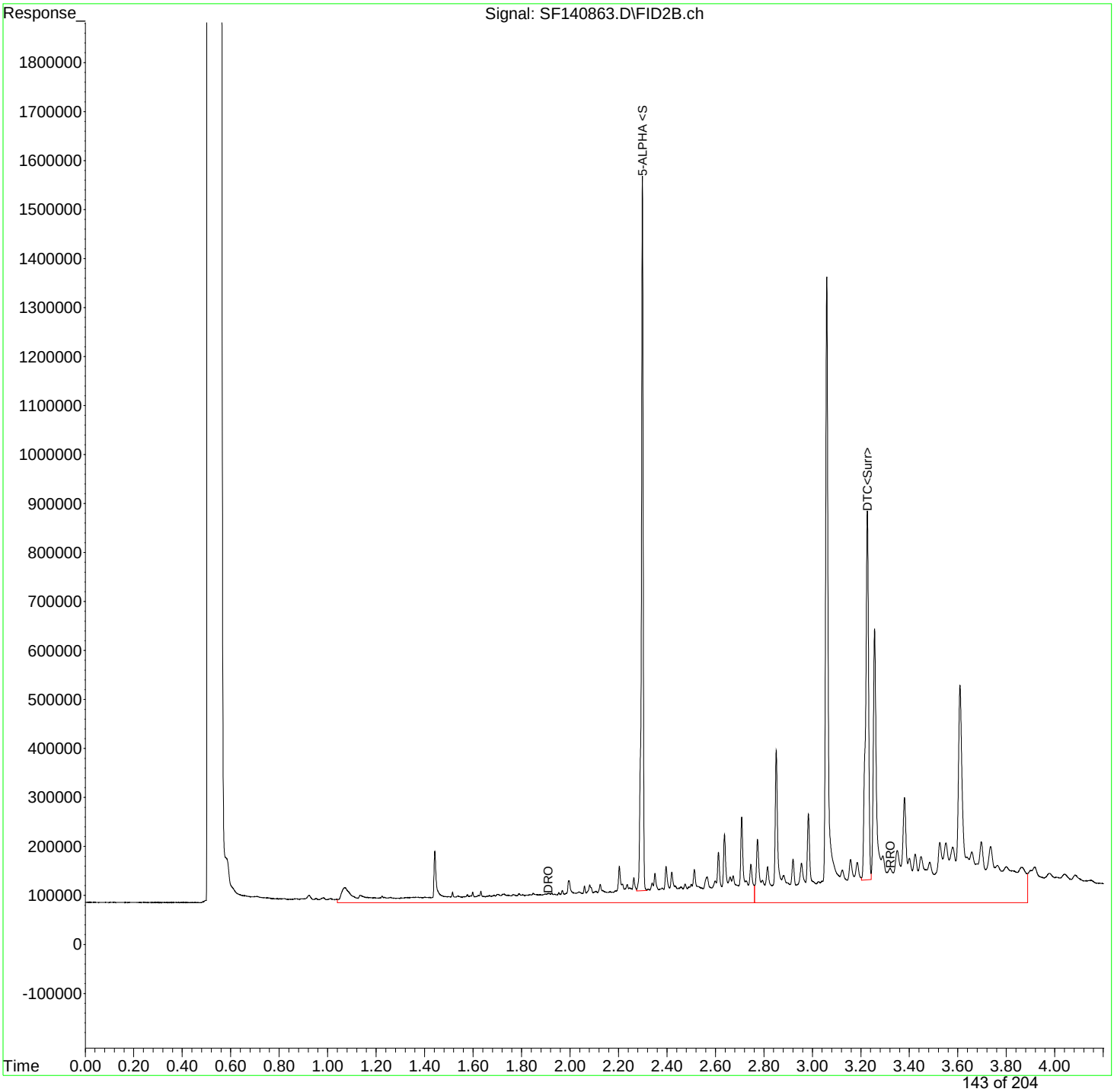
Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140863.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:03
Operator : T.L
Sample : 1241686026
Misc :
ALS Vial : 79 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 25 18:11:45 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown. Apr 25, 2024

Tashid Hamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140865.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:12
Operator : T.L
Sample : 1241686027
Misc :
ALS Vial : 80 Sample Multiplier: 1

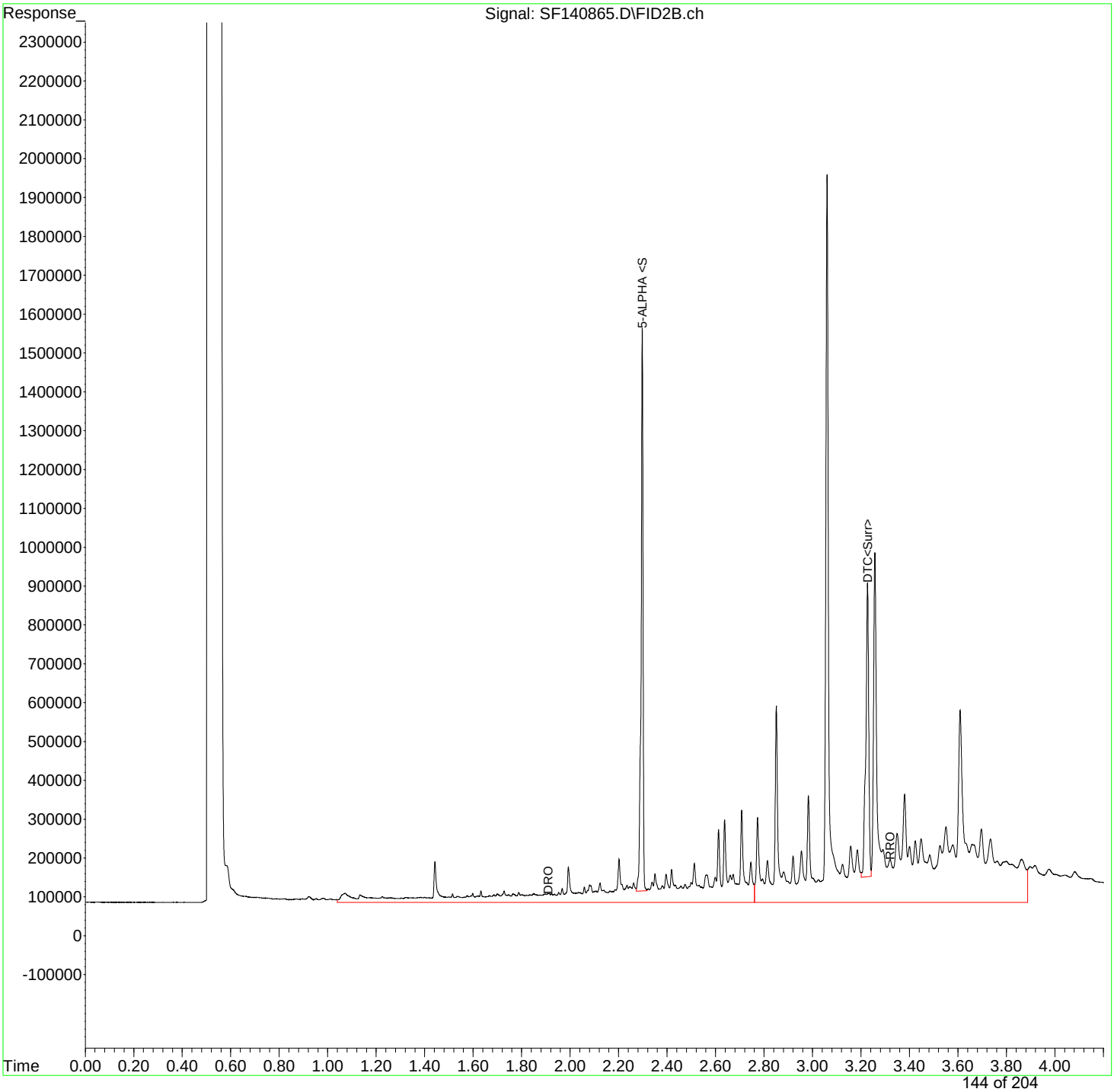
Integration File: autoint1.e
Quant Time: Apr 25 18:20:07 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140867.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:23
Operator : T.L
Sample : 1241686028
Misc :
ALS Vial : 81 Sample Multiplier: 1

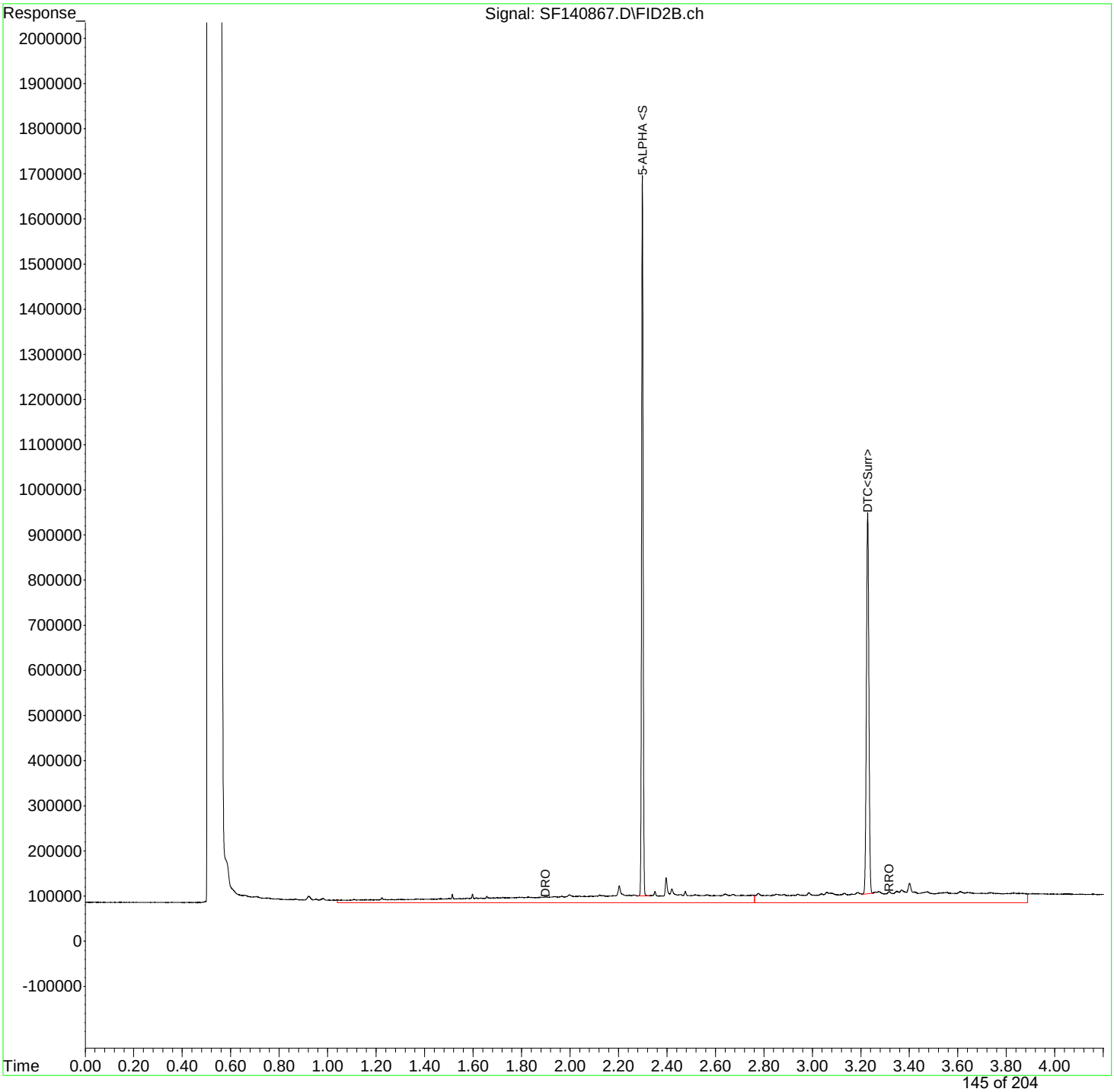
Integration File: autoint1.e
Quant Time: Apr 25 18:43:02 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140869.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:33
Operator : T.L
Sample : 1241686029
Misc :
ALS Vial : 82 Sample Multiplier: 1

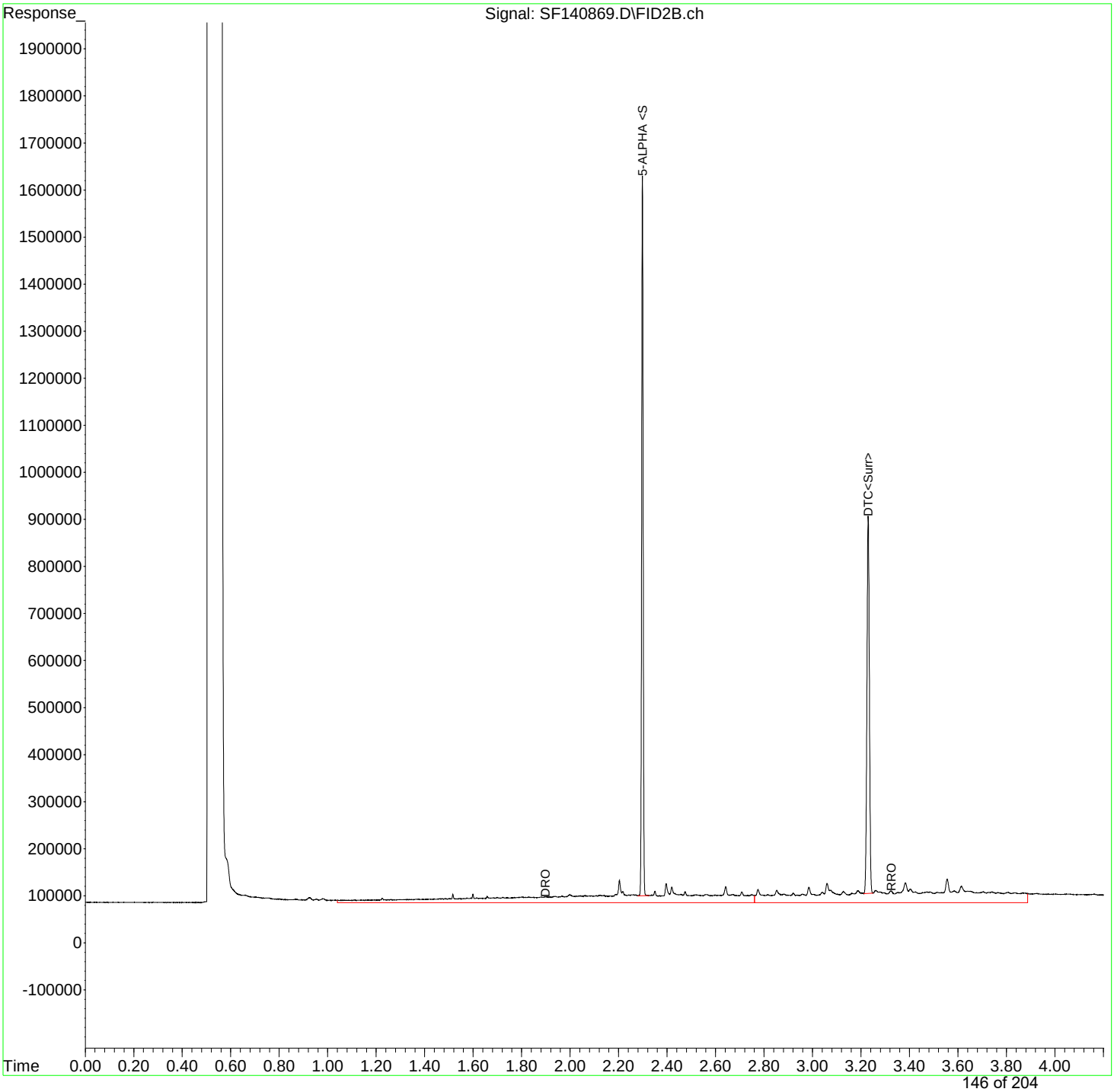
Integration File: autoint1.e
Quant Time: Apr 25 18:43:11 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140871.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:43
Operator : T.L
Sample : 1241686030
Misc :
ALS Vial : 83 Sample Multiplier: 1

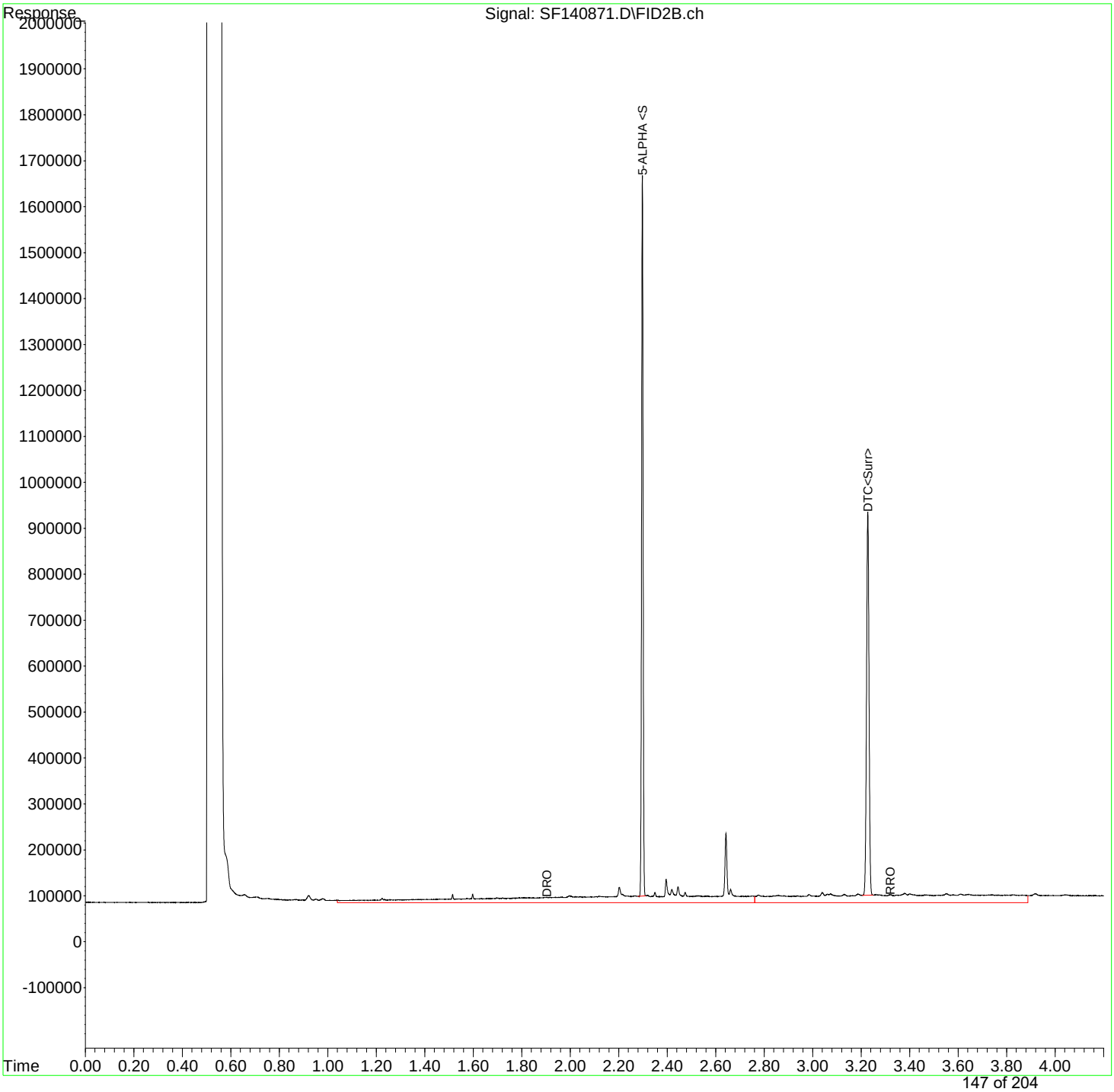
Integration File: autoint1.e
Quant Time: Apr 25 18:53:00 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140873.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 18:53
Operator : T.L
Sample : 1241686031
Misc :
ALS Vial : 84 Sample Multiplier: 1

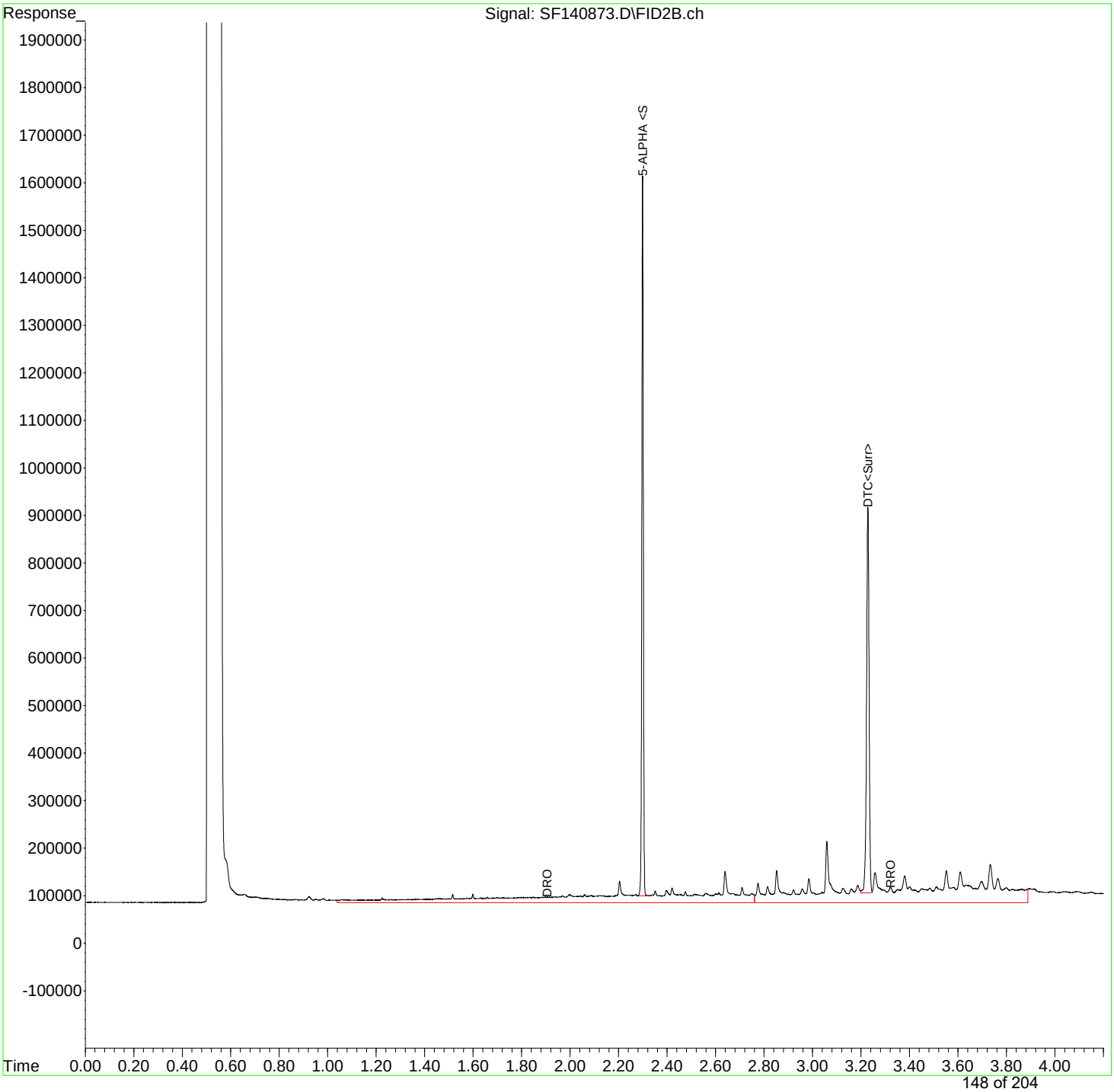
Integration File: autoint1.e
Quant Time: Apr 25 19:01:15 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140875.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 19:03
Operator : T.L
Sample : 1241686032
Misc :
ALS Vial : 85 Sample Multiplier: 1

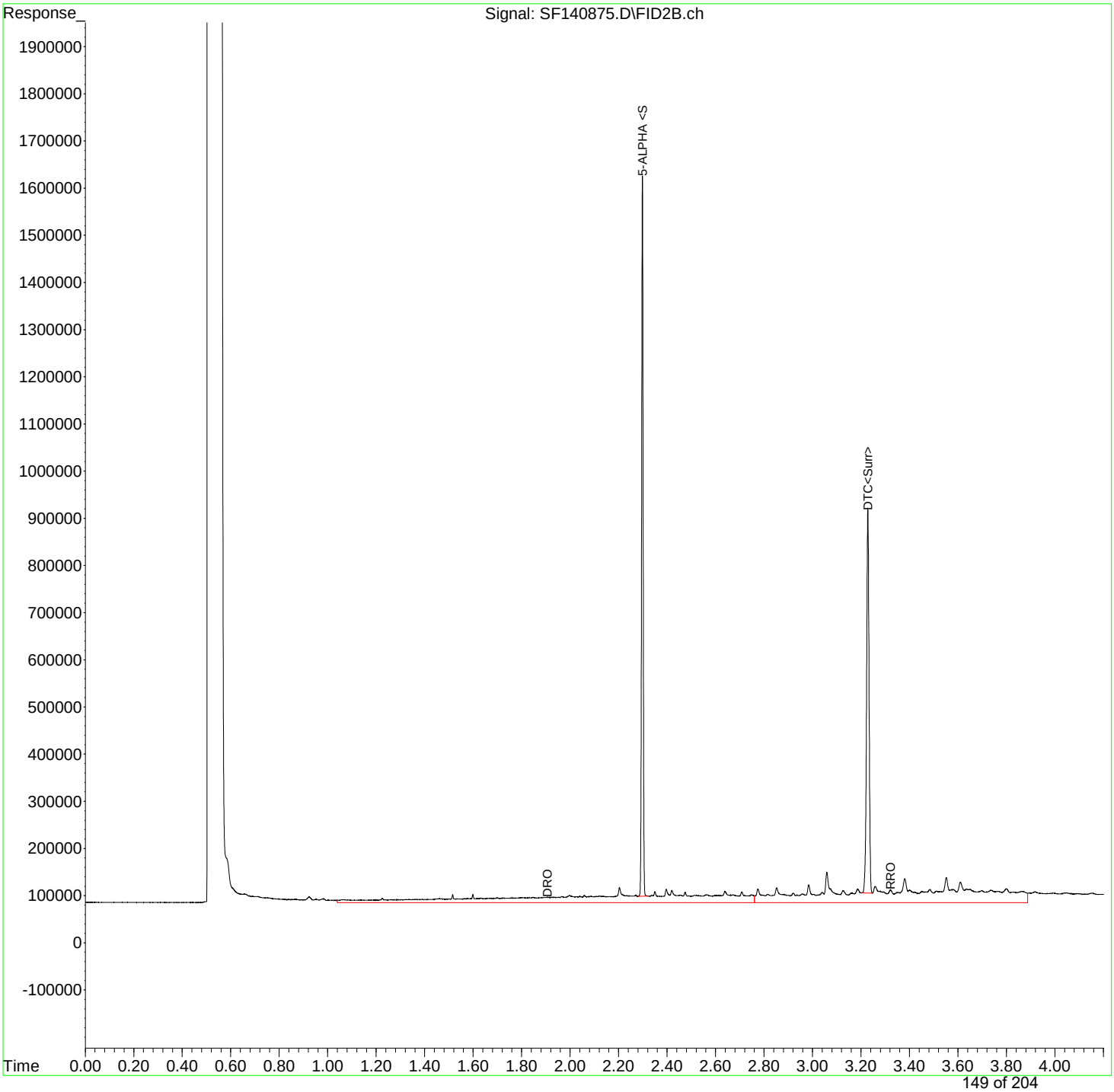
Integration File: autoint1.e
Quant Time: Apr 25 19:10:32 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140877.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 19:13
Operator : T.L
Sample : 1241686033
Misc :
ALS Vial : 86 Sample Multiplier: 1

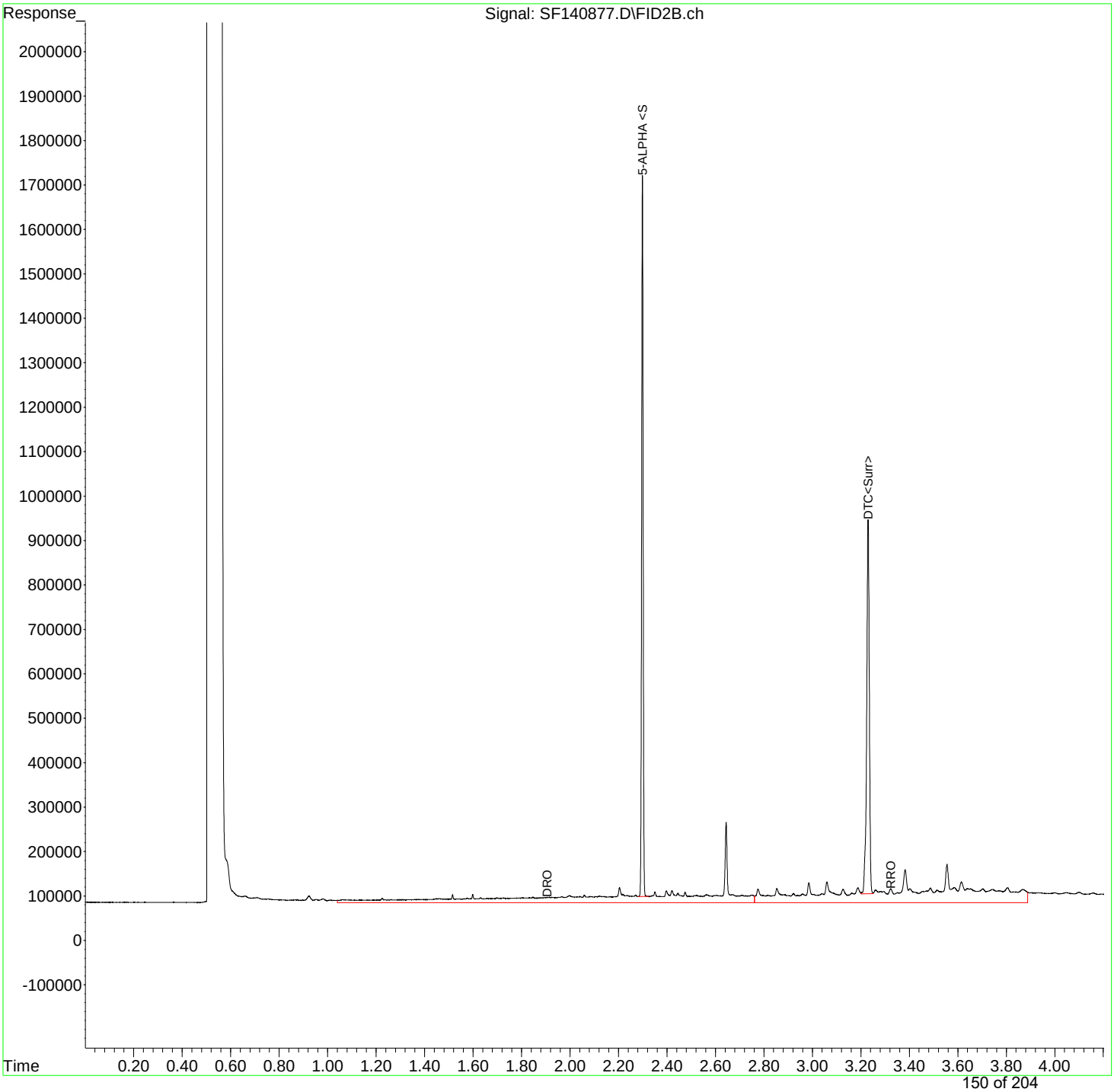
Integration File: autoint1.e
Quant Time: Apr 25 19:20:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140879.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 19:23
Operator : T.L
Sample : 1241686034
Misc :
ALS Vial : 87 Sample Multiplier: 1

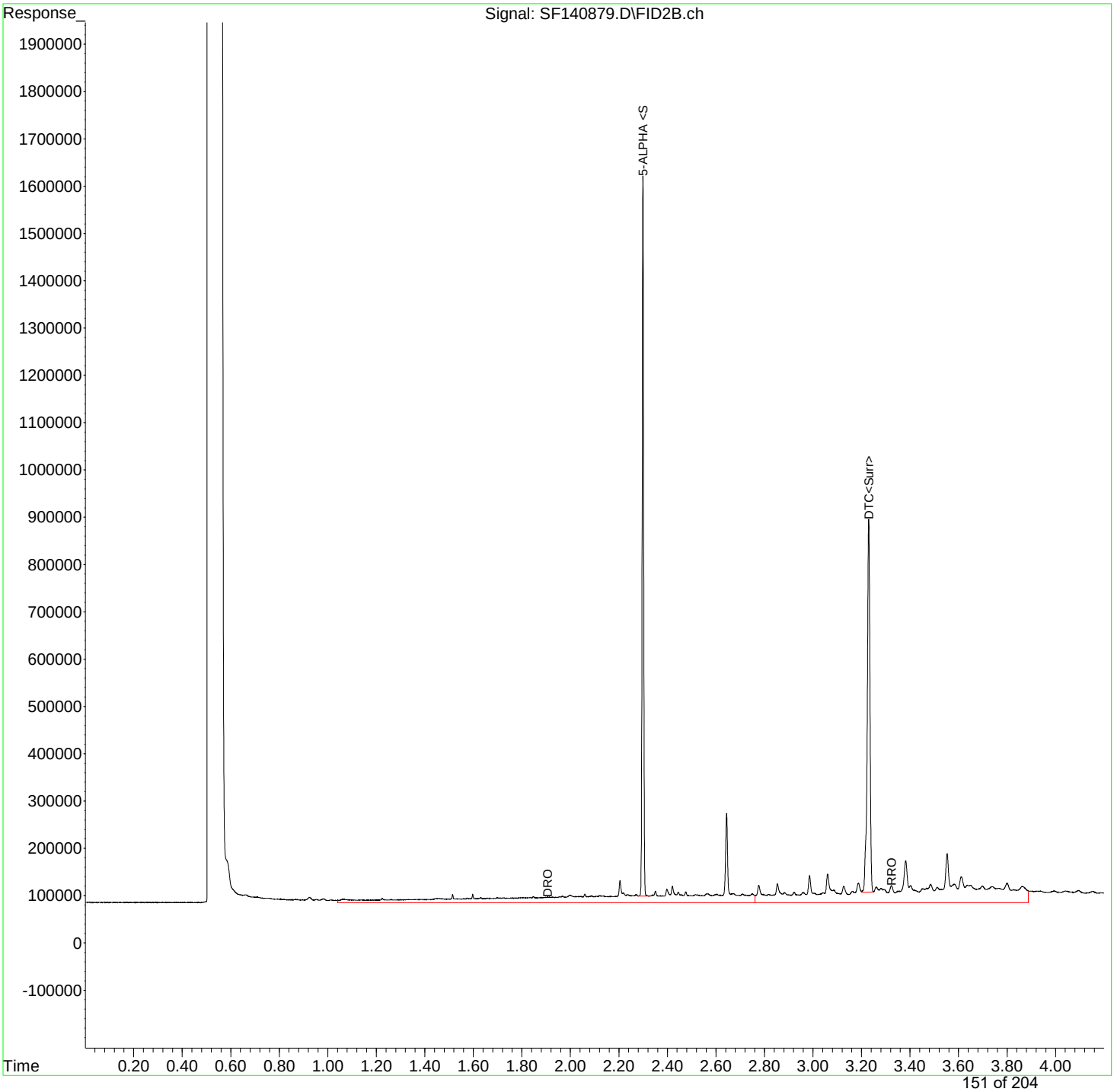
Integration File: autoint1.e
Quant Time: Apr 25 19:43:09 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140881.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 19:33
Operator : T.L
Sample : 1241686035
Misc :
ALS Vial : 88 Sample Multiplier: 1

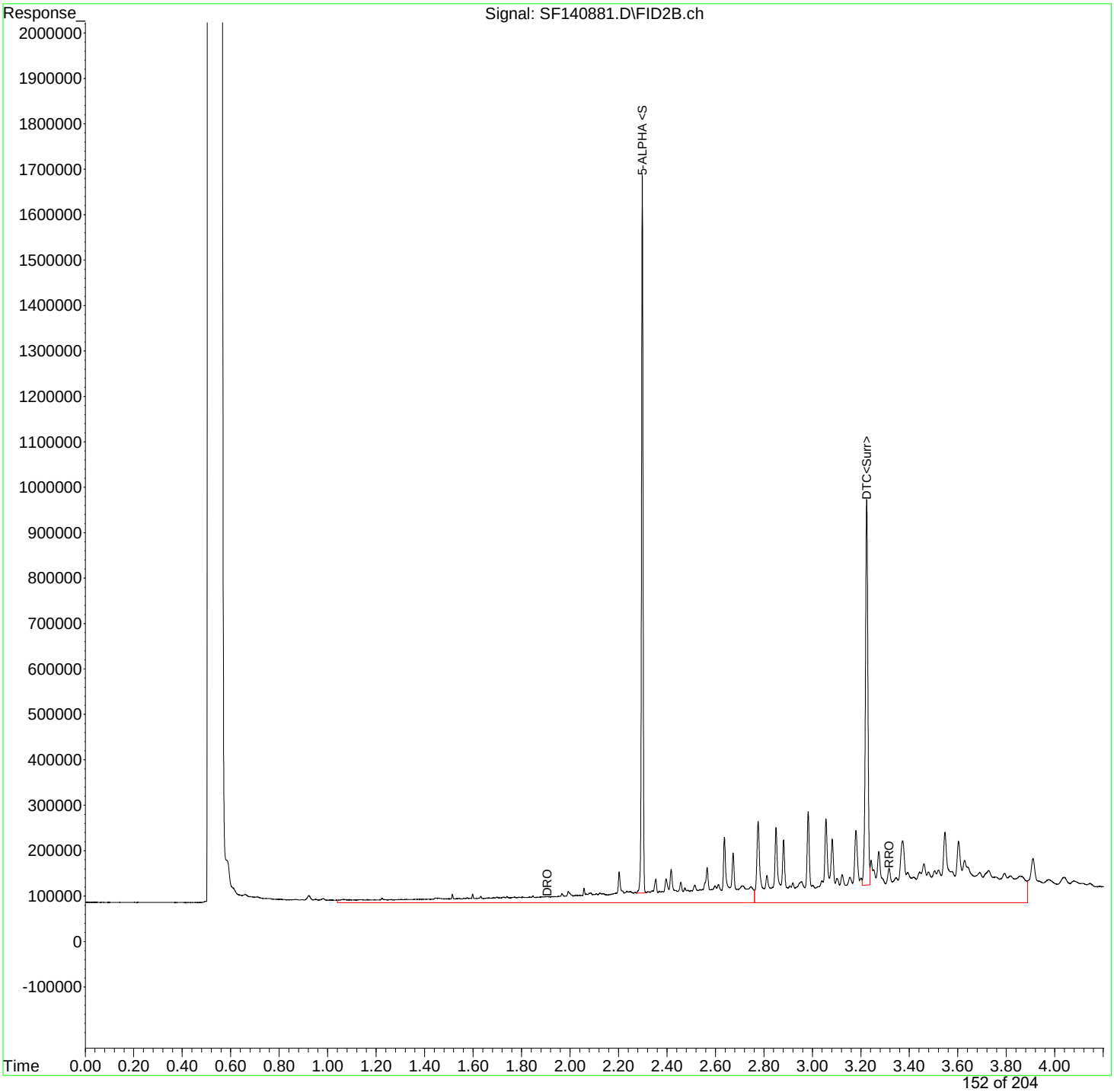
Integration File: autoint1.e
Quant Time: Apr 25 19:43:20 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140883.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 19:43
Operator : T.L
Sample : 1241686036
Misc :
ALS Vial : 89 Sample Multiplier: 1

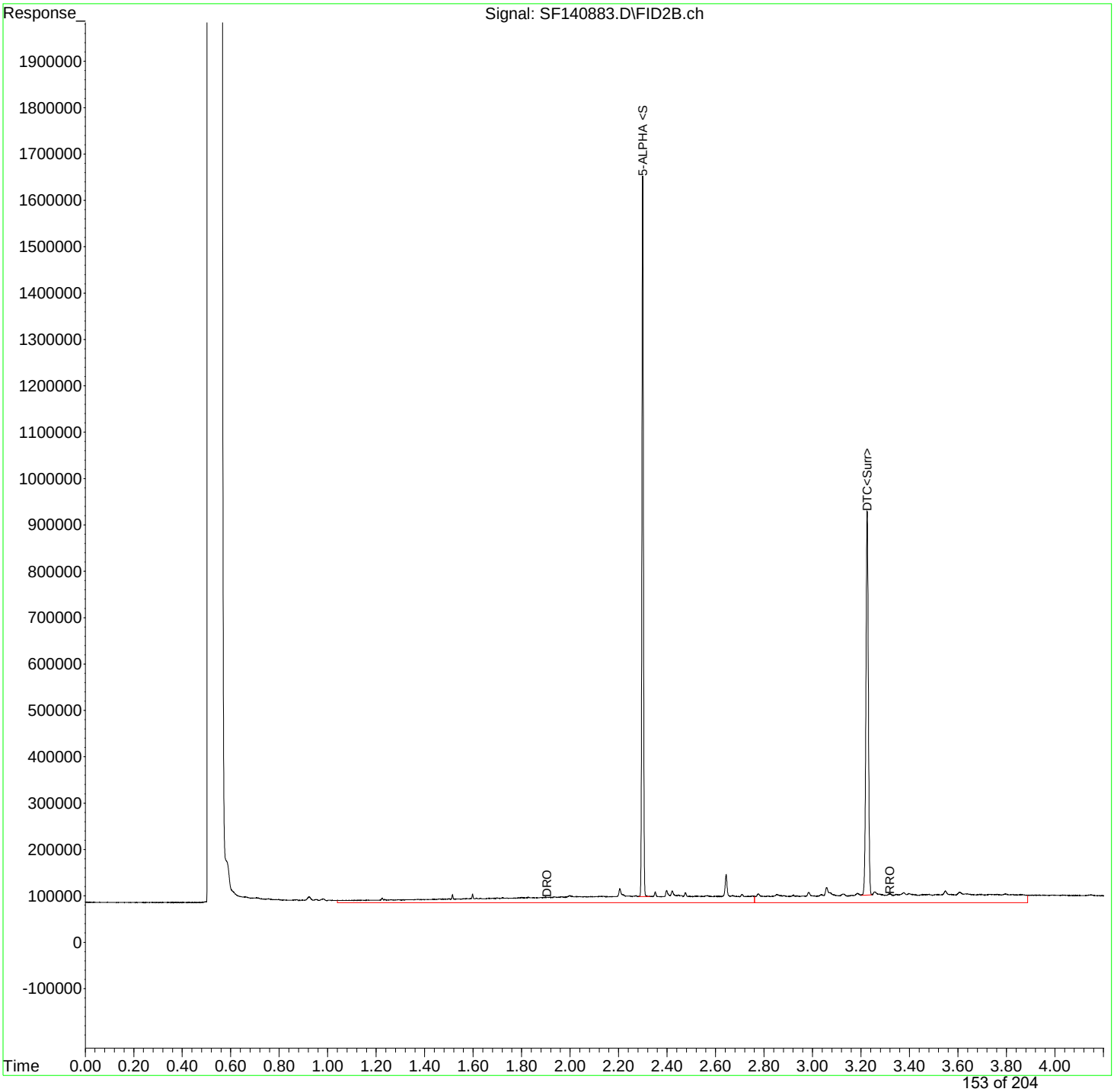
Integration File: autoint1.e
Quant Time: Apr 25 19:52:41 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140889.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 20:13
Operator : T.L
Sample : 1241686037
Misc :
ALS Vial : 90 Sample Multiplier: 1

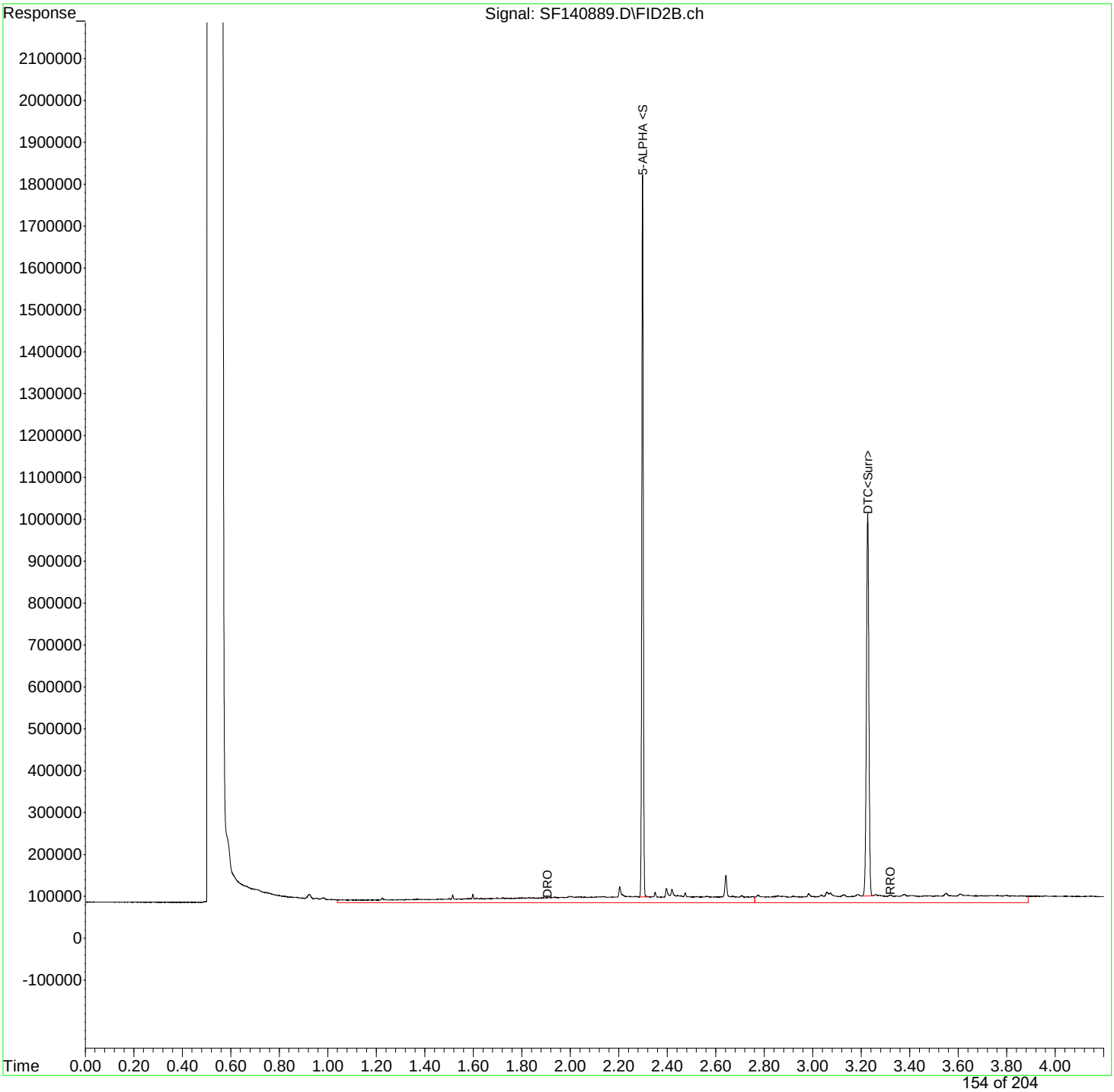
Integration File: autoint1.e
Quant Time: Apr 26 08:41:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140891.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 20:22
Operator : T.L
Sample : 1241686038
Misc :
ALS Vial : 91 Sample Multiplier: 1

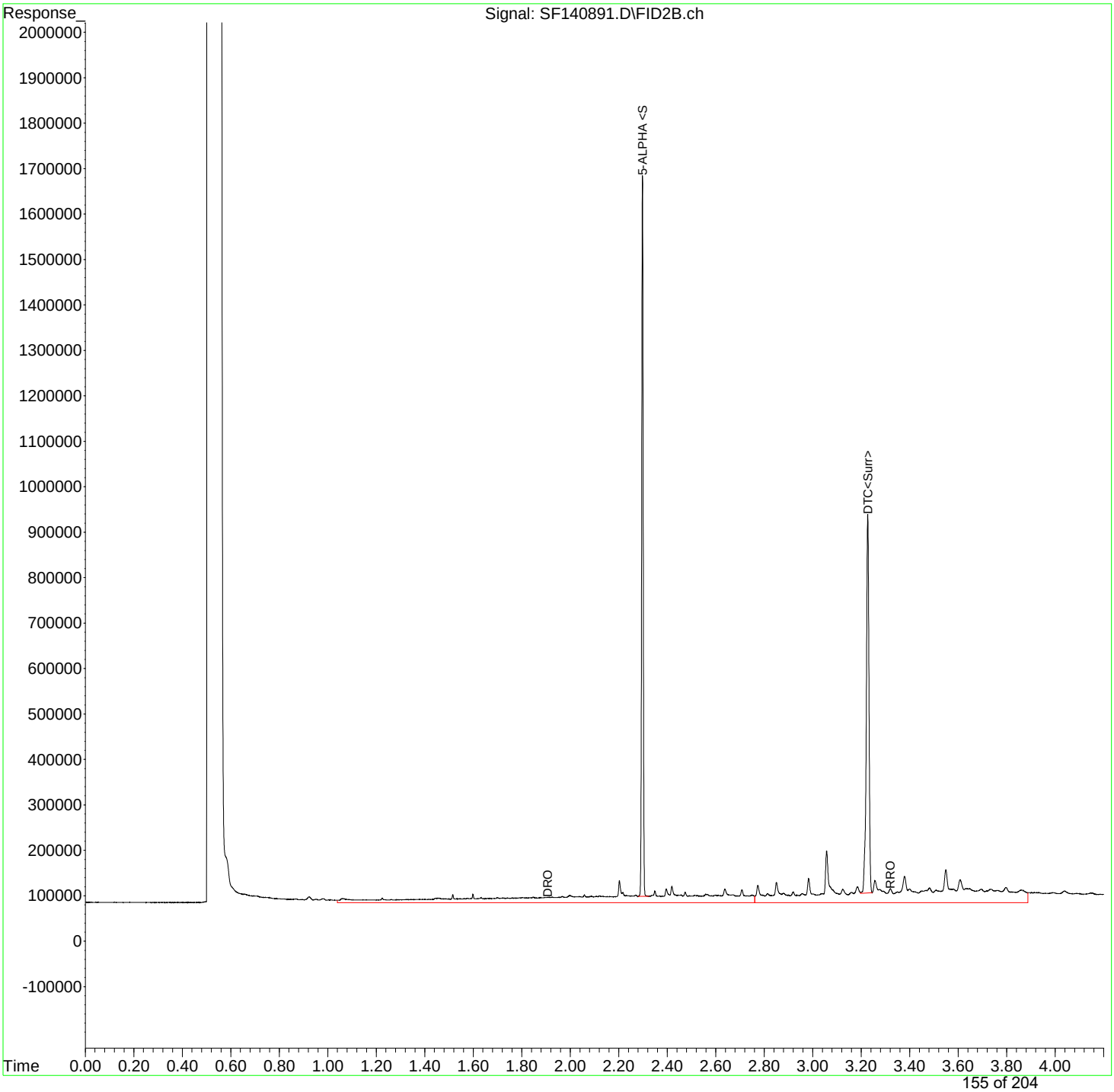
Integration File: autoint1.e
Quant Time: Apr 26 08:42:02 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Shamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140893.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 20:33
Operator : T.L
Sample : 1241686039
Misc :
ALS Vial : 92 Sample Multiplier: 1

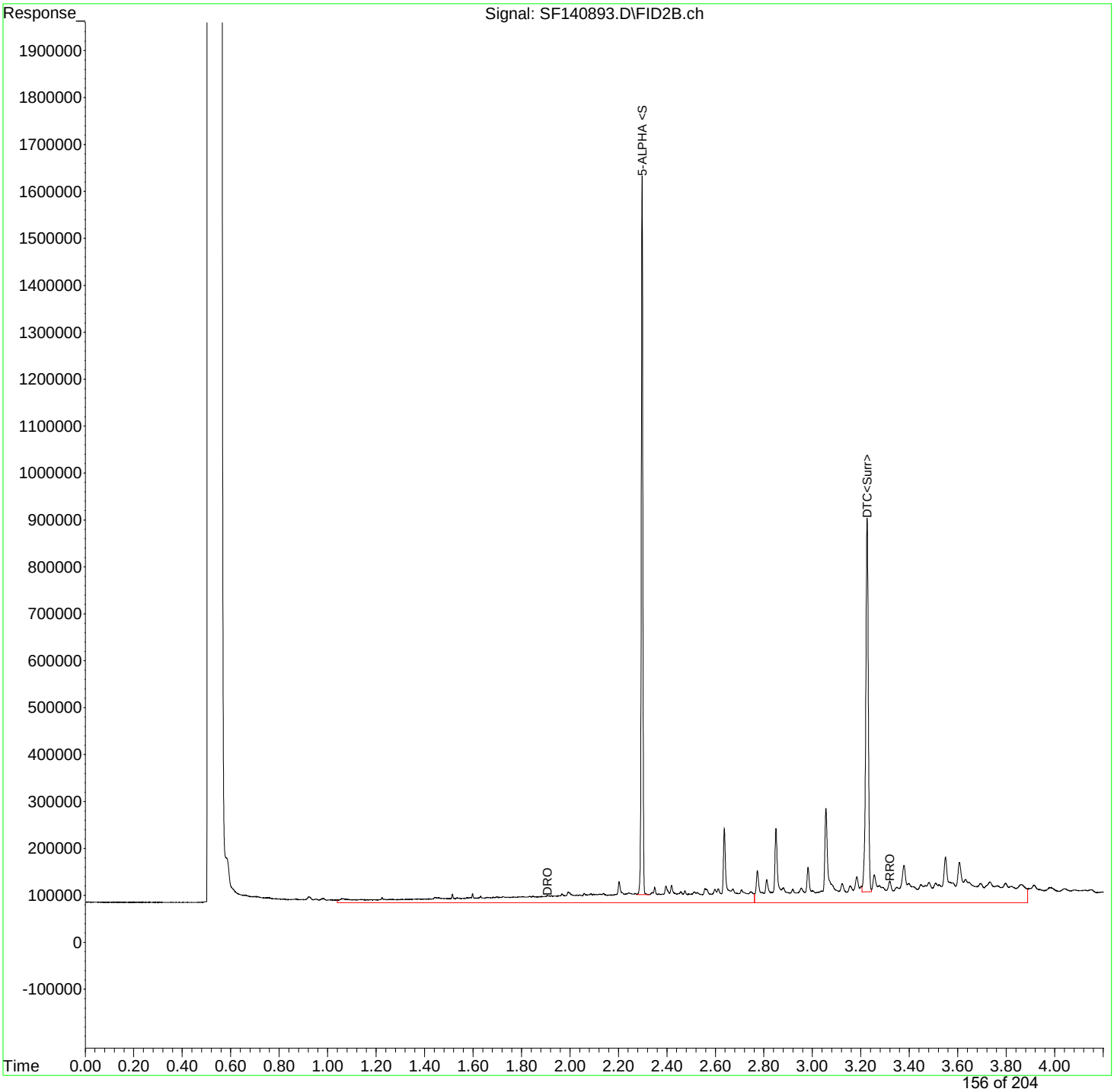
Integration File: autoint1.e
Quant Time: Apr 26 08:42:12 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140895.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 20:43
Operator : T.L
Sample : 1241686040
Misc :
ALS Vial : 93 Sample Multiplier: 1

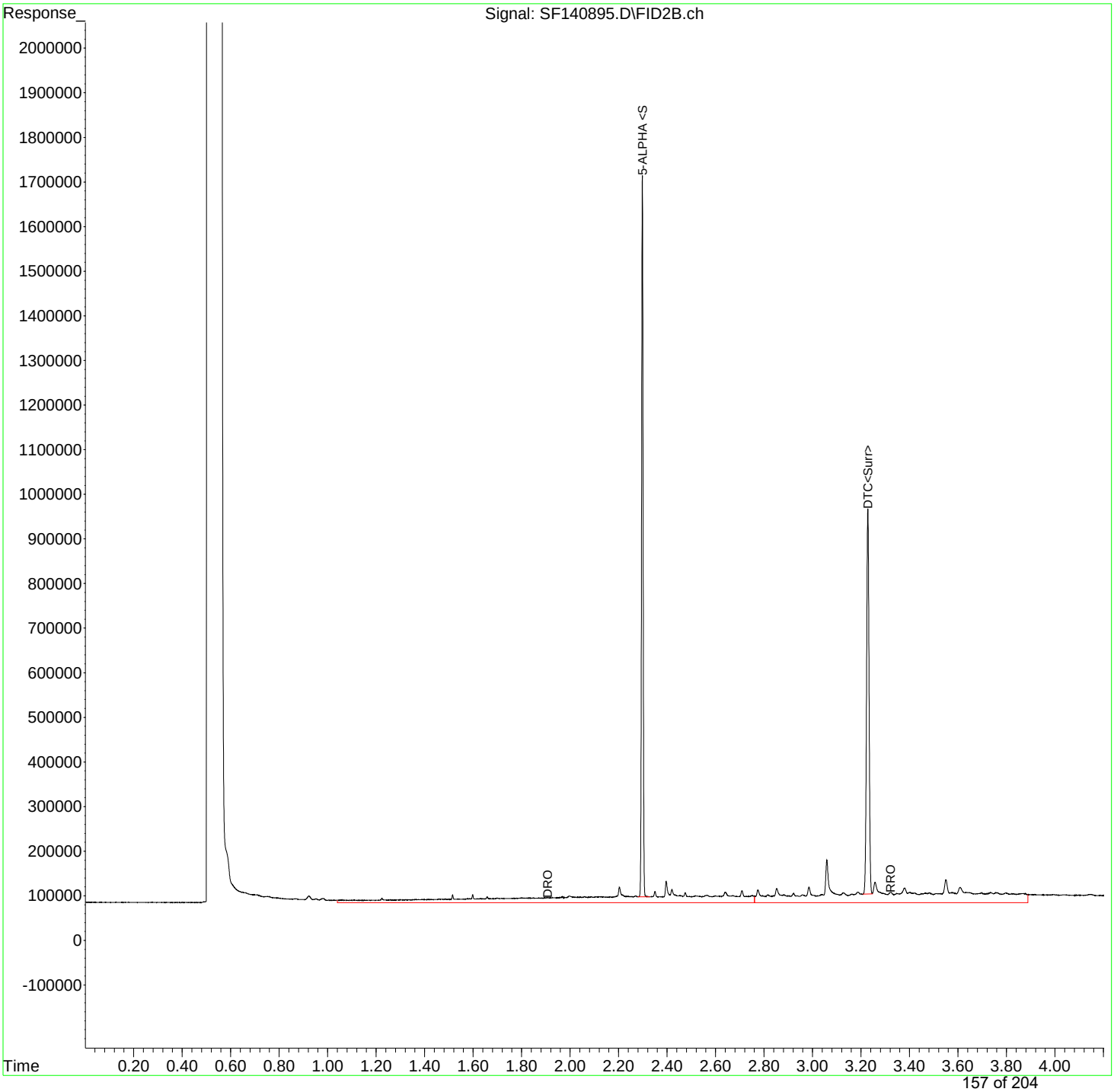
Integration File: autoint1.e
Quant Time: Apr 26 08:42:23 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

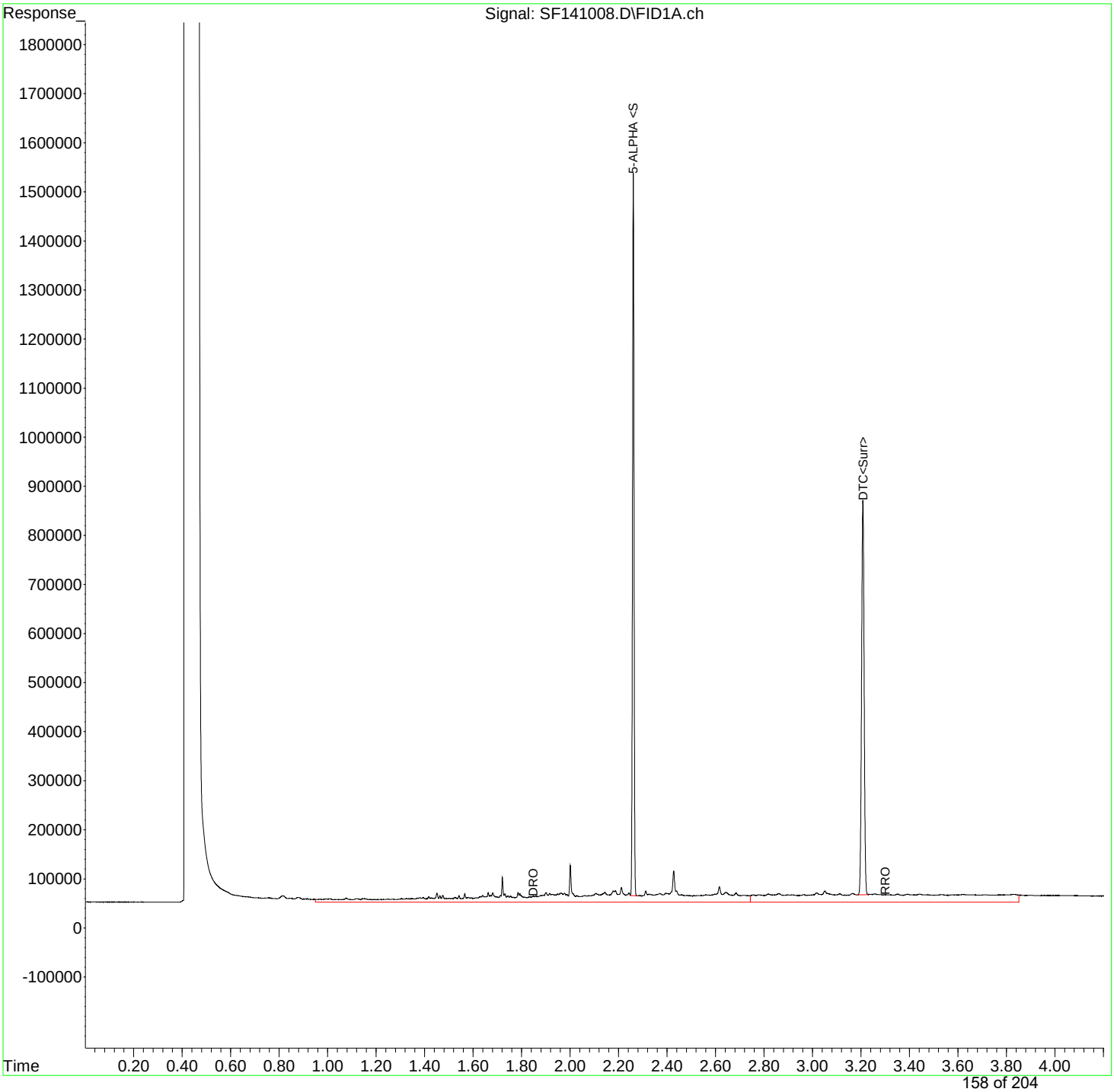
Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF141008.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 9:12
Operator : T.L
Sample : 1760946 MB 49365 SG
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 09:39:18 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

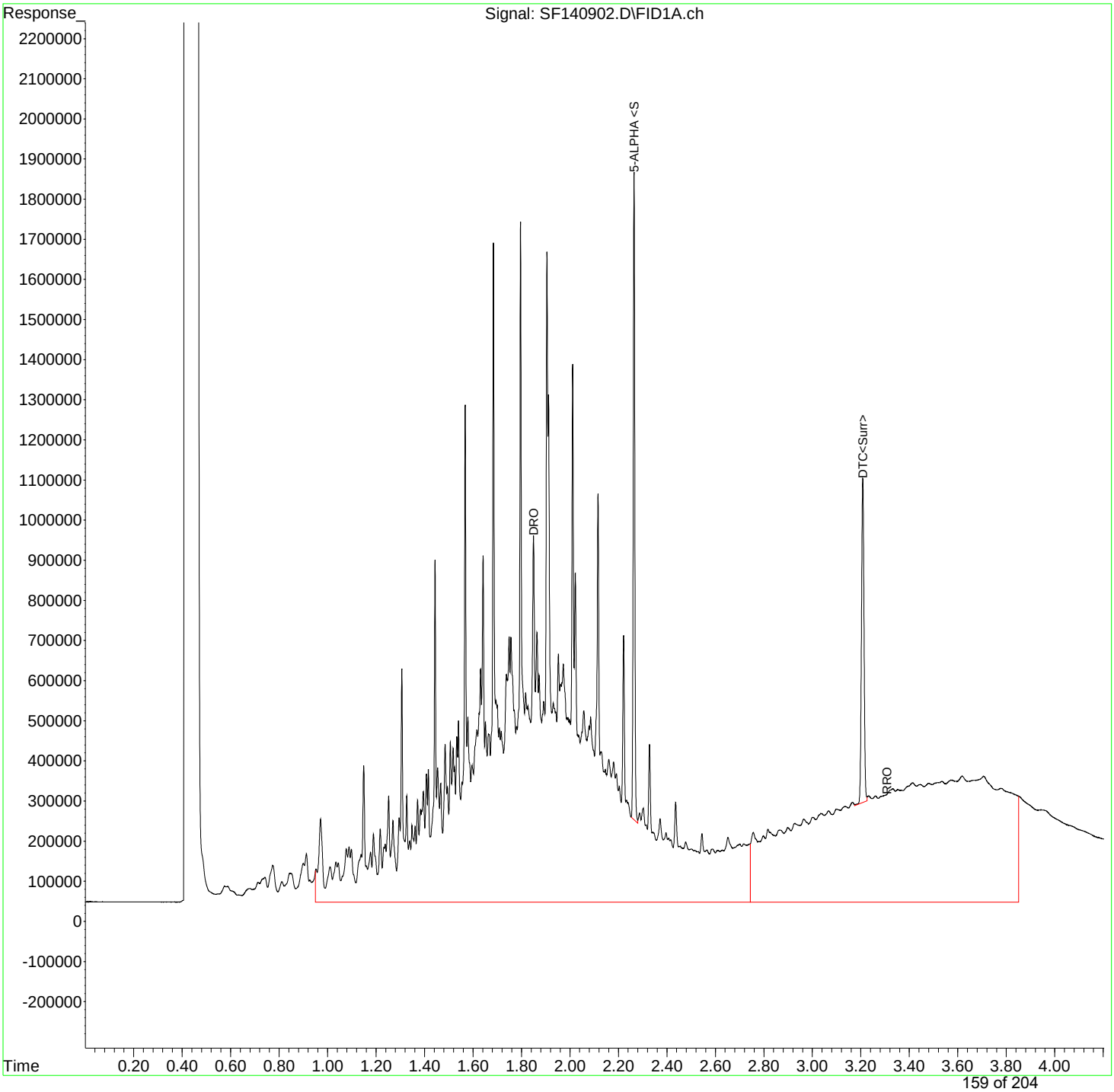
Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140902.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 21:13
Operator : T.L
Sample : 1760944 LCS 49364
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:33:25 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

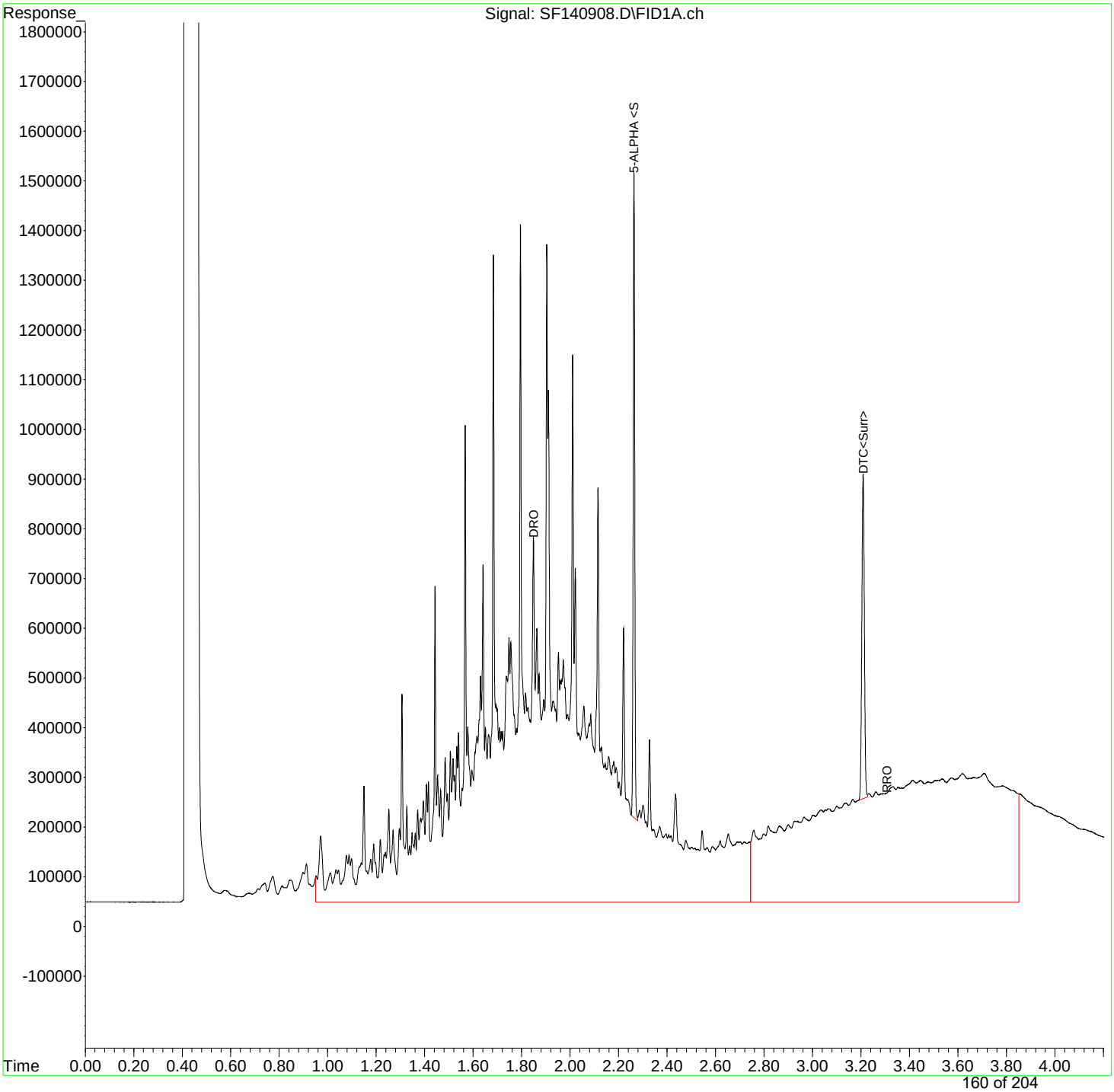
Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140908.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 21:43
Operator : T.L
Sample : 1760947 LCS 49365 SG
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:34:09 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

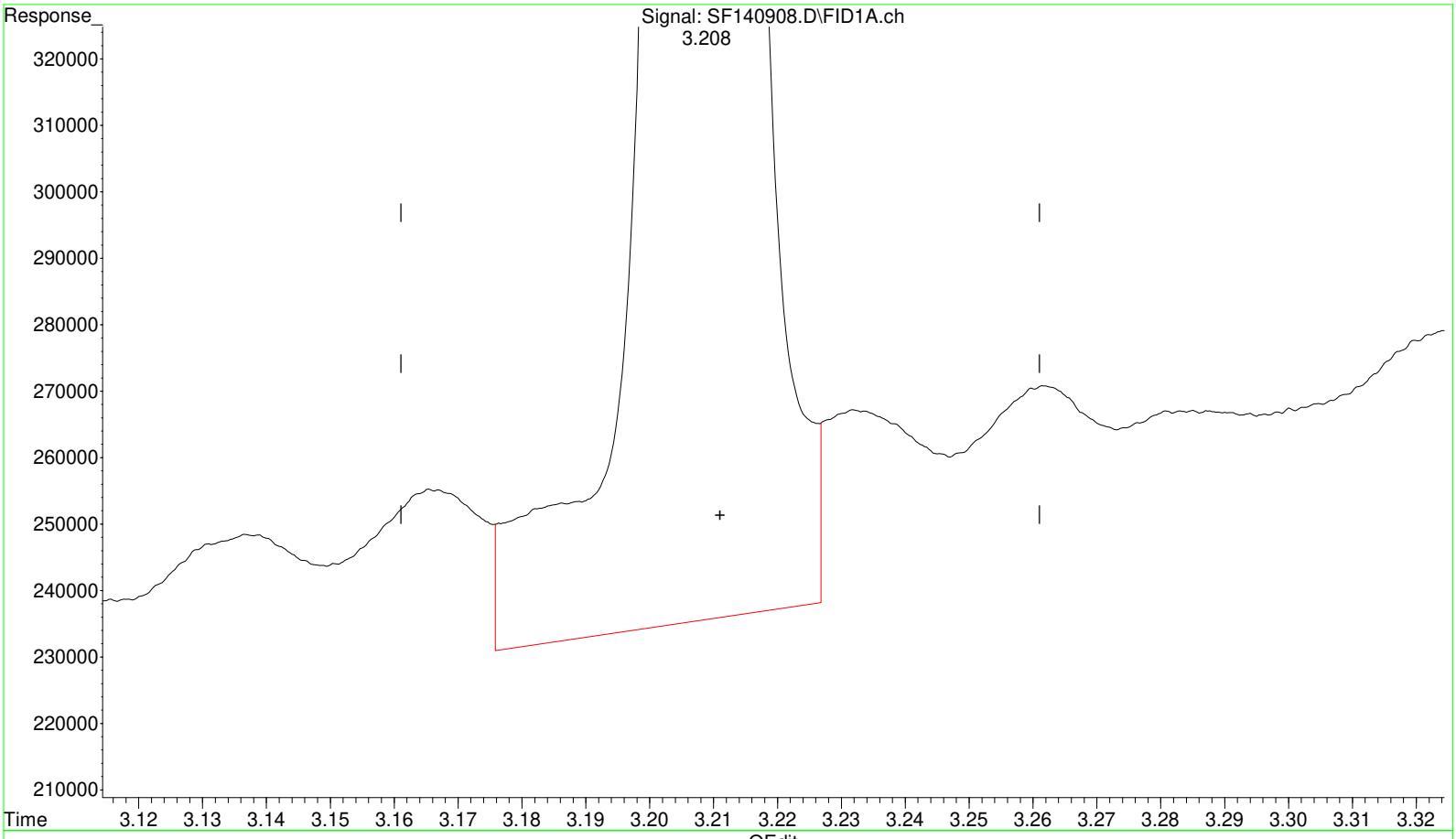


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140908.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 21:43
Operator : T.L
Sample : 1760947 LCS 49365 SG
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:33:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.209min 97.616 µg/mL

response 5365493

O-BLC

Apr 26, 2024

Tashi Lhamu

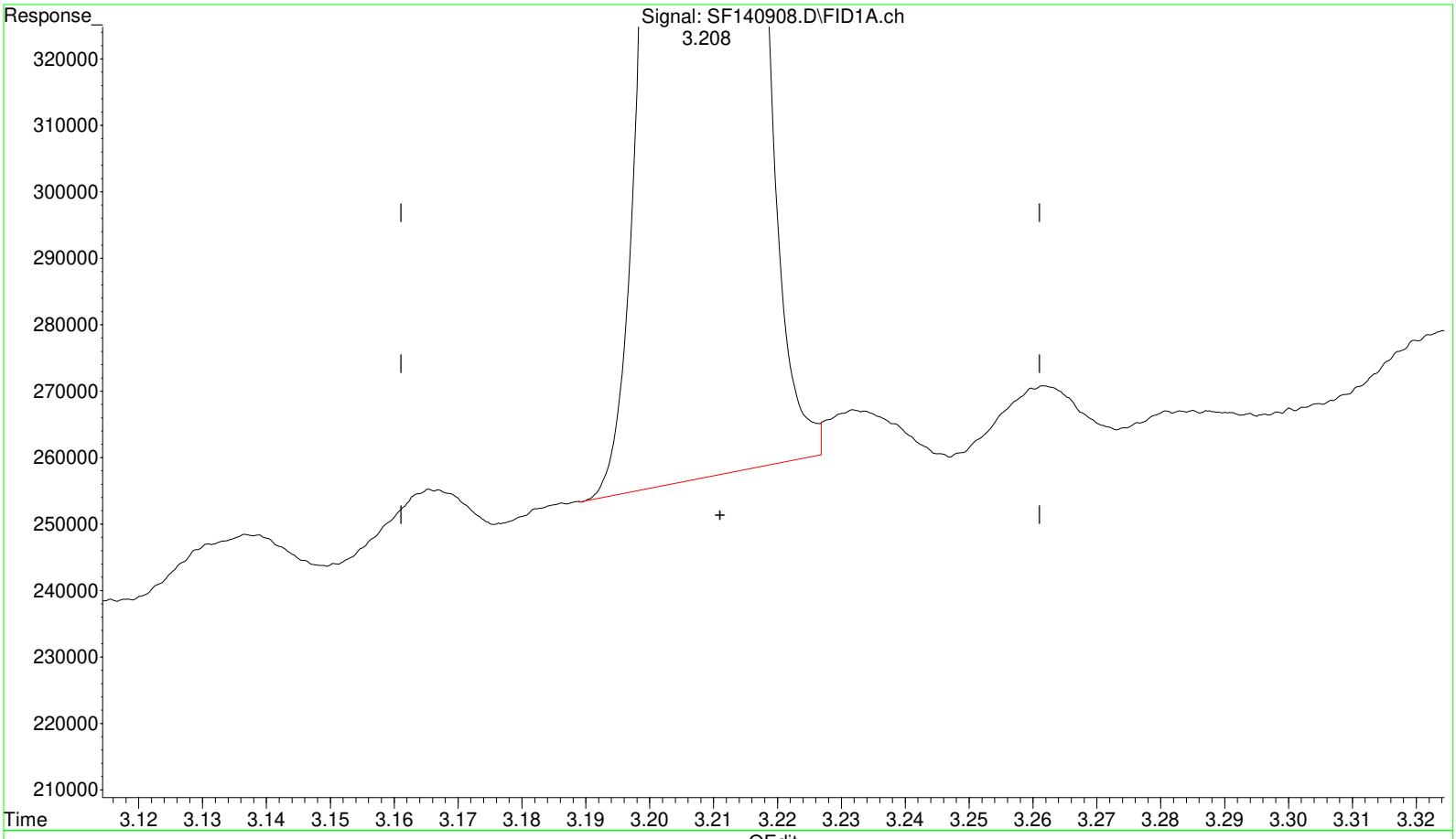
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140908.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 21:43
Operator : T.L
Sample : 1760947 LCS 49365 SG
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:33:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 85.997 µg/mL m

response 4726857

M-BLC

Apr 26, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140912.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:03
Operator : T.L
Sample : 1241686001 SG
Misc :
ALS Vial : 35 Sample Multiplier: 1

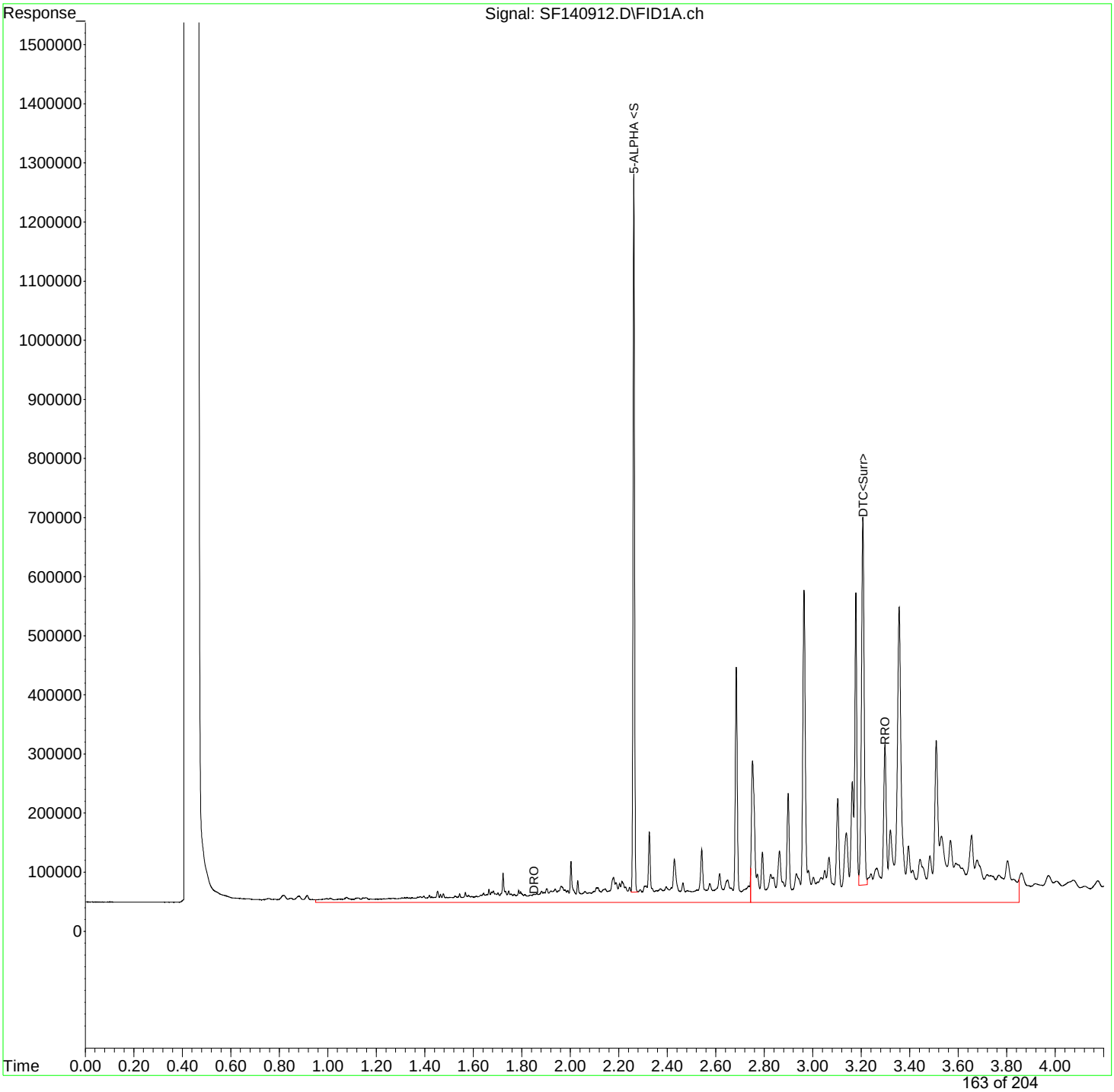
Integration File: autoint1.e
Quant Time: Apr 26 08:34:51 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140914.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:13
Operator : T.L
Sample : 1241686002 SG
Misc :
ALS Vial : 36 Sample Multiplier: 1

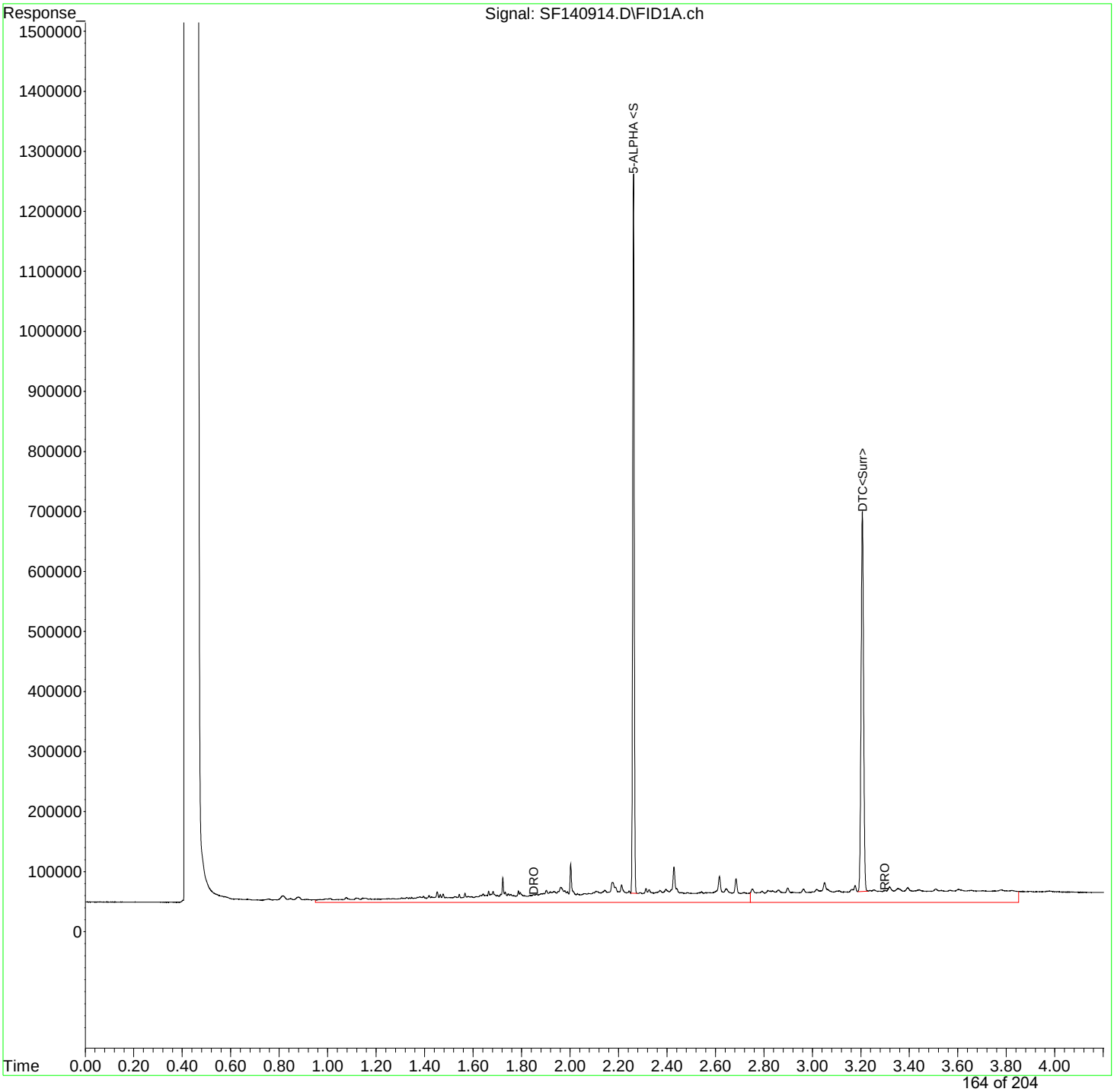
Integration File: autoint1.e
Quant Time: Apr 26 08:35:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140916.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:24
Operator : T.L
Sample : 1241686003 SG
Misc :
ALS Vial : 37 Sample Multiplier: 1

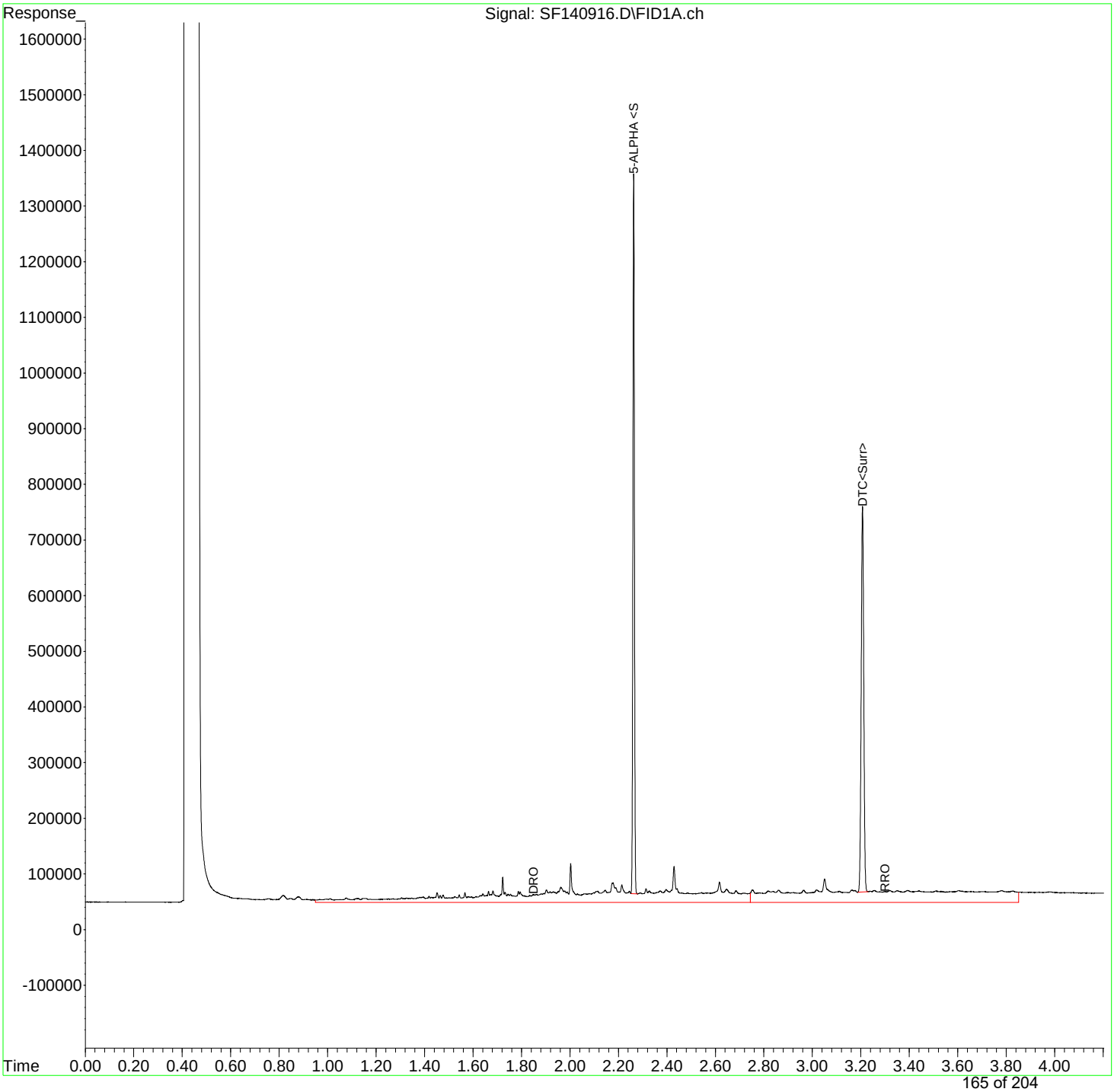
Integration File: autoint1.e
Quant Time: Apr 26 08:35:12 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140918.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:34
Operator : T.L
Sample : 1241686004 SG
Misc :
ALS Vial : 38 Sample Multiplier: 1

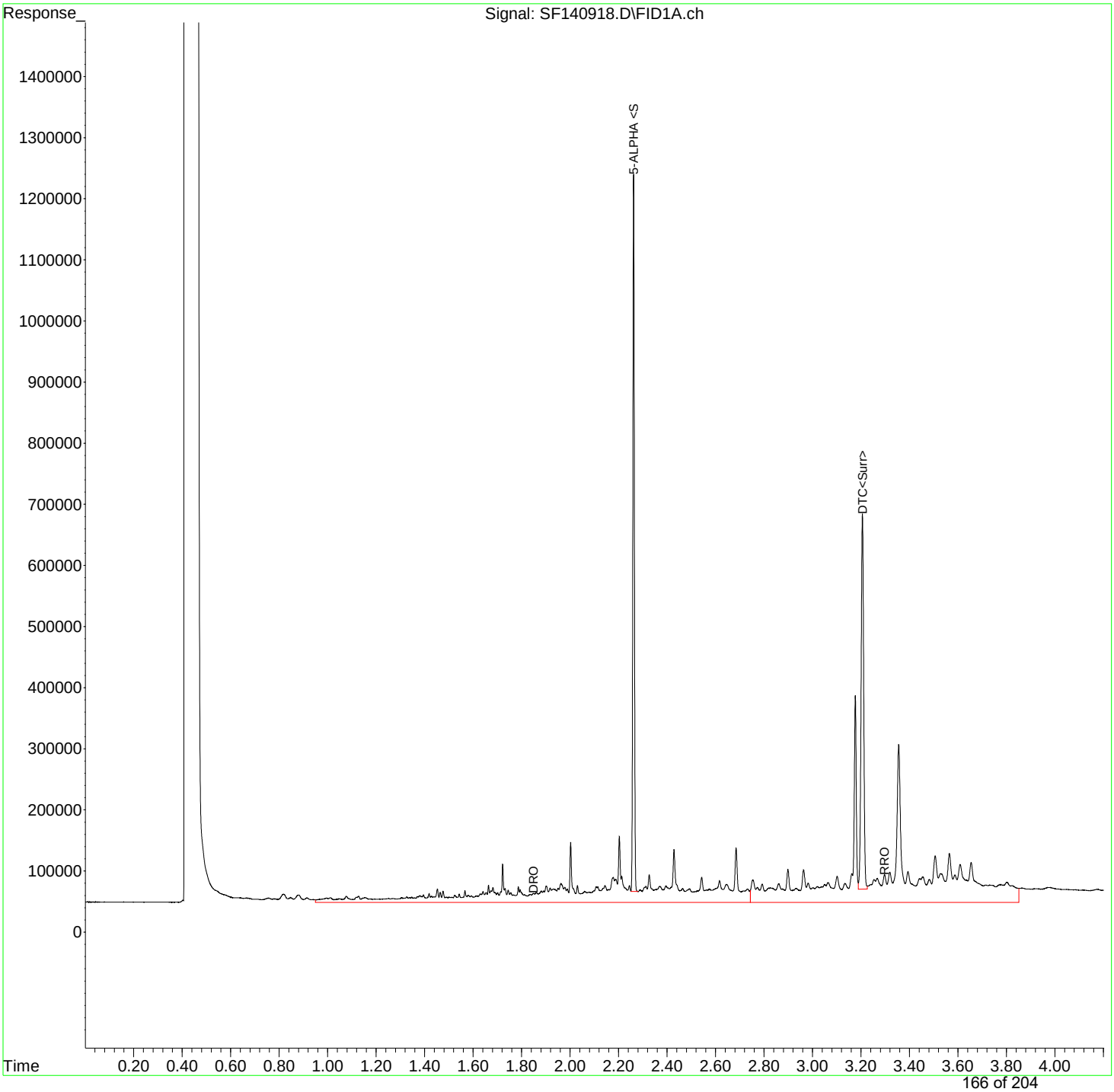
Integration File: autoint1.e
Quant Time: Apr 26 08:35:21 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140920.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:44
Operator : T.L
Sample : 1241686005 SG
Misc :
ALS Vial : 39 Sample Multiplier: 1

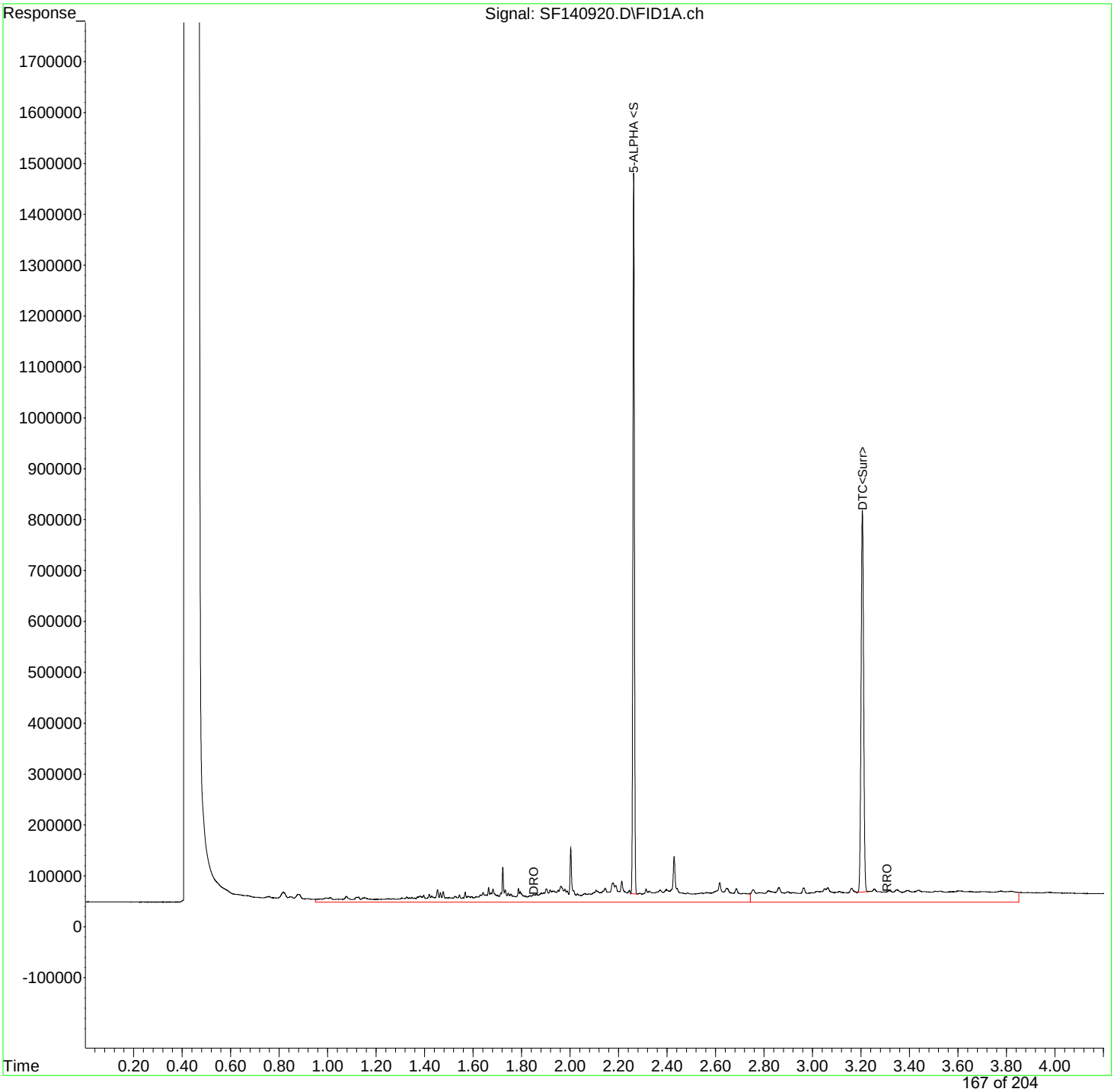
Integration File: autoint1.e
Quant Time: Apr 26 08:55:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140922.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 22:54
Operator : T.L
Sample : 1241686006 SG
Misc :
ALS Vial : 40 Sample Multiplier: 1

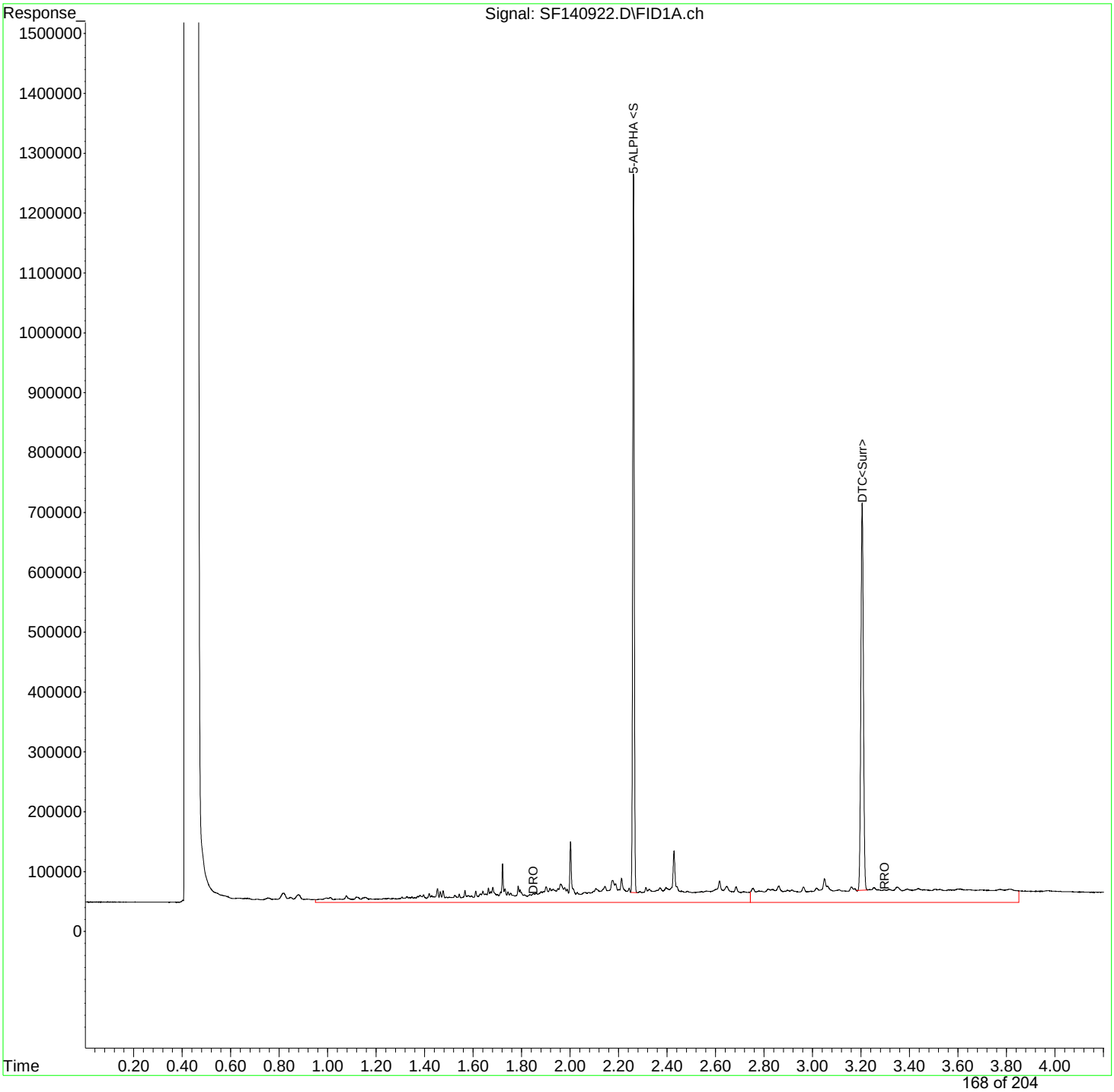
Integration File: autoint1.e
Quant Time: Apr 26 08:55:30 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140924.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:04
Operator : T.L
Sample : 1241686007 SG
Misc :
ALS Vial : 41 Sample Multiplier: 1

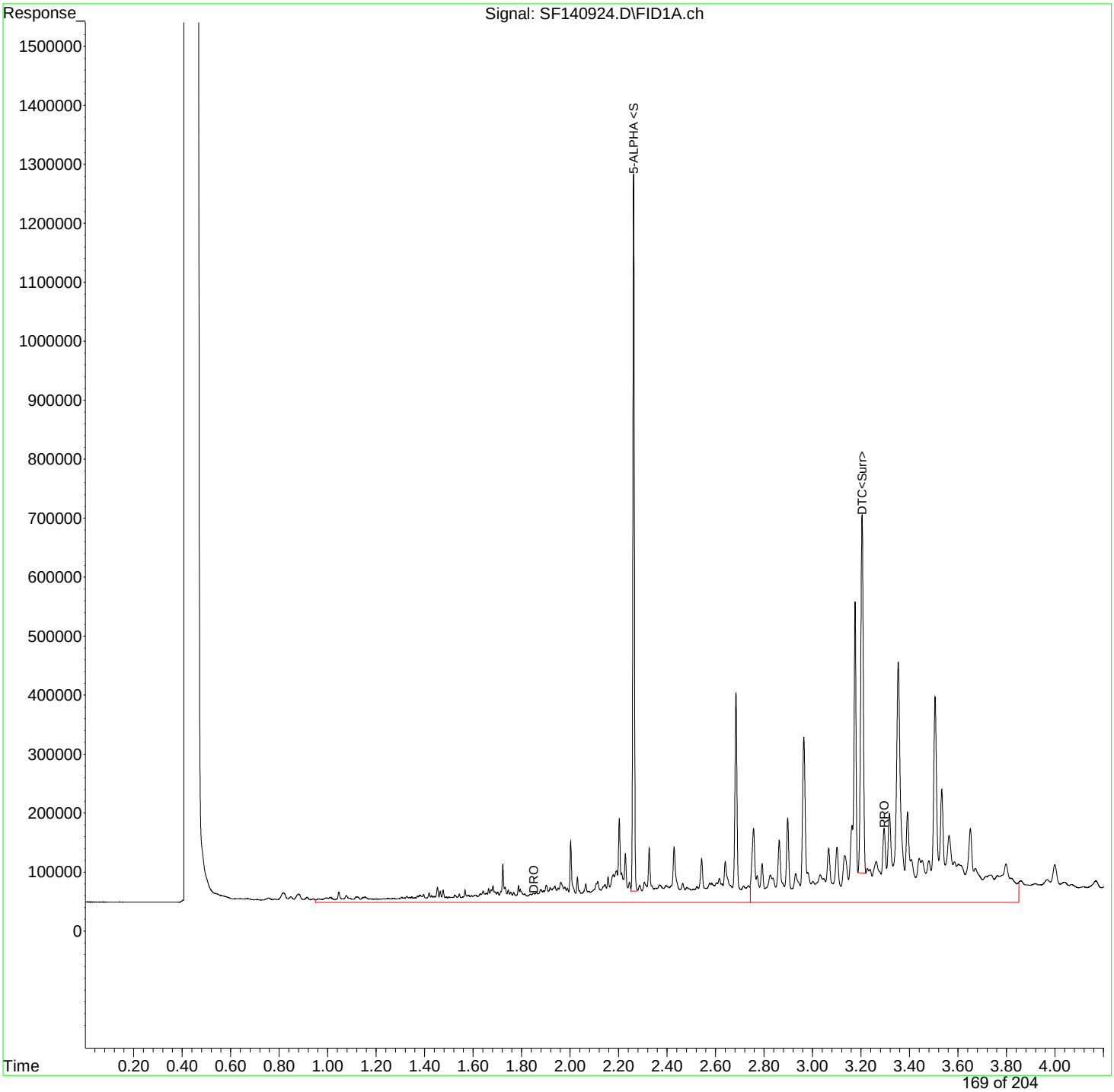
Integration File: autoint1.e
Quant Time: Apr 26 08:55:57 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

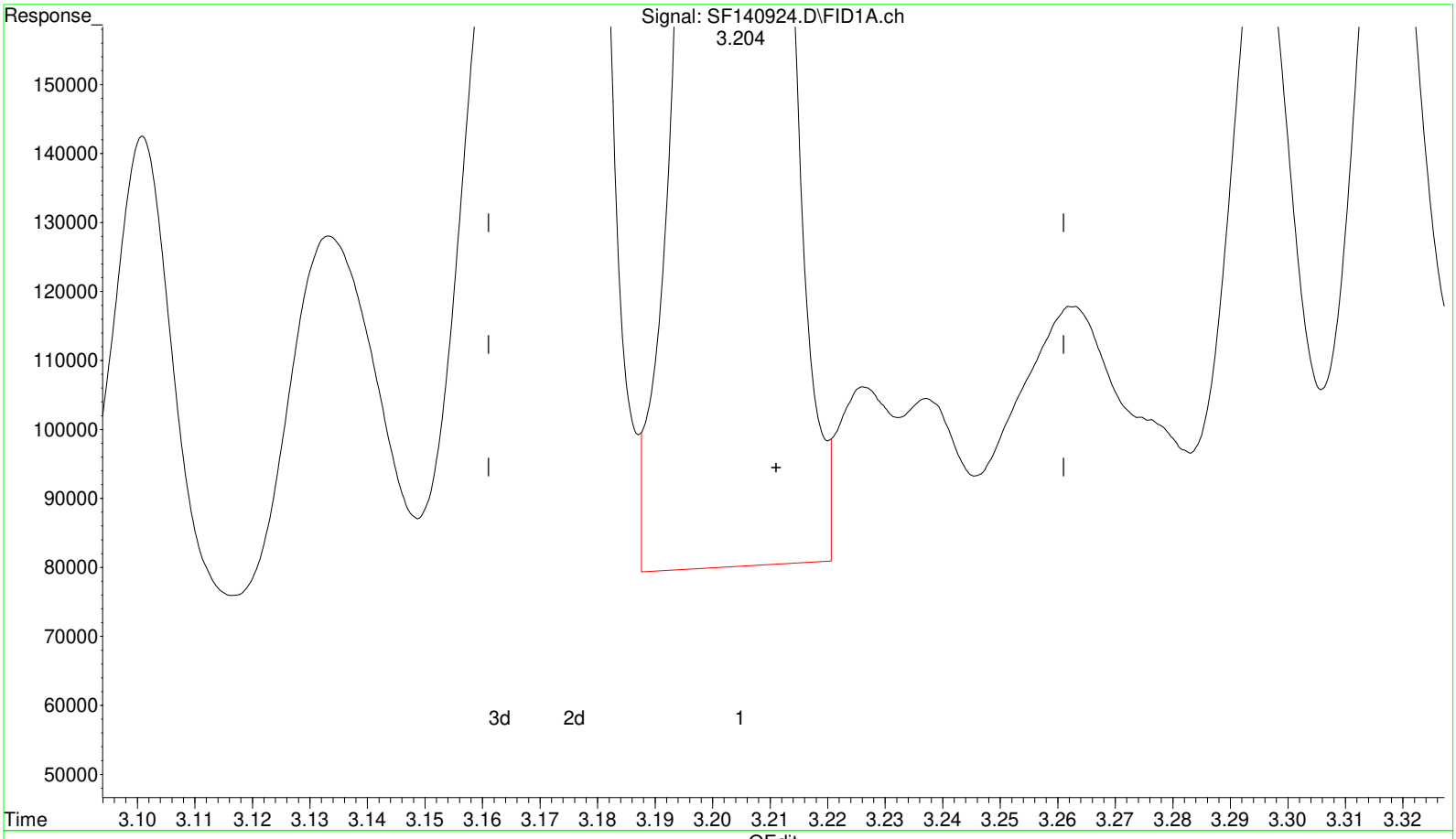


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140924.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:04
Operator : T.L
Sample : 1241686007 SG
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:55:39 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.205min 87.780 µg/mL

response 4824857

O-BLC

Apr 26, 2024

Tashi Lhamu

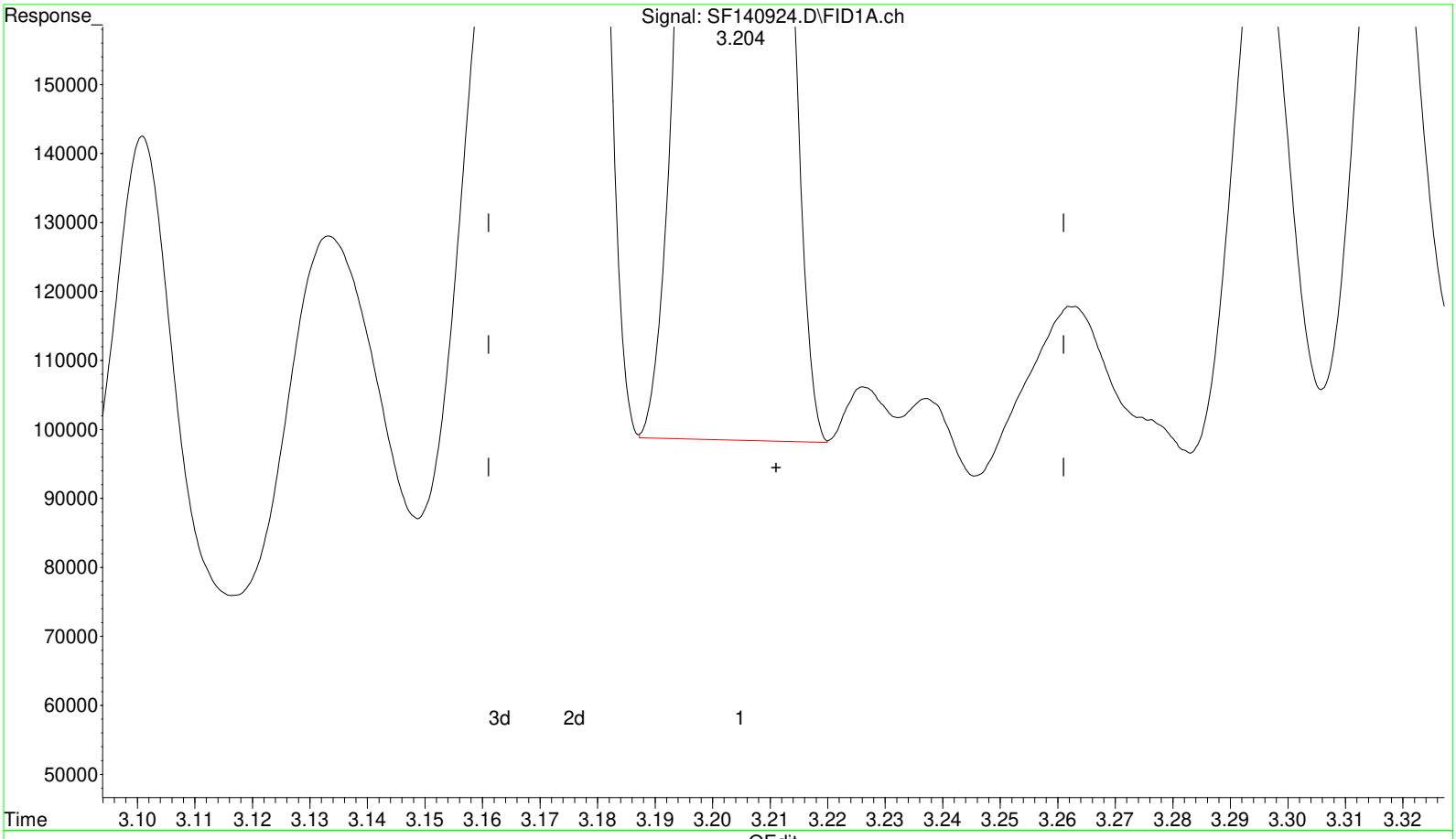
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140924.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:04
Operator : T.L
Sample : 1241686007 SG
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:55:39 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.204min 81.175 µg/mL m

response 4461824

M-BLC
Apr 26, 2024

Zashid Hamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140930.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:34
Operator : T.L
Sample : 1241686008 SG
Misc :
ALS Vial : 42 Sample Multiplier: 1

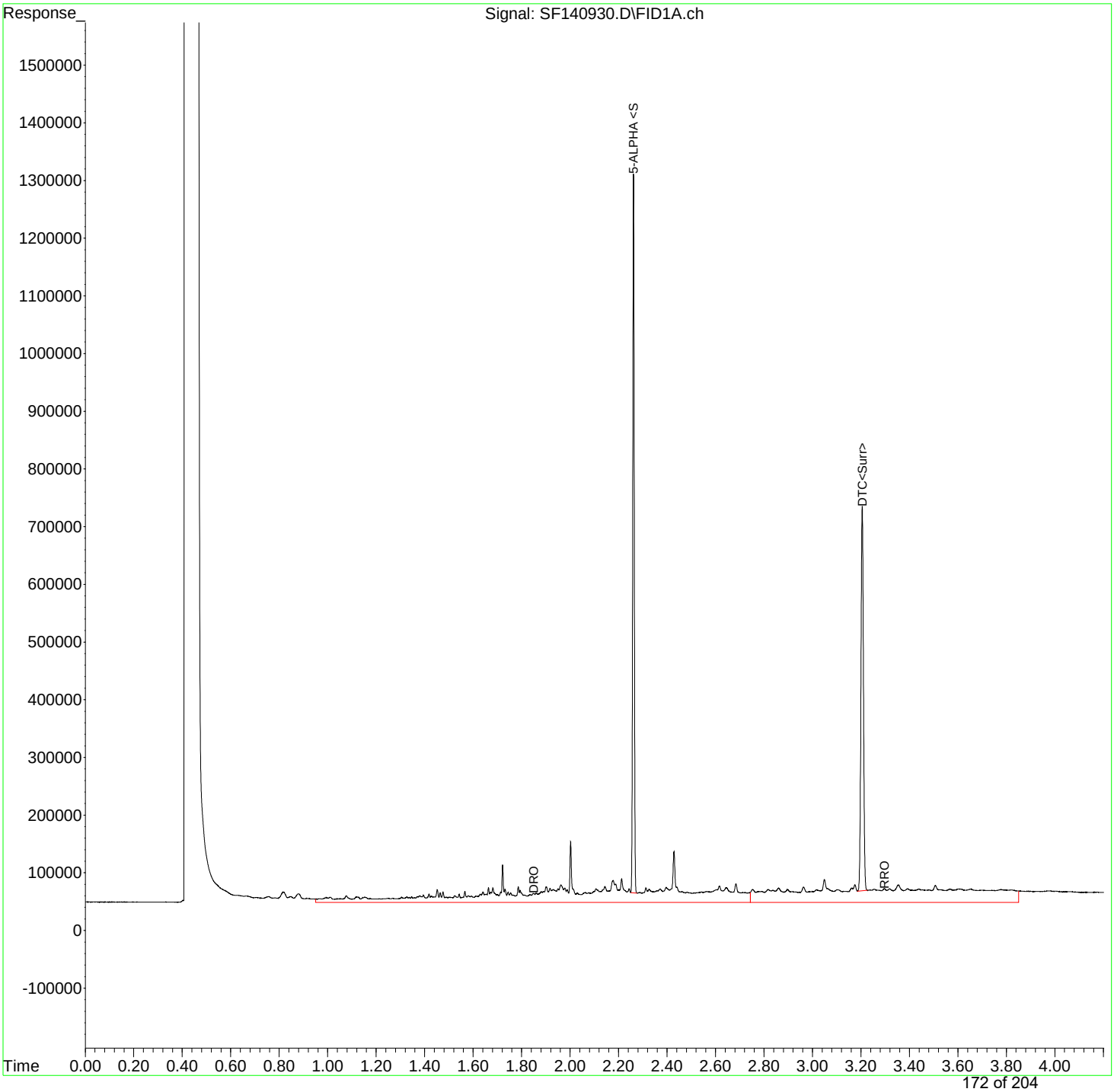
Integration File: autoint1.e
Quant Time: Apr 26 08:56:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Shamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140932.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:44
Operator : T.L
Sample : 1241686009 SG
Misc :
ALS Vial : 43 Sample Multiplier: 1

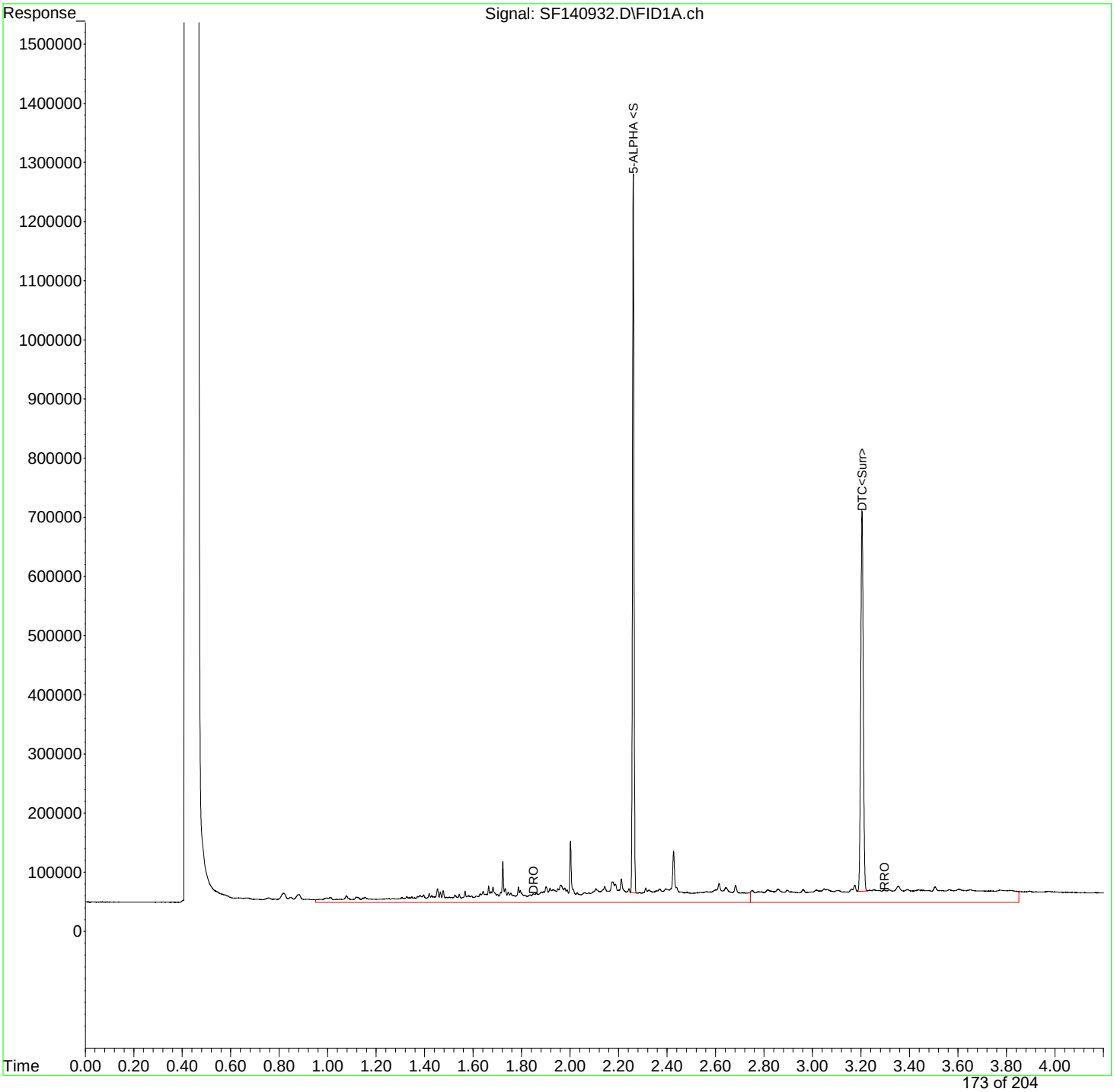
Integration File: autoint1.e
Quant Time: Apr 26 08:56:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140934.D
Signal(s) : FID1A.ch
Acq On : 25 Apr 2024 23:55
Operator : T.L
Sample : 1241686010 SG
Misc :
ALS Vial : 44 Sample Multiplier: 1

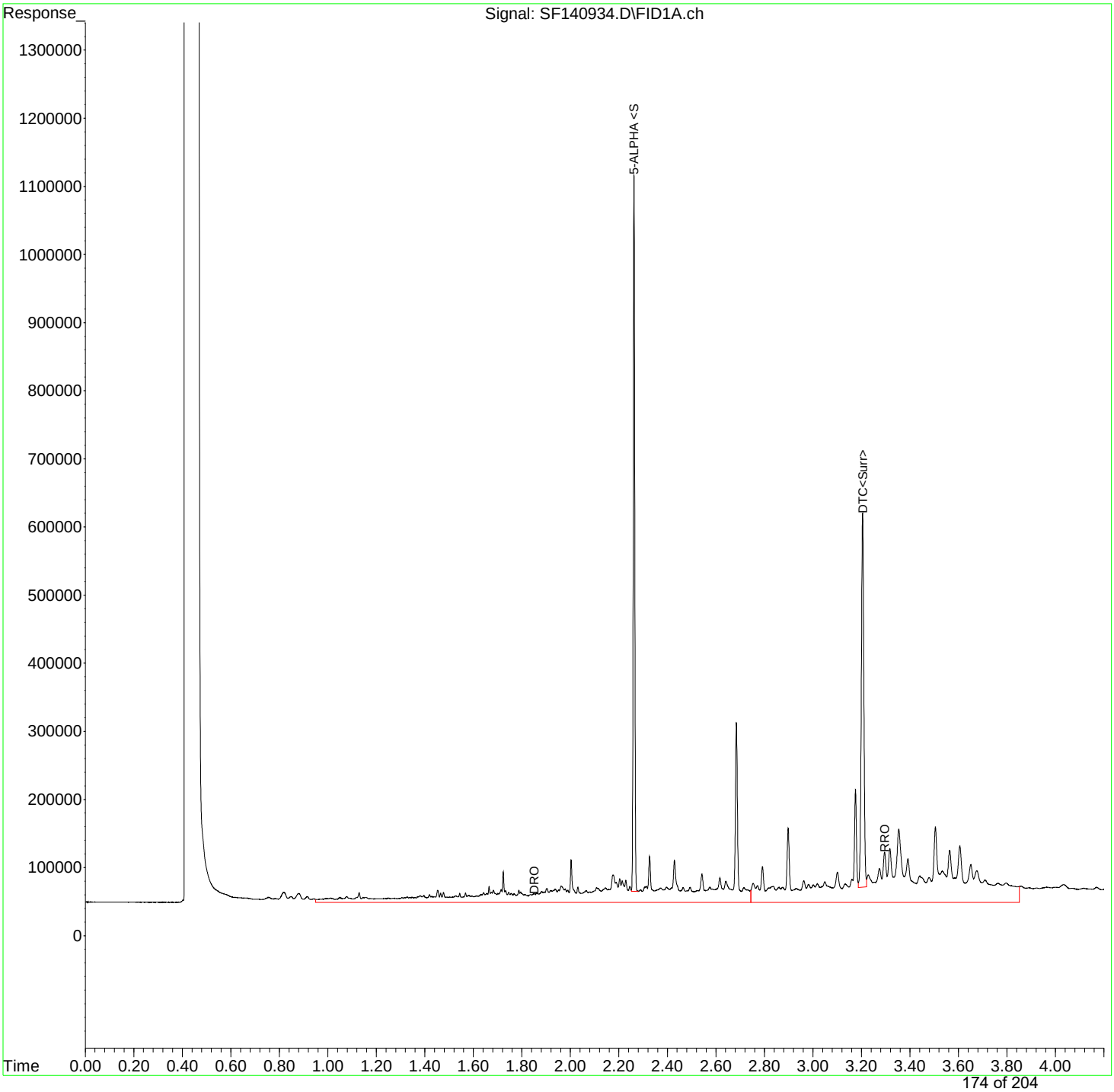
Integration File: autoint1.e
Quant Time: Apr 26 08:56:46 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140936.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:05
Operator : T.L
Sample : 1241686011 SG
Misc :
ALS Vial : 45 Sample Multiplier: 1

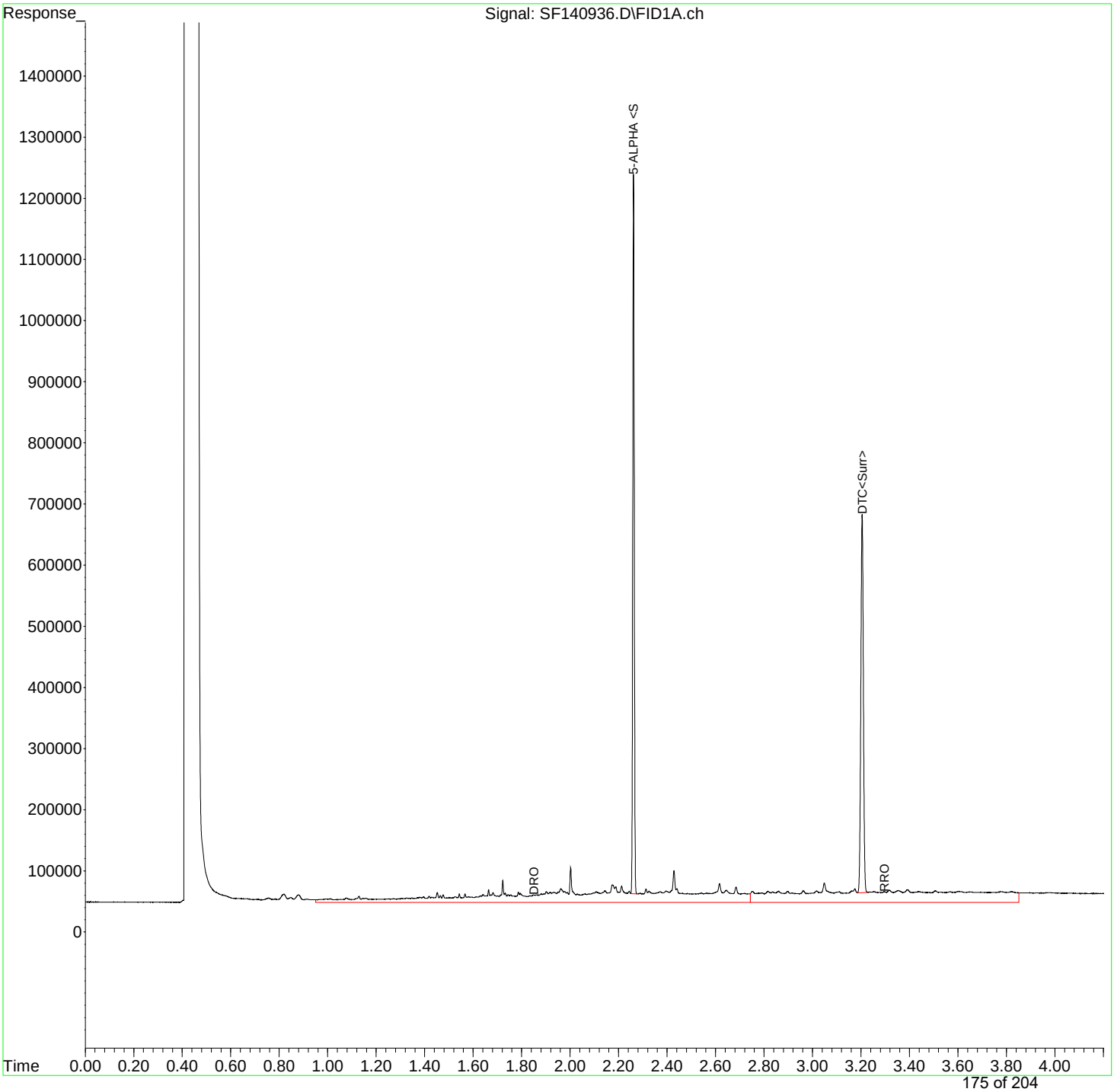
Integration File: autoint1.e
Quant Time: Apr 26 08:56:57 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140938.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:15
Operator : T.L
Sample : 1241686012 SG
Misc :
ALS Vial : 46 Sample Multiplier: 1

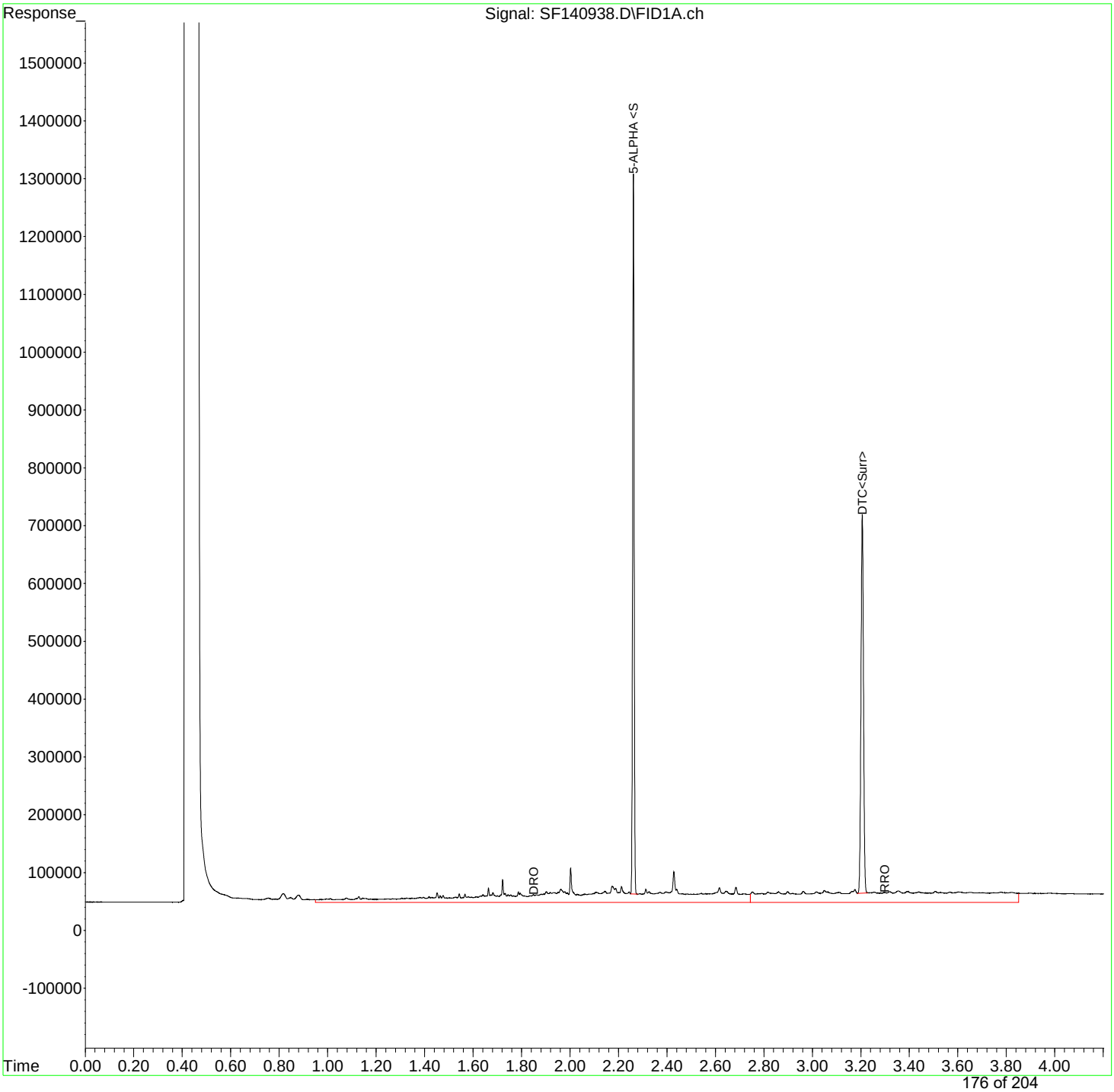
Integration File: autoint1.e
Quant Time: Apr 26 08:57:08 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Khamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140940.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:25
Operator : T.L
Sample : 1241686013 SG
Misc :
ALS Vial : 47 Sample Multiplier: 1

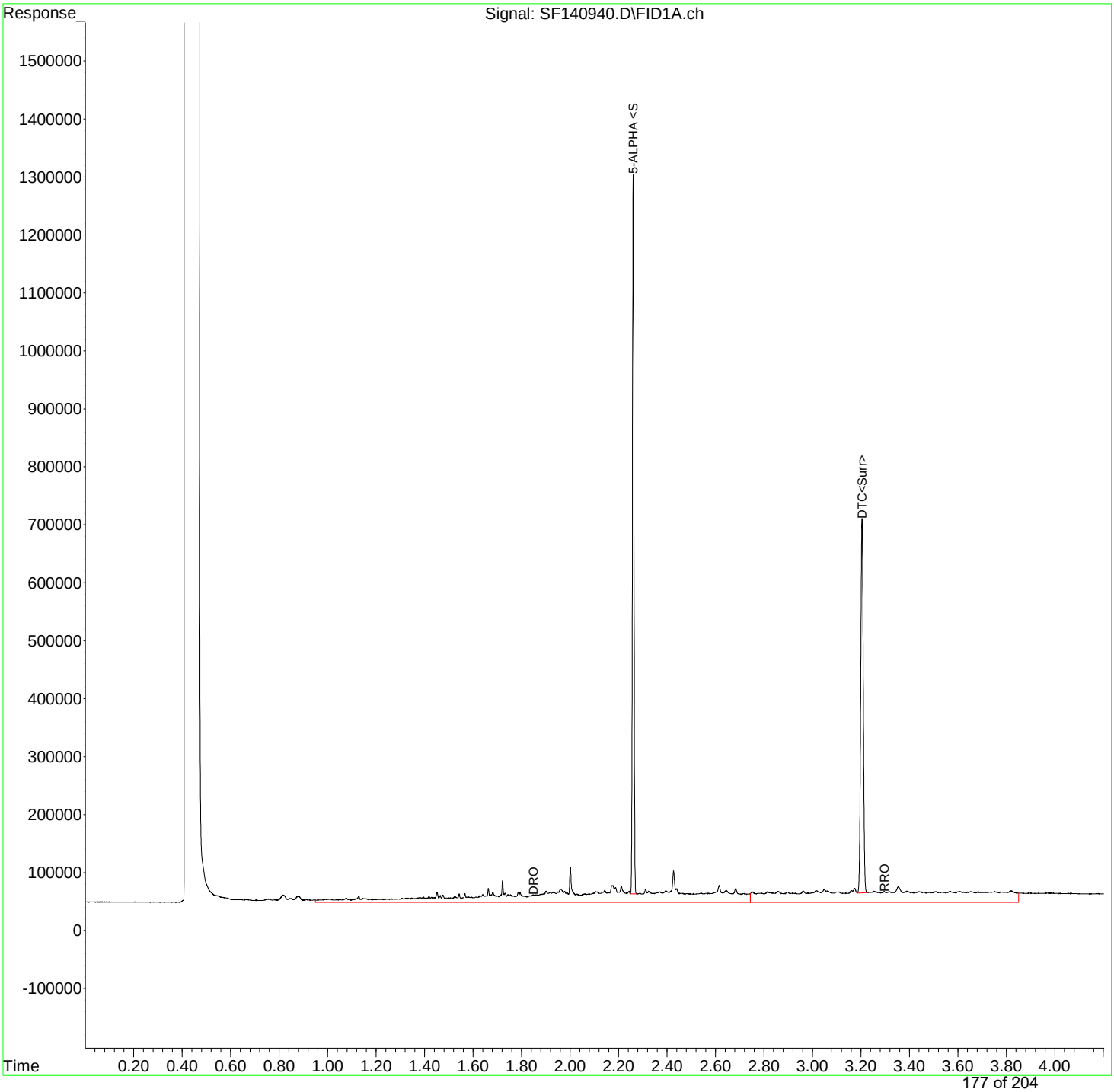
Integration File: autoint1.e
Quant Time: Apr 26 08:57:19 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Shamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140942.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:35
Operator : T.L
Sample : 1241686014 SG
Misc :
ALS Vial : 48 Sample Multiplier: 1

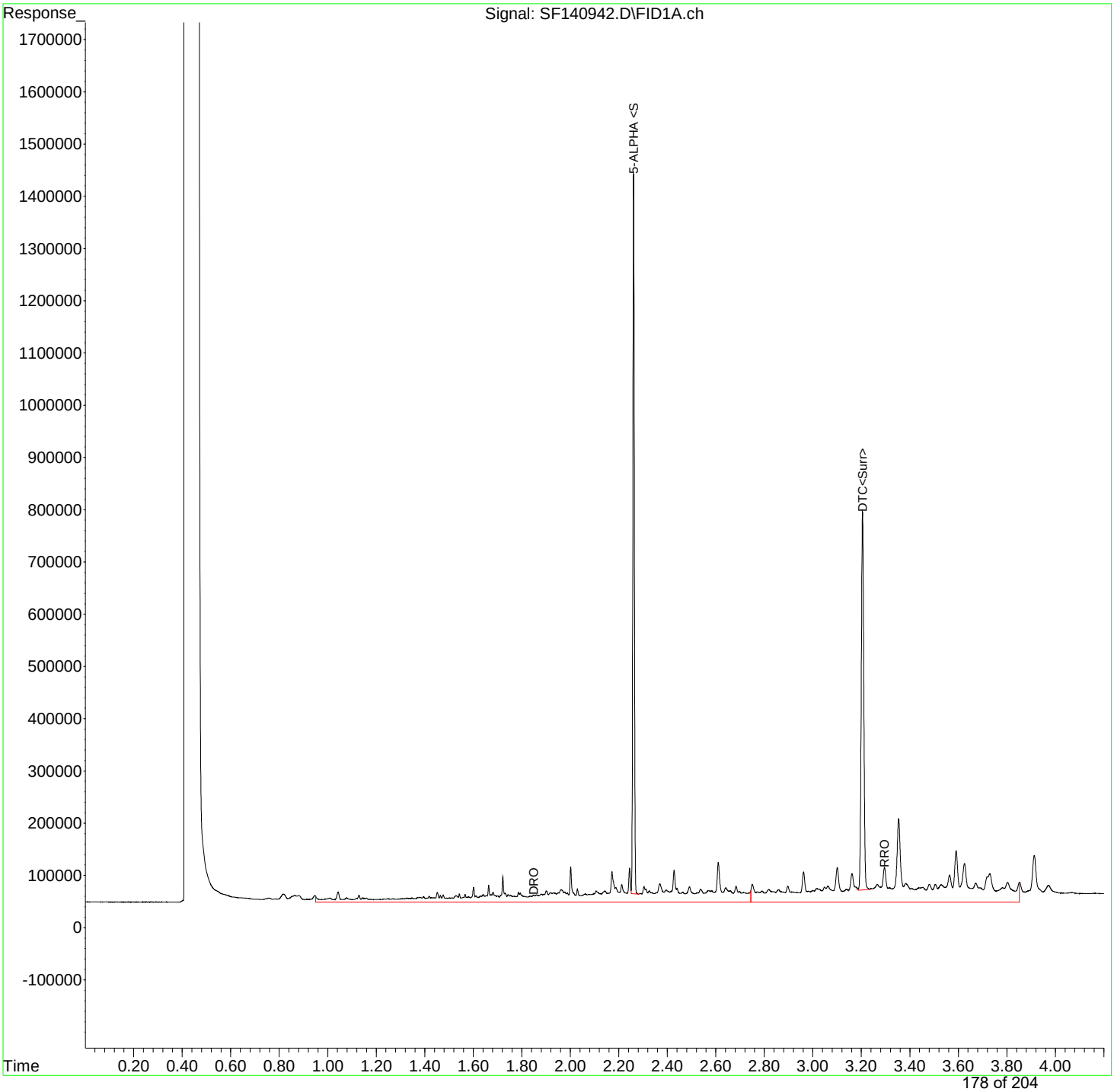
Integration File: autoint1.e
Quant Time: Apr 26 08:57:27 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140944.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:45
Operator : T.L
Sample : 1241686015 SG
Misc :
ALS Vial : 49 Sample Multiplier: 1

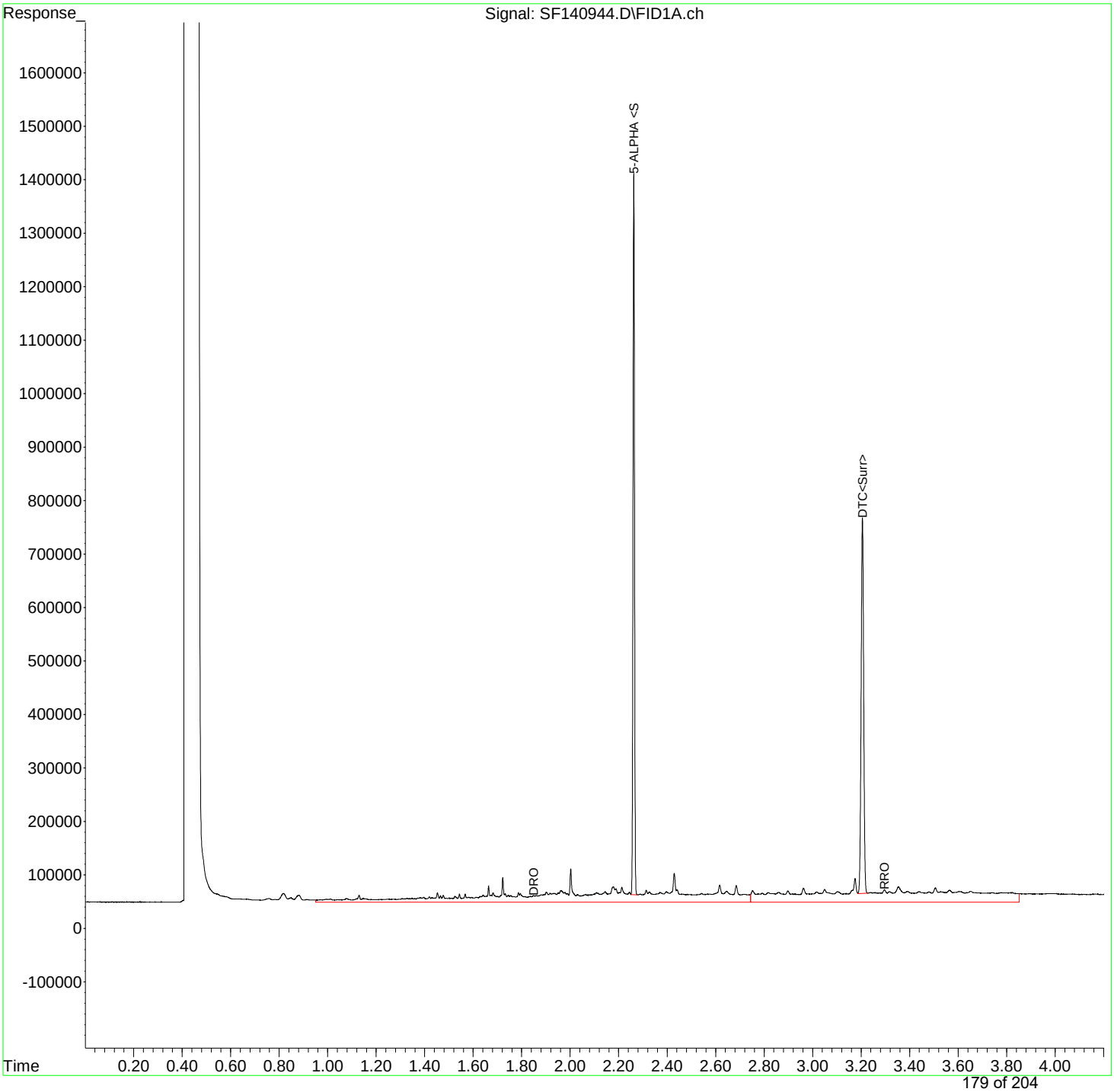
Integration File: autoint1.e
Quant Time: Apr 26 08:57:37 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140946.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 00:55
Operator : T.L
Sample : 1241686016 SG
Misc :
ALS Vial : 50 Sample Multiplier: 1

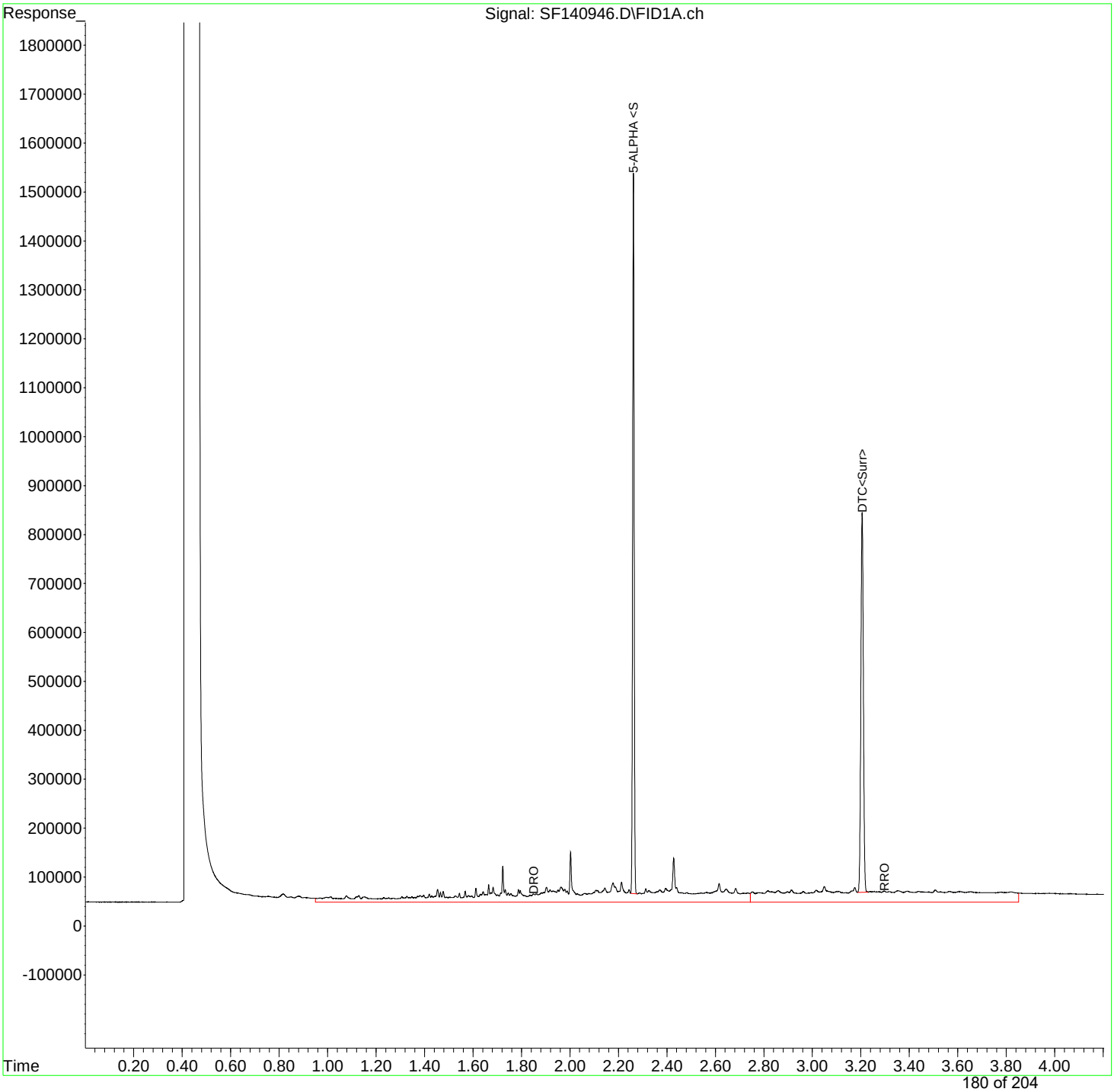
Integration File: autoint1.e
Quant Time: Apr 26 08:57:48 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140948.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:06
Operator : T.L
Sample : 1241686017 SG
Misc :
ALS Vial : 51 Sample Multiplier: 1

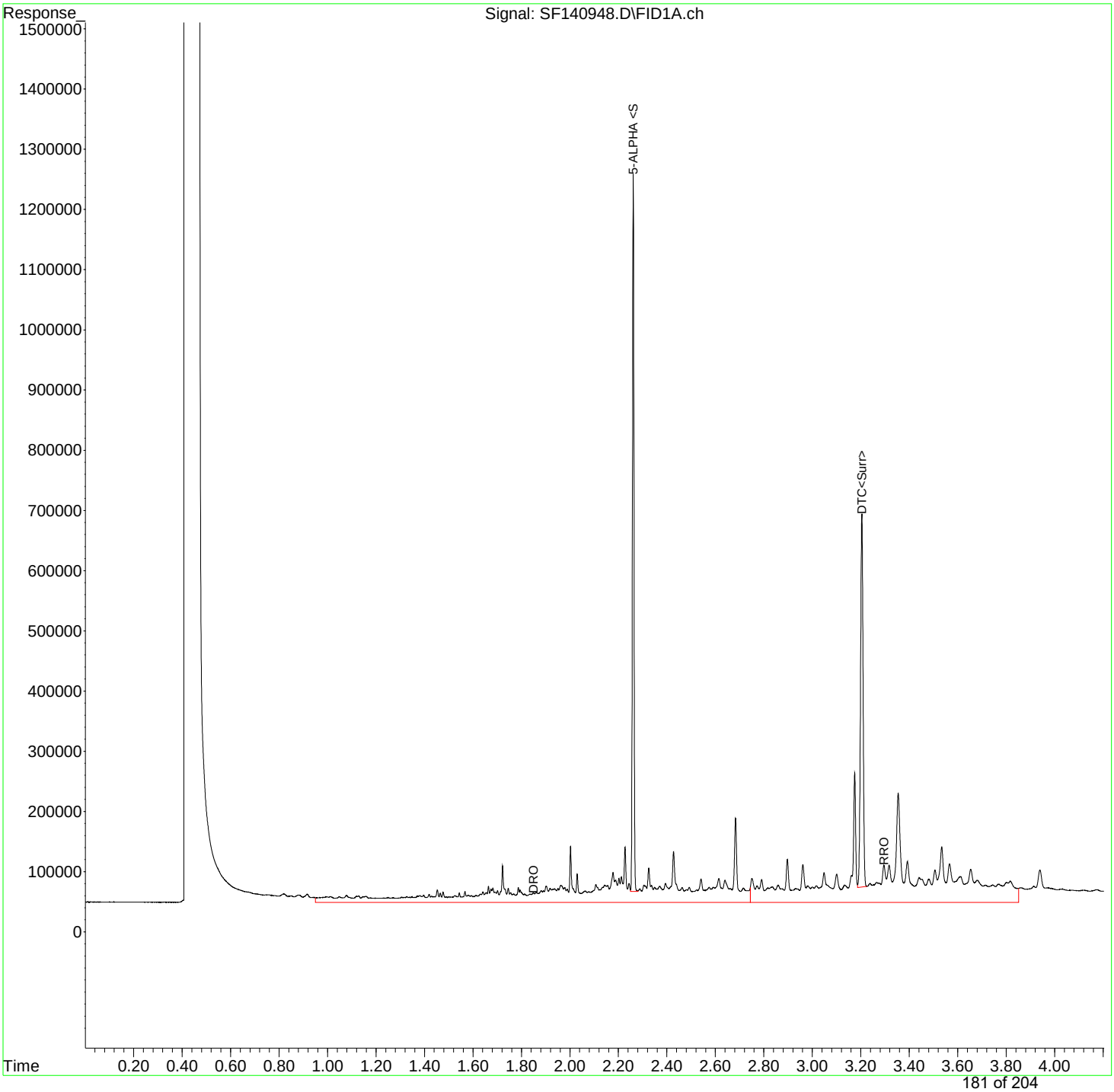
Integration File: autoint1.e
Quant Time: Apr 26 08:58:02 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashidhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140950.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:16
Operator : T.L
Sample : 1241686018 SG
Misc :
ALS Vial : 52 Sample Multiplier: 1

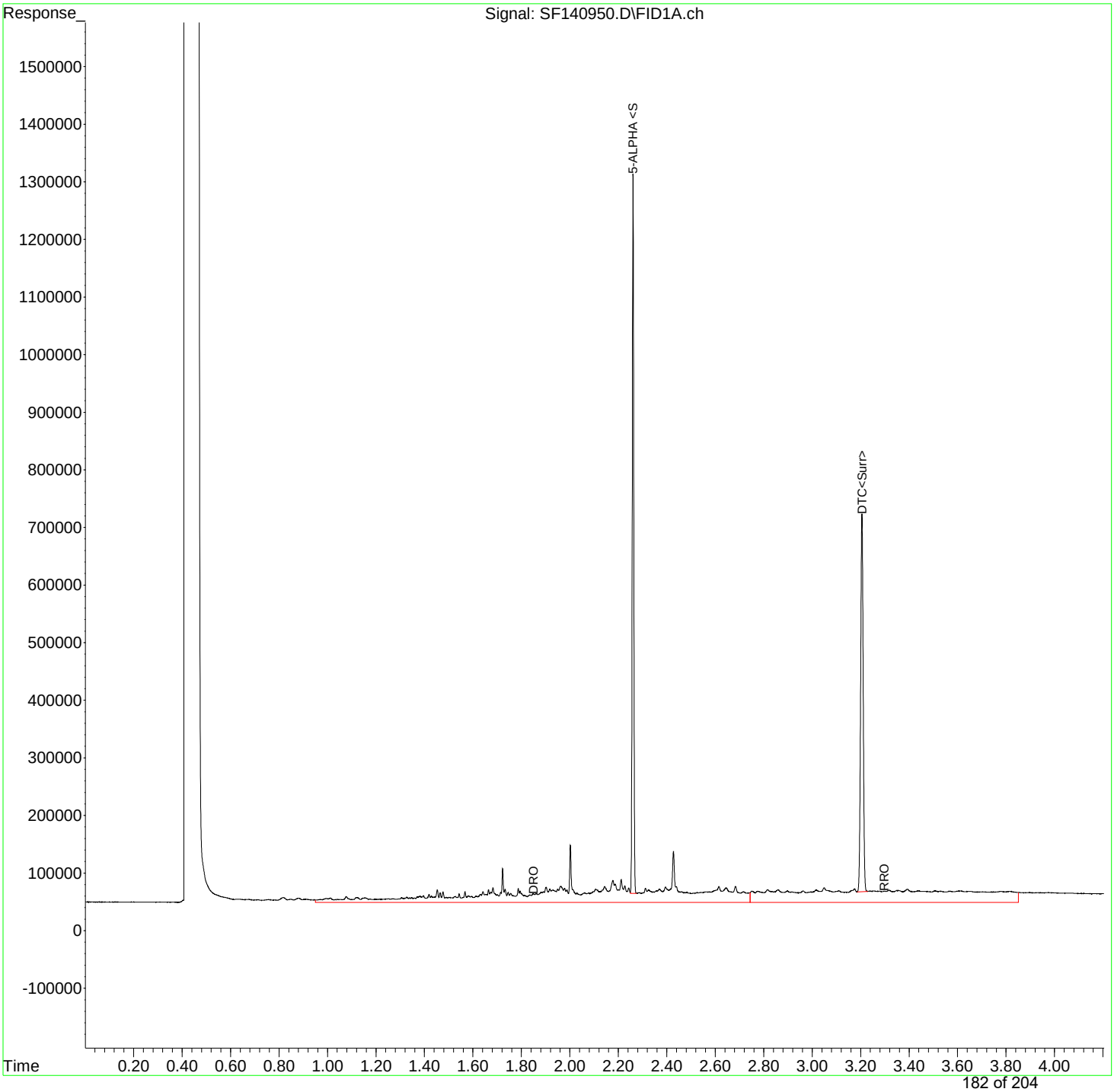
Integration File: autoint1.e
Quant Time: Apr 26 08:58:11 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140952.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:26
Operator : T.L
Sample : 1241686019 SG
Misc :
ALS Vial : 53 Sample Multiplier: 1

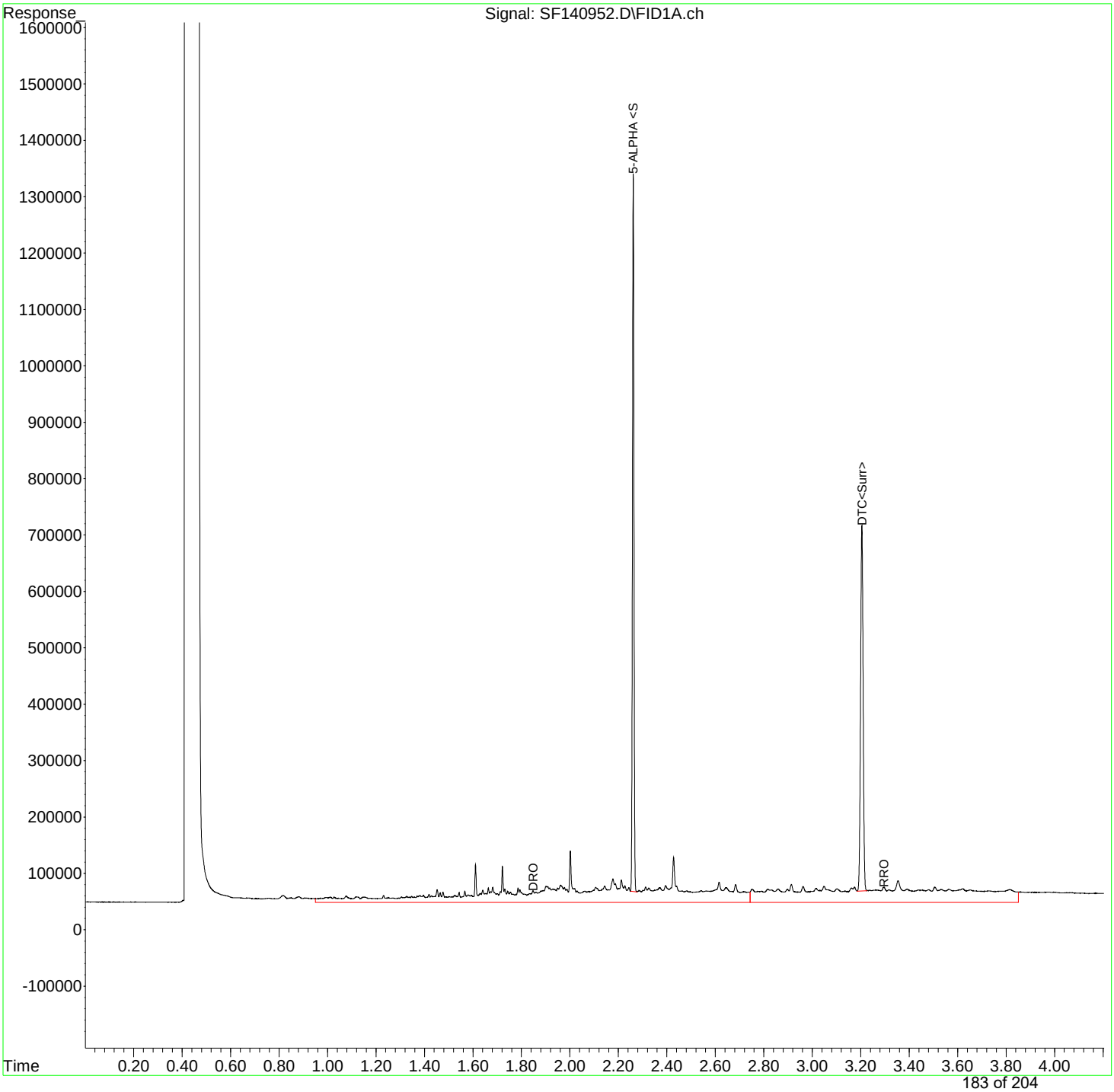
Integration File: autoint1.e
Quant Time: Apr 26 08:58:22 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140954.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:36
Operator : T.L
Sample : 1241686020 SG
Misc :
ALS Vial : 54 Sample Multiplier: 1

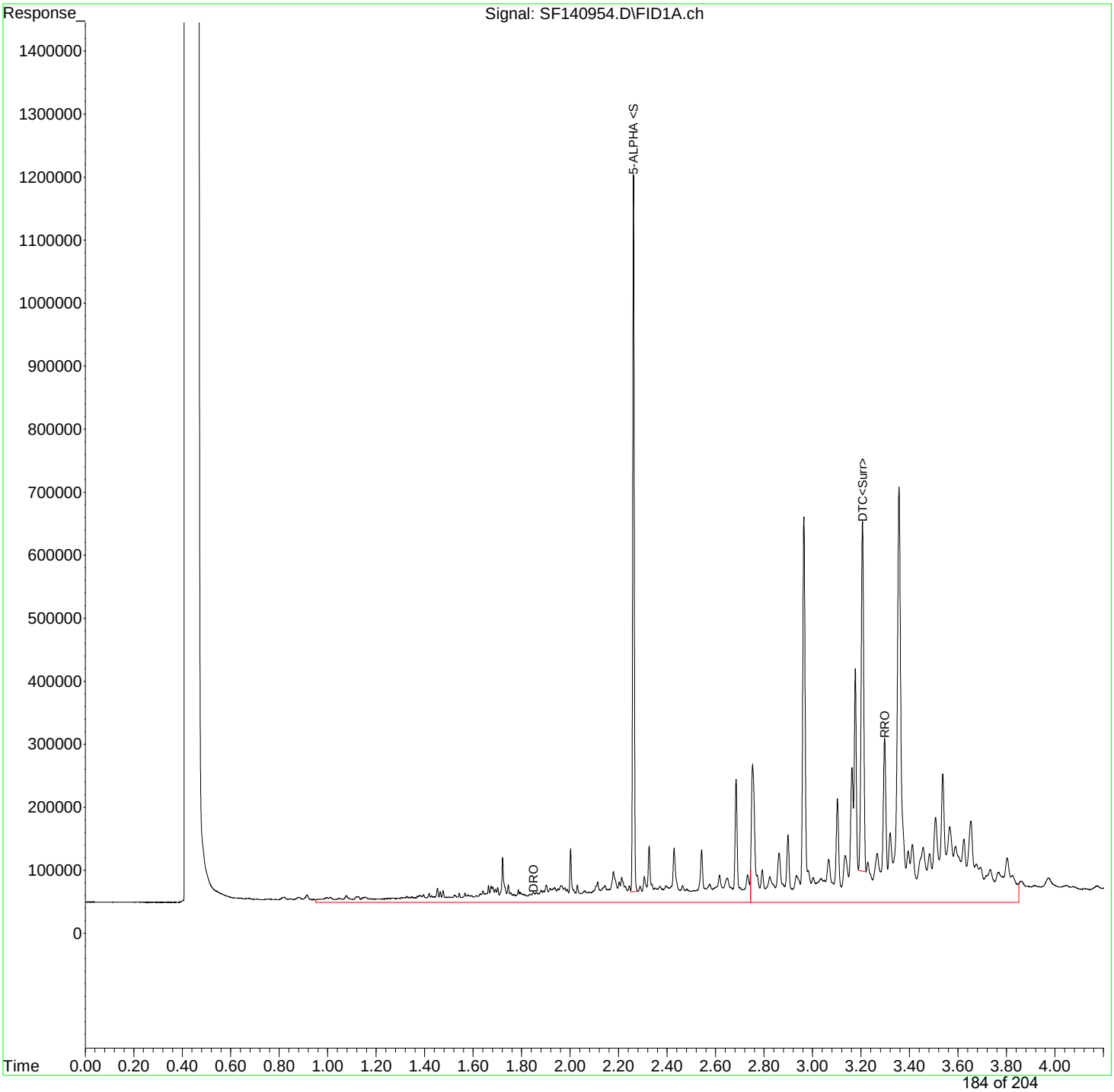
Integration File: autoint1.e
Quant Time: Apr 26 08:58:58 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu

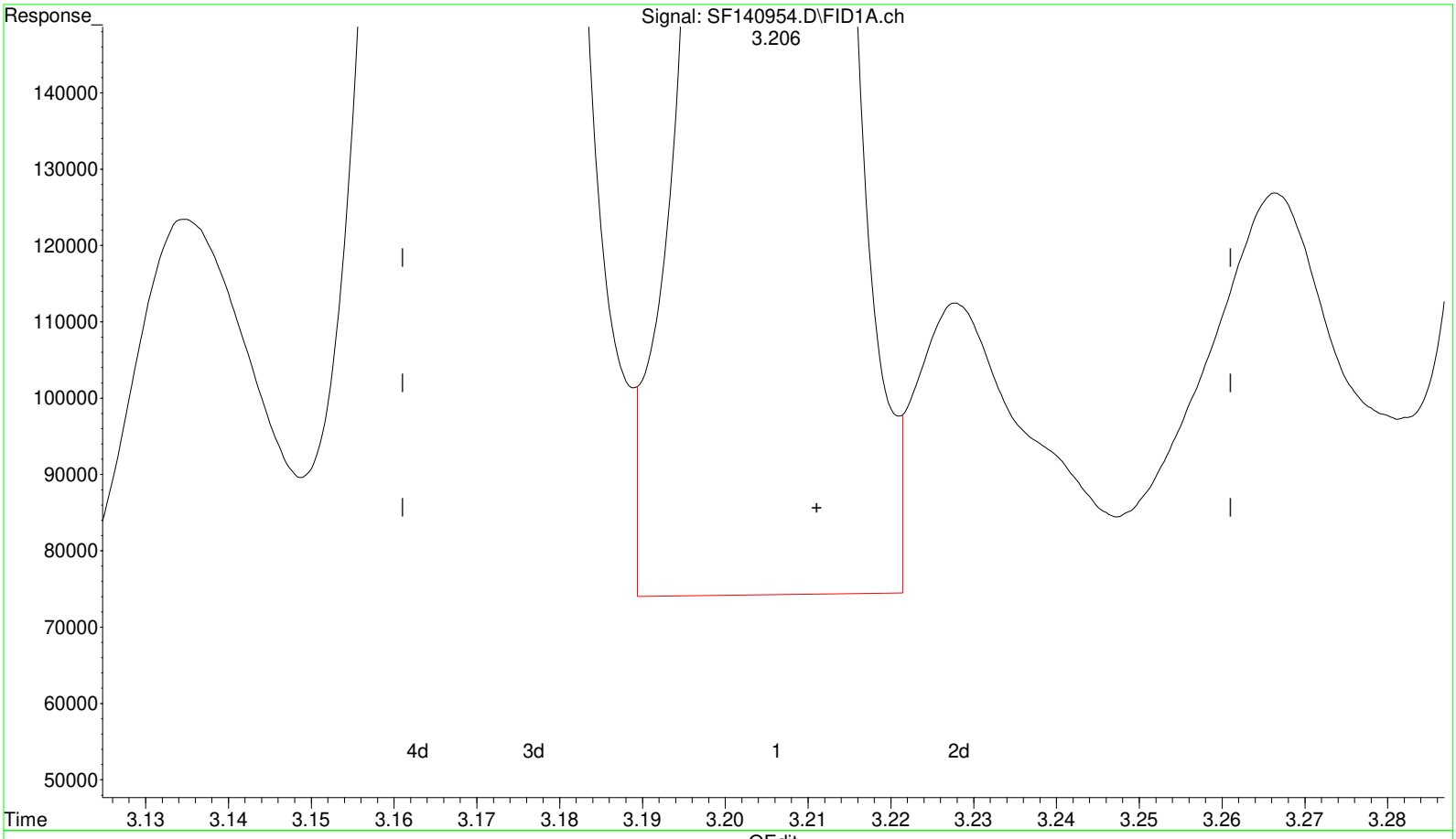


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140954.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:36
Operator : T.L
Sample : 1241686020 SG
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:58:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.206min 82.416 µg/mL

response 4530061

O-BLC

Apr 26, 2024

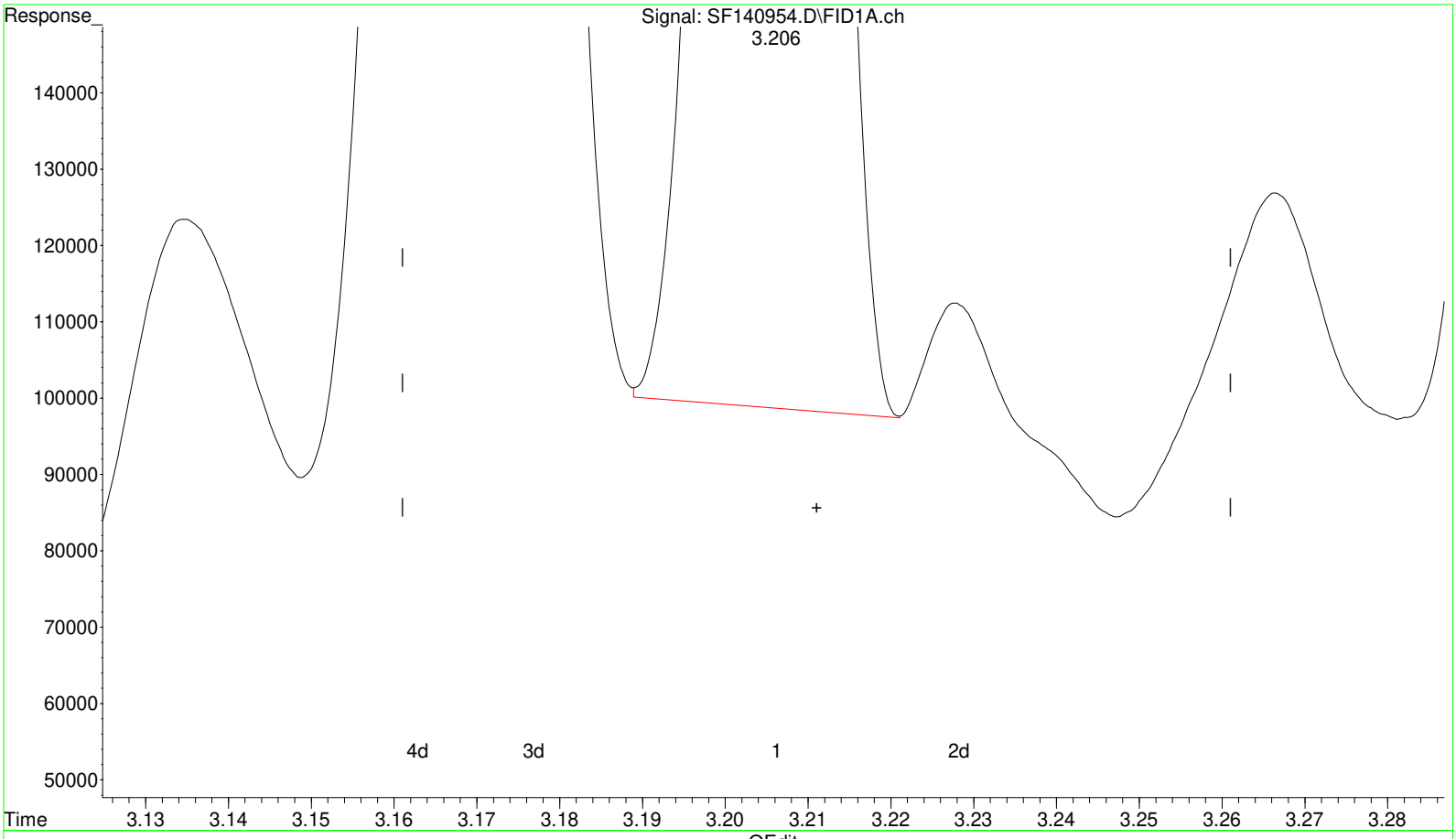
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04252024A\
Data File : SF140954.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 1:36
Operator : T.L
Sample : 1241686020 SG
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:58:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418D.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.206min 73.835 µg/mL m

response 4058379

M-BLC
Apr 26, 2024

Tashi Lhamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140907.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 21:43
Operator : T.L
Sample : 1241686021 SG
Misc :
ALS Vial : 97 Sample Multiplier: 1

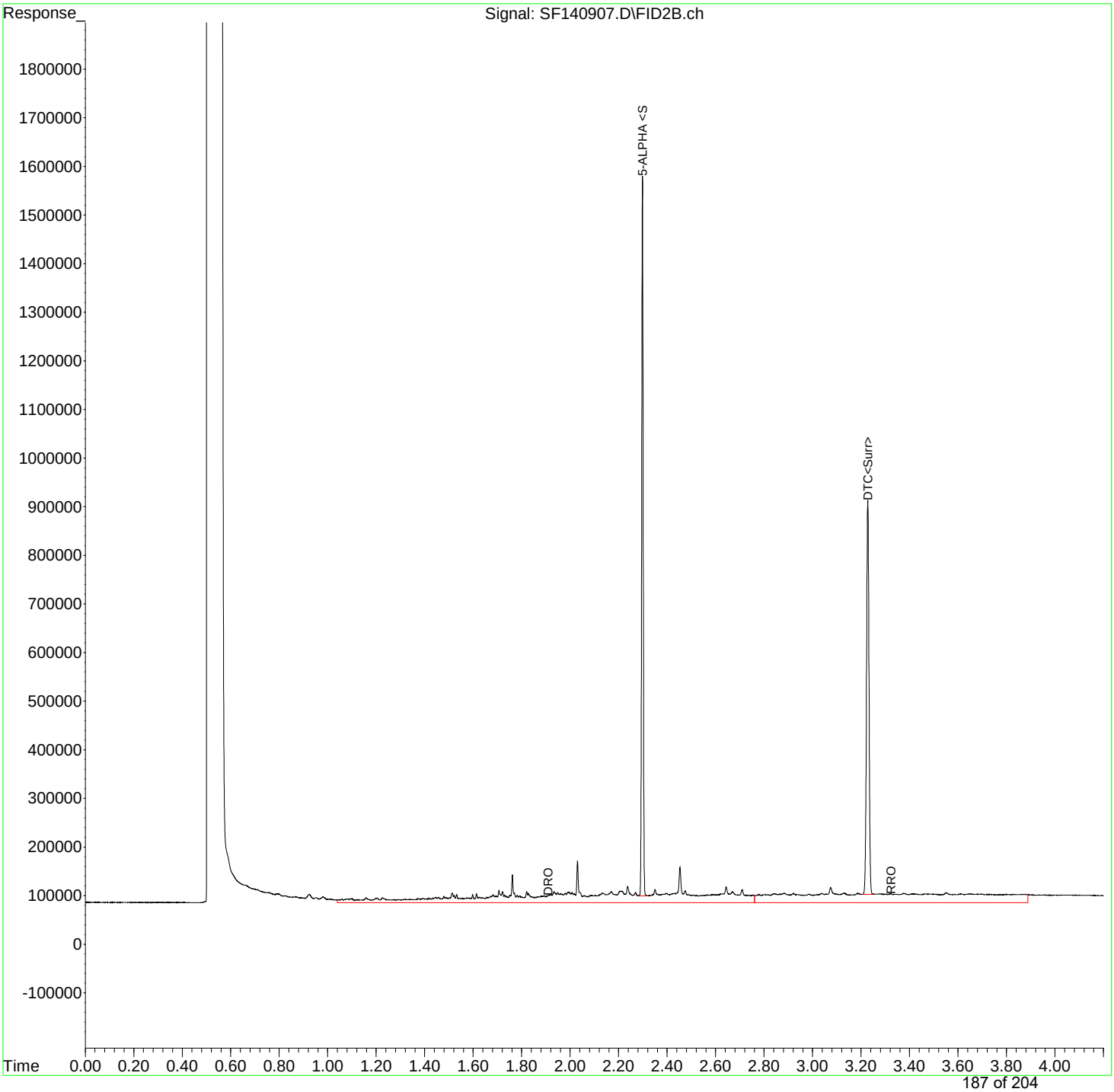
Integration File: autoint1.e
Quant Time: Apr 26 08:44:07 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140909.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 21:53
Operator : T.L
Sample : 1241686022 PS SG
Misc :
ALS Vial : 98 Sample Multiplier: 1

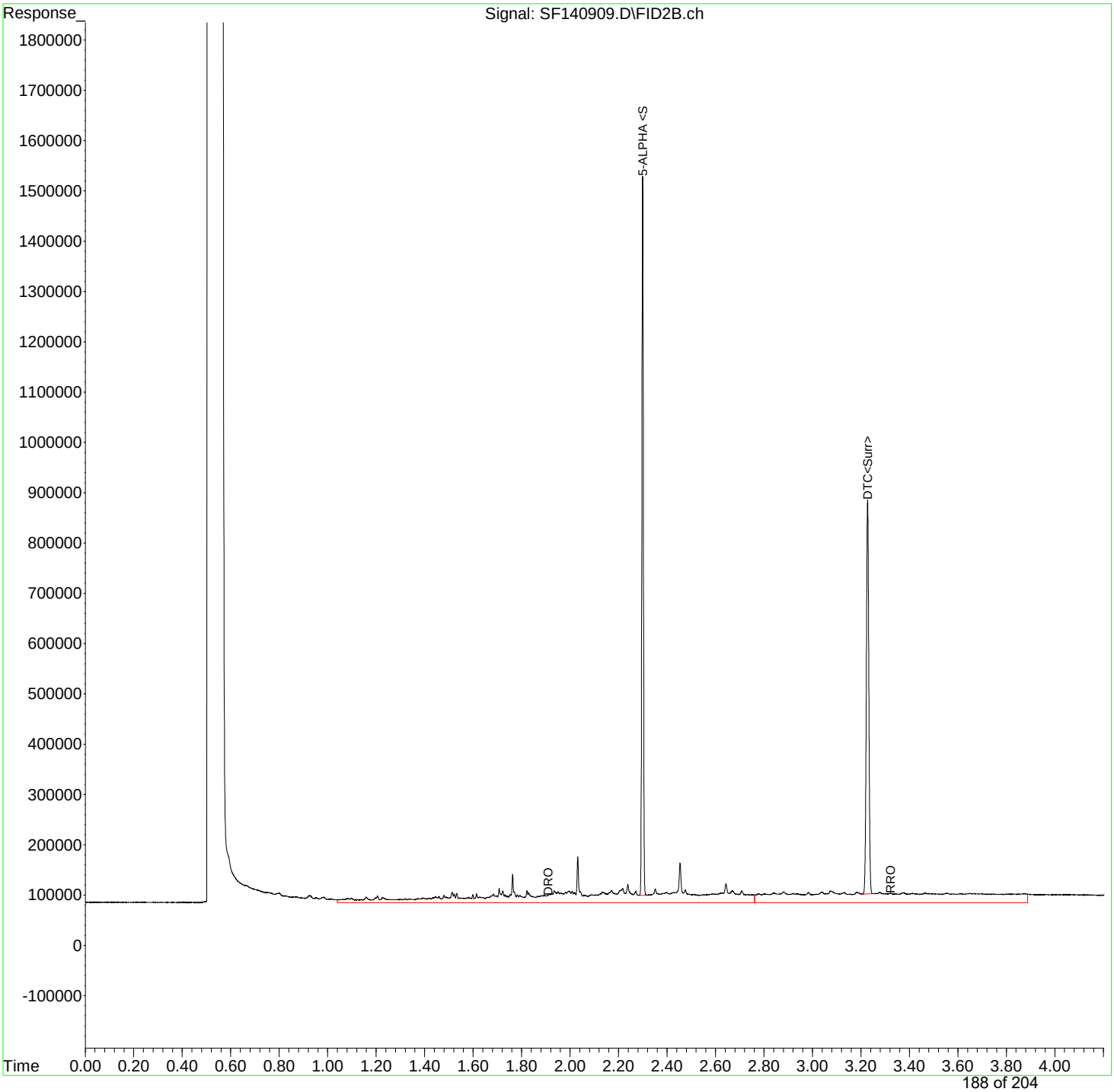
Integration File: autoint1.e
Quant Time: Apr 26 08:44:20 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140915.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 22:24
Operator : T.L
Sample : 1241686025 SG
Misc :
ALS Vial : 101 Sample Multiplier: 1

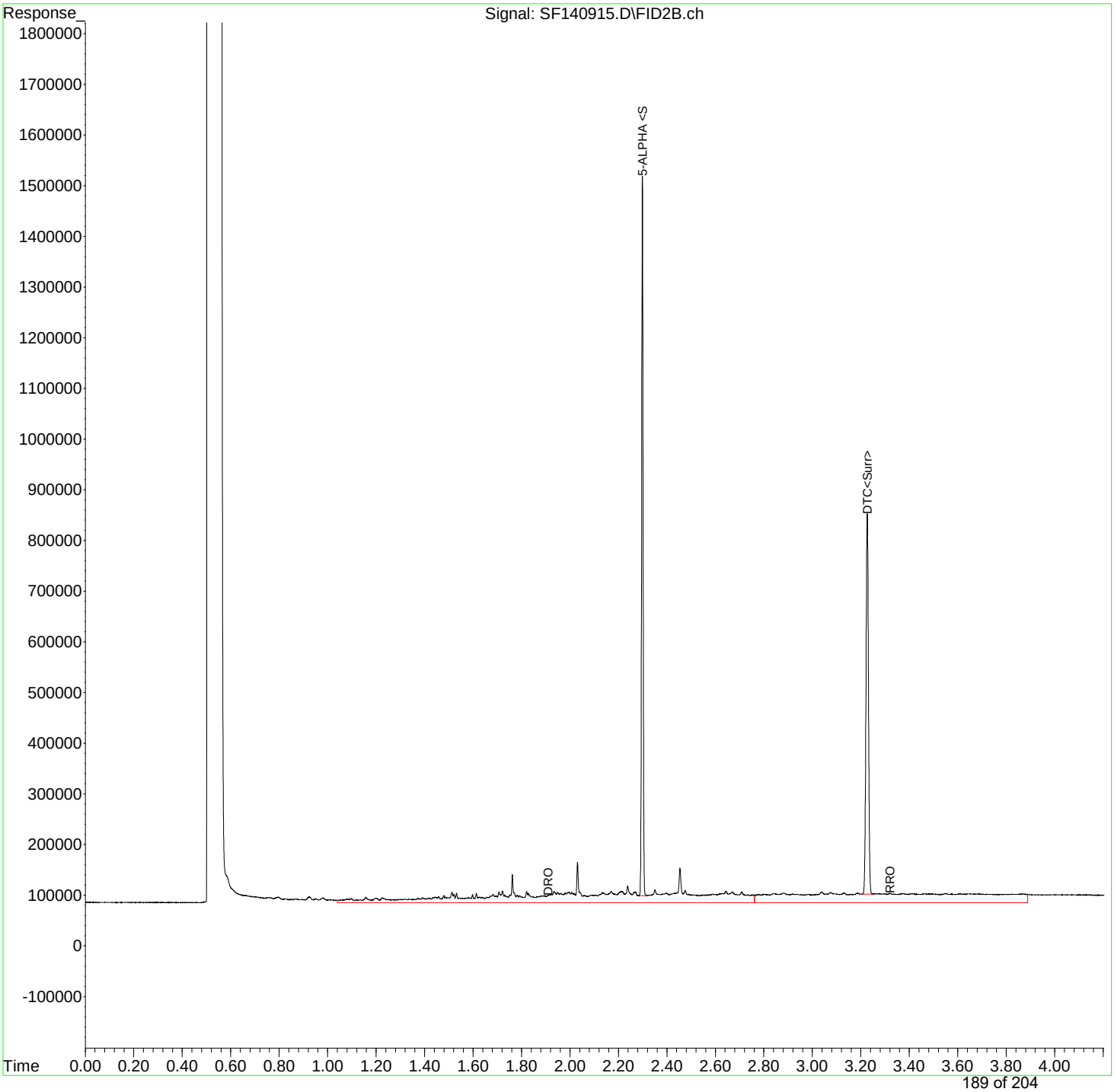
Integration File: autoint1.e
Quant Time: Apr 26 08:45:38 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Zashid Hamu



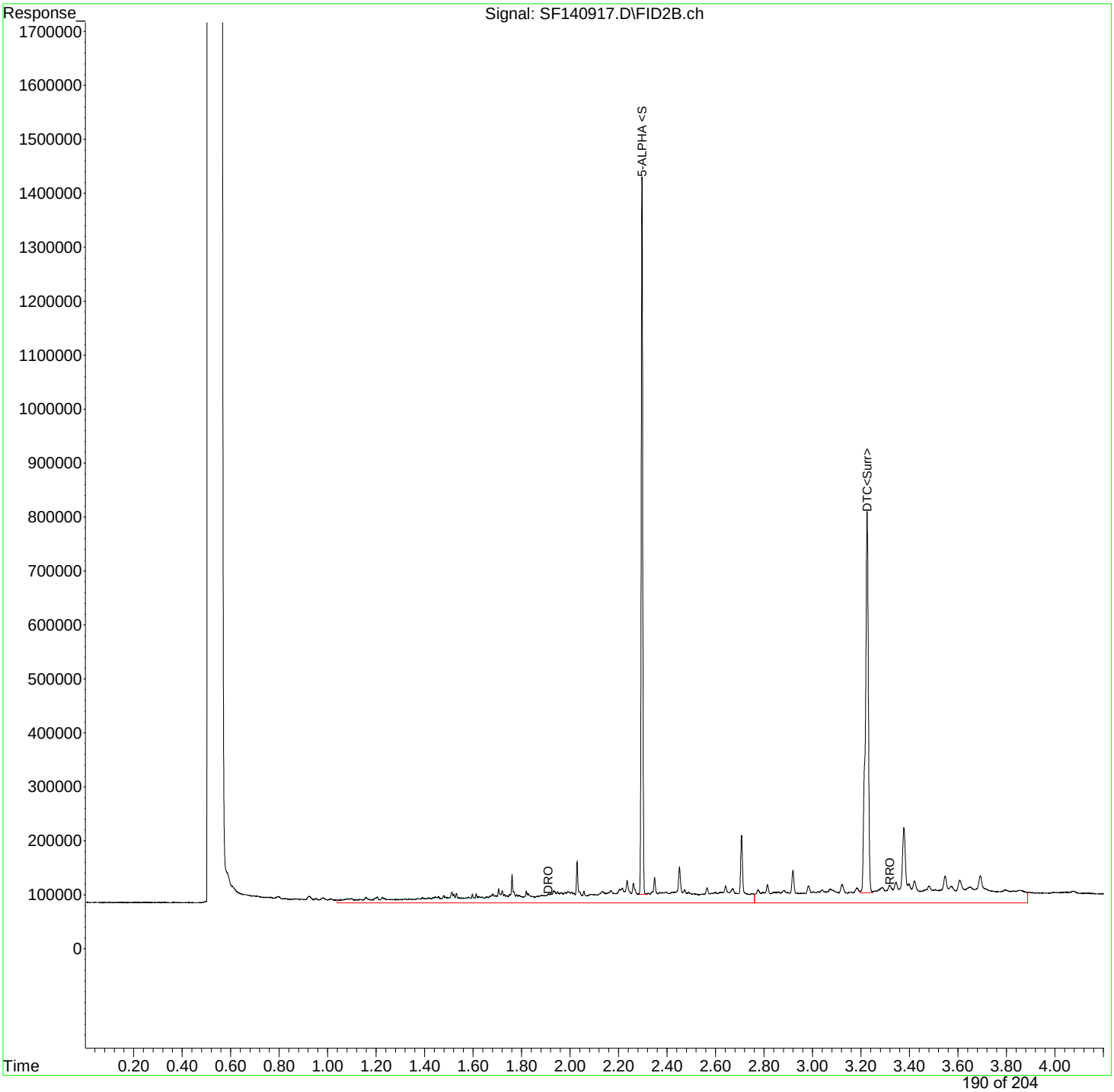
Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140917.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 22:34
Operator : T.L
Sample : 1241686026 SG
Misc :
ALS Vial : 102 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:46:17 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown. Apr 25, 2024

Tashid Hamu



Quantitation Report (QT Reviewed)

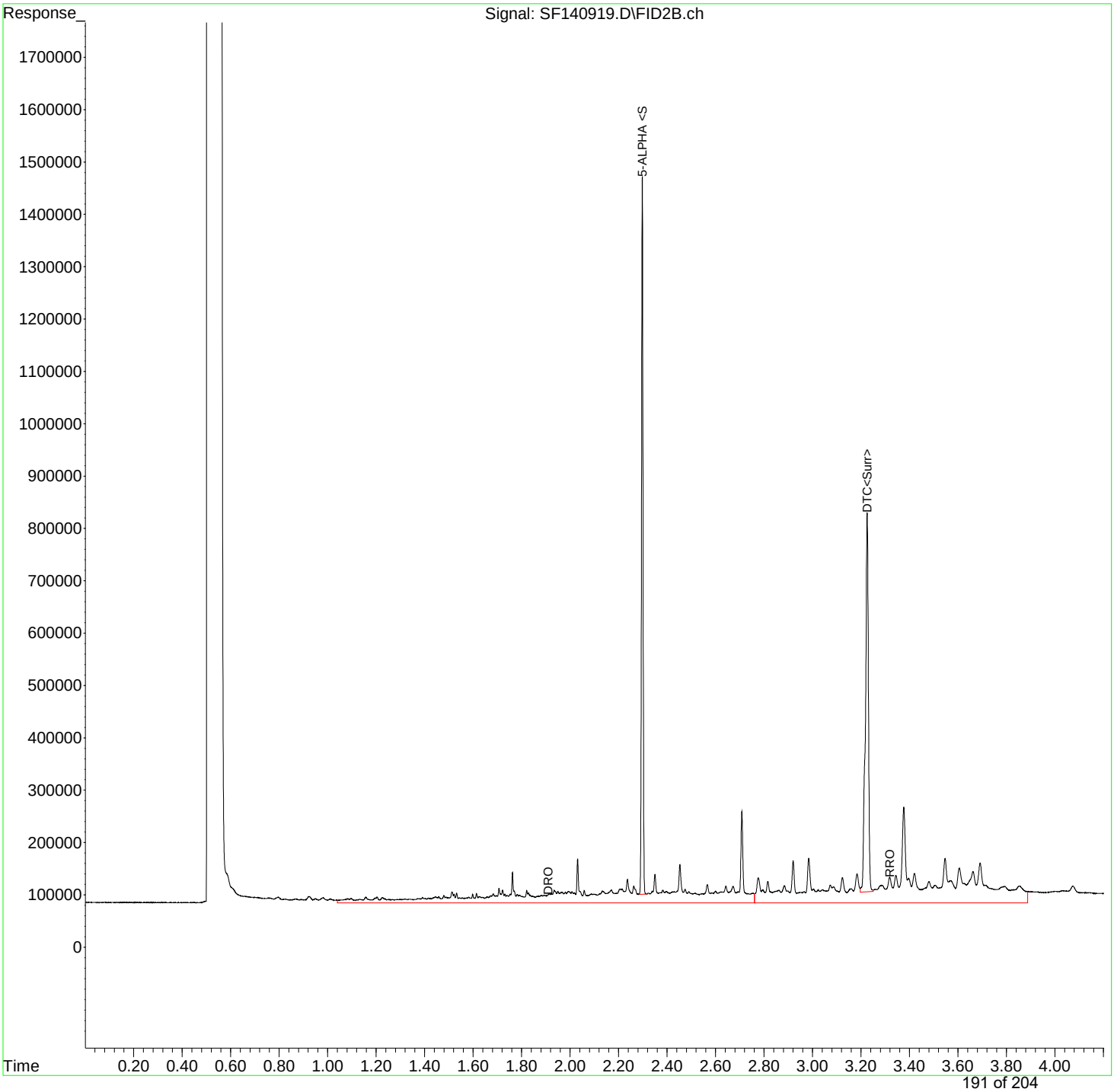
Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140919.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 22:44
Operator : T.L
Sample : 1241686027 SG
Misc :
ALS Vial : 103 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 26 08:46:35 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown. Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140921.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 22:54
Operator : T.L
Sample : 1241686028 SG
Misc :
ALS Vial : 104 Sample Multiplier: 1

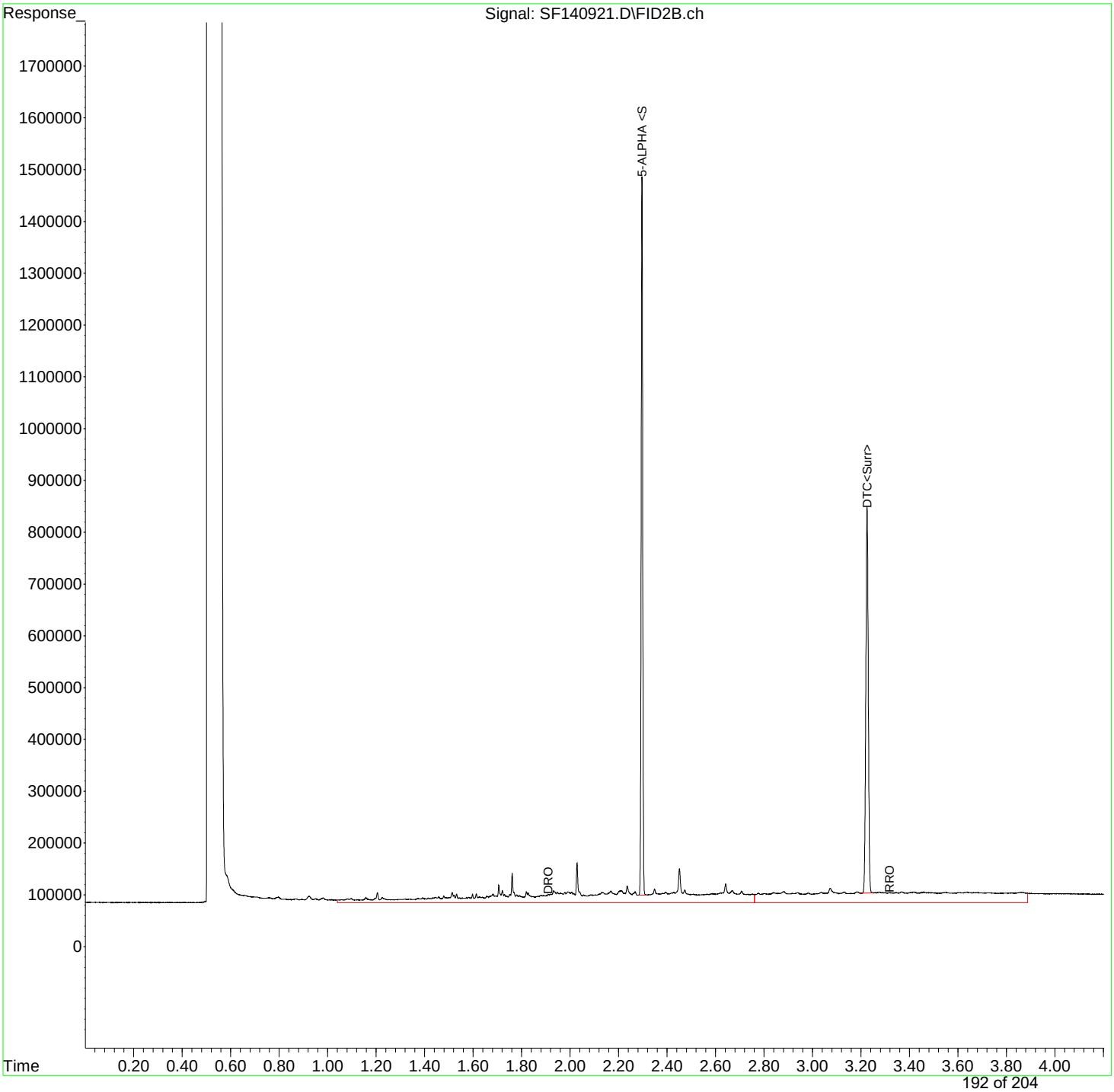
Integration File: autoint1.e
Quant Time: Apr 26 08:47:06 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140923.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 23:04
Operator : T.L
Sample : 1241686029 SG
Misc :
ALS Vial : 105 Sample Multiplier: 1

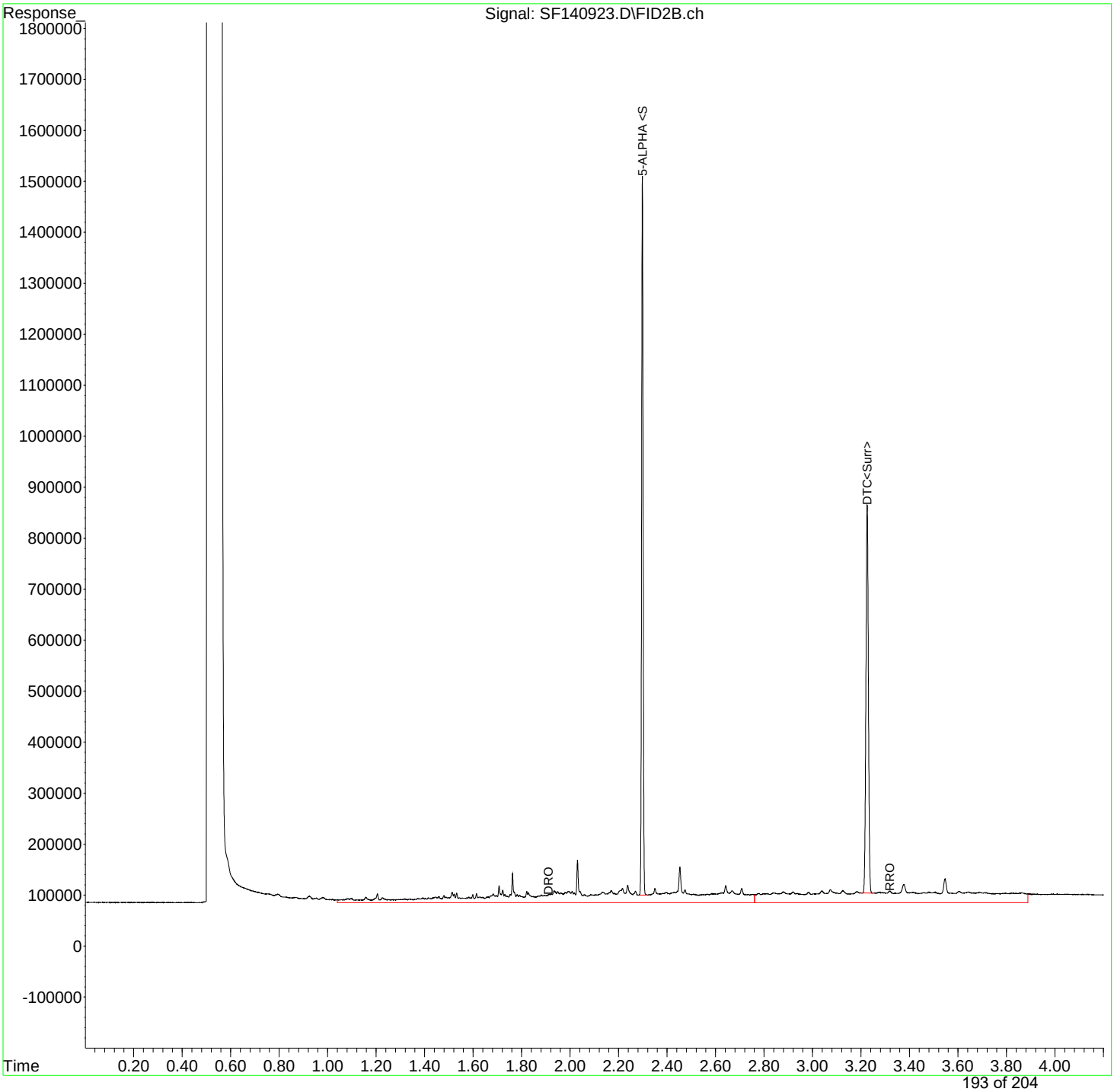
Integration File: autoint1.e
Quant Time: Apr 26 08:47:34 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140925.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 23:14
Operator : T.L
Sample : 1241686030 SG
Misc :
ALS Vial : 106 Sample Multiplier: 1

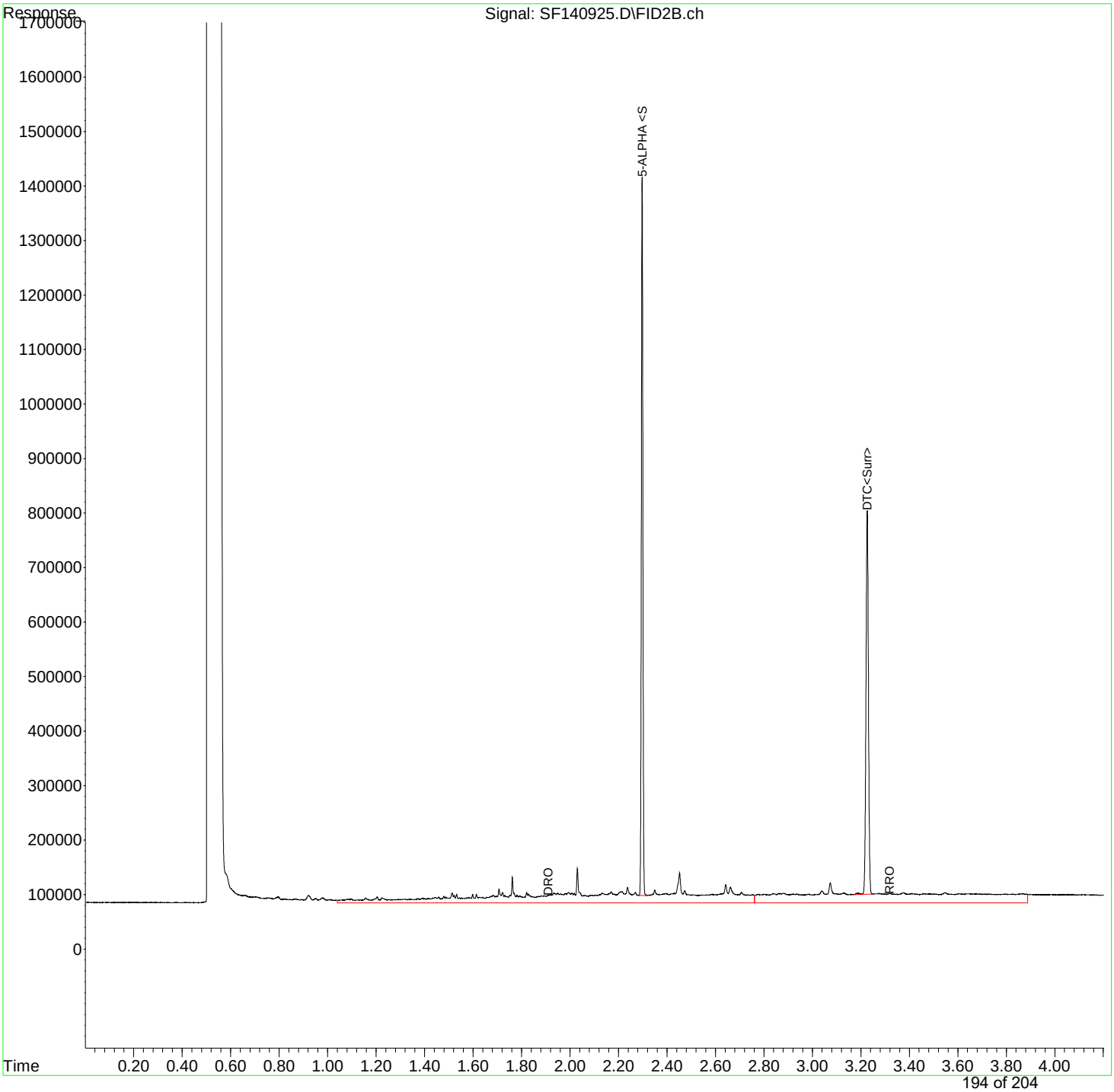
Integration File: autoint1.e
Quant Time: Apr 26 08:47:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140931.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 23:44
Operator : T.L
Sample : 1241686031 SG
Misc :
ALS Vial : 107 Sample Multiplier: 1

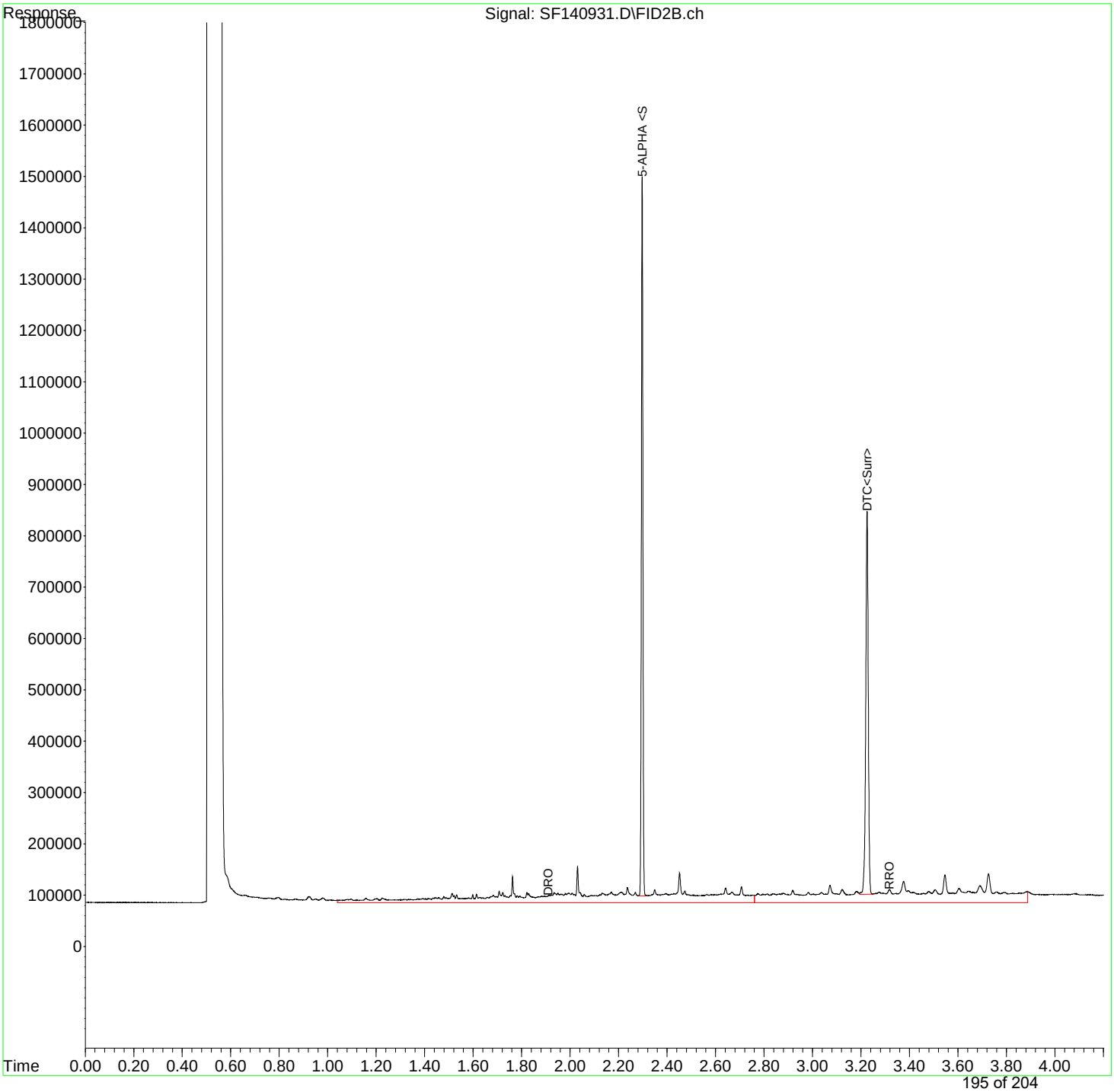
Integration File: autoint1.e
Quant Time: Apr 26 08:48:43 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140933.D
Signal(s) : FID2B.ch
Acq On : 25 Apr 2024 23:55
Operator : T.L
Sample : 1241686032 SG
Misc :
ALS Vial : 108 Sample Multiplier: 1

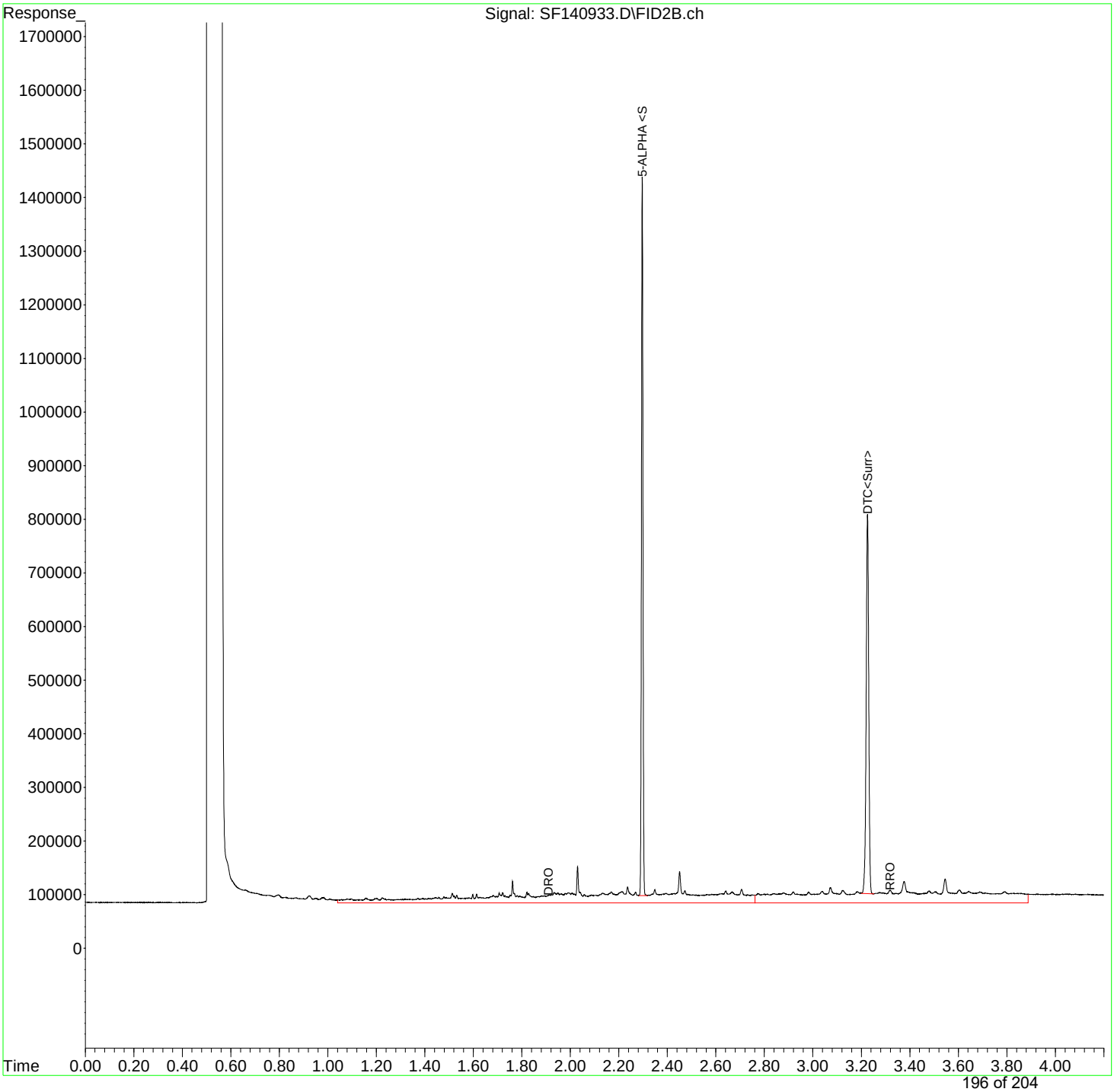
Integration File: autoint1.e
Quant Time: Apr 26 08:48:54 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140935.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:05
Operator : T.L
Sample : 1241686033 SG
Misc :
ALS Vial : 109 Sample Multiplier: 1

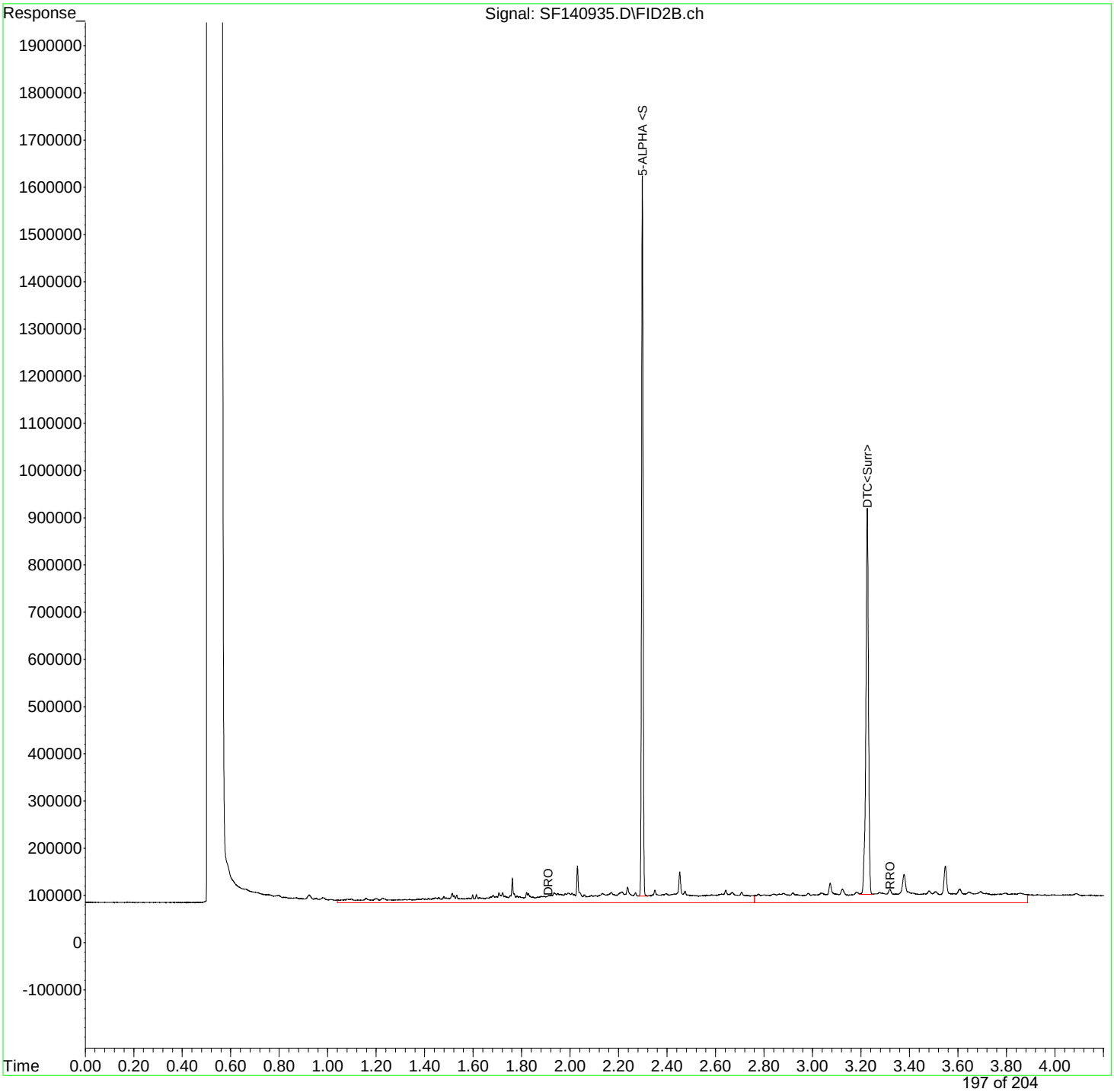
Integration File: autoint1.e
Quant Time: Apr 26 08:49:07 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140937.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:15
Operator : T.L
Sample : 1241686034 SG
Misc :
ALS Vial : 110 Sample Multiplier: 1

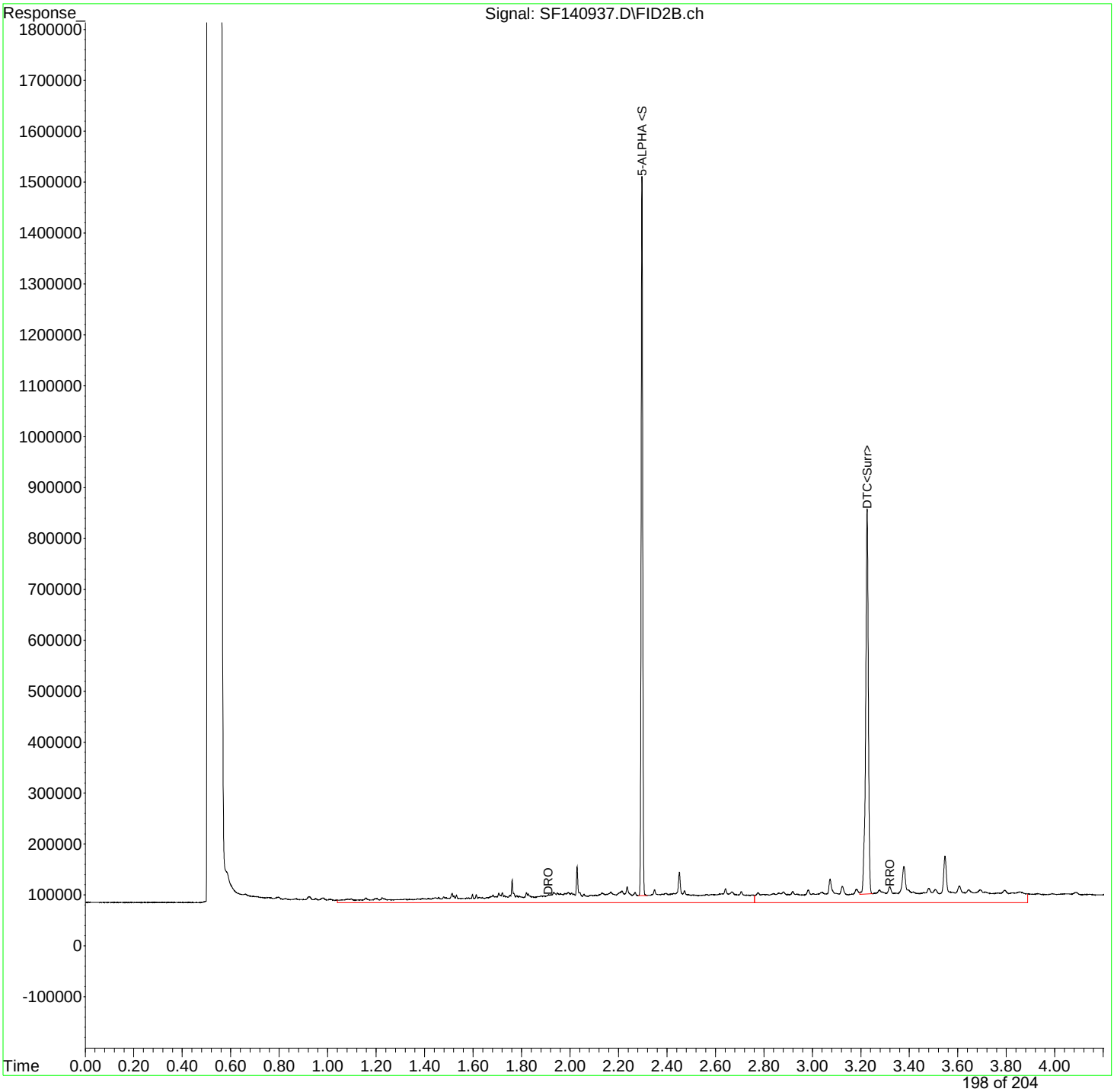
Integration File: autoint1.e
Quant Time: Apr 26 08:49:31 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140939.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:25
Operator : T.L
Sample : 1241686035 SG
Misc :
ALS Vial : 111 Sample Multiplier: 1

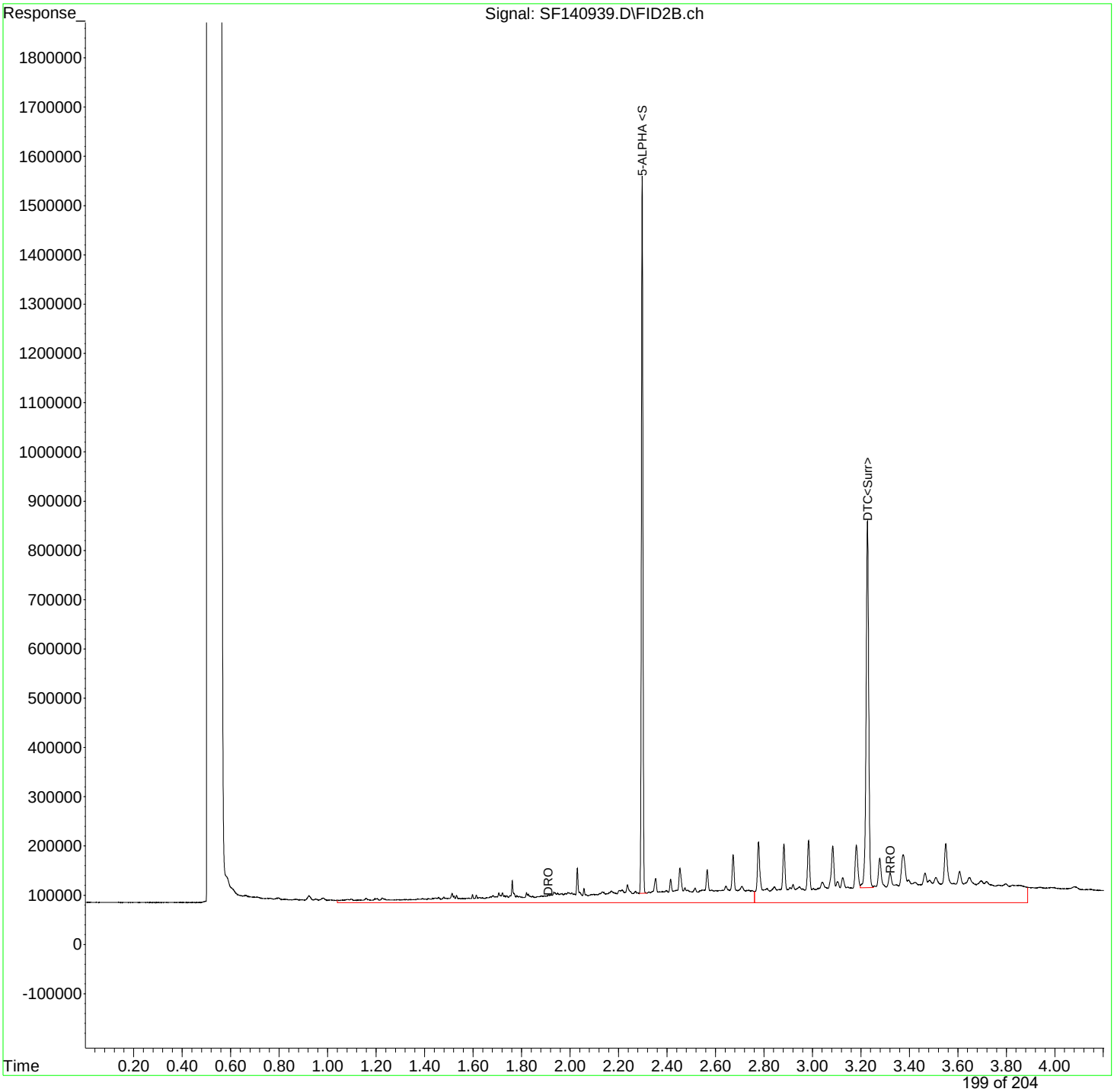
Integration File: autoint1.e
Quant Time: Apr 26 08:49:43 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140941.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:35
Operator : T.L
Sample : 1241686036 SG
Misc :
ALS Vial : 112 Sample Multiplier: 1

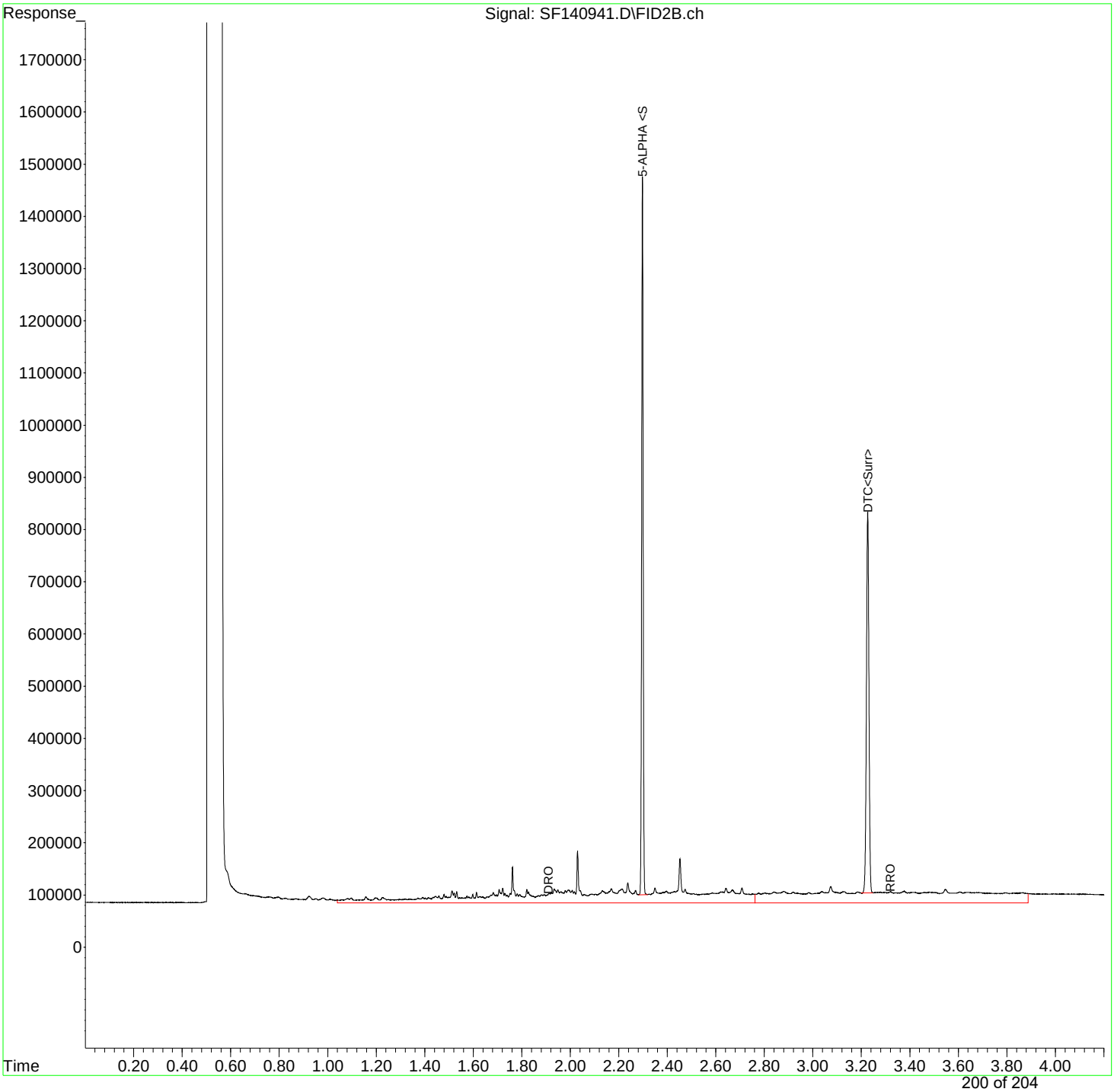
Integration File: autoint1.e
Quant Time: Apr 26 08:49:56 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140943.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:45
Operator : T.L
Sample : 1241686037 SG
Misc :
ALS Vial : 113 Sample Multiplier: 1

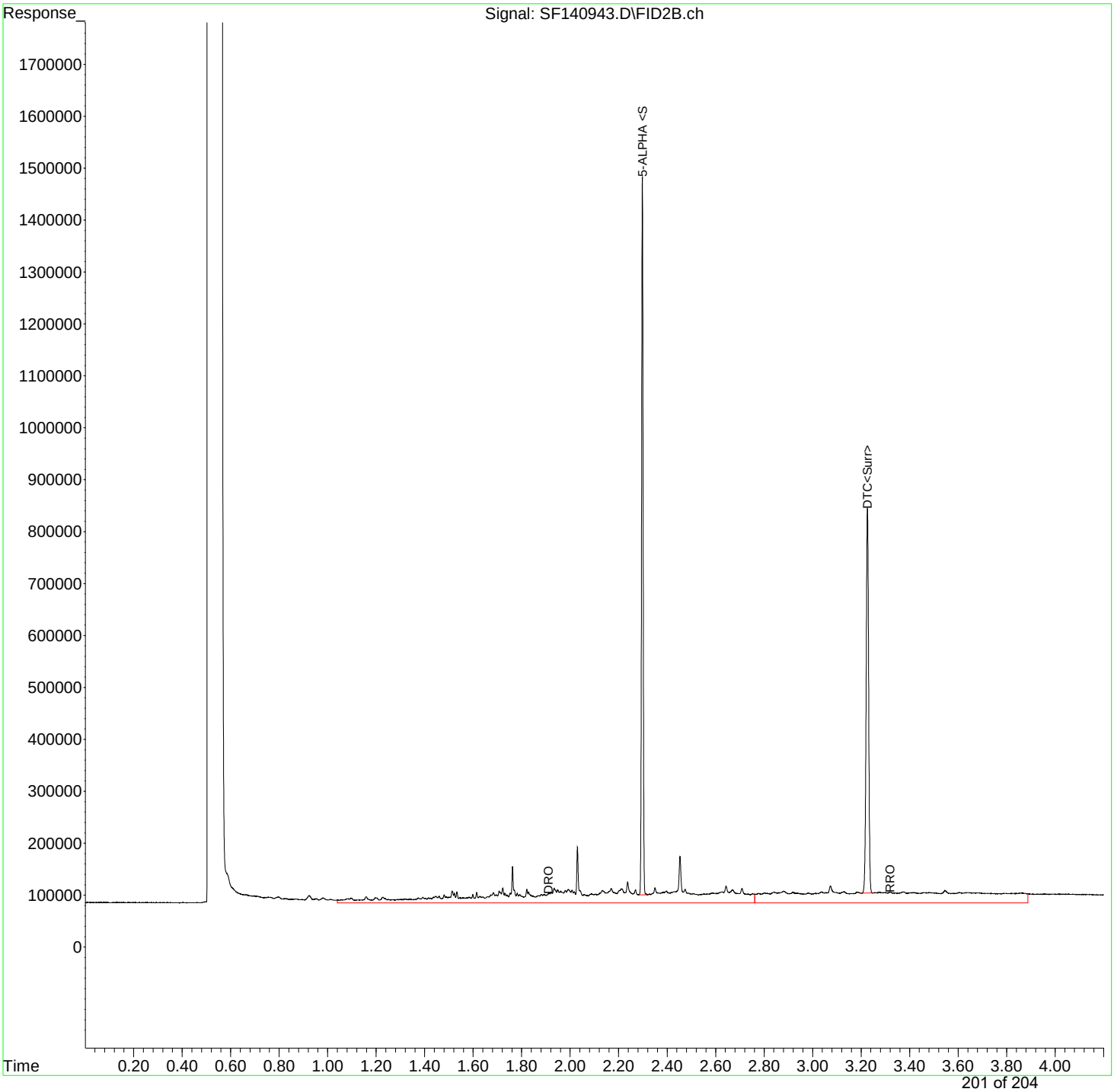
Integration File: autoint1.e
Quant Time: Apr 26 08:50:07 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140945.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 00:55
Operator : T.L
Sample : 1241686038 SG
Misc :
ALS Vial : 114 Sample Multiplier: 1

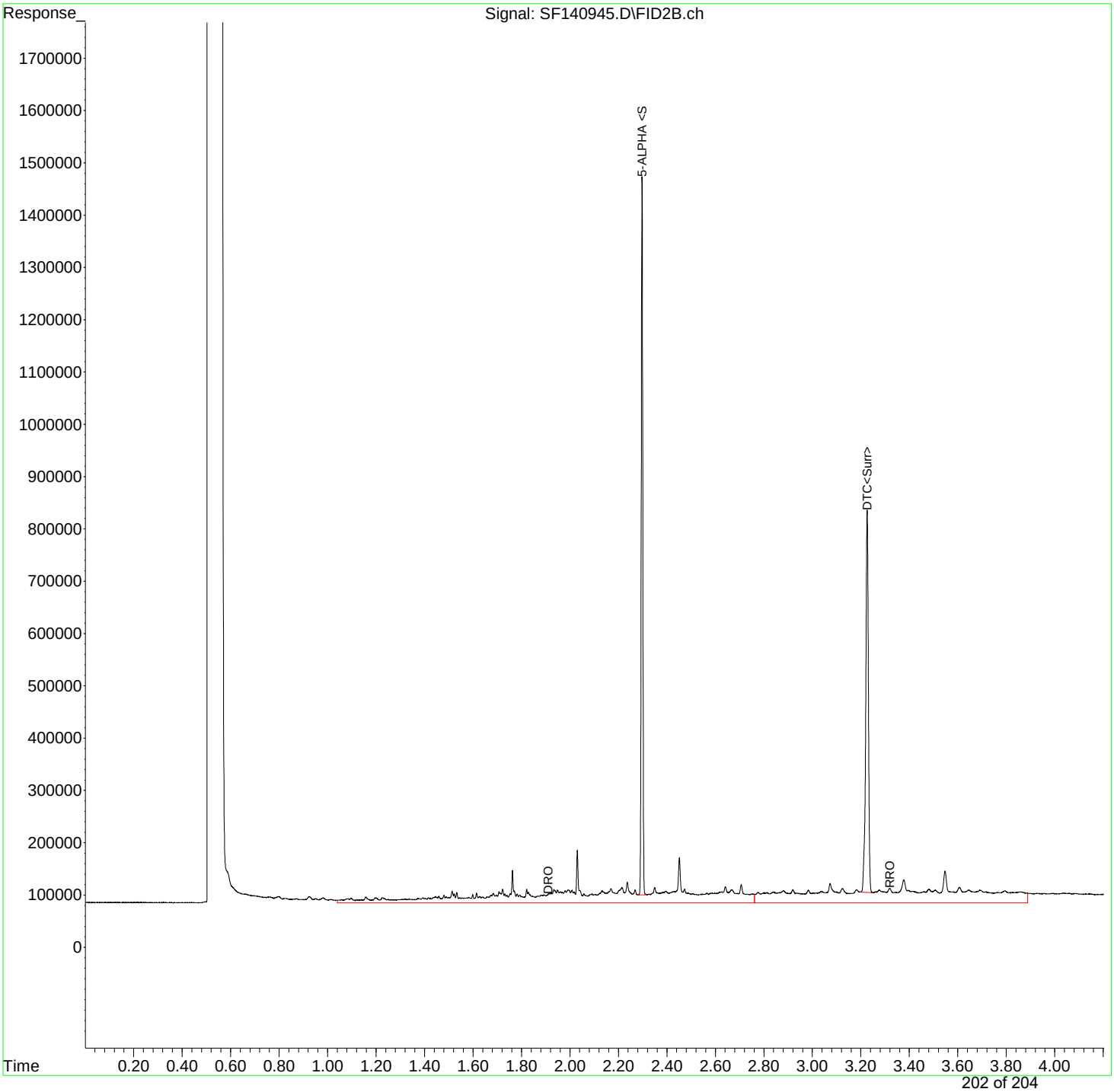
Integration File: autoint1.e
Quant Time: Apr 26 08:50:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140947.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 1:06
Operator : T.L
Sample : 1241686039 SG
Misc :
ALS Vial : 115 Sample Multiplier: 1

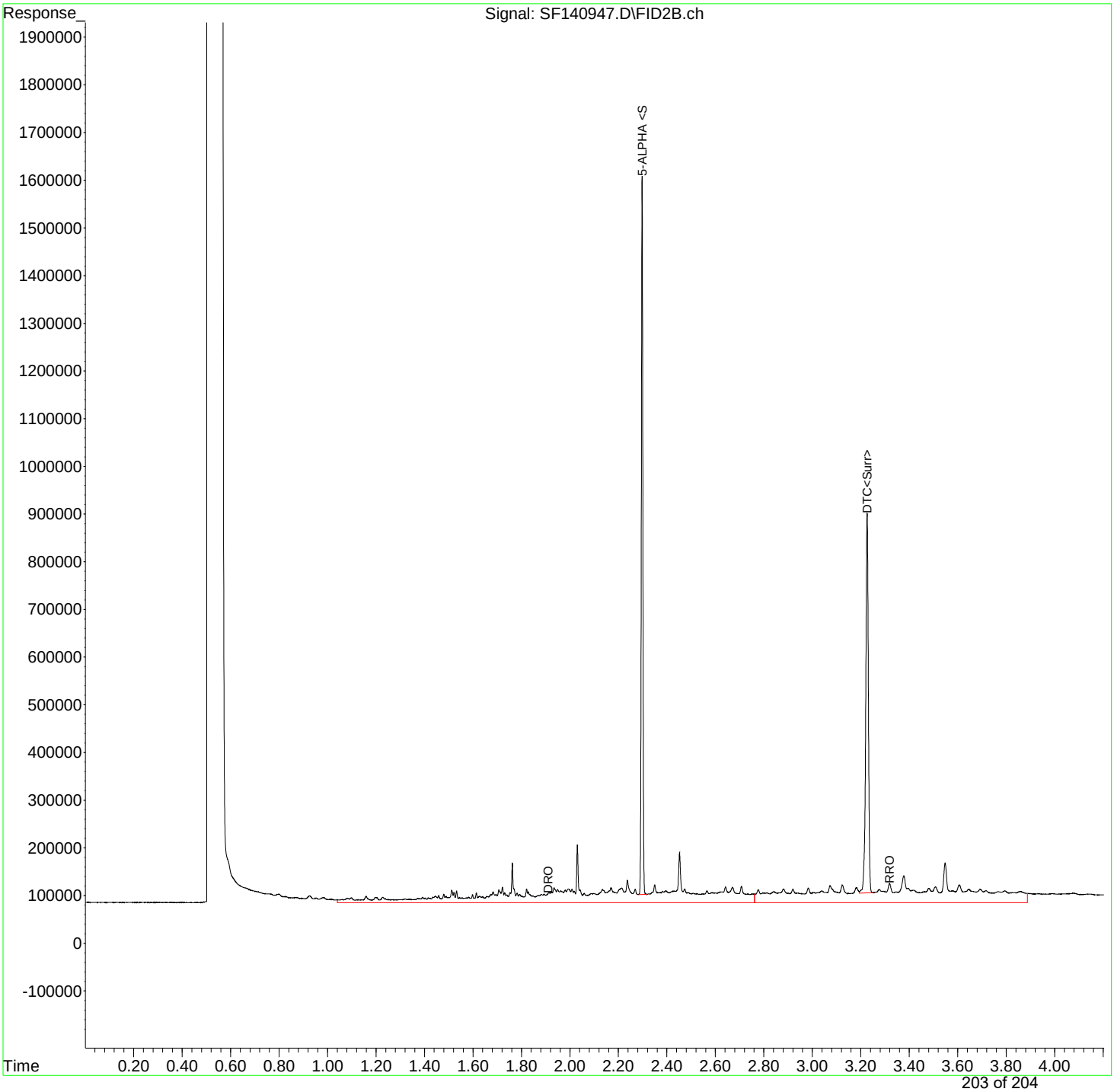
Integration File: autoint1.e
Quant Time: Apr 26 08:50:33 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 25, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04252024A.SEC\
Data File : SF140949.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 1:16
Operator : T.L
Sample : 1241686040 SG
Misc :
ALS Vial : 116 Sample Multiplier: 1

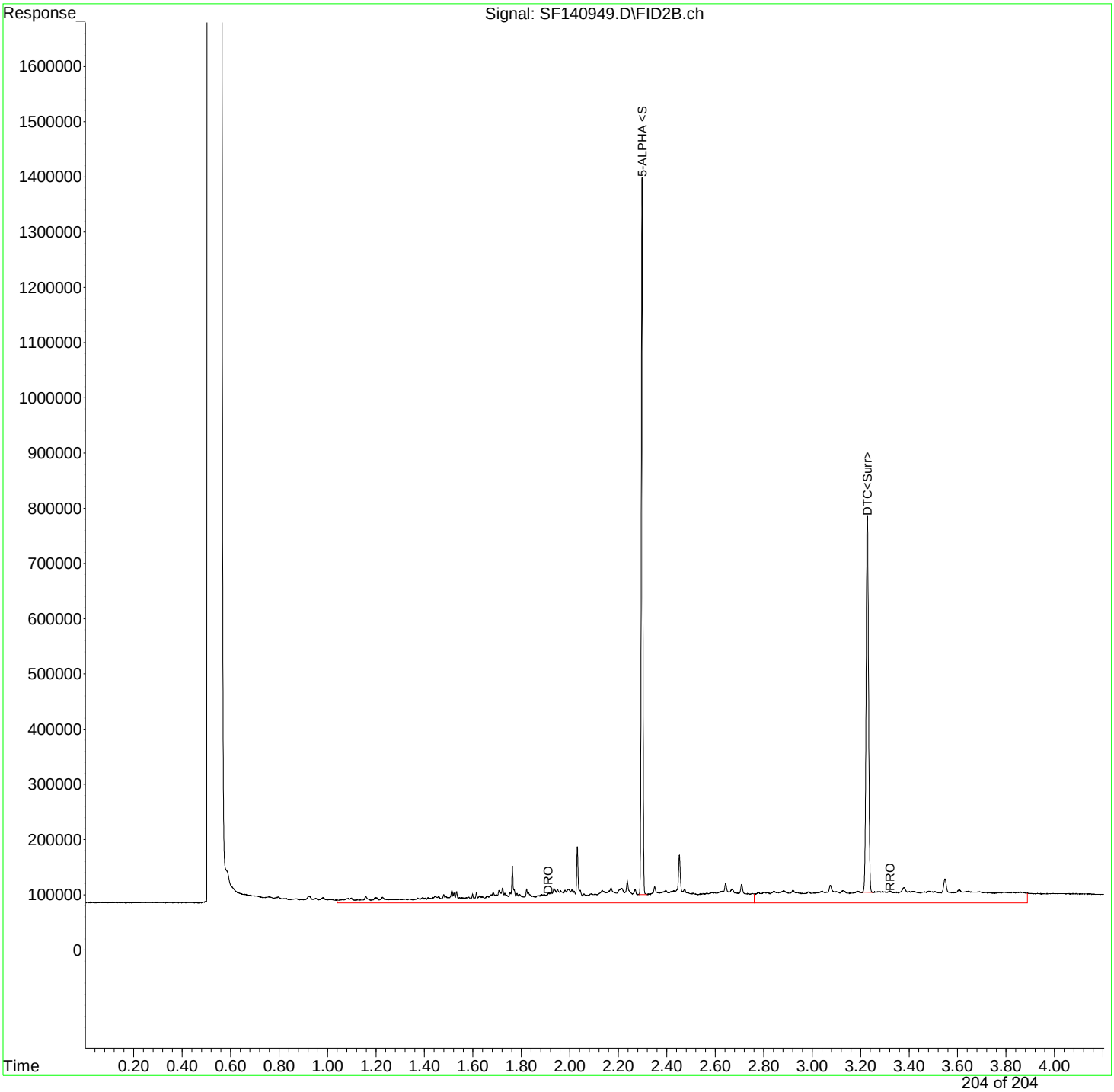
Integration File: autoint1.e
Quant Time: Apr 26 08:50:43 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 25, 2024

Tashid Hamu



Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241713**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

Revised Report - Revision 2 - Additionsl chromatograms are included.

Print Date: 05/07/2025 8:11:19AM

Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241713**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24SS172SP702 (1241713001) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS173SP91.5 (1241713002) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS174SP904 (1241713003) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS175SP901 (1241713004) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS176SP903 (1241713005) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS177SP91.5 (1241713006) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS178SP906 (1241713007) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS179SP901 (1241713008) PS

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS179SP9019 (1241713009) PS

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS180SP903 (1241713010) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS181SP91.5 (1241713011) PS

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS182SP902 (1241713014) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS183SP904 (1241713015) PS

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS184SP101.5 (1241713016) PS

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241713**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS185SP1003 (1241713017) PS

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS186SP1002 (1241713018) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS187SP1004 (1241713019) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS188SP51.5 (1241713020) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS189SP504 (1241713021) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS190SP51.5 (1241713022) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS190SP51.59 (1241713023) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS191SP53.5 (1241713024) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS192SP21.5 (1241713025) PS

AK102/103 - The hydrocarbon pattern is unknown.

RIR24SS193SP101 (1241713026) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS194SP10.5 (1241713027) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS195SP101 (1241713028) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.
AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS196SP102 (1241713029) PS

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241713**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS197SP902 (1241713030) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS198SP95.5 (1241713031) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS199SP902 (1241713032) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.
AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria.

RIR24SS200SP903 (1241713033) PS

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

RIR24SS181SP...(1241713011BMS) (1241713012) BMS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.
AK102 - DRO recovery in BMS does not meet QC criteria. Refer LCS/LCSD for accuracy requirements.

RIR24SS181S...(1241713011BMSD) (1241713013) BMSD

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.
AK102 - DRO recovery in BMSD does not meet QC criteria. Refer LCS/LCSD for accuracy requirements.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS172SP702	1241713001	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS173SP91.5	1241713002	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS174SP904	1241713003	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS175SP901	1241713004	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS176SP903	1241713005	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS177SP91.5	1241713006	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS178SP906	1241713007	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS179SP901	1241713008	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS179SP9019	1241713009	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS180SP903	1241713010	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS181SP91.5	1241713011	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS181SP...(1241713011BM	1241713012	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS181S...(1241713011BM	1241713013	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS182SP902	1241713014	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS183SP904	1241713015	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS184SP101.5	1241713016	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS185SP1003	1241713017	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS186SP1002	1241713018	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS187SP1004	1241713019	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS188SP51.5	1241713020	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS189SP504	1241713021	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS190SP51.5	1241713022	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS190SP51.59	1241713023	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS191SP53.5	1241713024	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS192SP21.5	1241713025	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS193SP101	1241713026	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS194SP10.5	1241713027	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS195SP101	1241713028	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS196SP102	1241713029	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS197SP902	1241713030	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS198SP95.5	1241713031	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS199SP902	1241713032	04/25/2024	04/26/2024	Soil/Solid (dry weight)
RIR24SS200SP903	1241713033	04/25/2024	04/26/2024	Soil/Solid (dry weight)

Method	Method Description
AK102	Diesel Range Organics (S) 2
AK102	Diesel Range Organics w/ Silica Gel
SM21 2540G	Percent Solids SM2540G

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Detectable Results Summary

Client Sample ID: **RIR24SS172SP702**
Lab Sample ID: 1241713001

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	30.0	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.6J	mg/kg

Client Sample ID: **RIR24SS173SP91.5**
Lab Sample ID: 1241713002

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	584	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	68.3J	mg/kg

Client Sample ID: **RIR24SS174SP904**
Lab Sample ID: 1241713003

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	138	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	27.1J	mg/kg

Client Sample ID: **RIR24SS175SP901**
Lab Sample ID: 1241713004

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	680	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	90.8	mg/kg

Client Sample ID: **RIR24SS176SP903**
Lab Sample ID: 1241713005

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	533	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	100	mg/kg

Client Sample ID: **RIR24SS177SP91.5**
Lab Sample ID: 1241713006

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	752	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	160	mg/kg

Client Sample ID: **RIR24SS178SP906**
Lab Sample ID: 1241713007

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	706	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	282	mg/kg

Client Sample ID: **RIR24SS179SP901**
Lab Sample ID: 1241713008

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1900	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	662	mg/kg

Client Sample ID: **RIR24SS179SP9019**
Lab Sample ID: 1241713009

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	2870	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	1080	mg/kg

Client Sample ID: **RIR24SS180SP903**
Lab Sample ID: 1241713010

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	44.4	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.6J	mg/kg

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Detectable Results Summary

Client Sample ID: **RIR24SS181SP91.5**
Lab Sample ID: 1241713011

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	3940	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	2140	mg/kg

Client Sample ID: **RIR24SS182SP902**
Lab Sample ID: 1241713014

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	622	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	35.0J	mg/kg

Client Sample ID: **RIR24SS183SP904**
Lab Sample ID: 1241713015

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	61.4	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	29.4	mg/kg

Client Sample ID: **RIR24SS184SP101.5**
Lab Sample ID: 1241713016

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1200	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	98.9	mg/kg

Client Sample ID: **RIR24SS185SP1003**
Lab Sample ID: 1241713017

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	30.5	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	12.0J	mg/kg

Client Sample ID: **RIR24SS186SP1002**
Lab Sample ID: 1241713018

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	427	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	41.8J	mg/kg

Client Sample ID: **RIR24SS187SP1004**
Lab Sample ID: 1241713019

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	50.8	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	13.5J	mg/kg

Client Sample ID: **RIR24SS188SP51.5**
Lab Sample ID: 1241713020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	379	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	62.4J	mg/kg

Client Sample ID: **RIR24SS189SP504**
Lab Sample ID: 1241713021

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	33.6	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	11.6J	mg/kg

Client Sample ID: **RIR24SS190SP51.5**
Lab Sample ID: 1241713022

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	280	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	35.1J	mg/kg

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Detectable Results Summary

Client Sample ID: **RIR24SS190SP51.59**
Lab Sample ID: 1241713023

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	259	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	61.0J	mg/kg

Client Sample ID: **RIR24SS191SP53.5**
Lab Sample ID: 1241713024

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	20.2J	mg/kg

Client Sample ID: **RIR24SS192SP21.5**
Lab Sample ID: 1241713025

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	16.4J	mg/kg

Client Sample ID: **RIR24SS193SP101**
Lab Sample ID: 1241713026

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	670	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	82.6	mg/kg

Client Sample ID: **RIR24SS194SP10.5**
Lab Sample ID: 1241713027

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	67.6	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	16.2J	mg/kg

Client Sample ID: **RIR24SS195SP101**
Lab Sample ID: 1241713028

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1760	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	102	mg/kg

Client Sample ID: **RIR24SS196SP102**
Lab Sample ID: 1241713029

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	68.3	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	14.2J	mg/kg

Client Sample ID: **RIR24SS197SP902**
Lab Sample ID: 1241713030

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	815	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	79.4	mg/kg

Client Sample ID: **RIR24SS198SP95.5**
Lab Sample ID: 1241713031

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	293	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	29.9J	mg/kg

Client Sample ID: **RIR24SS199SP902**
Lab Sample ID: 1241713032

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	409	mg/kg

Client Sample ID: **RIR24SS200SP903**
Lab Sample ID: 1241713033

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	61.0	mg/kg

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Results of **RIR24SS172SP702**

Client Sample ID: **RIR24SS172SP702**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713001
Lab Project ID: 1241713

Collection Date: 04/25/24 09:53
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):72.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	30.0		27.2	12.3	20.4	mg/kg	1		04/26/24 15:42
Surrogates									
5a Androstane (surr)	108		50-150			%	1		04/26/24 15:42

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:42
Container ID: 1241713001-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.692 g
Prep Extract Vol: 2 mL

Results of **RIR24SS172SP702**

Client Sample ID: **RIR24SS172SP702**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713001
Lab Project ID: 1241713

Collection Date: 04/25/24 09:53
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):72.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.6	J	27.2	12.3	20.4	mg/kg	1		04/26/24 17:02
Surrogates									
5a Androstane (surr)	84.5		50-150			%	1		04/26/24 17:02

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:02
Container ID: 1241713001-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.692 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS173SP91.5**

Client Sample ID: **RIR24SS173SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713002
Lab Project ID: 1241713

Collection Date: 04/25/24 10:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):23.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	584		83.4	37.5	62.6	mg/kg	1		04/26/24 14:52
Surrogates									
5a Androstane (surr)	106		50-150			%	1		04/26/24 14:52

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 14:52
Container ID: 1241713002-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.905 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS173SP91.5**

Client Sample ID: **RIR24SS173SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713002
Lab Project ID: 1241713

Collection Date: 04/25/24 10:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):23.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	68.3	J	83.4	37.5	62.6	mg/kg	1		04/26/24 17:12
Surrogates									
5a Androstane (surr)	83.3		50-150			%	1		04/26/24 17:12

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:12
Container ID: 1241713002-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.905 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS174SP904**

Client Sample ID: **RIR24SS174SP904**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713003
Lab Project ID: 1241713

Collection Date: 04/25/24 10:32
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):62.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	138		31.4	14.1	23.5	mg/kg	1		04/26/24 15:32
Surrogates									
5a Androstane (surr)	145		50-150			%	1		04/26/24 15:32

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:32
Container ID: 1241713003-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.909 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS174SP904**

Client Sample ID: **RIR24SS174SP904**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713003
Lab Project ID: 1241713

Collection Date: 04/25/24 10:32
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):62.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	27.1	J	31.4	14.1	23.5	mg/kg	1		04/26/24 17:22
Surrogates									
5a Androstane (surr)	86.9		50-150			%	1		04/26/24 17:22

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:22
Container ID: 1241713003-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.909 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS175SP901**

Client Sample ID: **RIR24SS175SP901**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713004
Lab Project ID: 1241713

Collection Date: 04/25/24 10:58
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):28.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	680		69.2	31.2	51.9	mg/kg	1		04/26/24 15:22
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/26/24 15:22

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:22
Container ID: 1241713004-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.657 g
Prep Extract Vol: 2 mL

Results of **RIR24SS175SP901**

Client Sample ID: **RIR24SS175SP901**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713004
Lab Project ID: 1241713

Collection Date: 04/25/24 10:58
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):28.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	90.8		69.2	31.2	51.9	mg/kg	1		04/26/24 17:31
Surrogates									
5a Androstane (surr)	78.4		50-150			%	1		04/26/24 17:31

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:31
Container ID: 1241713004-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.657 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS176SP903**

Client Sample ID: **RIR24SS176SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713005
Lab Project ID: 1241713

Collection Date: 04/25/24 11:00
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	533		67.1	30.2	50.3	mg/kg	1		04/26/24 15:12
Surrogates									
5a Androstane (surr)	104		50-150			%	1		04/26/24 15:12

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:12
Container ID: 1241713005-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.851 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS176SP903**

Client Sample ID: **RIR24SS176SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713005
Lab Project ID: 1241713

Collection Date: 04/25/24 11:00
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	100		67.1	30.2	50.3	mg/kg	1		04/26/24 17:40
Surrogates									
5a Androstane (surr)	86.5		50-150			%	1		04/26/24 17:40

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:40
Container ID: 1241713005-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.851 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS177SP91.5**

Client Sample ID: **RIR24SS177SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713006
Lab Project ID: 1241713

Collection Date: 04/25/24 11:25
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):31.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	752		155	69.9	116	mg/kg	1		04/26/24 14:42
Surrogates									
5a Androstane (surr)	96.2		50-150			%	1		04/26/24 14:42

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 14:42
Container ID: 1241713006-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.947 g
Prep Extract Vol: 5 mL

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Results of **RIR24SS177SP91.5**

Client Sample ID: **RIR24SS177SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713006
Lab Project ID: 1241713

Collection Date: 04/25/24 11:25
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):31.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	160		155	69.9	116	mg/kg	1		04/26/24 17:50
Surrogates									
5a Androstane (surr)	84.3		50-150			%	1		04/26/24 17:50

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 17:50
Container ID: 1241713006-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.947 g
Prep Extract Vol: 5 mL

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Results of **RIR24SS178SP906**

Client Sample ID: **RIR24SS178SP906**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713007
Lab Project ID: 1241713

Collection Date: 04/25/24 11:27
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):36.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	706		54.0	24.3	40.5	mg/kg	1		04/26/24 15:02
Surrogates									
5a Androstane (surr)	104		50-150			%	1		04/26/24 15:02

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:02
Container ID: 1241713007-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.837 g
Prep Extract Vol: 2 mL

Results of **RIR24SS178SP906**

Client Sample ID: **RIR24SS178SP906**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713007
Lab Project ID: 1241713

Collection Date: 04/25/24 11:27
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):36.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	282		54.0	24.3	40.5	mg/kg	1		04/26/24 18:00
Surrogates									
5a Androstane (surr)	85.7		50-150			%	1		04/26/24 18:00

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 18:00
Container ID: 1241713007-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.837 g
Prep Extract Vol: 2 mL

Results of **RIR24SS179SP901**

Client Sample ID: **RIR24SS179SP901**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713008
Lab Project ID: 1241713

Collection Date: 04/25/24 01:50
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):39.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1900		49.7	22.4	37.3	mg/kg	1		04/26/24 16:12
Surrogates									
5a Androstane (surr)	318	*	50-150			%	1		04/26/24 16:12

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 16:12
Container ID: 1241713008-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.816 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS179SP901**

Client Sample ID: **RIR24SS179SP901**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713008
Lab Project ID: 1241713

Collection Date: 04/25/24 01:50
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):39.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	662		49.7	22.4	37.3	mg/kg	1		04/26/24 18:10
Surrogates									
5a Androstane (surr)	79.3		50-150			%	1		04/26/24 18:10

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 18:10
Container ID: 1241713008-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.816 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS179SP9019**

Client Sample ID: **RIR24SS179SP9019**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713009
Lab Project ID: 1241713

Collection Date: 04/25/24 11:51
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):24.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	2870		80.8	36.4	60.6	mg/kg	1		04/26/24 16:22
Surrogates									
5a Androstane (surr)	308	*	50-150			%	1		04/26/24 16:22

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 16:22
Container ID: 1241713009-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.795 g
Prep Extract Vol: 2 mL

Results of **RIR24SS179SP9019**

Client Sample ID: **RIR24SS179SP9019**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713009
Lab Project ID: 1241713

Collection Date: 04/25/24 11:51
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):24.4
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	1080		80.8	36.4	60.6	mg/kg	1		04/26/24 18:20
Surrogates									
5a Androstane (surr)	84.4		50-150			%	1		04/26/24 18:20

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 18:20
Container ID: 1241713009-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.795 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS180SP903**

Client Sample ID: **RIR24SS180SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713010
Lab Project ID: 1241713

Collection Date: 04/25/24 11:52
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):77.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	44.4		25.5	11.5	19.1	mg/kg	1		04/26/24 18:20
Surrogates									
5a Androstane (surr)	97.6		50-150			%	1		04/26/24 18:20

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 18:20
Container ID: 1241713010-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.708 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS180SP903**

Client Sample ID: **RIR24SS180SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713010
Lab Project ID: 1241713

Collection Date: 04/25/24 11:52
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):77.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.6	J	25.5	11.5	19.1	mg/kg	1		04/26/24 18:30
Surrogates									
5a Androstane (surr)	83.9		50-150			%	1		04/26/24 18:30

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 18:30
Container ID: 1241713010-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.708 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS181SP91.5**

Client Sample ID: **RIR24SS181SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713011
Lab Project ID: 1241713

Collection Date: 04/25/24 12:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):21.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	3940		93.6	42.1	70.2	mg/kg	1		04/26/24 16:32
Surrogates									
5a Androstane (surr)	287	*	50-150			%	1		04/26/24 16:32

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 16:32
Container ID: 1241713011-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.76 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS181SP91.5**

Client Sample ID: **RIR24SS181SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713011
Lab Project ID: 1241713

Collection Date: 04/25/24 12:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):21.1
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	2140		93.6	42.1	70.2	mg/kg	1		04/26/24 18:41
Surrogates									
5a Androstane (surr)	76		50-150			%	1		04/26/24 18:41

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 18:41
Container ID: 1241713011-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.76 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS182SP902**

Client Sample ID: **RIR24SS182SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713014
Lab Project ID: 1241713

Collection Date: 04/25/24 12:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):33.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	622		59.0	26.5	44.3	mg/kg	1		04/26/24 17:02
Surrogates									
5a Androstane (surr)	78.5		50-150			%	1		04/26/24 17:02

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 17:02
Container ID: 1241713014-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.543 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS182SP902**

Client Sample ID: **RIR24SS182SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713014
Lab Project ID: 1241713

Collection Date: 04/25/24 12:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):33.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	35.0	J	59.0	26.5	44.3	mg/kg	1		04/26/24 19:10
Surrogates									
5a Androstane (surr)	78.2		50-150			%	1		04/26/24 19:10

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 19:10
Container ID: 1241713014-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.543 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS183SP904**

Client Sample ID: **RIR24SS183SP904**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713015
Lab Project ID: 1241713

Collection Date: 04/25/24 12:42
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.8
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	61.4		23.9	10.7	17.9	mg/kg	1		04/26/24 18:00
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/26/24 18:00

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 18:00
Container ID: 1241713015-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.504 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS183SP904**

Client Sample ID: **RIR24SS183SP904**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713015
Lab Project ID: 1241713

Collection Date: 04/25/24 12:42
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.8
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	29.4		23.9	10.7	17.9	mg/kg	1		04/26/24 19:20
Surrogates									
5a Androstane (surr)	92.4		50-150			%	1		04/26/24 19:20

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 19:20
Container ID: 1241713015-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.504 g
Prep Extract Vol: 2 mL

Results of **RIR24SS184SP101.5**

Client Sample ID: **RIR24SS184SP101.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713016
Lab Project ID: 1241713

Collection Date: 04/25/24 13:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1200		68.1	30.6	51.1	mg/kg	1		04/26/24 15:52
Surrogates									
5a Androstane (surr)	423	*	50-150			%	1		04/26/24 15:52

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 15:52
Container ID: 1241713016-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.821 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS184SP101.5**

Client Sample ID: **RIR24SS184SP101.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713016
Lab Project ID: 1241713

Collection Date: 04/25/24 13:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	98.9		68.1	30.6	51.1	mg/kg	1		04/26/24 19:31
Surrogates									
5a Androstane (surr)	99.3		50-150			%	1		04/26/24 19:31

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 19:31
Container ID: 1241713016-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.821 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS185SP1003**

Client Sample ID: **RIR24SS185SP1003**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713017
Lab Project ID: 1241713

Collection Date: 04/25/24 13:12
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	30.5		23.7	10.7	17.8	mg/kg	1		04/26/24 18:10
Surrogates									
5a Androstane (surr)	96.3		50-150			%	1		04/26/24 18:10

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 18:10
Container ID: 1241713017-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.661 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS185SP1003**

Client Sample ID: **RIR24SS185SP1003**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713017
Lab Project ID: 1241713

Collection Date: 04/25/24 13:12
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	12.0	J	23.7	10.7	17.8	mg/kg	1		04/26/24 20:00
Surrogates									
5a Androstane (surr)	81.3		50-150			%	1		04/26/24 20:00

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:00
Container ID: 1241713017-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.661 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS186SP1002**

Client Sample ID: **RIR24SS186SP1002**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713018
Lab Project ID: 1241713

Collection Date: 04/25/24 13:20
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):32.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	427		60.6	27.3	45.5	mg/kg	1		04/26/24 17:12
Surrogates									
5a Androstane (surr)	109		50-150			%	1		04/26/24 17:12

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 17:12
Container ID: 1241713018-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.846 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS186SP1002**

Client Sample ID: **RIR24SS186SP1002**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713018
Lab Project ID: 1241713

Collection Date: 04/25/24 13:20
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):32.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	41.8	J	60.6	27.3	45.5	mg/kg	1		04/26/24 20:10
Surrogates									
5a Androstane (surr)	83.2		50-150			%	1		04/26/24 20:10

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:10
Container ID: 1241713018-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.846 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS187SP1004**

Client Sample ID: **RIR24SS187SP1004**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713019
Lab Project ID: 1241713

Collection Date: 04/25/24 13:22
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	50.8		23.9	10.7	17.9	mg/kg	1		04/26/24 18:30
Surrogates									
5a Androstane (surr)	119		50-150			%	1		04/26/24 18:30

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 18:30
Container ID: 1241713019-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.603 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS187SP1004**

Client Sample ID: **RIR24SS187SP1004**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713019
Lab Project ID: 1241713

Collection Date: 04/25/24 13:22
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	13.5	J	23.9	10.7	17.9	mg/kg	1		04/26/24 20:20
Surrogates									
5a Androstane (surr)	83.8		50-150			%	1		04/26/24 20:20

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:20
Container ID: 1241713019-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.603 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS188SP51.5**

Client Sample ID: **RIR24SS188SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713020
Lab Project ID: 1241713

Collection Date: 04/25/24 14:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):31.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	379		63.8	28.7	47.8	mg/kg	1		04/26/24 16:02
Surrogates									
5a Androstane (surr)	161	*	50-150			%	1		04/26/24 16:02

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 16:02
Container ID: 1241713020-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.749 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS188SP51.5**

Client Sample ID: **RIR24SS188SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713020
Lab Project ID: 1241713

Collection Date: 04/25/24 14:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):31.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	62.4	J	63.8	28.7	47.8	mg/kg	1		04/26/24 20:29
Surrogates									
5a Androstane (surr)	82.3		50-150			%	1		04/26/24 20:29

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:29
Container ID: 1241713020-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.749 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS189SP504**

Client Sample ID: **RIR24SS189SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713021
Lab Project ID: 1241713

Collection Date: 04/25/24 14:32
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):79.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	33.6		25.0	11.3	18.8	mg/kg	1		04/26/24 17:40
Surrogates									
5a Androstane (surr)	102		50-150			%	1		04/26/24 17:40

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 17:40
Container ID: 1241713021-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.735 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS189SP504**

Client Sample ID: **RIR24SS189SP504**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713021
Lab Project ID: 1241713

Collection Date: 04/25/24 14:32
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):79.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	11.6	J	25.0	11.3	18.8	mg/kg	1		04/26/24 20:39
Surrogates									
5a Androstane (surr)	85.4		50-150			%	1		04/26/24 20:39

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:39
Container ID: 1241713021-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.735 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS190SP51.5**

Client Sample ID: **RIR24SS190SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713022
Lab Project ID: 1241713

Collection Date: 04/25/24 14:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):32.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	280		60.7	27.3	45.5	mg/kg	1		04/26/24 17:50
Surrogates									
5a Androstane (surr)	127		50-150			%	1		04/26/24 17:50

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 17:50
Container ID: 1241713022-A

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.638 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS190SP51.5**

Client Sample ID: **RIR24SS190SP51.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713022
Lab Project ID: 1241713

Collection Date: 04/25/24 14:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):32.7
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	35.1	J	60.7	27.3	45.5	mg/kg	1		04/26/24 20:49
Surrogates									
5a Androstane (surr)	79.6		50-150			%	1		04/26/24 20:49

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/26/24 20:49
Container ID: 1241713022-A

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/26/24 11:30
Prep Initial Wt./Vol.: 22.638 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS190SP51.59**

Client Sample ID: **RIR24SS190SP51.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713023
Lab Project ID: 1241713

Collection Date: 04/25/24 14:41
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):24.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	259		82.1	37.0	61.6	mg/kg	1		04/26/24 19:40
Surrogates									
5a Androstane (surr)	121		50-150			%	1		04/26/24 19:40

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 19:40
Container ID: 1241713023-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.677 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS190SP51.59**

Client Sample ID: **RIR24SS190SP51.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713023
Lab Project ID: 1241713

Collection Date: 04/25/24 14:41
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):24.2
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	61.0	J	82.1	37.0	61.6	mg/kg	1		04/30/24 15:24

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 15:24
Container ID: 1241713023-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.677 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS191SP53.5**

Client Sample ID: **RIR24SS191SP53.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713024
Lab Project ID: 1241713

Collection Date: 04/25/24 14:42
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):81.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	20.2	J	24.3	10.9	18.2	mg/kg	1		04/26/24 19:50
Surrogates									
5a Androstane (surr)	111		50-150			%	1		04/26/24 19:50

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 19:50
Container ID: 1241713024-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.784 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS191SP53.5**

Client Sample ID: **RIR24SS191SP53.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713024
Lab Project ID: 1241713

Collection Date: 04/25/24 14:42
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):81.4
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	18.2	U	24.3	10.9	18.2	mg/kg	1		04/30/24 15:34

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 15:34
Container ID: 1241713024-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.784 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS192SP21.5**

Client Sample ID: **RIR24SS192SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713025
Lab Project ID: 1241713

Collection Date: 04/25/24 14:56
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):87.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	16.4	J	22.5	10.1	16.9	mg/kg	1		04/26/24 20:00
Surrogates									
5a Androstane (surr)	106		50-150			%	1		04/26/24 20:00

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:00
Container ID: 1241713025-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.882 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

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Results of **RIR24SS192SP21.5**

Client Sample ID: **RIR24SS192SP21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713025
Lab Project ID: 1241713

Collection Date: 04/25/24 14:56
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):87.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	16.9	U	22.5	10.1	16.9	mg/kg	1		04/30/24 15:44

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 15:44
Container ID: 1241713025-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.882 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS193SP101**

Client Sample ID: **RIR24SS193SP101**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713026
Lab Project ID: 1241713

Collection Date: 04/25/24 15:00
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):49.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	670		39.5	17.8	29.6	mg/kg	1		04/26/24 20:10
Surrogates									
5a Androstane (surr)	126		50-150			%	1		04/26/24 20:10

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:10
Container ID: 1241713026-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 23.002 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS193SP101**

Client Sample ID: **RIR24SS193SP101**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713026
Lab Project ID: 1241713

Collection Date: 04/25/24 15:00
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):49.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	82.6		39.5	17.8	29.6	mg/kg	1		04/30/24 15:53

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 15:53
Container ID: 1241713026-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 23.002 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS194SP10.5**

Client Sample ID: **RIR24SS194SP10.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713027
Lab Project ID: 1241713

Collection Date: 04/25/24 15:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	67.6		23.6	10.6	17.7	mg/kg	1		04/26/24 20:20
Surrogates									
5a Androstane (surr)	125		50-150			%	1		04/26/24 20:20

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:20
Container ID: 1241713027-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.956 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS194SP10.5**

Client Sample ID: **RIR24SS194SP10.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713027
Lab Project ID: 1241713

Collection Date: 04/25/24 15:10
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):83.0
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	16.2	J	23.6	10.6	17.7	mg/kg	1		04/30/24 16:03

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:03
Container ID: 1241713027-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.956 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS195SP101**

Client Sample ID: **RIR24SS195SP101**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713028
Lab Project ID: 1241713

Collection Date: 04/25/24 15:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1760		66.4	29.9	49.8	mg/kg	1		04/26/24 20:29
Surrogates									
5a Androstane (surr)	587	*	50-150			%	1		04/26/24 20:29

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:29
Container ID: 1241713028-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.94 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS195SP101**

Client Sample ID: **RIR24SS195SP101**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713028
Lab Project ID: 1241713

Collection Date: 04/25/24 15:30
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):29.5
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	102		66.4	29.9	49.8	mg/kg	1		04/30/24 16:13

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:13
Container ID: 1241713028-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.94 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS196SP102**

Client Sample ID: **RIR24SS196SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713029
Lab Project ID: 1241713

Collection Date: 04/25/24 15:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	68.3		22.2	9.99	16.6	mg/kg	1		04/26/24 20:39
Surrogates									
5a Androstane (surr)	126		50-150			%	1		04/26/24 20:39

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:39
Container ID: 1241713029-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.953 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS196SP102**

Client Sample ID: **RIR24SS196SP102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713029
Lab Project ID: 1241713

Collection Date: 04/25/24 15:40
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):88.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	14.2	J	22.2	9.99	16.6	mg/kg	1		04/30/24 16:22

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:22
Container ID: 1241713029-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.953 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:32AM

J flagging is activated

Results of **RIR24SS197SP902**

Client Sample ID: **RIR24SS197SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713030
Lab Project ID: 1241713

Collection Date: 04/25/24 16:14
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):48.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	815		41.0	18.5	30.8	mg/kg	1		04/26/24 20:49
Surrogates									
5a Androstane (surr)	126		50-150			%	1		04/26/24 20:49

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:49
Container ID: 1241713030-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.559 g
Prep Extract Vol: 2 mL

Results of **RIR24SS197SP902**

Client Sample ID: **RIR24SS197SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713030
Lab Project ID: 1241713

Collection Date: 04/25/24 16:14
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):48.6
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	79.4		41.0	18.5	30.8	mg/kg	1		04/30/24 16:32

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:32
Container ID: 1241713030-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.559 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS198SP95.5**

Client Sample ID: **RIR24SS198SP95.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713031
Lab Project ID: 1241713

Collection Date: 04/25/24 16:16
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):55.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	293		35.3	15.9	26.5	mg/kg	1		04/26/24 20:59
Surrogates									
5a Androstane (surr)	103		50-150			%	1		04/26/24 20:59

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 20:59
Container ID: 1241713031-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.831 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS198SP95.5**

Client Sample ID: **RIR24SS198SP95.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713031
Lab Project ID: 1241713

Collection Date: 04/25/24 16:16
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):55.9
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	29.9	J	35.3	15.9	26.5	mg/kg	1		04/30/24 16:42

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:42
Container ID: 1241713031-A

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time:
Prep Initial Wt./Vol.: 22.831 g
Prep Extract Vol: 2 mL

Results of **RIR24SS199SP902**

Client Sample ID: **RIR24SS199SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713032
Lab Project ID: 1241713

Collection Date: 04/25/24 16:18
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):18.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	409		108	48.7	81.0	mg/kg	1		04/26/24 21:09
Surrogates									
5a Androstane (surr)	53.8		50-150			%	1		04/26/24 21:09

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 21:09
Container ID: 1241713032-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.612 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS200SP903**

Client Sample ID: **RIR24SS200SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241713033
Lab Project ID: 1241713

Collection Date: 04/25/24 16:20
Received Date: 04/26/24 08:00
Matrix: Soil/Solid (dry weight)
Solids (%):78.1
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	61.0		25.2	11.4	18.9	mg/kg	1		04/26/24 21:19
Surrogates									
5a Androstane (surr)	105		50-150			%	1		04/26/24 21:19

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/26/24 21:19
Container ID: 1241713033-A

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 04/26/24 14:57
Prep Initial Wt./Vol.: 22.828 g
Prep Extract Vol: 2 mL

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Method Blank

Blank ID: MB for HBN 1876632 [SPT/12026]
Blank Lab ID: 1761276

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021, 1241713022, 1241713023, 1241713024, 1241713025, 1241713026, 1241713027, 1241713028, 1241713029,

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Solids	100				%

Batch Information

Analytical Batch: SPT12026
Analytical Method: SM21 2540G
Instrument:
Analyst: APS
Analytical Date/Time: 4/26/2024 10:37:00AM

Print Date: 05/07/2025 8:11:40AM

Duplicate Sample Summary

Original Sample ID: 1241713004
Duplicate Sample ID: 1761277

Analysis Date: 04/26/2024 10:37
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	28.7	30.9	%	7.50	(< 15)

Batch Information

Analytical Batch: SPT12026
Analytical Method: SM21 2540G
Instrument:
Analyst: APS

Print Date: 05/07/2025 8:11:42AM

Duplicate Sample Summary

Original Sample ID: 1241713022
Duplicate Sample ID: 1761278

Analysis Date: 04/26/2024 10:37
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	32.7	34.5	%	5.20	(< 15)

Batch Information

Analytical Batch: SPT12026
Analytical Method: SM21 2540G
Instrument:
Analyst: APS

Print Date: 05/07/2025 8:11:42AM

Method Blank

Blank ID: MB for HBN 1876448 [XXX/49370]
Blank Lab ID: 1761151

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021, 1241713022

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	113	60-120		0	%

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/26/2024 2:12:00PM

Prep Batch: XXX49370
Prep Method: SW3550C
Prep Date/Time: 4/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:48AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241713 [XXX49370]
Blank Spike Lab ID: 1761152
Date Analyzed: 04/26/2024 14:22

Spike Duplicate ID: LCSD for HBN 1241713 [XXX49370]
Spike Duplicate Lab ID: 1761153
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021, 1241713022

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	498	112	444	505	114	(75-125)	1.40	(< 20)
Surrogates									
5a Androstane (surr)	8.89		108	8.89		112	(60-120)	3.50	

Batch Information

Analytical Batch: **XFC16840**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **T.L**

Prep Batch: **XXX49370**
Prep Method: **SW3550C**
Prep Date/Time: **04/26/2024 11:30**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241713011
MS Sample ID: 1241713012 BMS
MSD Sample ID: 1241713013 BMSD

Analysis Date: 04/26/2024 16:32
Analysis Date: 04/26/2024 16:42
Analysis Date: 04/26/2024 16:52
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	3940	2100	4739	39 *	2104	6919	142 *	60-140	37.20	(< 50)
Surrogates										
5a Androstane (surr)		42.0	29.9	71	42.1	133	315 *	50-150	126.00	

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/26/2024 4:42:00PM

Prep Batch: XXX49370
Prep Method: Sonication Extr Soil AK102/3 Reg 2Ml
Prep Date/Time: 4/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 22.56g
Prep Extract Vol: 2.00mL

Print Date: 05/07/2025 8:11:53AM

Method Blank

Blank ID: MB for HBN 1876449 [XXX/49371]
Blank Lab ID: 1761163

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021, 1241713022

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	88.3	70-125		0	%

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/26/2024 4:32:00PM

Prep Batch: XXX49371
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241713 [XXX49371]
Blank Spike Lab ID: 1761164
Date Analyzed: 04/26/2024 16:42

Spike Duplicate ID: LCSD for HBN 1241713 [XXX49371]
Spike Duplicate Lab ID: 1761165
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241713001, 1241713002, 1241713003, 1241713004, 1241713005, 1241713006, 1241713007, 1241713008, 1241713009, 1241713010, 1241713011, 1241713014, 1241713015, 1241713016, 1241713017, 1241713018, 1241713019, 1241713020, 1241713021, 1241713022

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	425	96	444	422	95	(70-125)	0.63	(< 20)
Surrogates									
5a Androstane (surr)	8.89		94	8.89		93	(70-125)	0.91	

Batch Information

Analytical Batch: **XFC16841**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49371**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/26/2024 11:30**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

Print Date: 05/07/2025 8:11:58AM

Billable Matrix Spike Summary

Original Sample ID: 1241713011
MS Sample ID: 1241713012 BMS
MSD Sample ID: 1241713013 BMSD

Analysis Date: 04/26/2024 18:41
Analysis Date: 04/26/2024 18:51
Analysis Date: 04/26/2024 19:01
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	2140	2100	3891	83	2104	4697	121	60-140	18.80	(< 50)
Surrogates										
5a Androstane (surr)		42.0	37.3	89	42.1	38.5	92	50-150	3.30	

Batch Information

Analytical Batch: XFC16841
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/26/2024 6:51:00PM

Prep Batch: XXX49371
Prep Method: Sonication Extraction Soil AK102 Silica
Prep Date/Time: 4/26/2024 11:30:00AM
Prep Initial Wt./Vol.: 22.56g
Prep Extract Vol: 2.00mL

Print Date: 05/07/2025 8:12:00AM

Method Blank

Blank ID: MB for HBN 1876460 [XXX/49374]
Blank Lab ID: 1761227

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241713023, 1241713024, 1241713025, 1241713026, 1241713027, 1241713028, 1241713029, 1241713030, 1241713031, 1241713032, 1241713033

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	95.7	70-125		0	%

Batch Information

Analytical Batch: XFC16847
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/30/2024 2:55:00PM

Prep Batch: XXX49374
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/26/2024 2:58:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Print Date: 05/07/2025 8:12:02AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241713 [XXX49374]
Blank Spike Lab ID: 1761228
Date Analyzed: 04/30/2024 15:04

Spike Duplicate ID: LCSD for HBN 1241713 [XXX49374]
Spike Duplicate Lab ID: 1761229
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241713023, 1241713024, 1241713025, 1241713026, 1241713027, 1241713028, 1241713029, 1241713030, 1241713031, 1241713032, 1241713033

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	473	106	444	471	106	(70-125)	0.47	(< 20)
Surrogates									
5a Androstane (surr)	8.89		106	8.89		106	(70-125)	0.16	

Batch Information

Analytical Batch: **XFC16847**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **T.L**

Prep Batch: **XXX49374**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/26/2024 14:58**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Method Blank

Blank ID: MB for HBN 1876461 [XXX/49375]
Blank Lab ID: 1761230

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241713023, 1241713024, 1241713025, 1241713026, 1241713027, 1241713028, 1241713029, 1241713030, 1241713031, 1241713032, 1241713033

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	14.9J	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	102	60-120		0	%

Batch Information

Analytical Batch: XFC16840
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: T.L
Analytical Date/Time: 4/26/2024 7:10:00PM

Prep Batch: XXX49375
Prep Method: SW3550C
Prep Date/Time: 4/26/2024 2:57:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241713 [XXX49375]
Blank Spike Lab ID: 1761231
Date Analyzed: 04/26/2024 19:20

Spike Duplicate ID: LCSD for HBN 1241713 [XXX49375]
Spike Duplicate Lab ID: 1761232
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241713023, 1241713024, 1241713025, 1241713026, 1241713027, 1241713028, 1241713029, 1241713030, 1241713031, 1241713032, 1241713033

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	495	111	444	523	118	(75-125)	5.50	(< 20)
Surrogates									
5a Androstane (surr)	8.89		110	8.89		116	(60-120)	5.70	

Batch Information

Analytical Batch: **XFC16840**
Analytical Method: **AK102**
Instrument: **Agilent 7890B R**
Analyst: **T.L**

Prep Batch: **XXX49375**
Prep Method: **SW3550C**
Prep Date/Time: **04/26/2024 14:57**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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1241713 Revised Report - Revision 2

P#409567

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	TALCES JV, LLC		
CONTACT:	Greg DuBois	PHONE #:	1 (907) 830-8360
PROJECT NAME:	Ralston Island RI	PROJECT/ PWSID/ PERMIT#:	697DCK-24-C-00040
REPORTS TO:	Julie Dahl	E-MAIL:	jdahl@alaskapeninsulacorp.com
		Profile #:	
INVOICE TO:	TALCES JV, LLC	QUOTE #:	
		P.O. #:	Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
(1) A	RIR24SS 172SP702	4/25/24	953	SO	1	Grab		X	
(2) A	RIR24SS 173SP91.5	4/25/24	1030	SO	1	Grab		X	
(3) A	RIR24SS 174SP904	4/25/24	1032	SO	1	Grab		X	
(4) A	RIR24SS 175 SP901	4/25/24	1058	SO	1	Grab		X	
(5) A	RIR24SS 176SP903	4/25/24	1100	SO	1	Grab		X	
(6) A	RIR24SS 177SP91.5	4/25/24	1125	SO	1	Grab		X	
(7) A	RIR24SS 178SP906	4/25/24	1127	SO	1	Grab		X	
(8) A	RIR24SS 179SP901	4/25/24	1150	SO	1	Grab		X	
(9) A	RIR24SS 179SP9019	4/25/24	1151	SO	1	Grab		X	
(10) A	RIR24SS 180SP903	4/26/24	1152	SO	1	Grab		X	

Section 5

Relinquished By: (1) ~~Robert Melrose~~	Date: 4/25/24	Time: 1800	Received By:
Relinquished By: (2)	Date:	Time:	Received By:
Relinquished By: (3)	Date:	Time:	Received By:
Relinquished By: (4)	Date: 4/26/24	Time: 0800	Received For Laboratory By:

Section 4 — DOD Project? Yes No

Cooler ID: RIR004

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 HR Turnaround

Temp Blank °C: 1.8° #D63 or Ambient [ ]

Chain of Custody Seal: (Circle) (-F)I-R INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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CHAIN OF CUSTODY RECORD

1241713

Revised Report - Revision 2

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incre-mental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS
14 15 16 C	RIR24SS181SP91.5	4/25/24	1210	SO	3	Grab		X	MS/MSD
14 A	RIR24SS182SP902	4/25/24	1240	SO	1	Grab		X	
15 A	RIR24SS183SP904	4/25/24	1242	SO	1	Grab		X	
16 A	RIR24SS184SP101.5	4/25/24	1310	SO	1	Grab		X	
17 A	RIR24SS 185SP1003	4/25/24	1312	SO	1	Grab		X	
18 A	RIR24SS 186SP1002	4/25/24	1320	SO	1	Grab		X	
19 A	RIR24SS 187SP1004	4/25/24	1322	SO	1	Grab		X	
20 A	RIR24SS 188SP51.5	4/25/24	1430	SO	1	Grab		X	
21 A	RIR24SS 189SP504	4/25/24	1432	SO	1	Grab		X	
22 A	RIR24SS 190SP51.5	4/25/24	1440	SO	1	Grab		X	

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/25/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/26/24	0800	Received For Laboratory By:

Section 4 — DOD Project? Yes No — Data Deliverable Requirements:

Cooler ID: BIR004

Requested Turnaround Time and/or Special Instructions:

24 HR Turnaround Time

Temp Blank °C: 1.8 #D63 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [ ]

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1241713 Revised Report - Revision 2

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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
23 A	RIR24SS190SP51.5	4/25/24	1441	SO	1	Grab		X	
24 A	RIR24SS191SP535	4/25/24	1442	SO	1	Grab		X	
25 A	RIR24 SS192SP21.5	4/25/24	1456	SO	1	Grab		X	
26 A	RIR24 SS193SP101	4/25/24	1500	SO	1	Grab		X	
27 A	RIR24 SS194SP10.5	4/25/24	1510	SO	1	Grab		X	
28 A	RIR24 SS195SP101	4/25/24	1530	SO	1	Grab		X	
29 A	RIR24 SS196SP102	4/25/24	1540	SO	1	Grab		X	
30 A	RIR24 SS197SP902	4/25/24	1614	SO	1	Grab		X	
31 A	RIR24 SS198SP95.5	4/25/24	1616	SO	1	Grab		X	
32 A	RIR24 SS199SP902	4/25/24	1618	SO	1	Grab		X	

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/25/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/26/24	0800	Received for Laboratory By:

Section 4 — DOD Project? Yes No — Data Deliverable Requirements:

Cooler ID: RIR004

Requested Turnaround Time and/or Special Instructions:

24 HR Turnaround

Temp Blank °C: 1.8° #D63 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

http://www.sgs.com/terms-and-conditions

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1241713

Revised Report - Revision 2

us.sgs.com

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois | PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI | PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl | E-MAIL: jdahl@alaskapeninsulacorp.com | Profile #:

INVOICE TO: TALCES JV, LLC | QUOTE #: | P.O. #: Ralston Is.

Section 3 — Preservative

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	Analysis* 4°C DRO-SG	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS — REMARKS/LOC ID
32A	RIR24SS2005P903	4/25/24	1620	SO	1	Grab		X	
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								
	RIR24								

Section 5

	Date	Time	
Relinquished By: (1) ~~Robert Melrose~~	4/25/24	1800	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	4/26/24	0800	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID: RIR004

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 Hr Turn around

Temp Blank °C: 1.8 #063 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

http://www.sgs.com/terms-and-conditions

1241713

SGS

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	(Yes)	No	N/A	
Was temperature between 0-6° C?	(Yes)	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	(Yes)	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	(Yes)	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	(N/A)	
If rush was requested by the client, was the requested TAT approved?	(Yes)	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	(N/A)	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	(Yes)	No	N/A	
If provided on containers, do dates/times collected match COC?	(Yes)	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	(Yes)	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	(Yes)	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	(N/A)	
Were all VOA vials free of headspace >6mm?	Yes	No	(N/A)	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	(N/A)	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	(N/A)	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	(Yes)	No	N/A	MS/MSD
For Rush/Short Holding time, was the lab notified?	(Yes)	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	(N/A)	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	(N/A)	Reviewer Initials:

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

Run AK102 + AK103 w/SG.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241713001-A	No Preservative Required	OK			
1241713002-A	No Preservative Required	OK			
1241713003-A	No Preservative Required	OK			
1241713004-A	No Preservative Required	OK			
1241713005-A	No Preservative Required	OK			
1241713006-A	No Preservative Required	OK			
1241713007-A	No Preservative Required	OK			
1241713008-A	No Preservative Required	OK			
1241713009-A	No Preservative Required	OK			
1241713010-A	No Preservative Required	OK			
1241713011-A	No Preservative Required	OK			
1241713011-B	No Preservative Required	OK			
1241713011-C	No Preservative Required	OK			
1241713012-A	No Preservative Required	OK			
1241713012-B	No Preservative Required	OK			
1241713012-C	No Preservative Required	OK			
1241713013-A	No Preservative Required	OK			
1241713013-B	No Preservative Required	OK			
1241713013-C	No Preservative Required	OK			
1241713014-A	No Preservative Required	OK			
1241713015-A	No Preservative Required	OK			
1241713016-A	No Preservative Required	OK			
1241713017-A	No Preservative Required	OK			
1241713018-A	No Preservative Required	OK			
1241713019-A	No Preservative Required	OK			
1241713020-A	No Preservative Required	OK			
1241713021-A	No Preservative Required	OK			
1241713022-A	No Preservative Required	OK			
1241713023-A	No Preservative Required	OK			
1241713024-A	No Preservative Required	OK			
1241713025-A	No Preservative Required	OK			
1241713026-A	No Preservative Required	OK			
1241713027-A	No Preservative Required	OK			
1241713028-A	No Preservative Required	OK			
1241713029-A	No Preservative Required	OK			
1241713030-A	No Preservative Required	OK			
1241713031-A	No Preservative Required	OK			
1241713032-A	No Preservative Required	OK			
1241713033-A	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

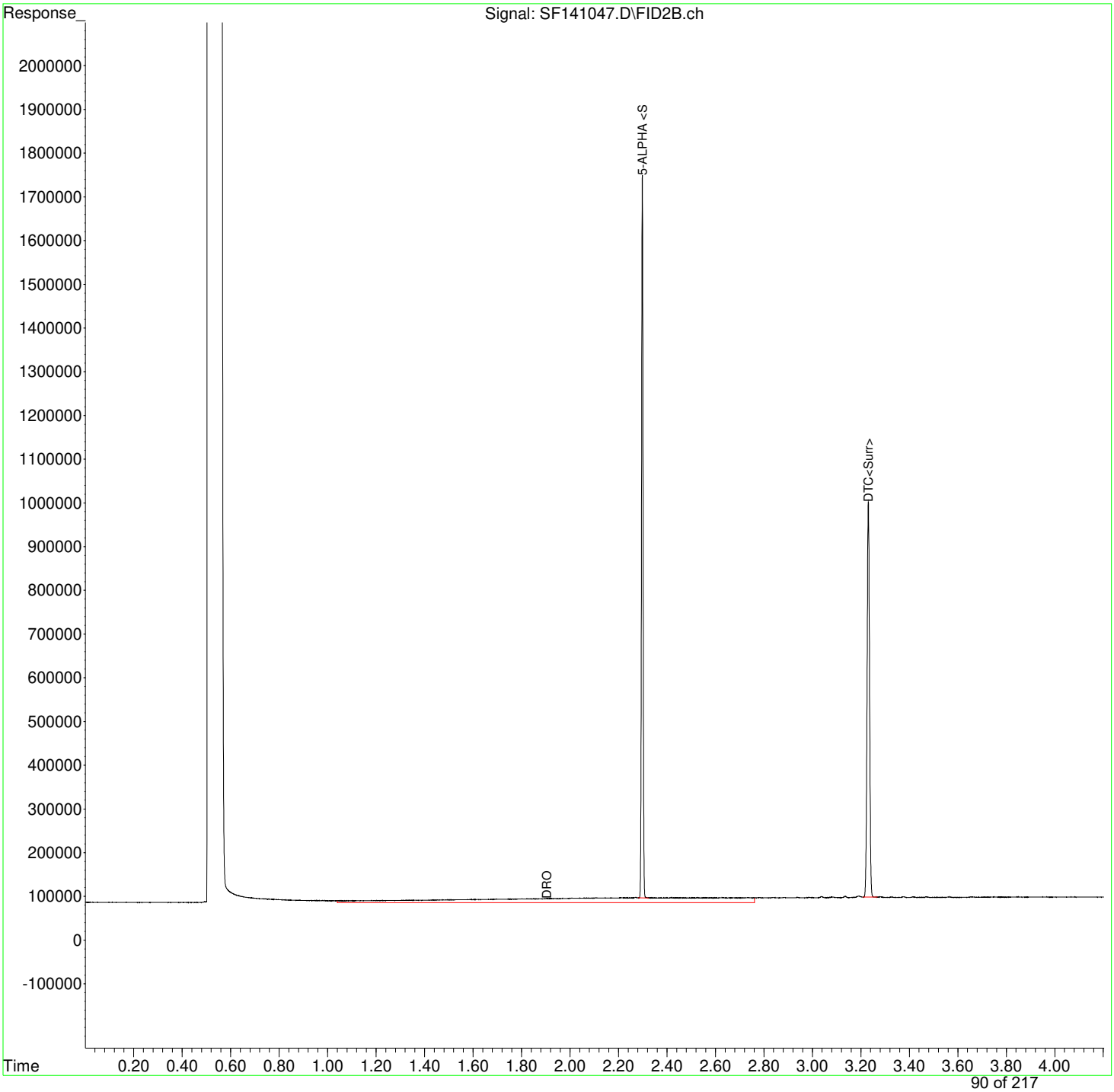
OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141047.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 13:22
Operator : T.L
Sample : IB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 13:40:12 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

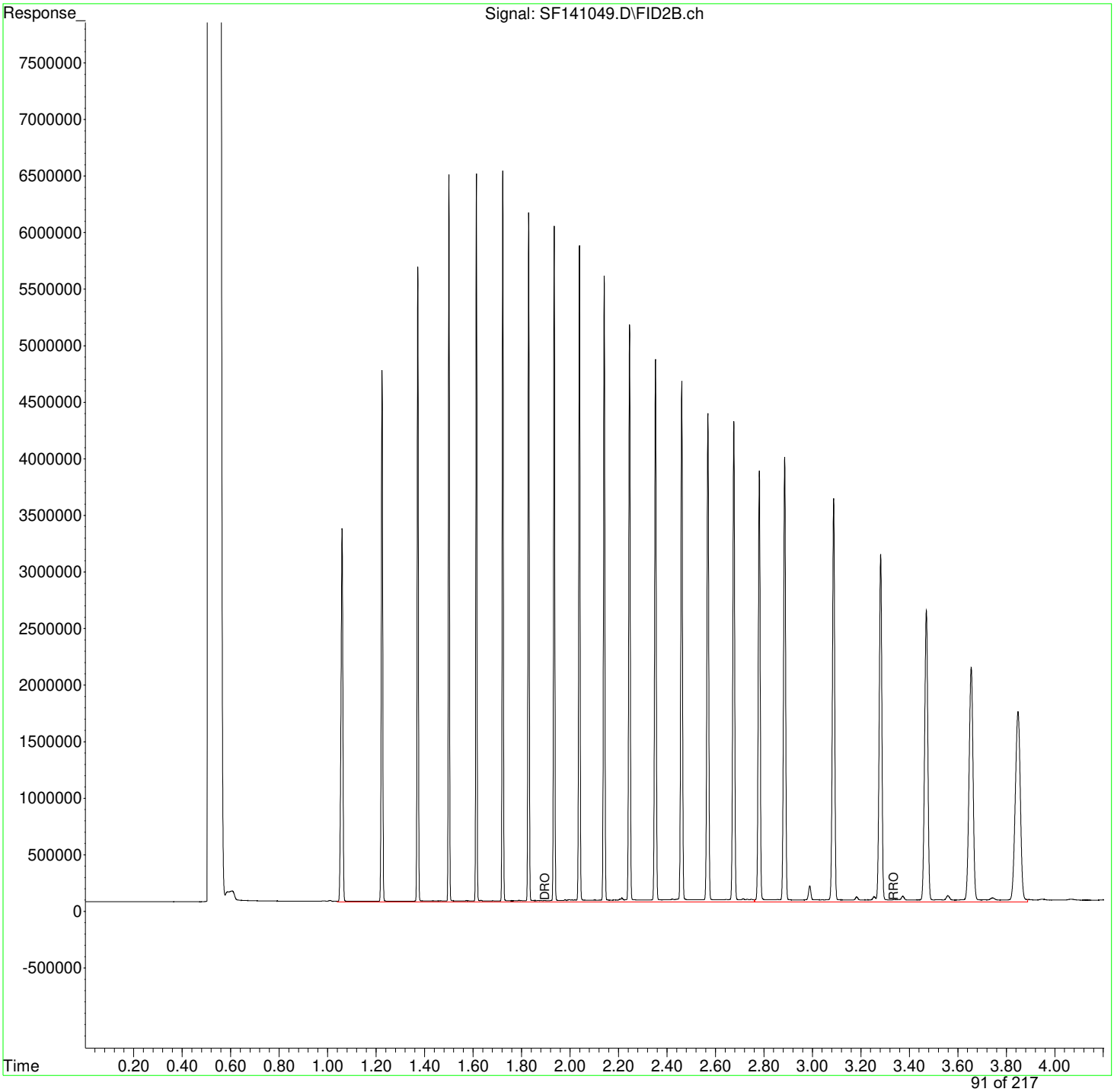


Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141049.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 13:32
Operator : T.L
Sample : NAS
Misc :
ALS Vial : 2 Sample Multiplier: 1

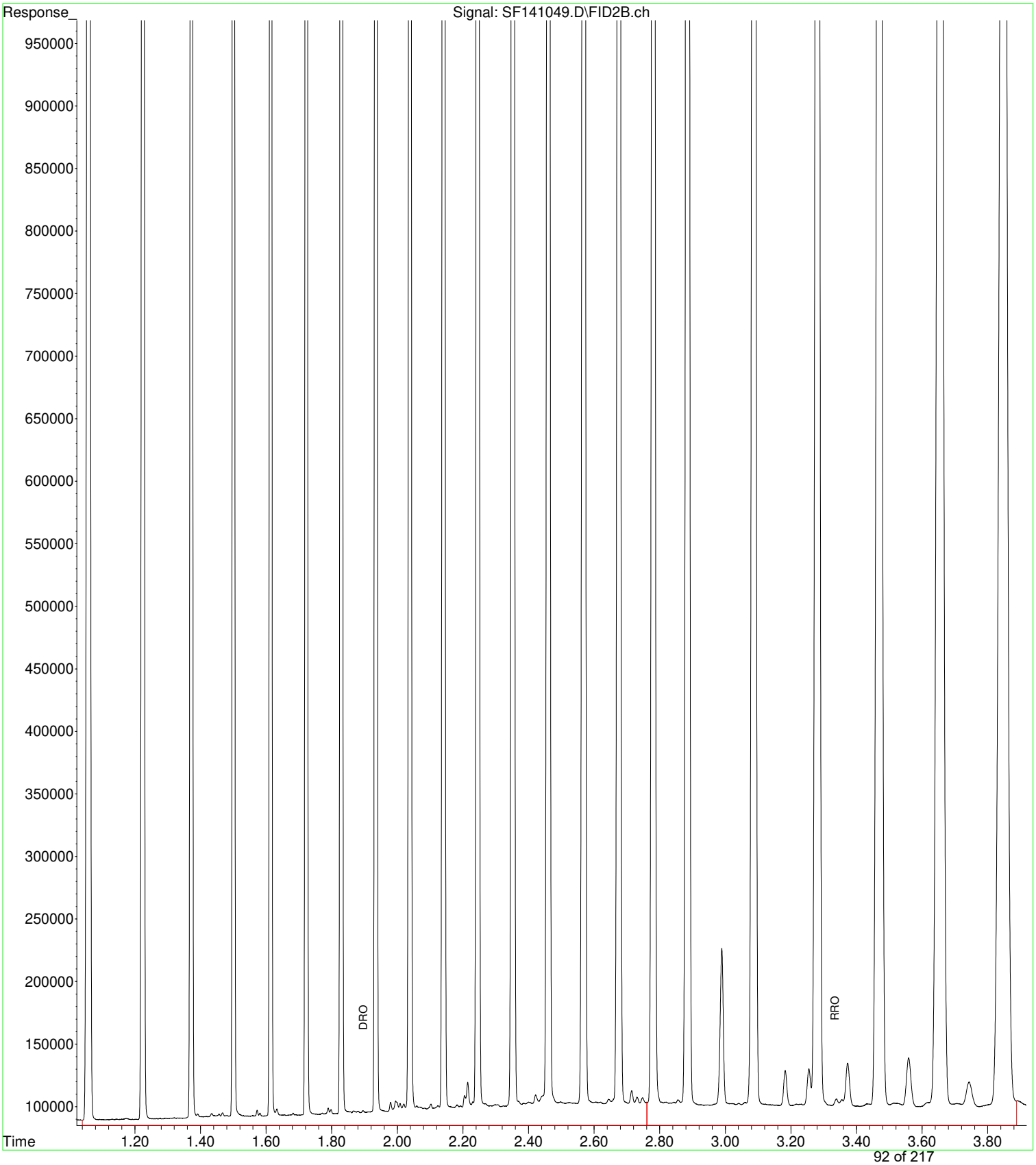
Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 13:40:04 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



File :Z:\DATA\SF\Data\SF04262024.SEC\SF141049.D
Operator : T.L
Acquired : 26 Apr 2024 13:32 using AcqMethod SF_MXTDUAL_2023.M
Instrument : SF
Sample Name: NAS
Misc Info :
Vial Number: 2

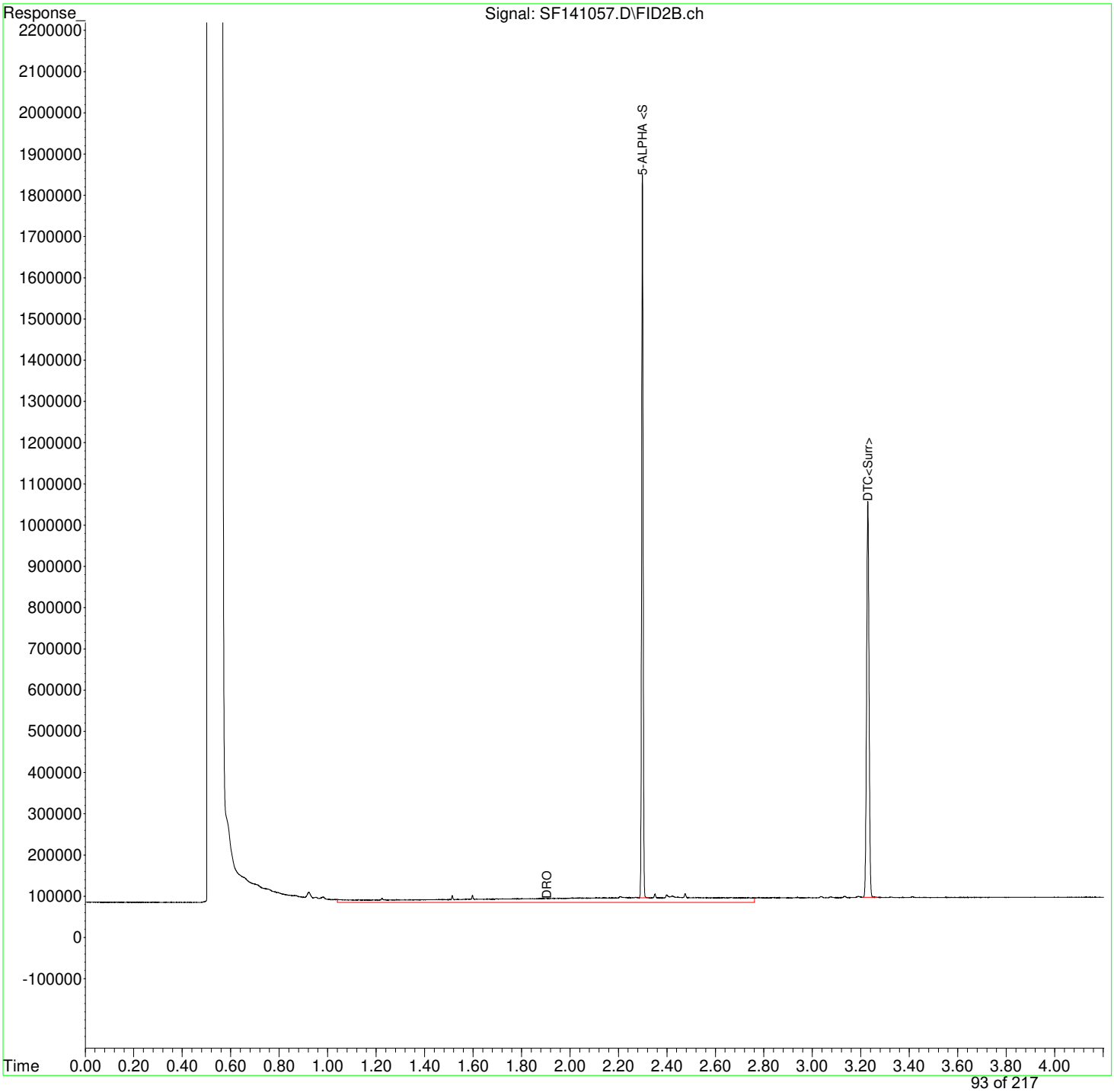


Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141057.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:12
Operator : T.L
Sample : 1761151 MB 49370
Misc :
ALS Vial : 71 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:05:54 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

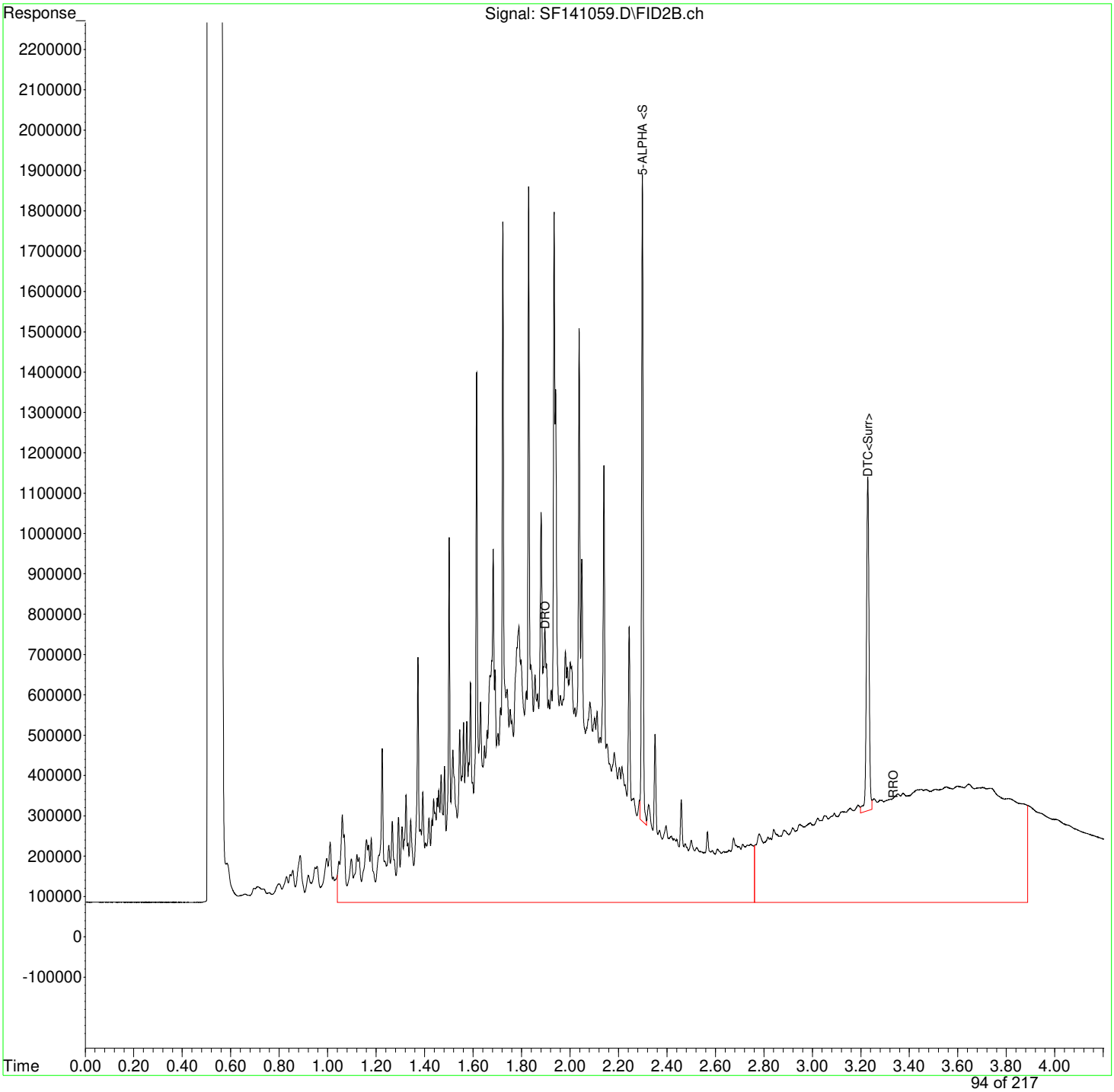


Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141059.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:22
Operator : T.L
Sample : 1761152 LCS 49370
Misc :
ALS Vial : 72 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:06:03 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141075.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:42
Operator : T.L
Sample : 1241713001
Misc :
ALS Vial : 80 Sample Multiplier: 1

Revised Report - Revision 2

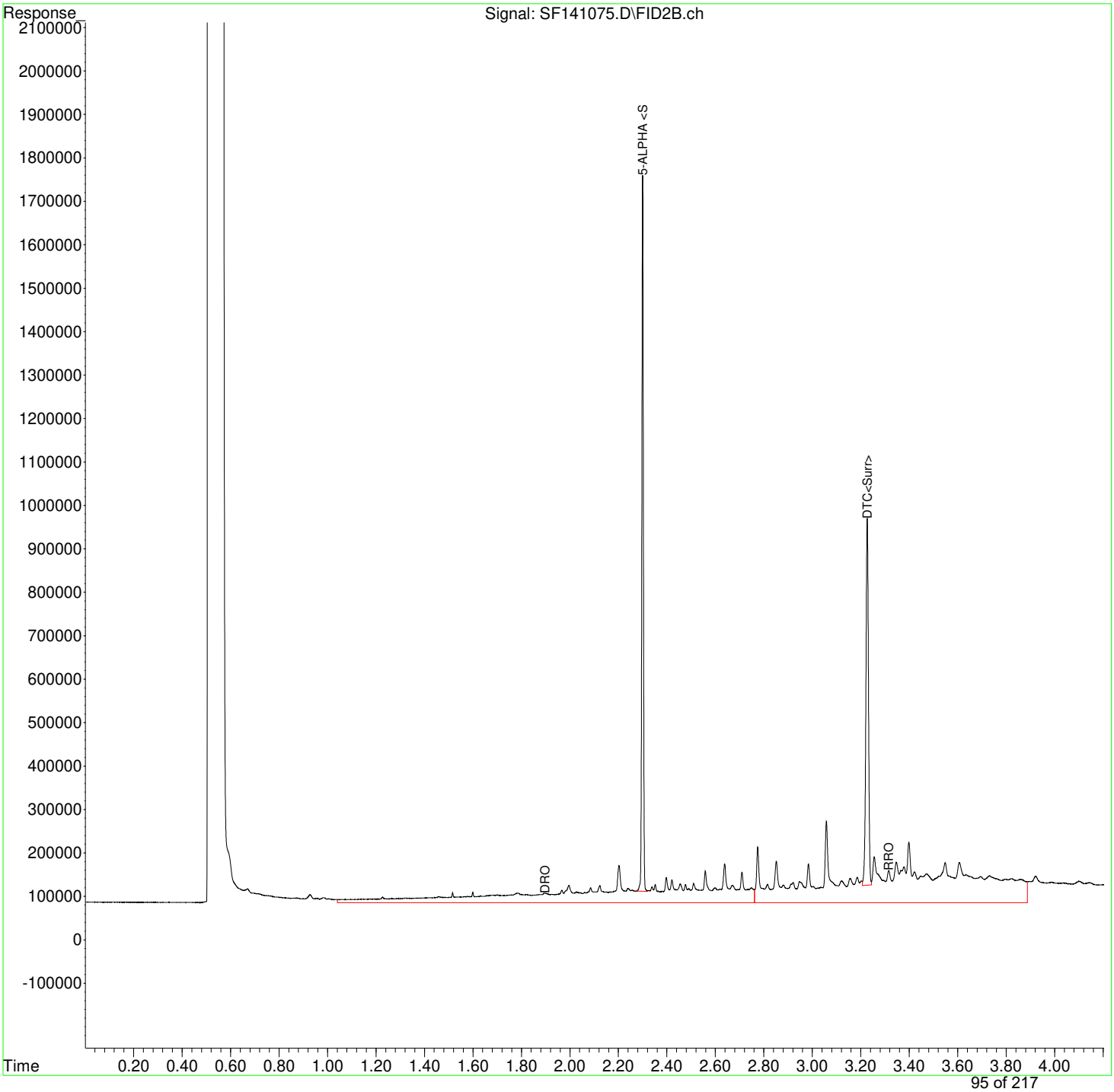
Integration File: autoint1.e
Quant Time: Apr 26 15:56:35 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141065.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:52
Operator : T.L
Sample : 1241713002
Misc :
ALS Vial : 75 Sample Multiplier: 1

Revised Report - Revision 2

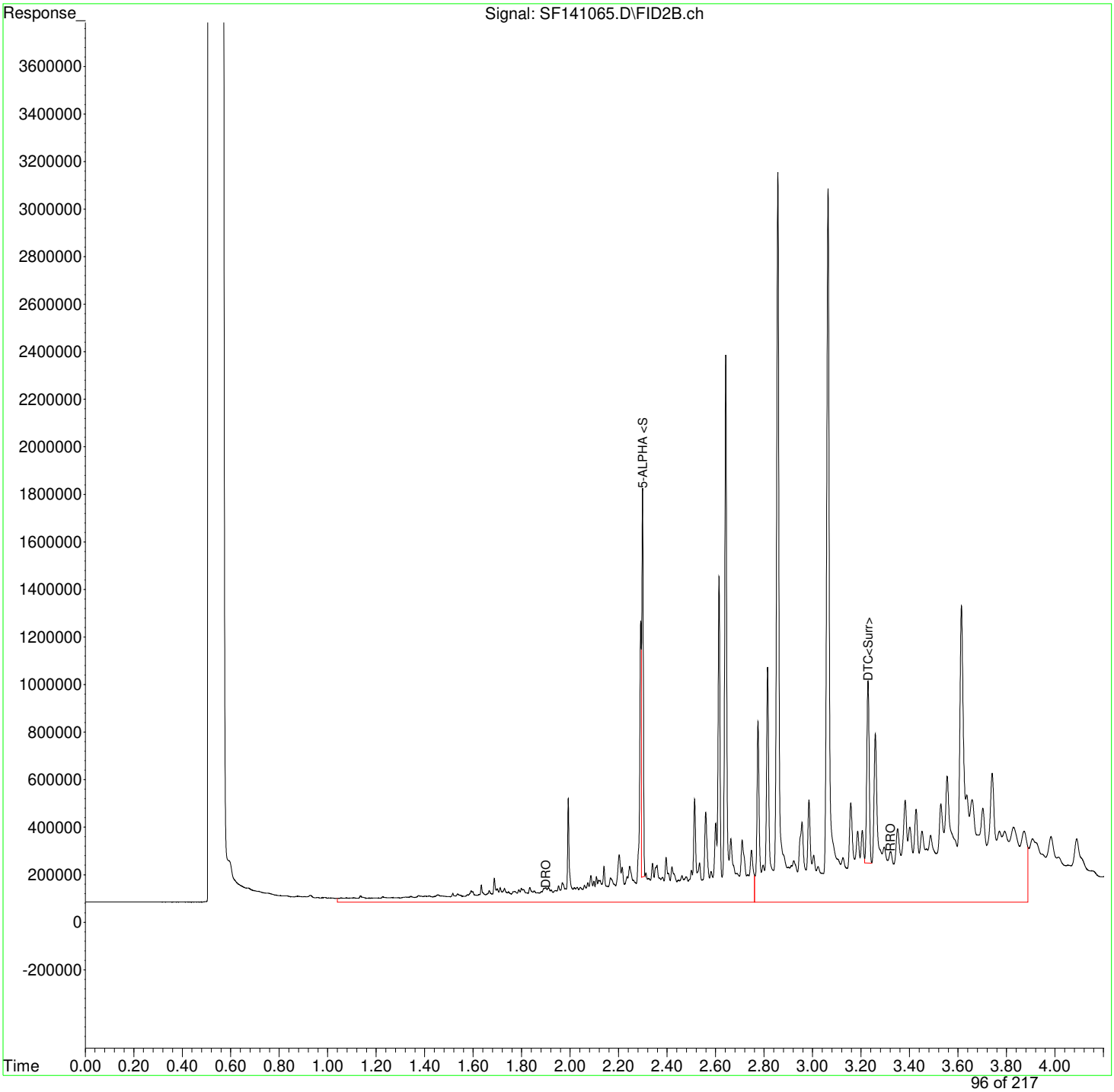
Integration File: autoint1.e
Quant Time: Apr 26 15:09:38 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



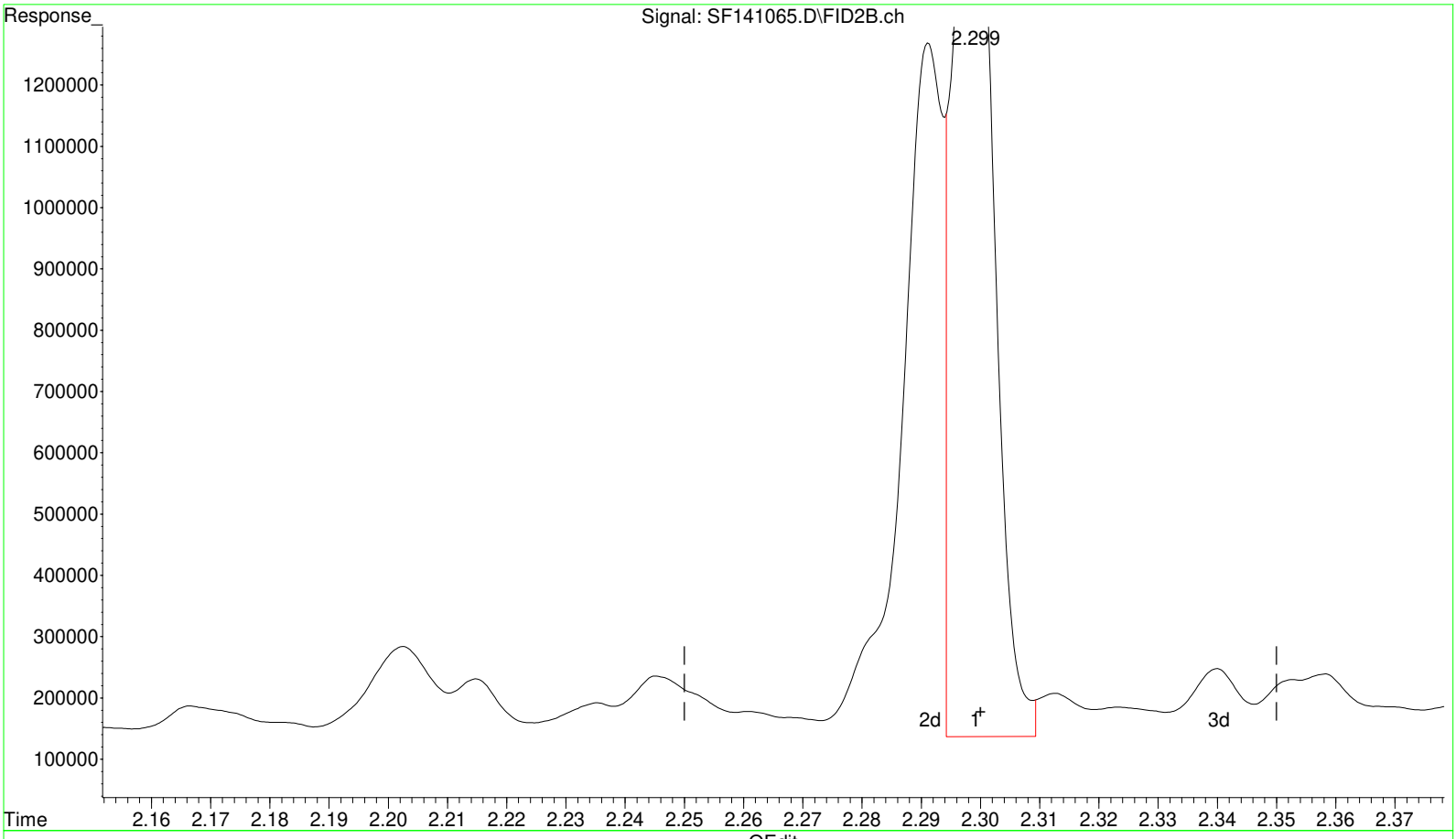
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141065.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:52
Operator : T.L
Sample : 1241713002
Misc :
ALS Vial : 75 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:09:04 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.299min 116.149 µg/mL

response 7867367

O-BLC

Apr 26, 2024

Zashid Khamu

Apr 30, 2024

(+) = Expected Retention Time

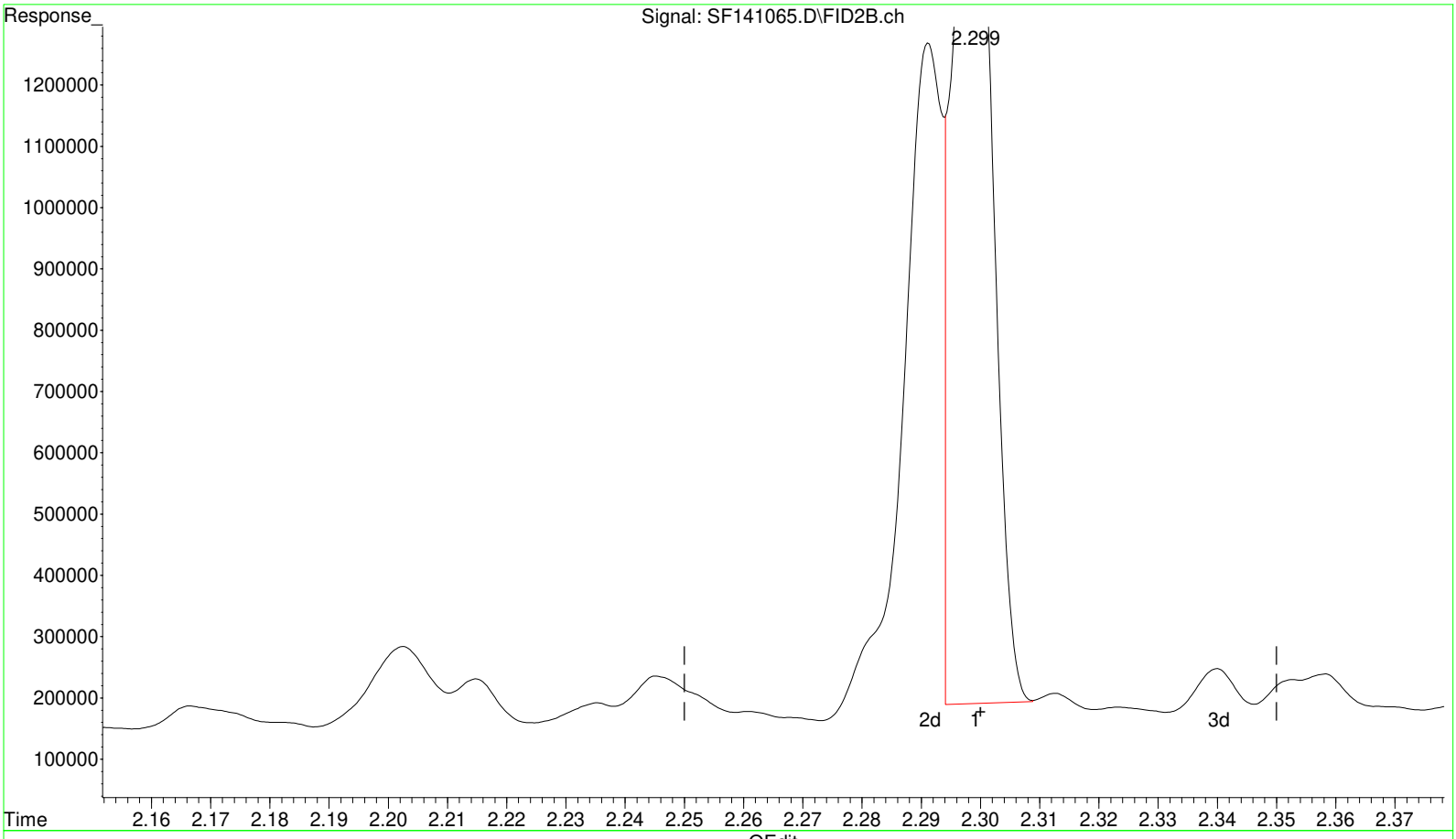
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141065.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:52
Operator : T.L
Sample : 1241713002
Misc :
ALS Vial : 75 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:09:04 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.299min 106.130 µg/mL m

response 7188718

M-BLC
Apr 26, 2024

Zashid Lhamu

Apr 30, 2024

(+) = Expected Retention Time

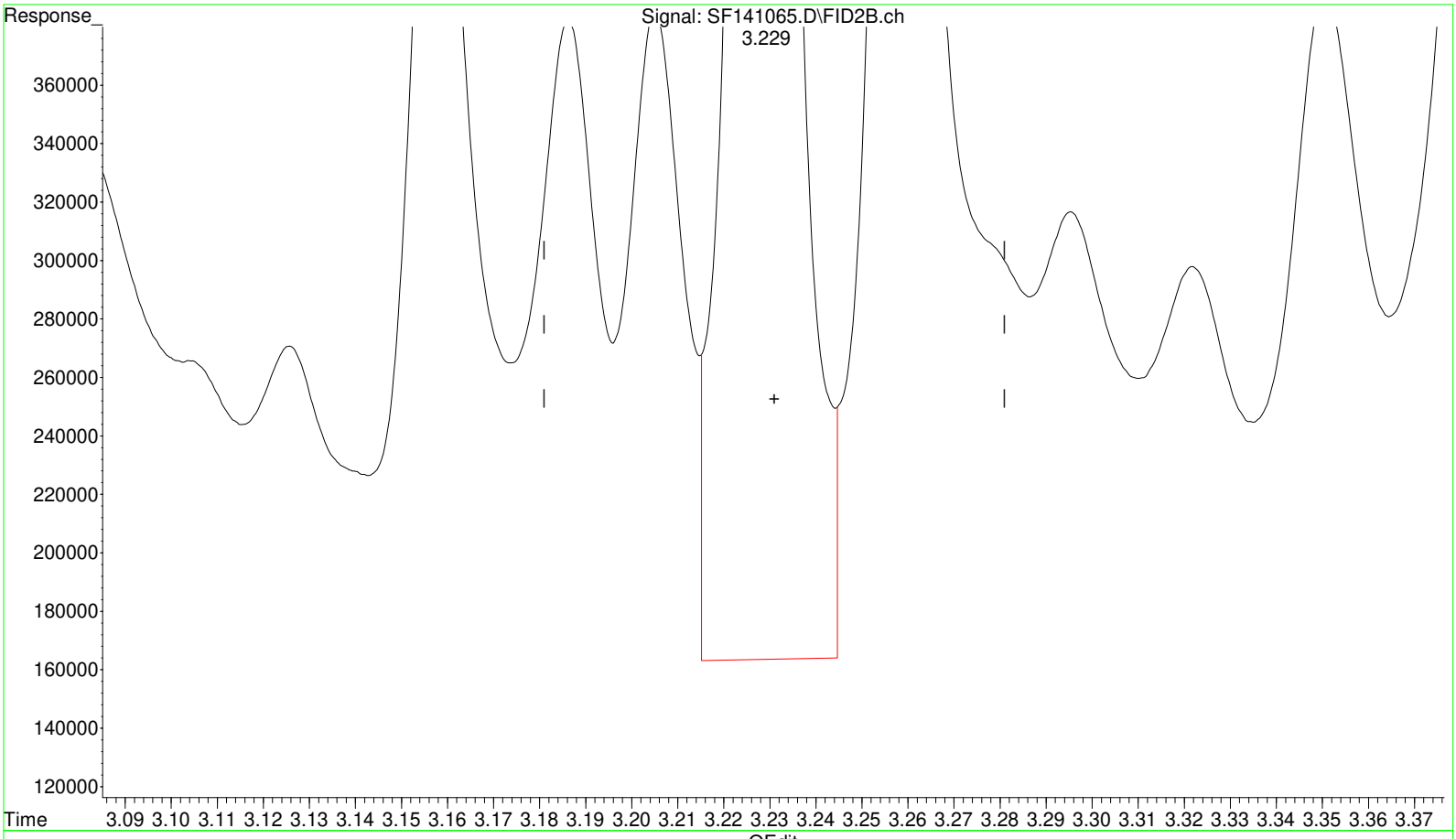
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141065.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:52
Operator : T.L
Sample : 1241713002
Misc :
ALS Vial : 75 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:09:04 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 113.957 µg/mL

response 6887040

O-BLC

Apr 26, 2024

Zashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

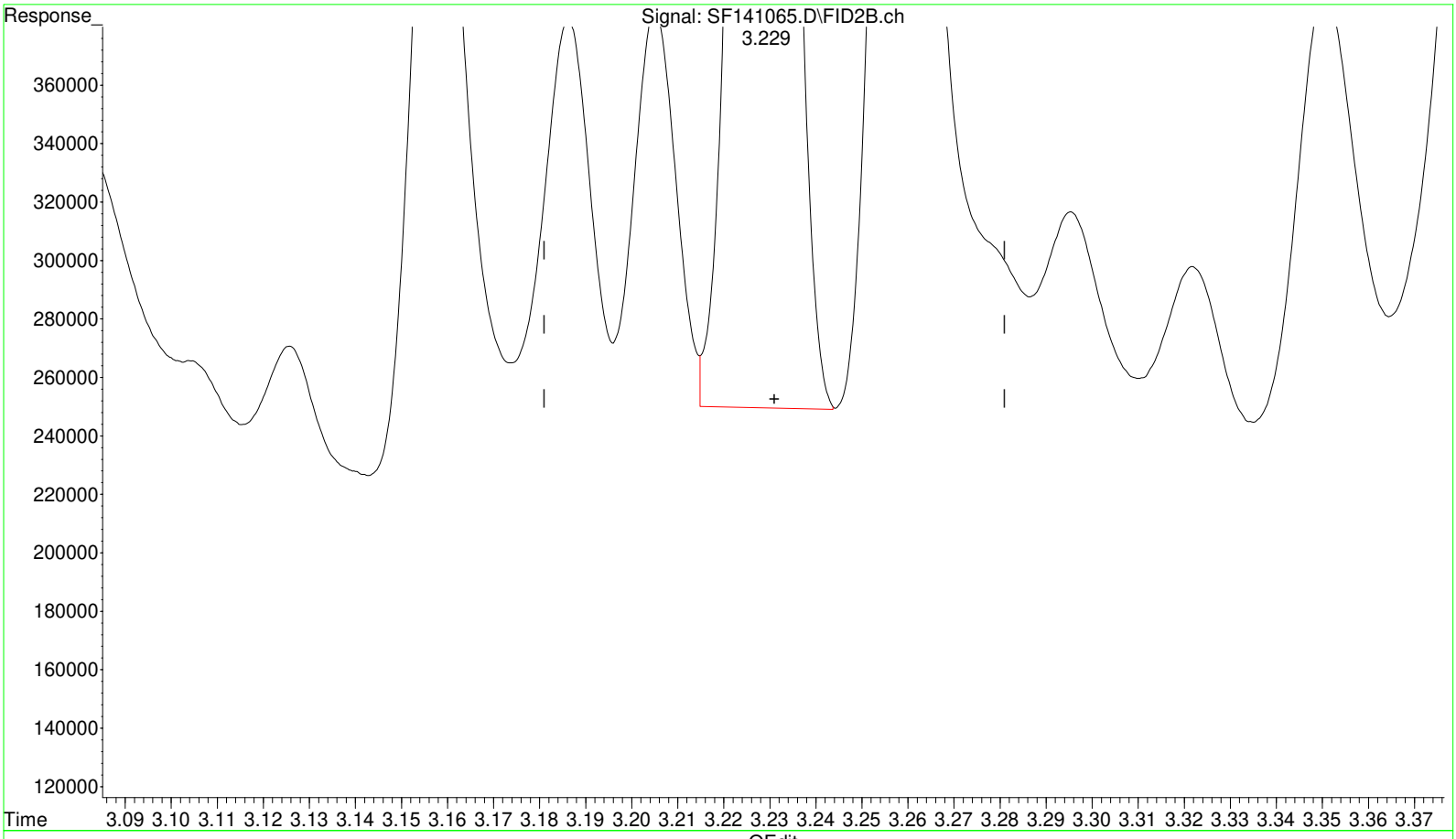
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141065.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:52
Operator : T.L
Sample : 1241713002
Misc :
ALS Vial : 75 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:09:04 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 88.737 µg/mL m

response 5362839

M-BLC
Apr 26, 2024

Zashid Khamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141073.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:32
Operator : T.L
Sample : 1241713003
Misc :
ALS Vial : 79 Sample Multiplier: 1

Revised Report - Revision 2

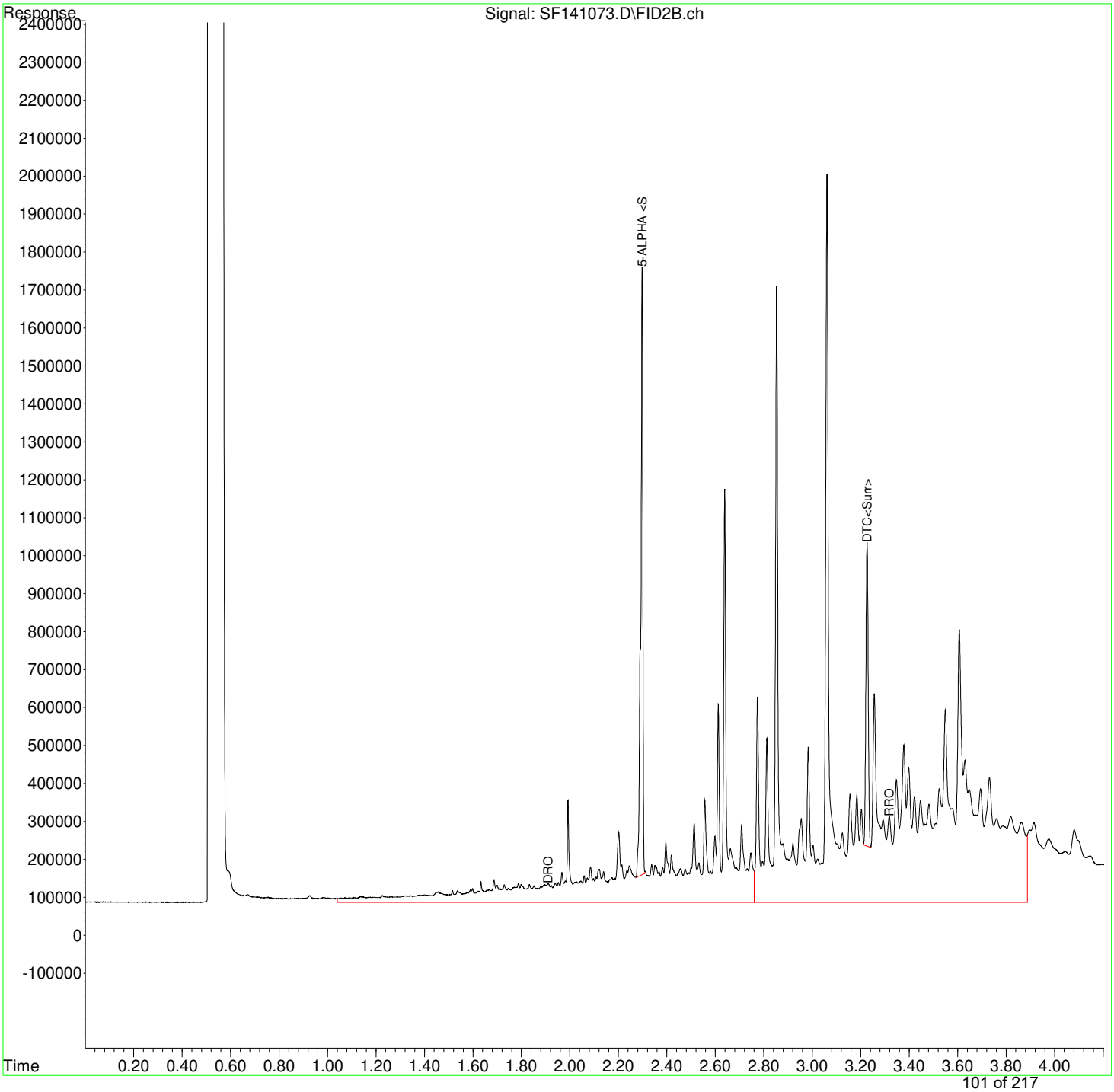
Integration File: autoint1.e
Quant Time: Apr 26 19:07:14 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

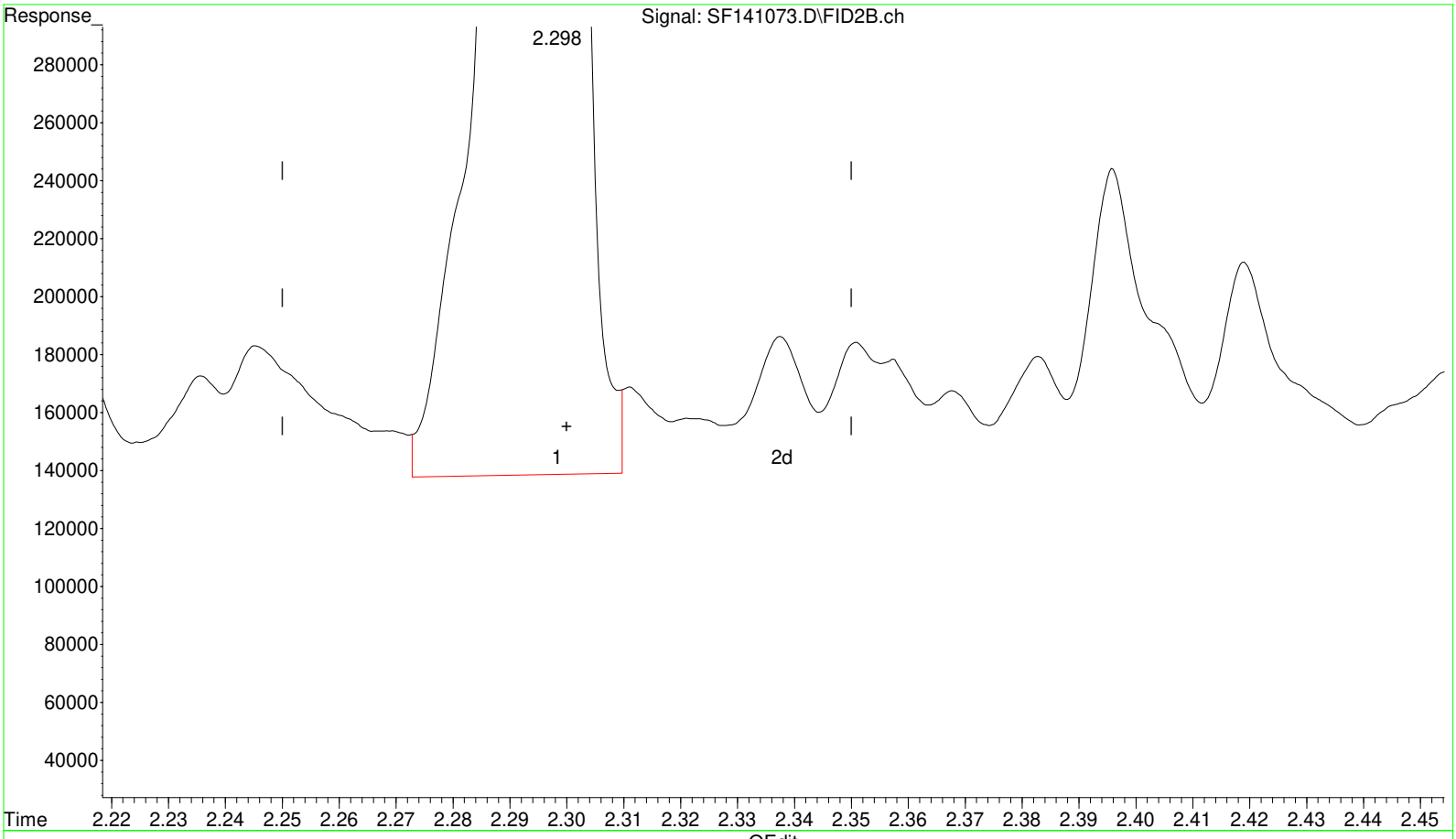


Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141073.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:32
Operator : T.L
Sample : 1241713003
Misc :
ALS Vial : 79 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 19:06:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 151.240 µg/mL

response 10244271

O-BLC
Apr 26, 2024

Zashid Khamu

Apr 30, 2024

(+) = Expected Retention Time

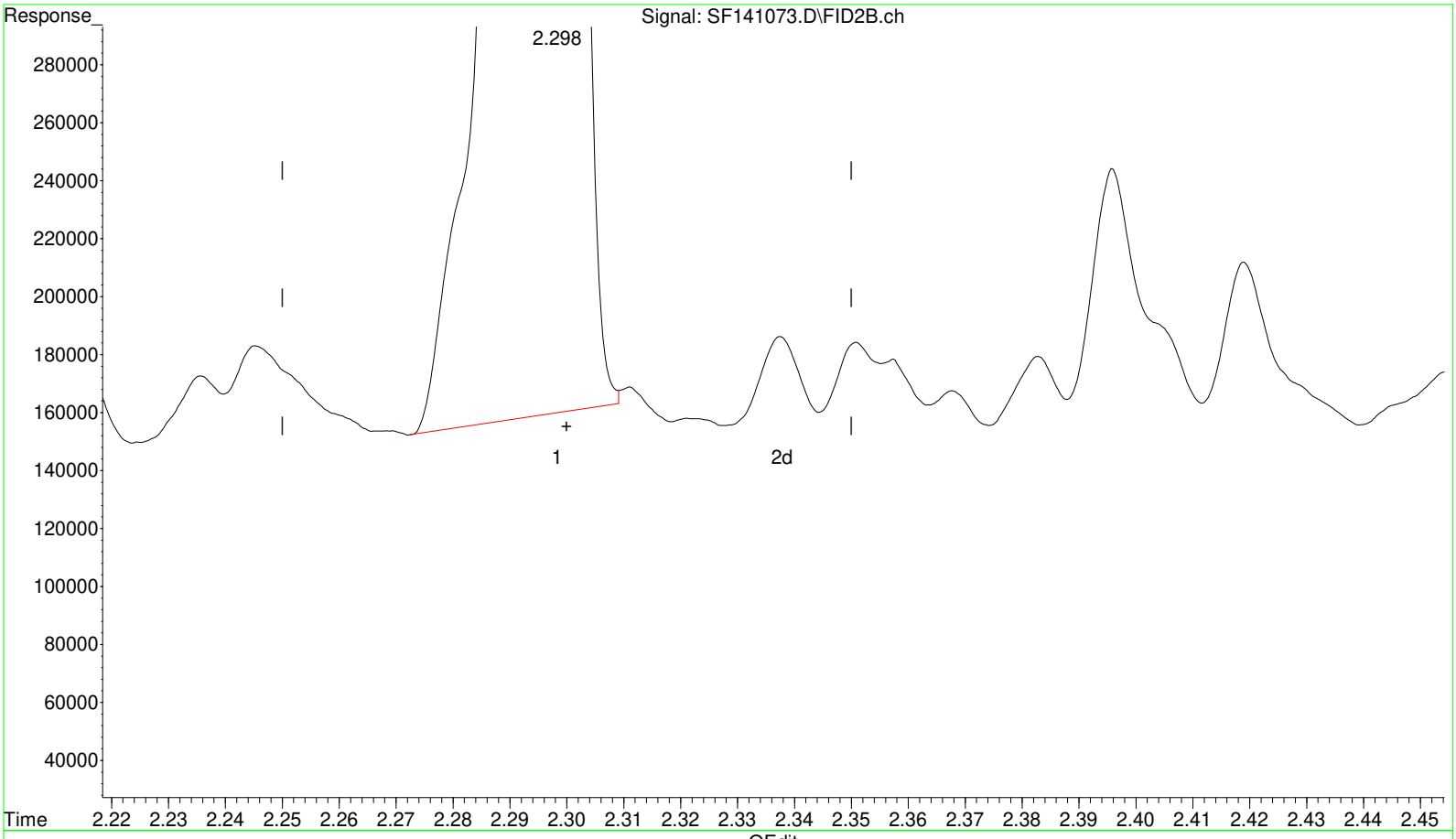
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141073.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:32
Operator : T.L
Sample : 1241713003
Misc :
ALS Vial : 79 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 19:06:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 144.928 µg/mL m

response 9816710

M-BLC
Apr 26, 2024

Zashi Lhamu

Apr 30, 2024

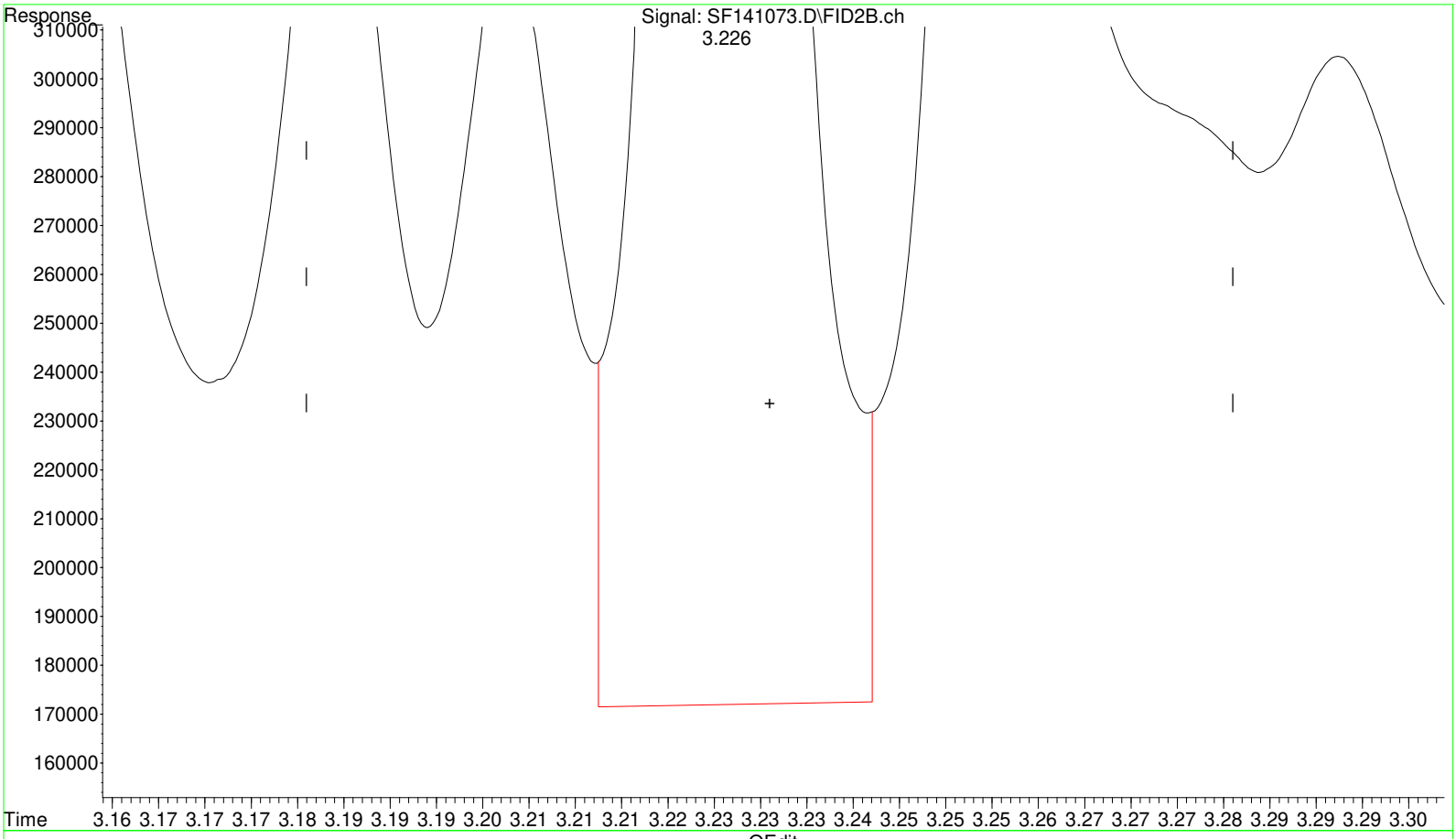
(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141073.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:32
Operator : T.L
Sample : 1241713003
Misc :
ALS Vial : 79 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 19:06:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)
3.226min 106.941 µg/mL
response 6463030

O-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

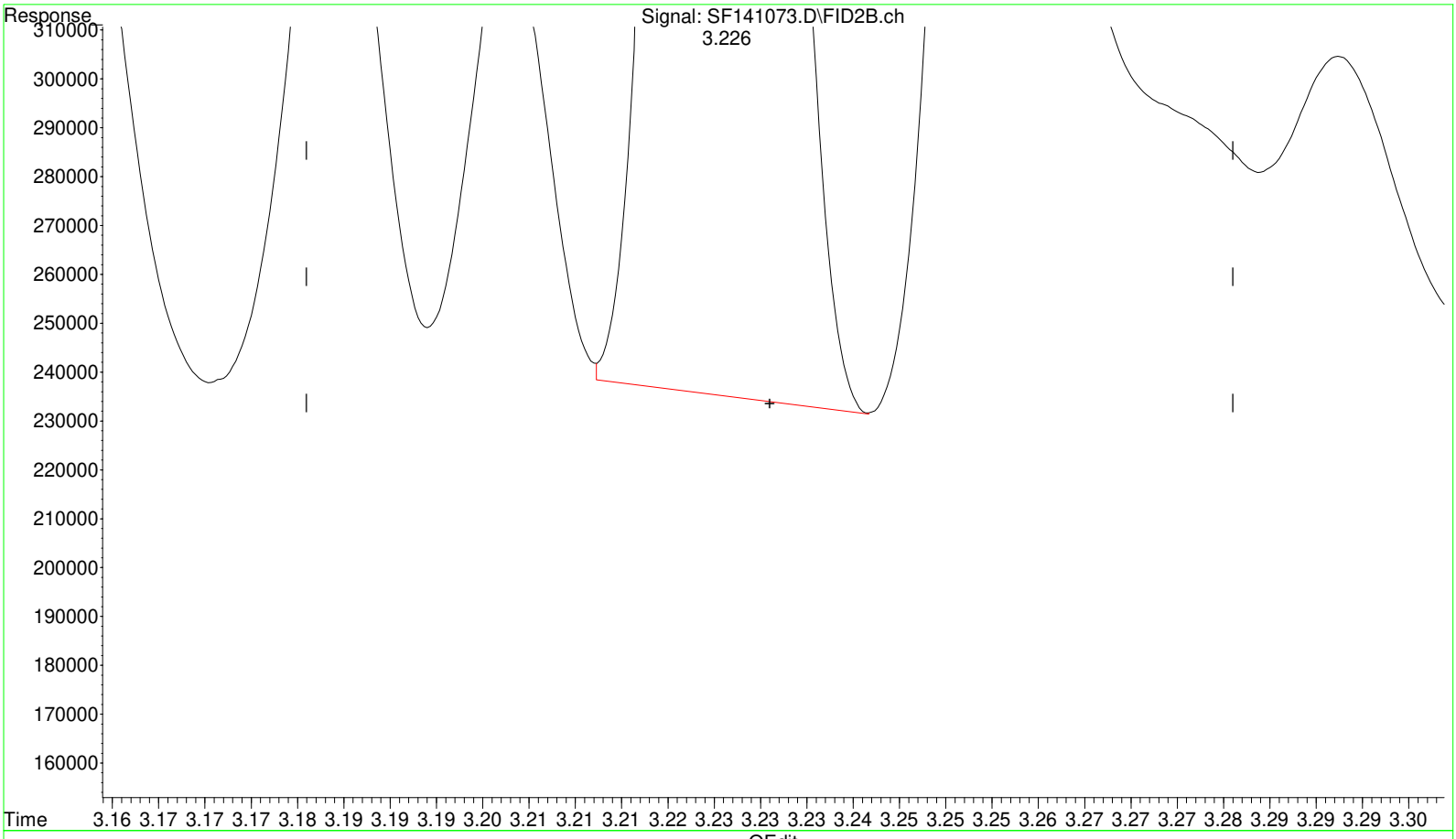
(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141073.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:32
Operator : T.L
Sample : 1241713003
Misc :
ALS Vial : 79 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 19:06:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



QEdit

(4) DTC<Surr> (S)

3.226min 88.477 µg/mL m

response 5347170

M-BLC
Apr 26, 2024

Zashid Khamu

Apr 30, 2024

Bruce Pate

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141071.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:22
Operator : T.L
Sample : 1241713004
Misc :
ALS Vial : 78 Sample Multiplier: 1

Revised Report - Revision 2

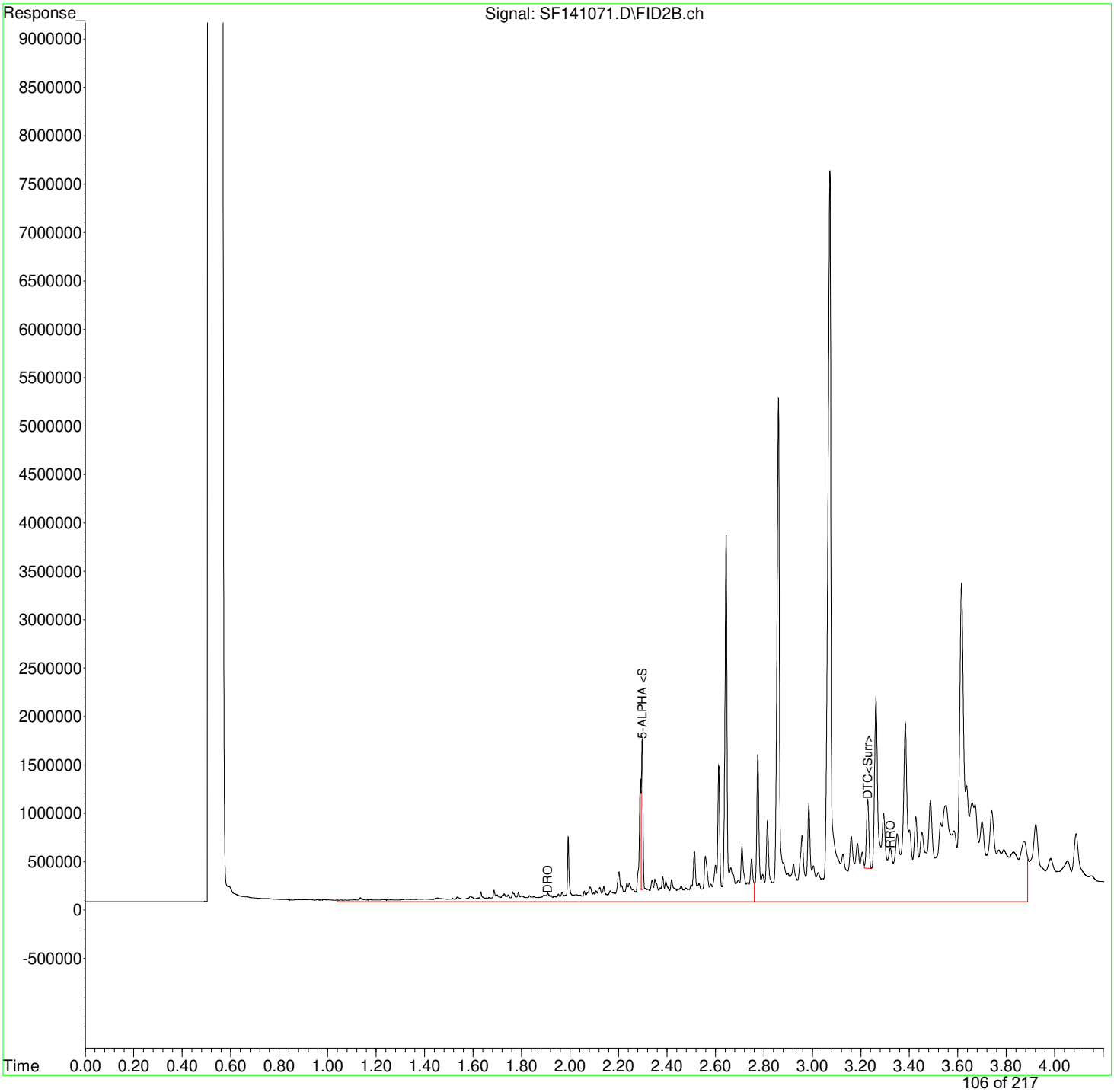
Integration File: autoint1.e
Quant Time: Apr 26 15:43:33 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



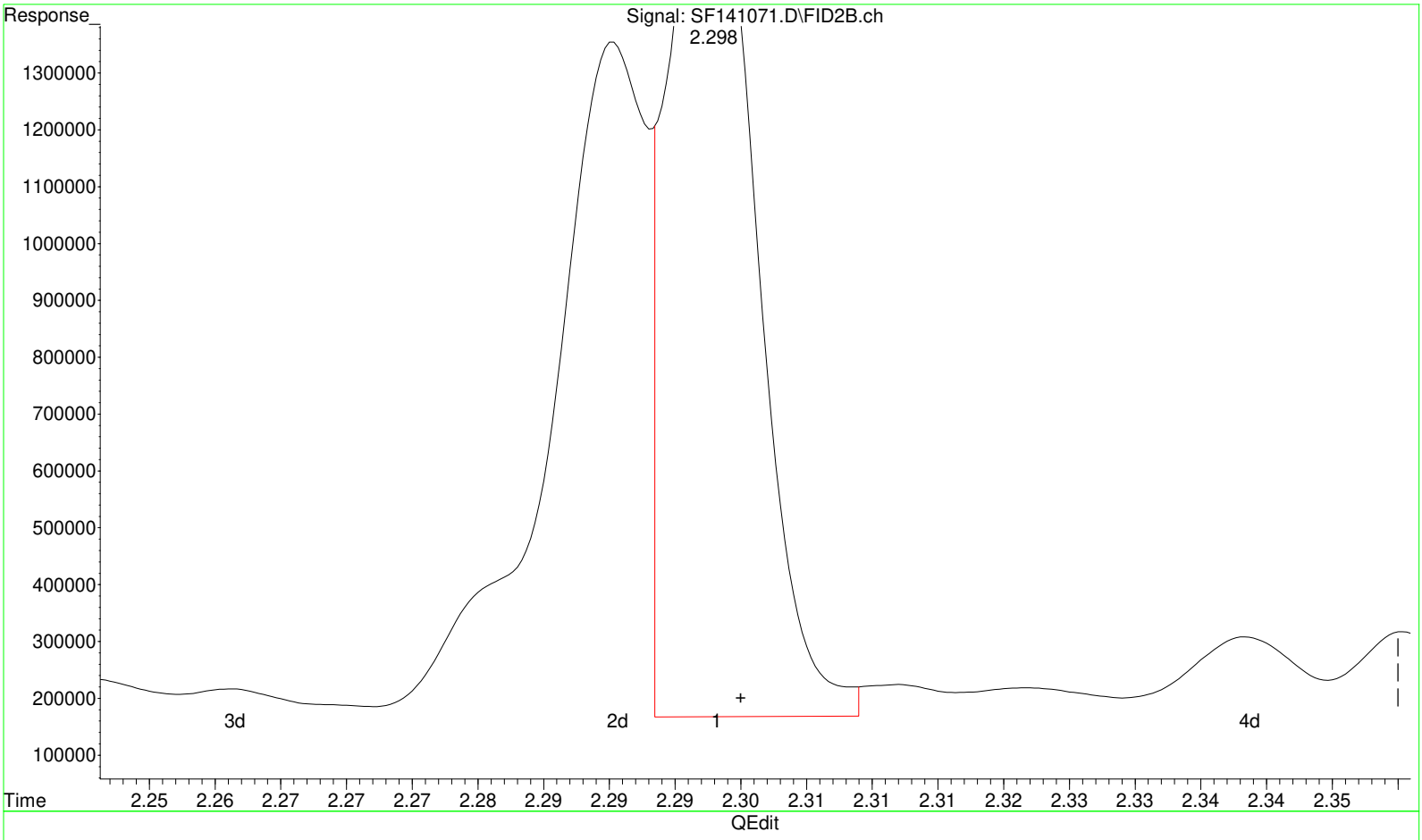
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141071.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:22
Operator : T.L
Sample : 1241713004
Misc :
ALS Vial : 78 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:42:18 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 110.842 µg/mL

response 7507869

O-BLC

Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

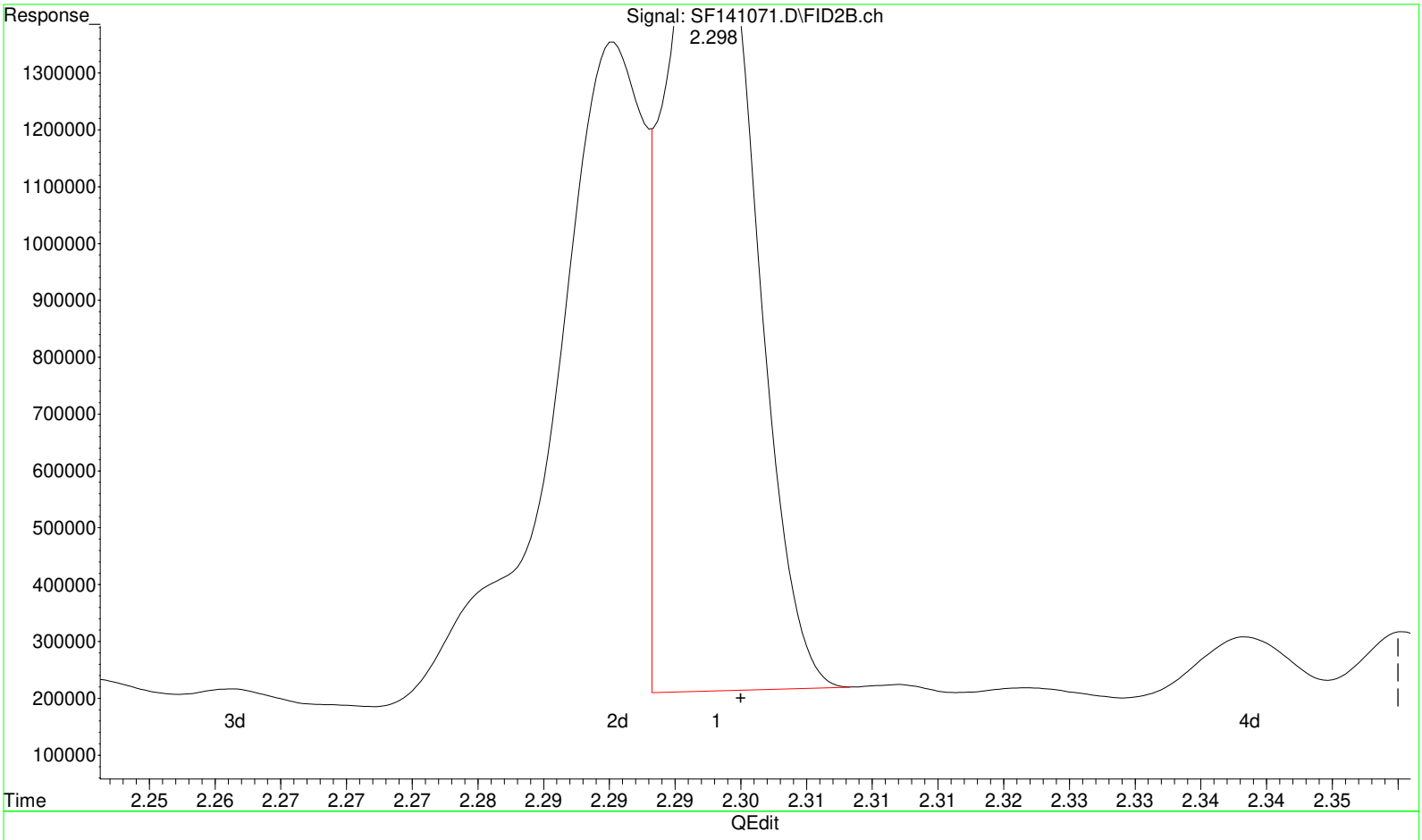
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141071.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:22
Operator : T.L
Sample : 1241713004
Misc :
ALS Vial : 78 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:42:18 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 102.765 µg/mL m

response 6960777

M-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

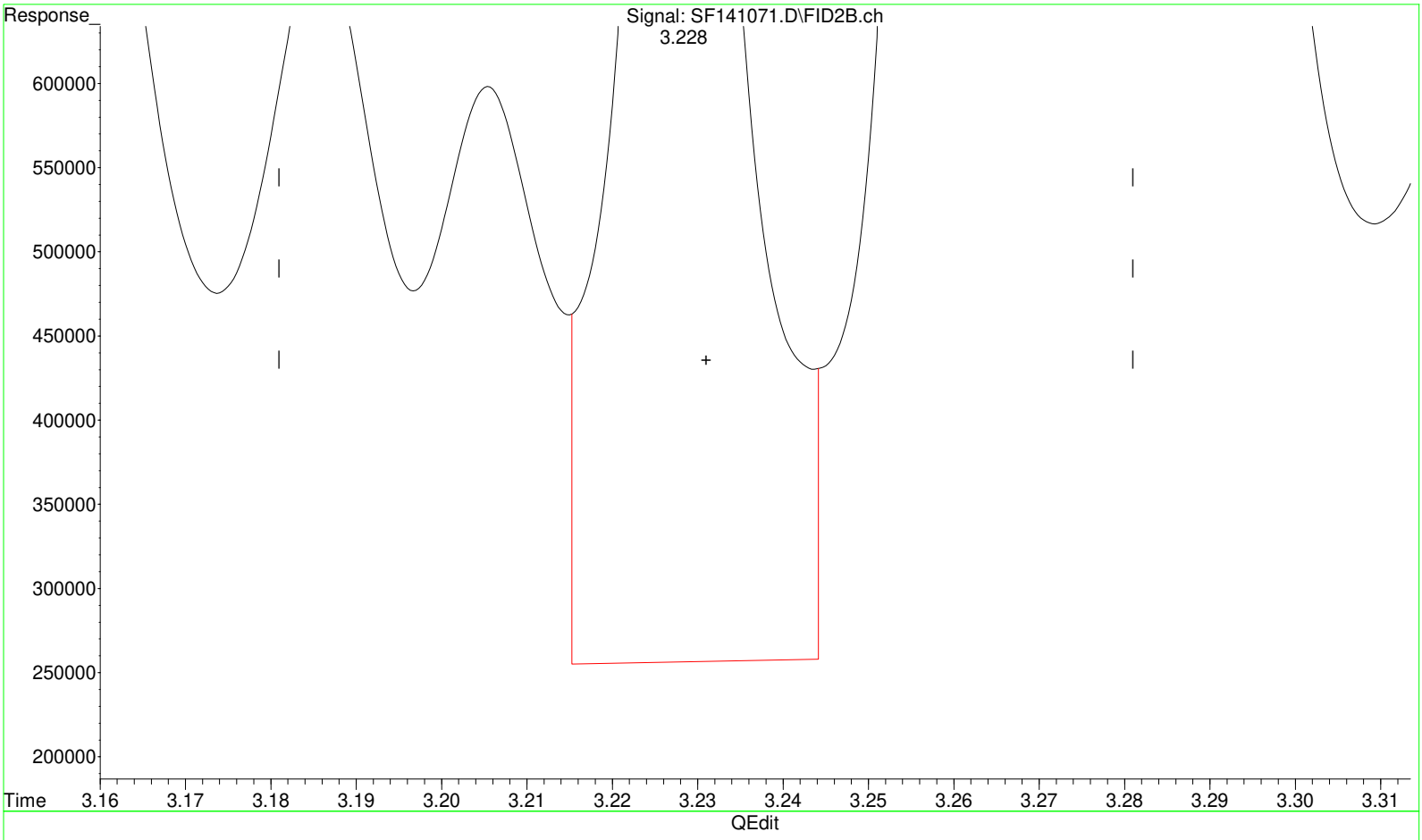
(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141071.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:22
Operator : T.L
Sample : 1241713004
Misc :
ALS Vial : 78 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:42:18 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 132.271 µg/mL

response 7993863

O-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Gate

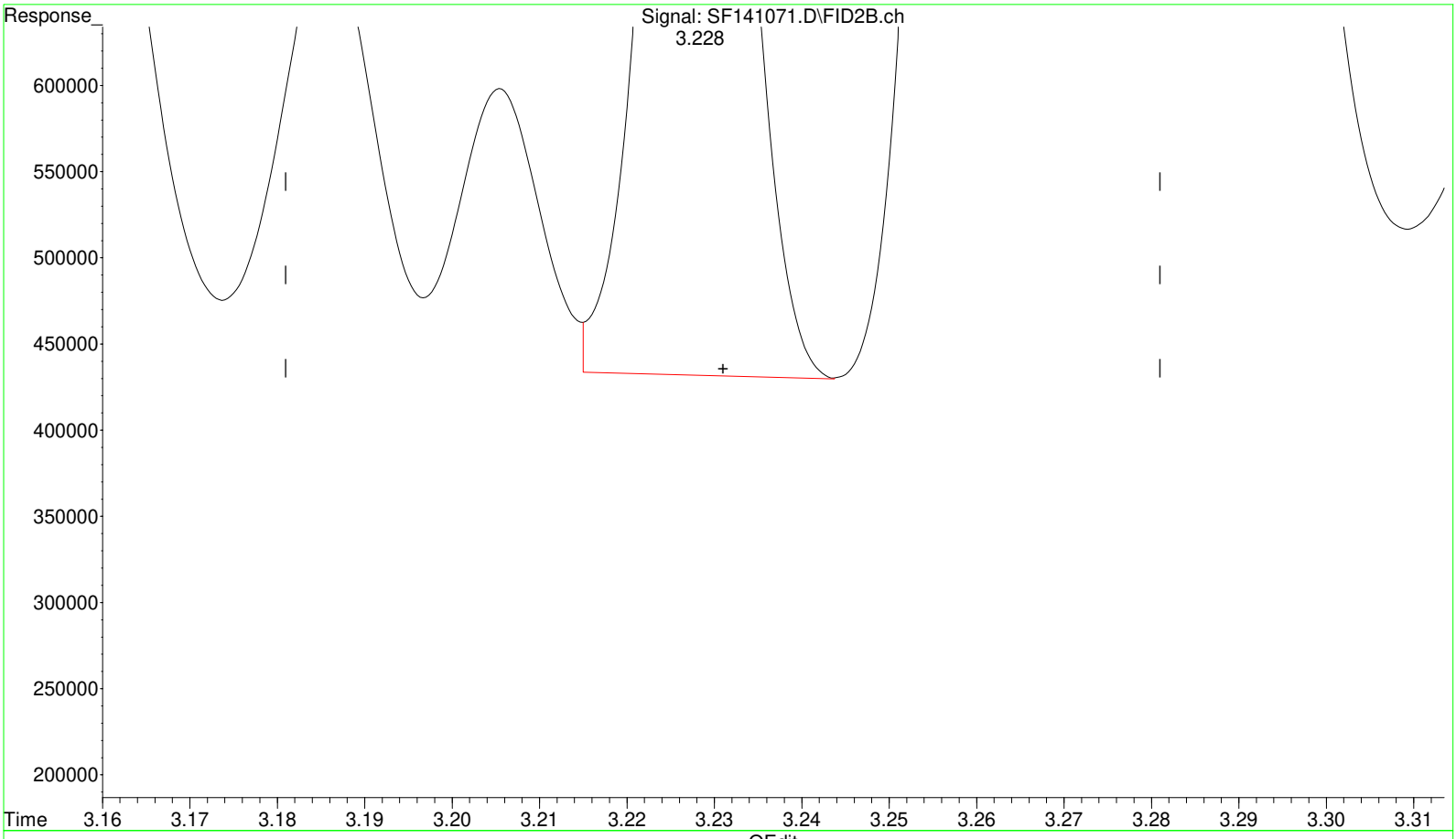
(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141071.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:22
Operator : T.L
Sample : 1241713004
Misc :
ALS Vial : 78 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:42:18 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 81.998 µg/mL m

response 4955599

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141069.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:12
Operator : T.L
Sample : 1241713005
Misc :
ALS Vial : 77 Sample Multiplier: 1

Revised Report - Revision 2

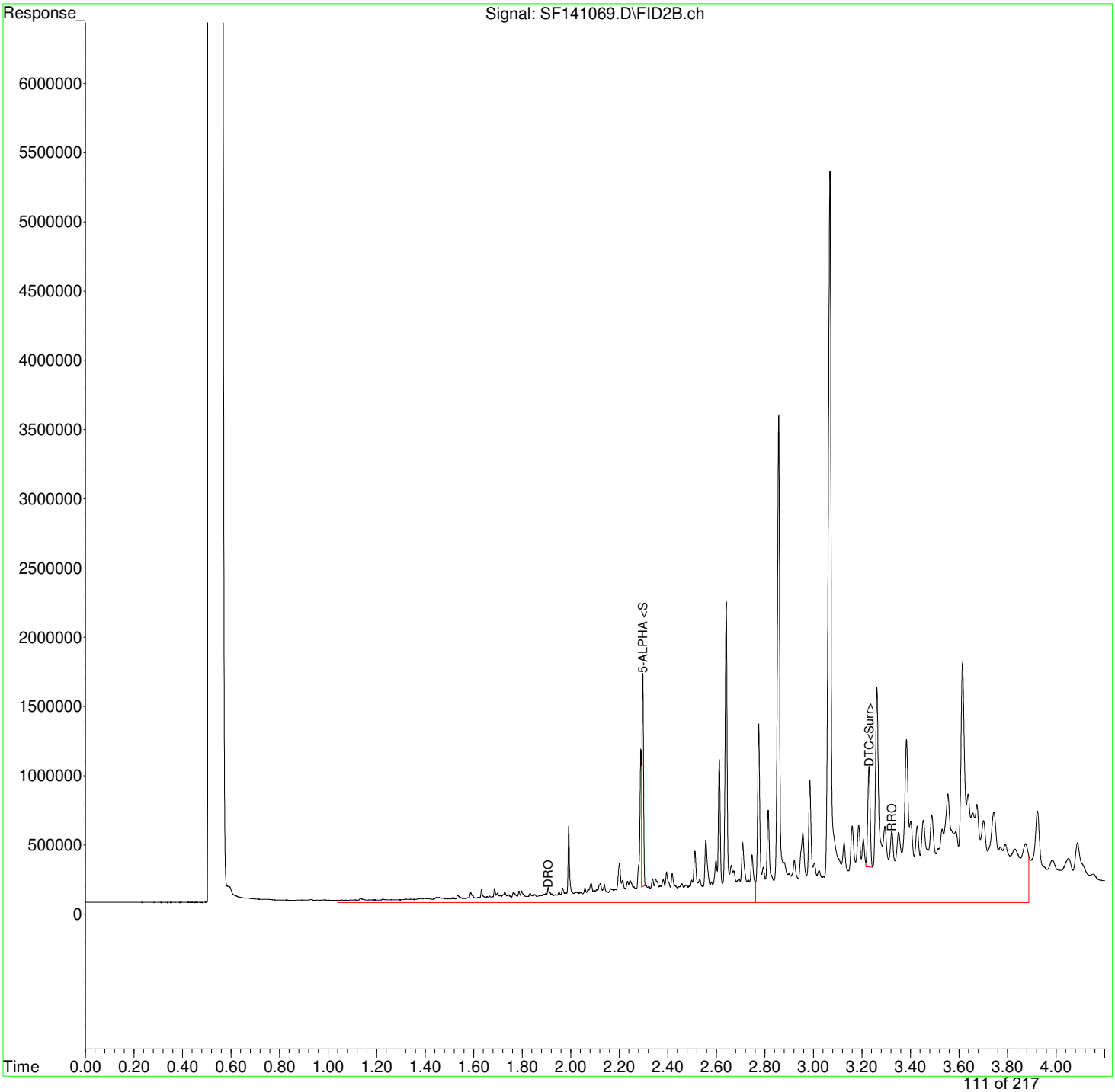
Integration File: autoint1.e
Quant Time: Apr 26 15:23:41 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



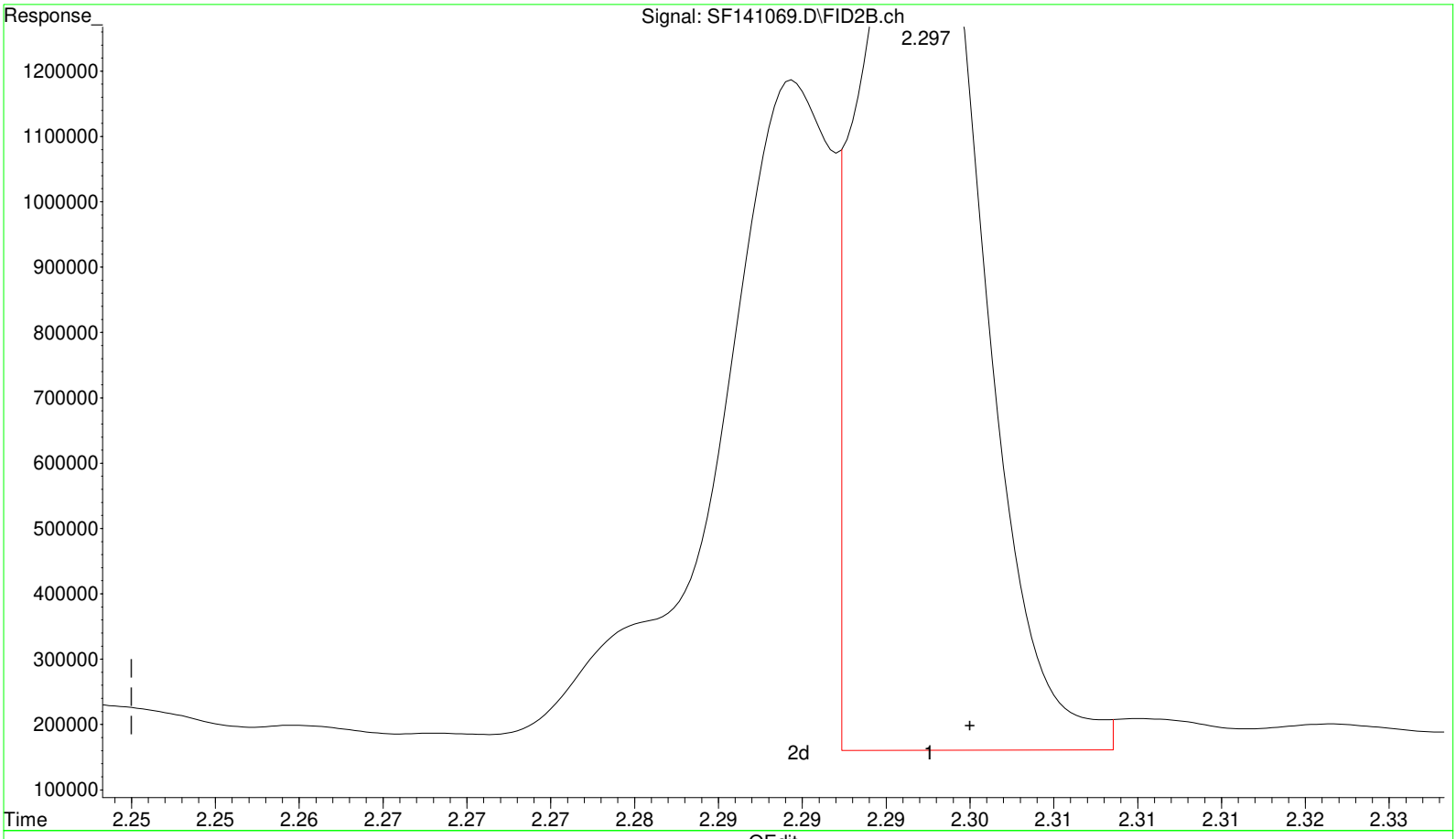
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141069.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:12
Operator : T.L
Sample : 1241713005
Misc :
ALS Vial : 77 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:22:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 110.904 µg/mL

response 7512076

O-BLC

Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

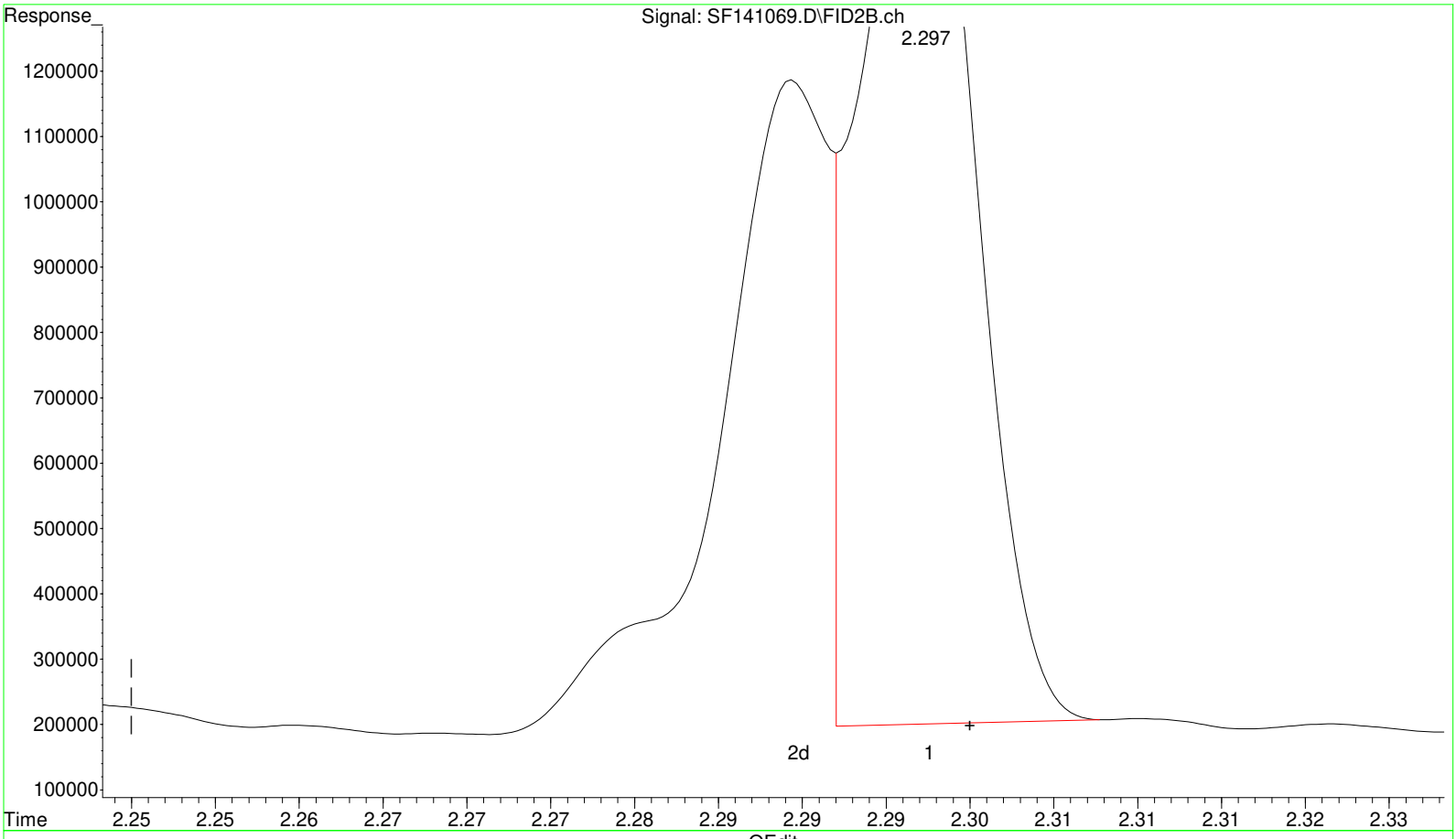
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141069.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:12
Operator : T.L
Sample : 1241713005
Misc :
ALS Vial : 77 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:22:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.297min 104.281 µg/mL m

response 7063462

M-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

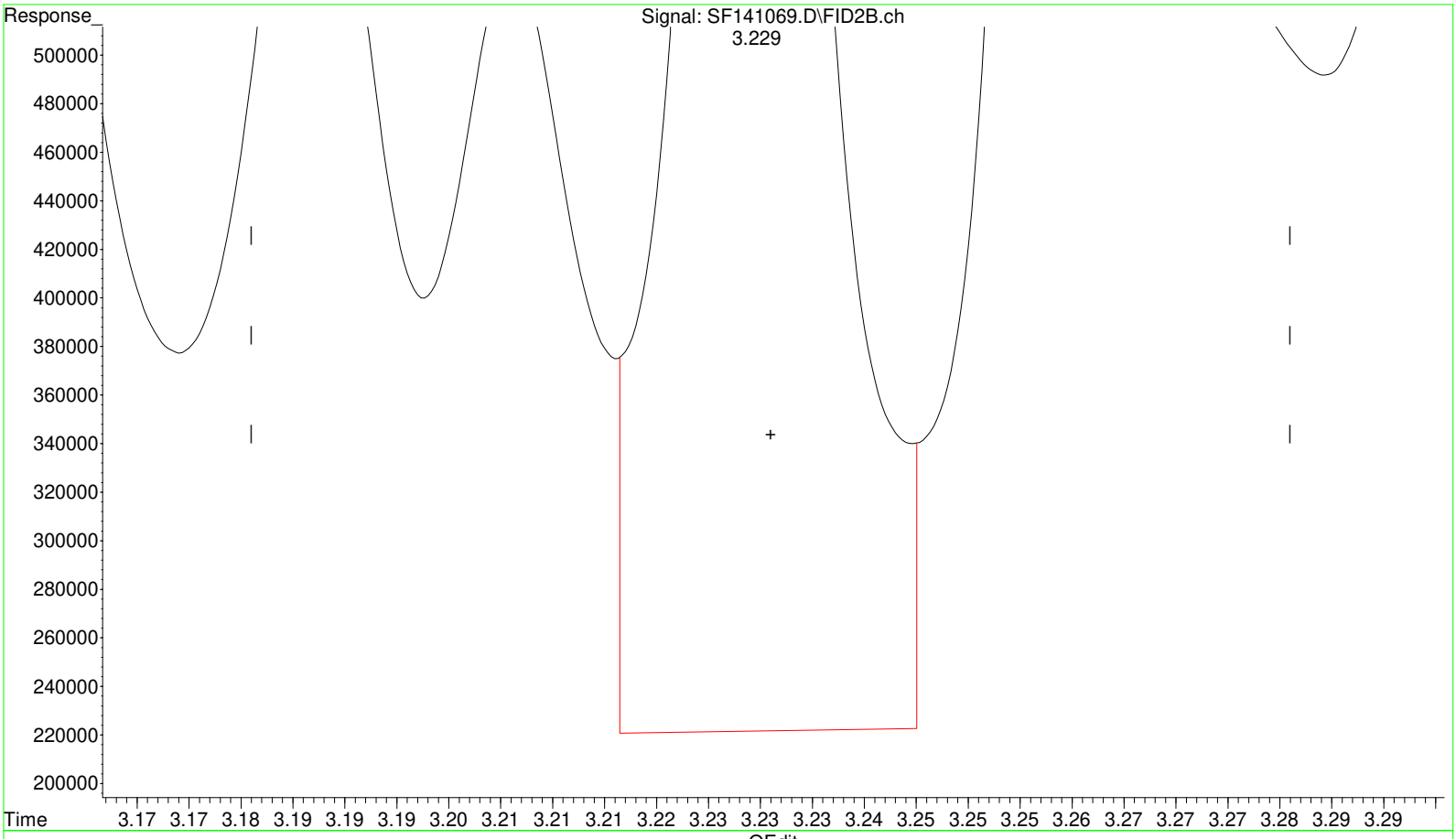
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141069.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:12
Operator : T.L
Sample : 1241713005
Misc :
ALS Vial : 77 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:22:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 117.950 µg/mL

response 7128372

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

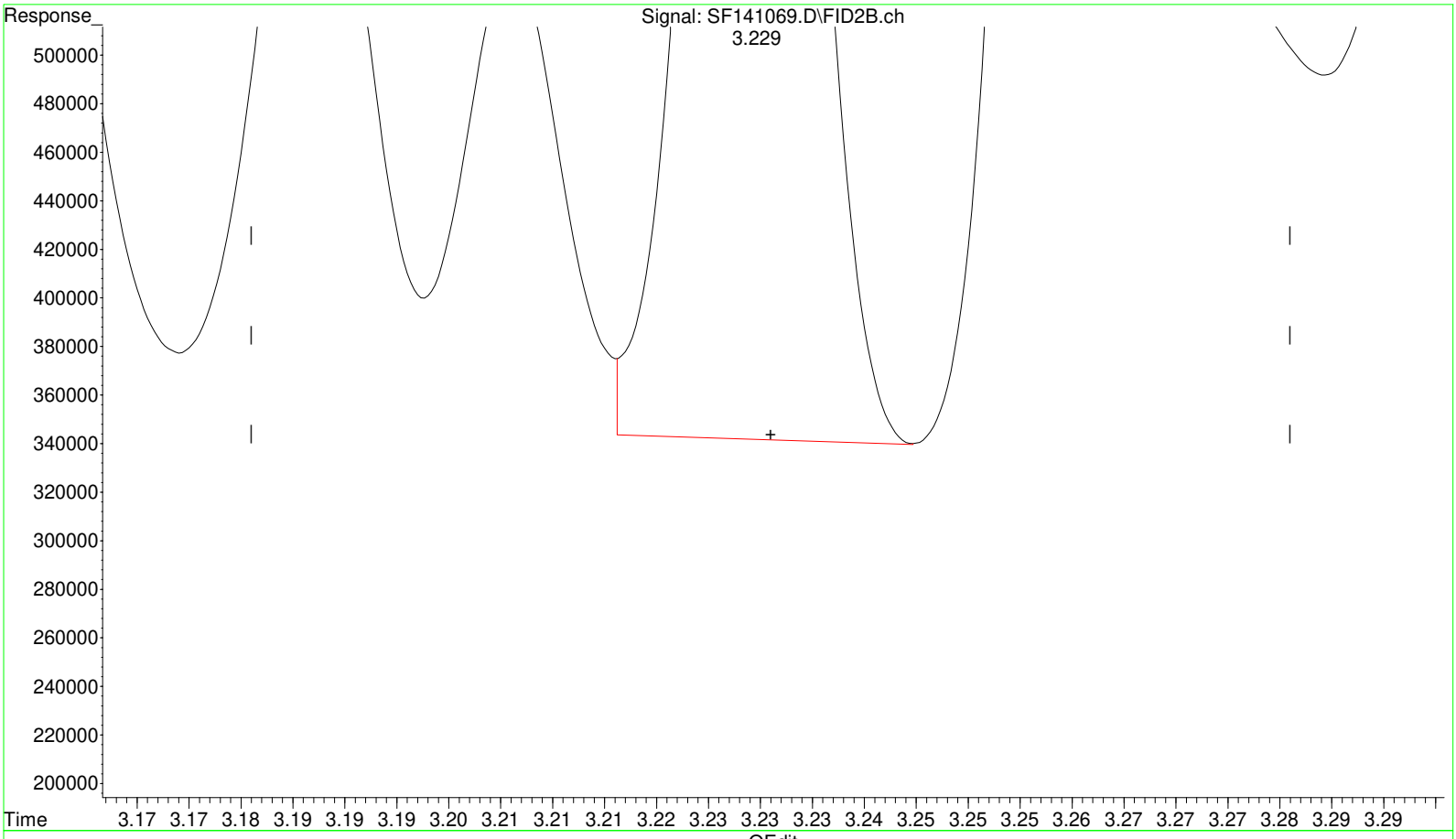
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141069.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:12
Operator : T.L
Sample : 1241713005
Misc :
ALS Vial : 77 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:22:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



QEdit

(4) DTC<Surr> (S)

3.229min 83.878 µg/mL m

response 5069212

M-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141063.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:42
Operator : T.L
Sample : 1241713006
Misc :
ALS Vial : 74 Sample Multiplier: 1

Revised Report - Revision 2

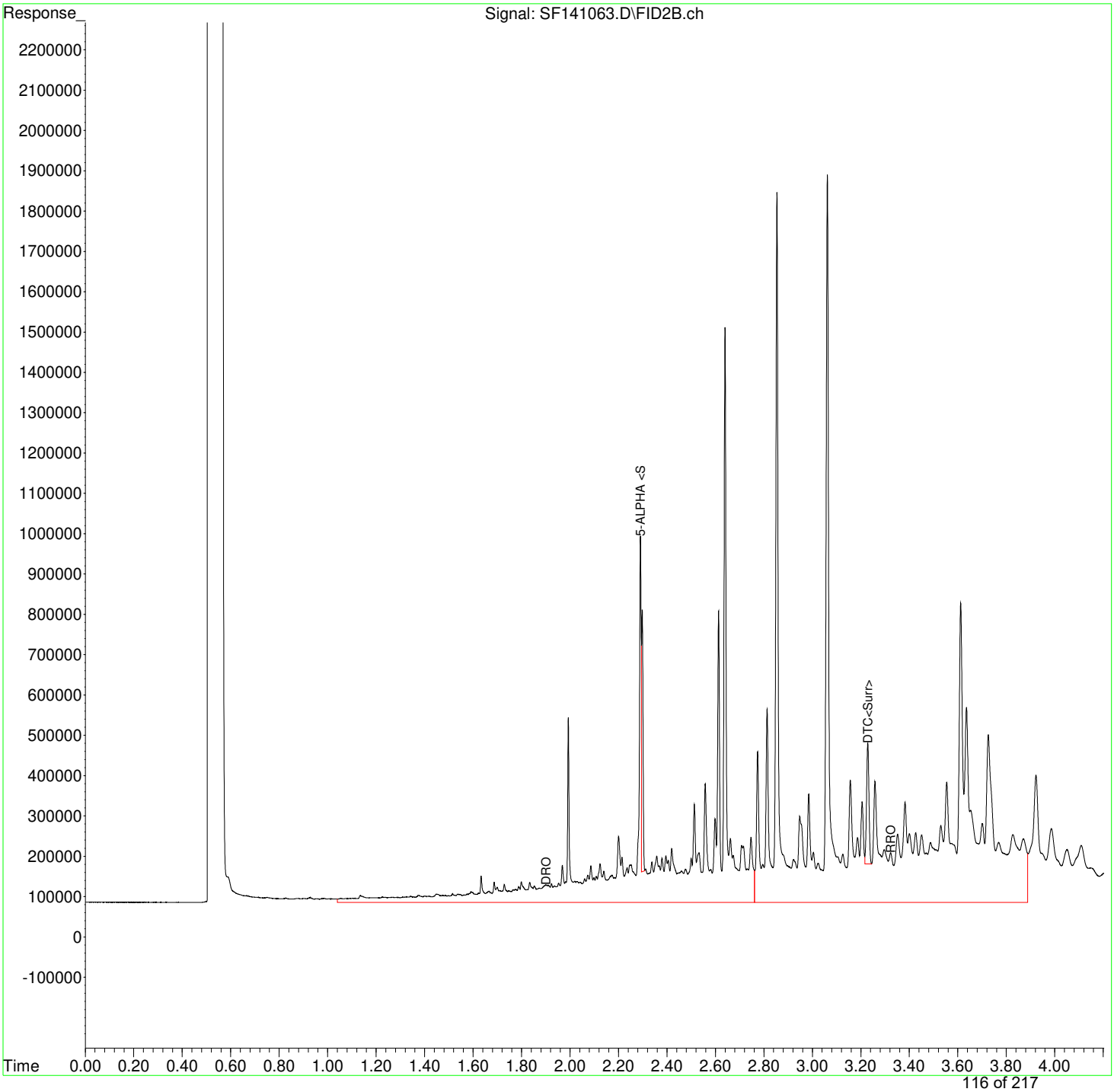
Integration File: autoint1.e
Quant Time: Apr 26 15:07:20 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



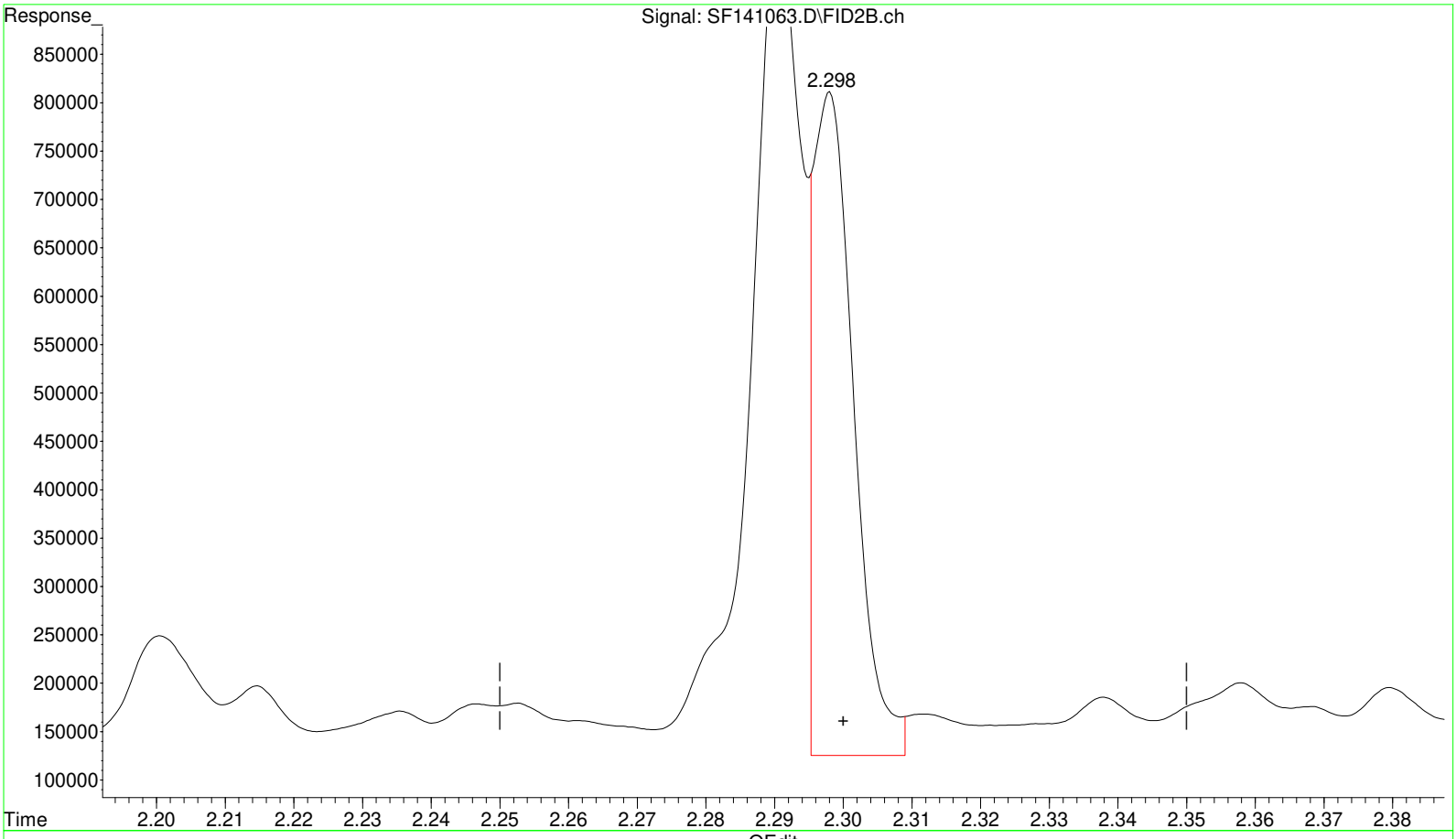
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141063.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:42
Operator : T.L
Sample : 1241713006
Misc :
ALS Vial : 74 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:06:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 42.737 µg/mL

response 2894770

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

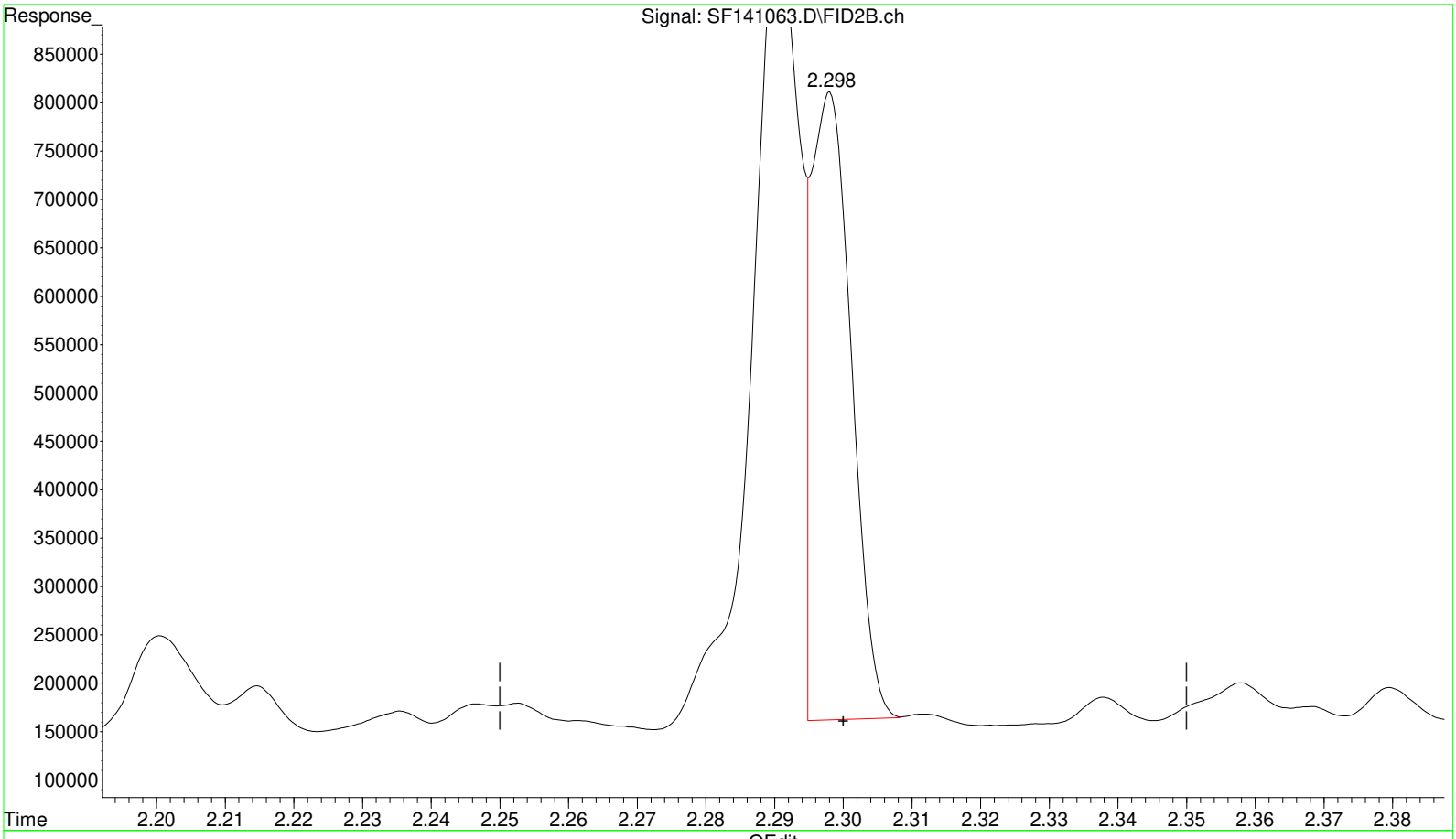
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141063.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:42
Operator : T.L
Sample : 1241713006
Misc :
ALS Vial : 74 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:06:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 38.480 µg/mL m

response 2606421

M-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

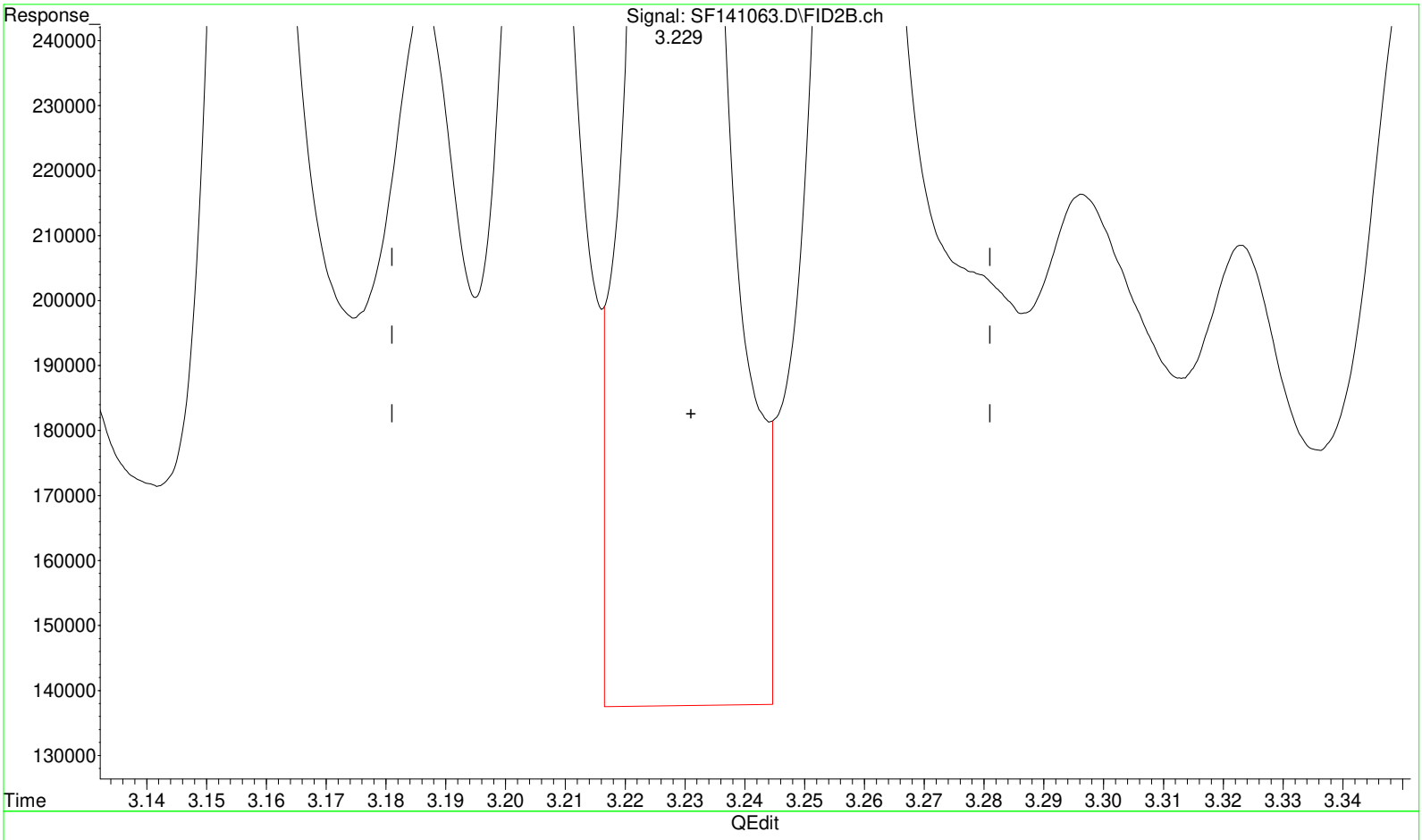
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141063.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:42
Operator : T.L
Sample : 1241713006
Misc :
ALS Vial : 74 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:06:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 46.479 µg/mL

response 2808960

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Tate

(+) = Expected Retention Time

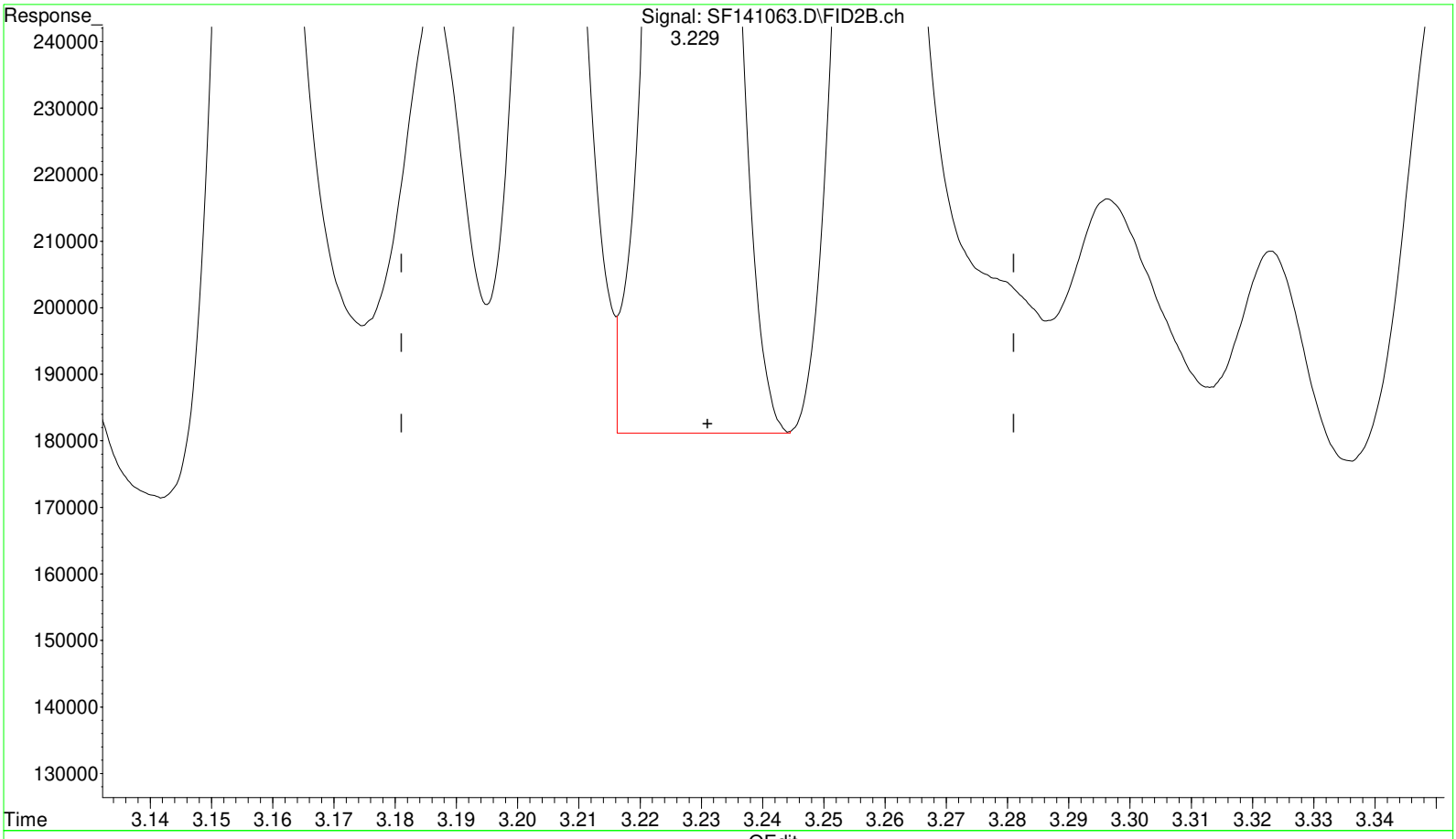
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141063.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 14:42
Operator : T.L
Sample : 1241713006
Misc :
ALS Vial : 74 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:06:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 34.320 µg/mL m

response 2074131

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141067.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:02
Operator : T.L
Sample : 1241713007
Misc :
ALS Vial : 76 Sample Multiplier: 1

Revised Report - Revision 2

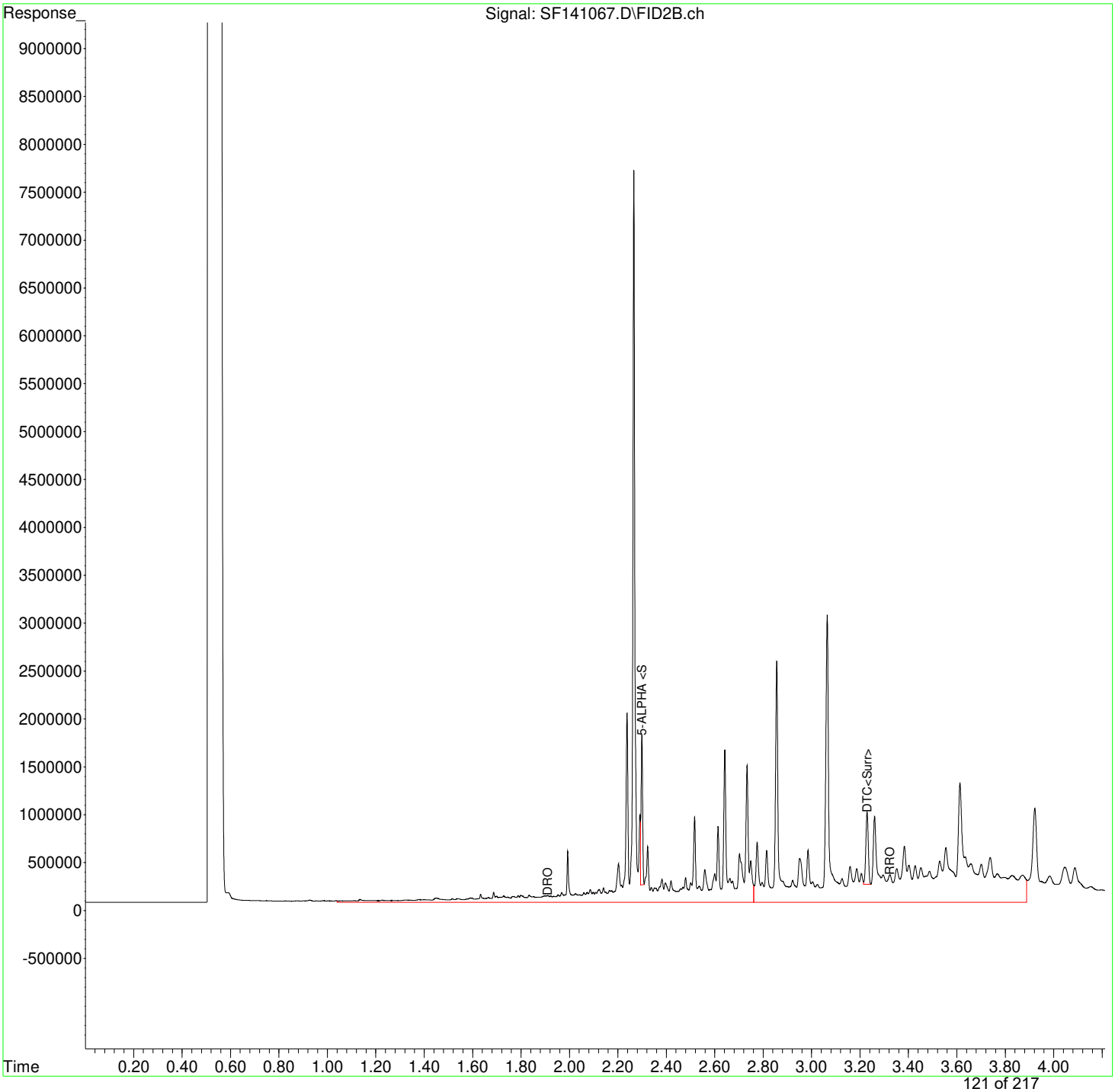
Integration File: autoint1.e
Quant Time: Apr 26 15:11:13 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



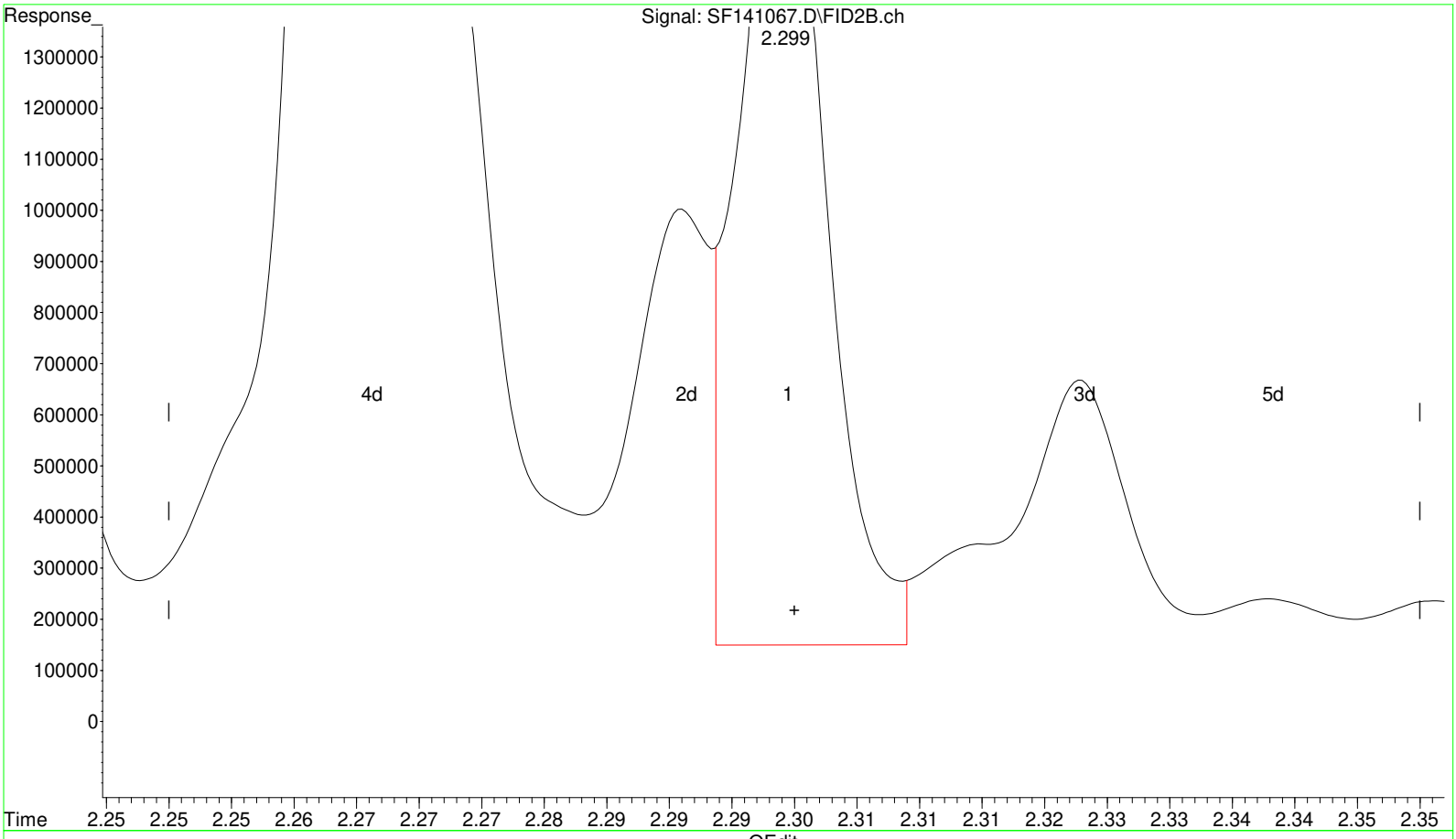
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141067.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:02
Operator : T.L
Sample : 1241713007
Misc :
ALS Vial : 76 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:10:39 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.299min 120.943 µg/mL

response 8192070

O-BLC

Apr 26, 2024

Zashid Lhamu

Apr 30, 2024

(+) = Expected Retention Time

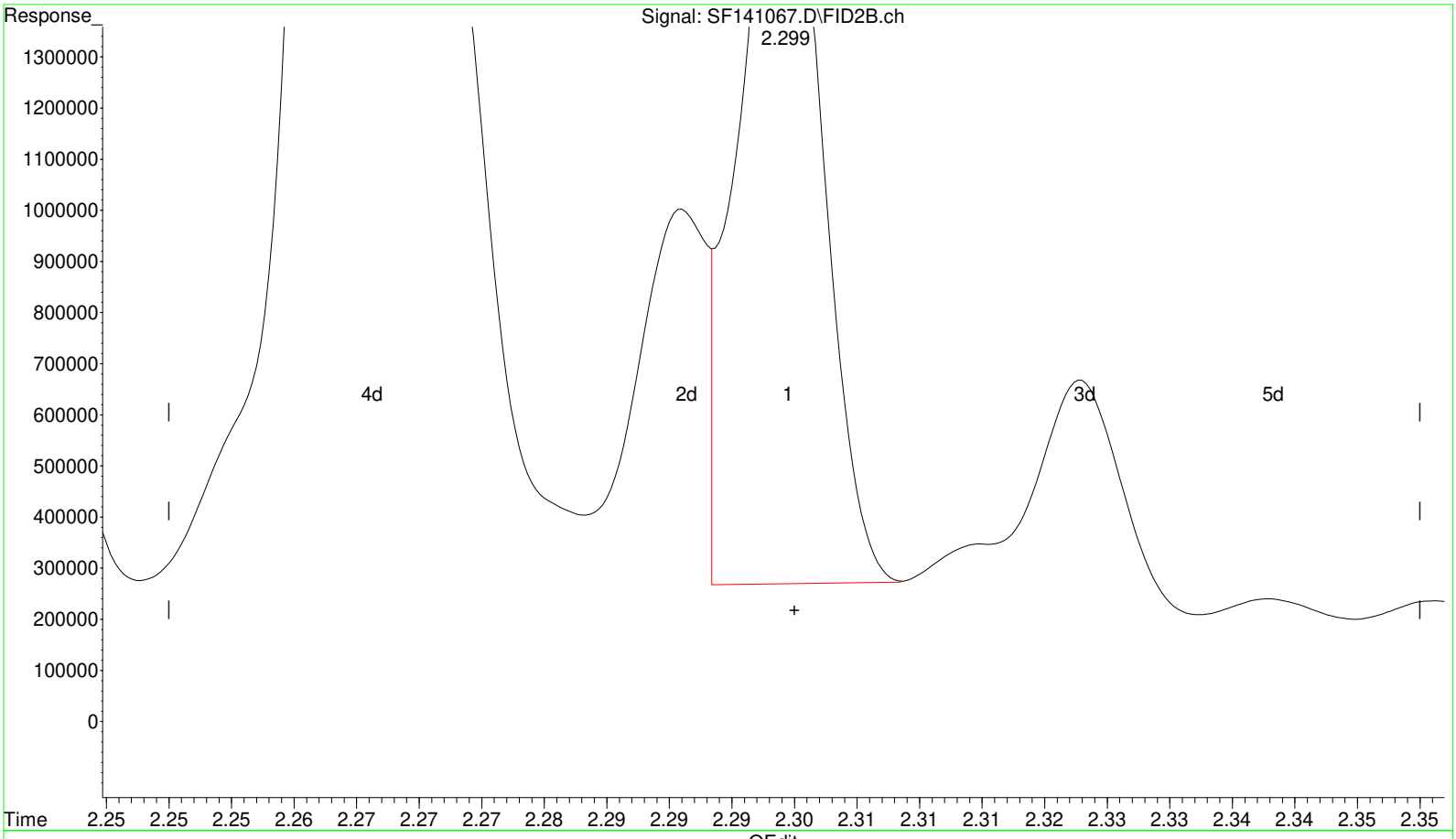
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141067.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:02
Operator : T.L
Sample : 1241713007
Misc :
ALS Vial : 76 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:10:39 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.299min 104.145 µg/mL m

response 7054247

M-BLC
Apr 26, 2024

Zashid Khamu

Apr 30, 2024

Bruce Fath

(+) = Expected Retention Time

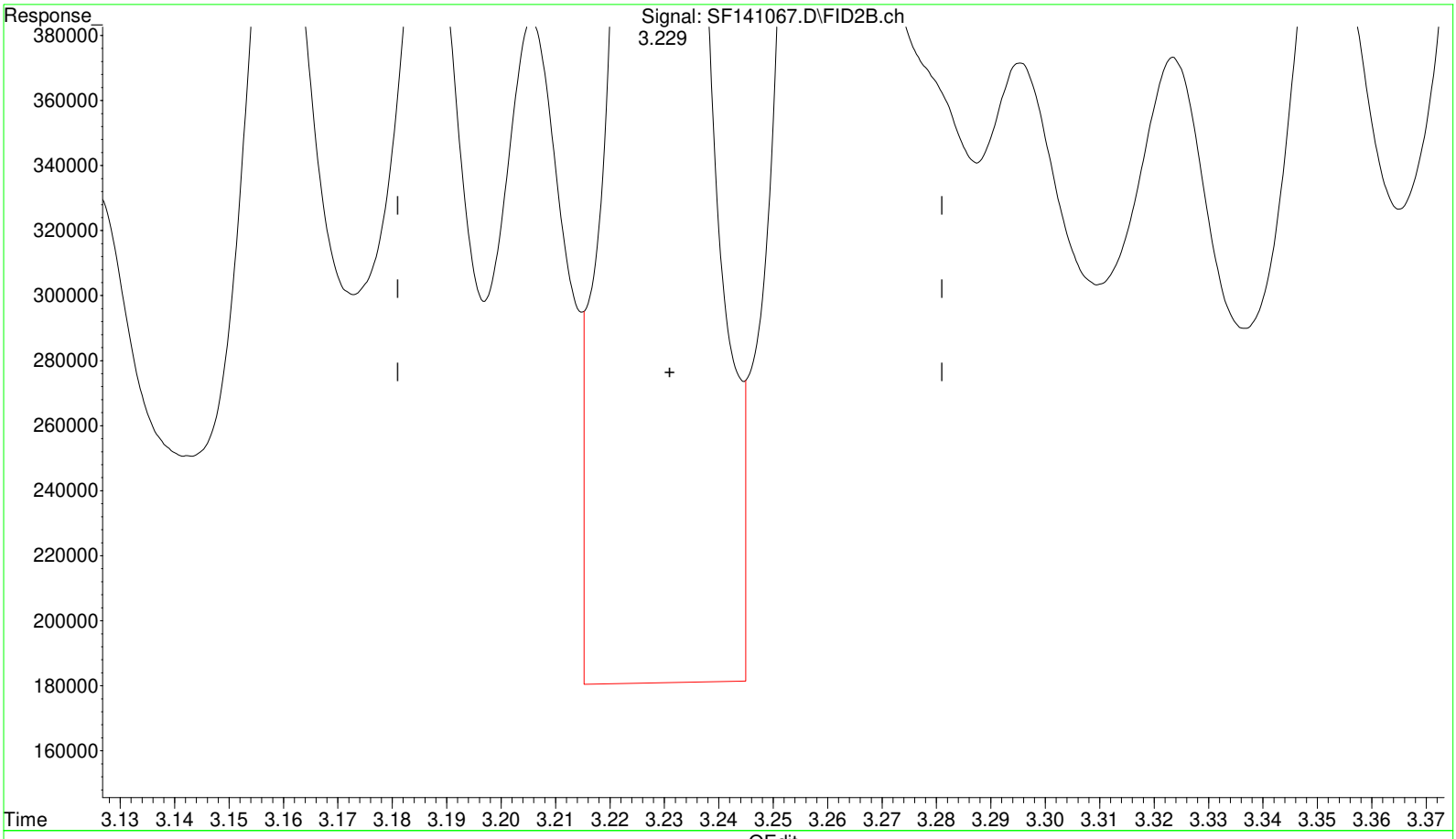
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141067.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:02
Operator : T.L
Sample : 1241713007
Misc :
ALS Vial : 76 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:10:39 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 114.728 µg/mL

response 6933674

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

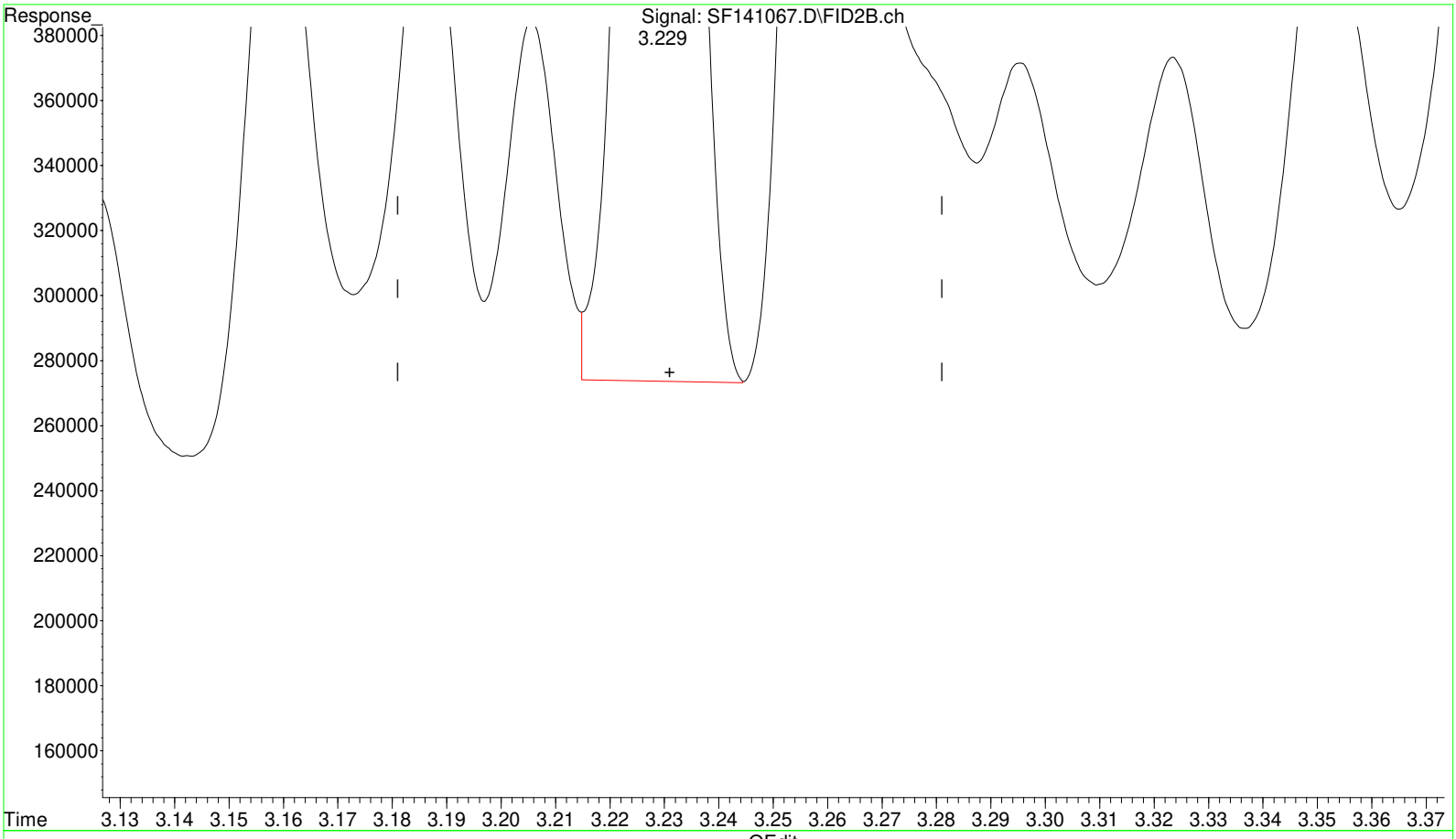
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141067.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:02
Operator : T.L
Sample : 1241713007
Misc :
ALS Vial : 76 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:10:39 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 87.379 µg/mL m

response 5280818

M-BLC
Apr 26, 2024

Tashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141081.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:12
Operator : T.L
Sample : 1241713008
Misc :
ALS Vial : 83 Sample Multiplier: 1

Revised Report - Revision 2

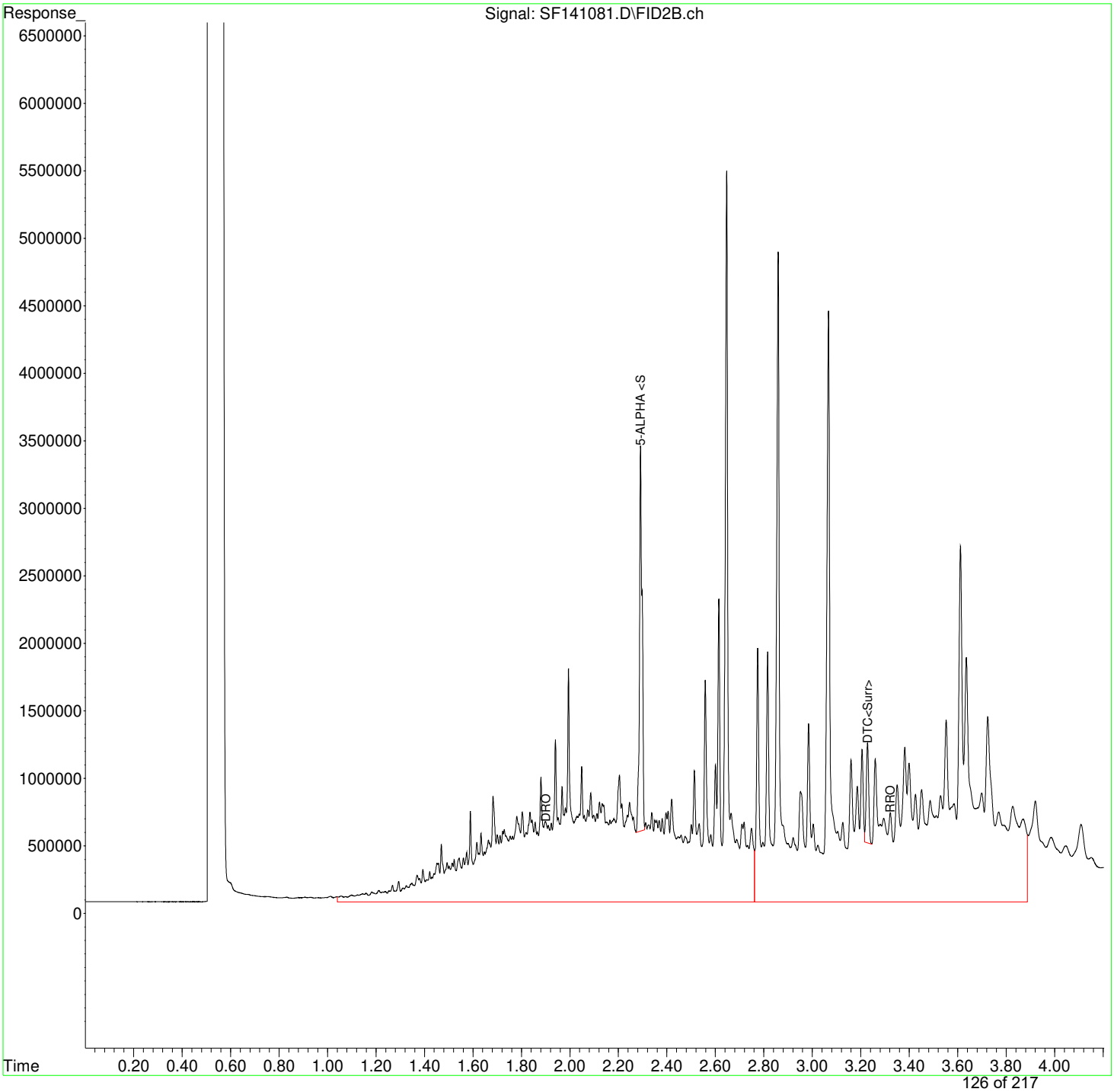
Integration File: autoint1.e
Quant Time: Apr 26 16:19:52 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashi Lhamu



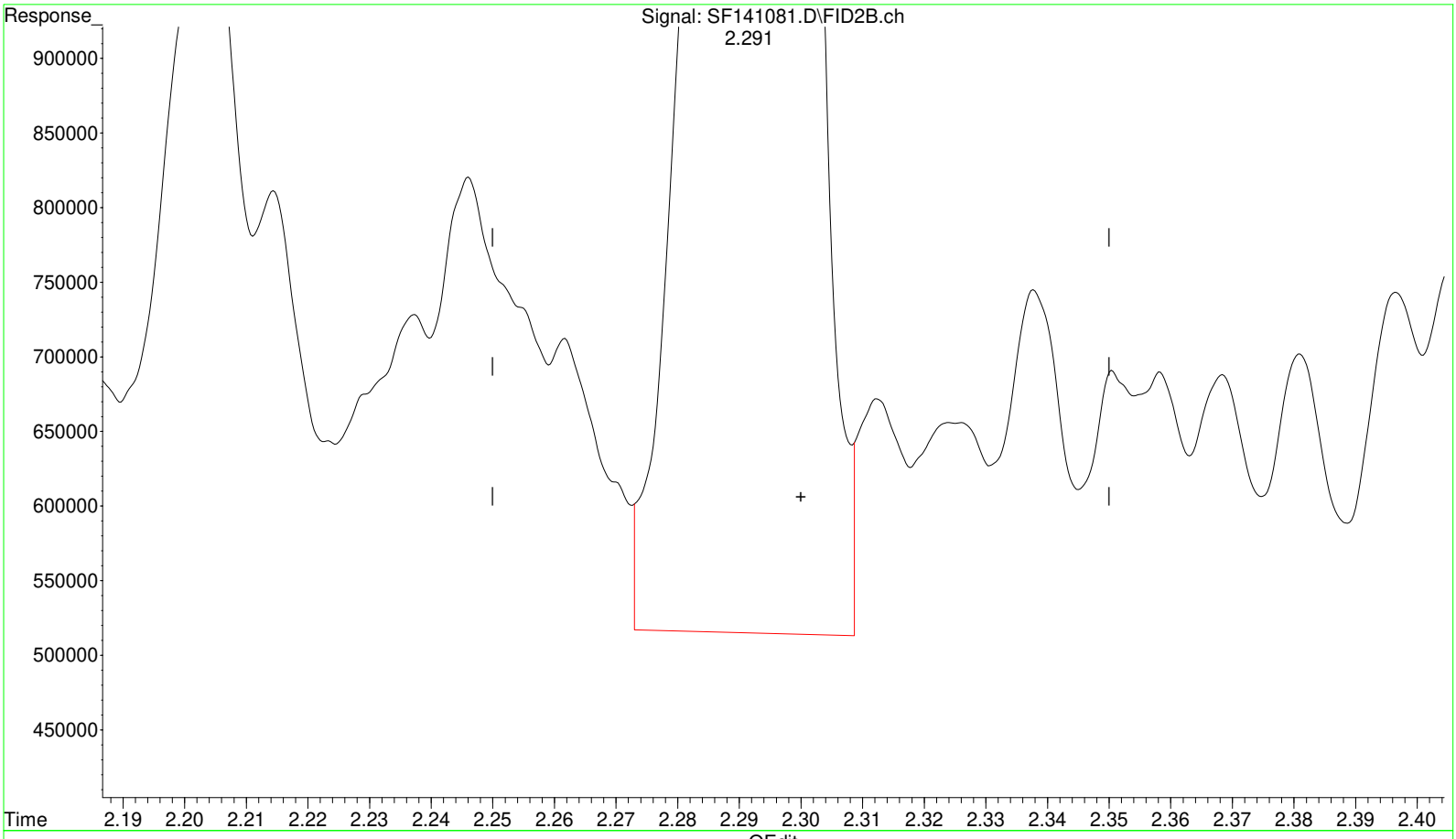
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141081.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:12
Operator : T.L
Sample : 1241713008
Misc :
ALS Vial : 83 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:19:16 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.292min 348.134 µg/mL

response 23580900

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Pate

(+) = Expected Retention Time

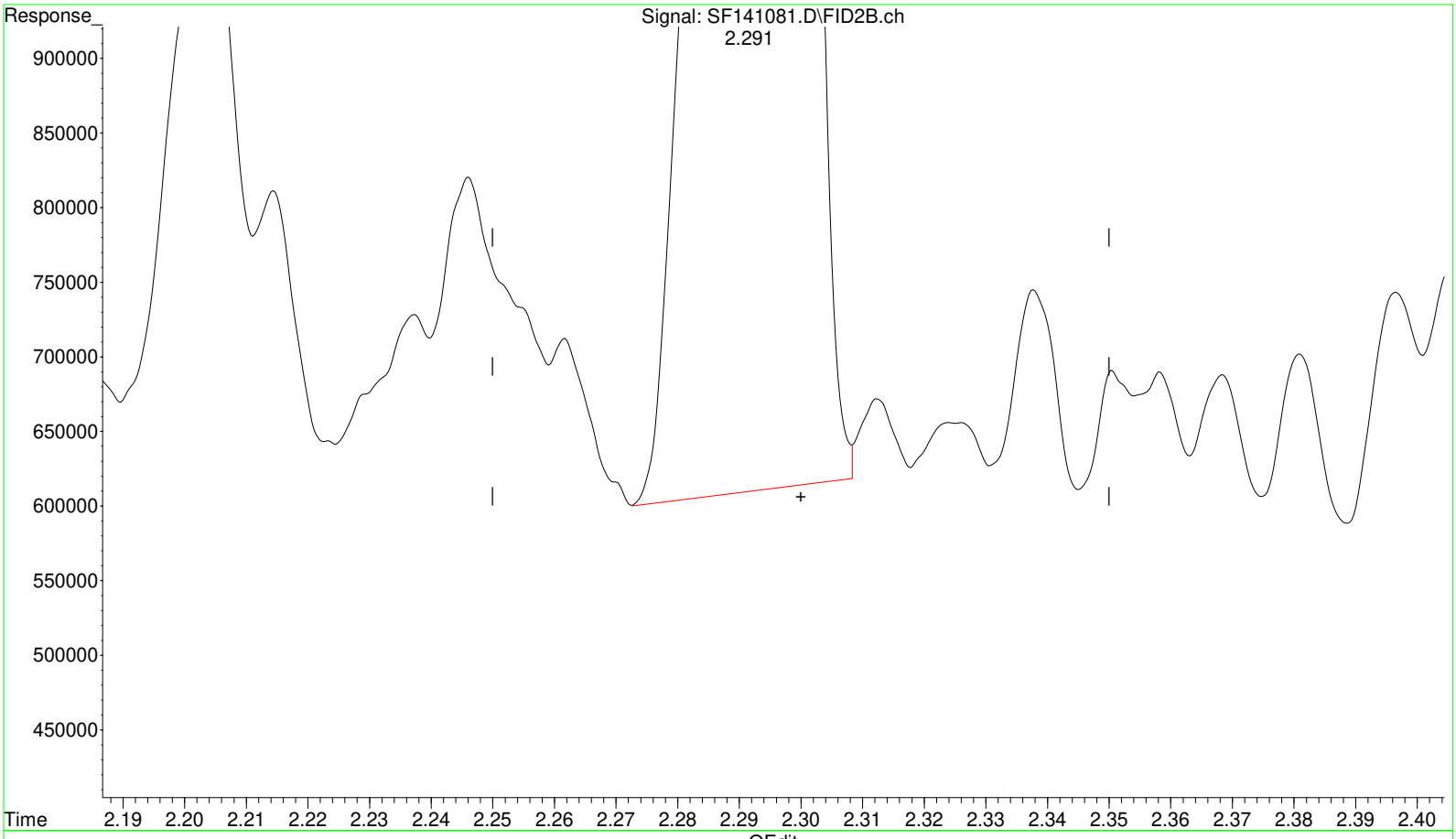
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141081.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:12
Operator : T.L
Sample : 1241713008
Misc :
ALS Vial : 83 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:19:16 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.291min 318.335 µg/mL m

response 21562438

M-BLC
Apr 26, 2024

Tashid Shamu

Apr 30, 2024

(+) = Expected Retention Time

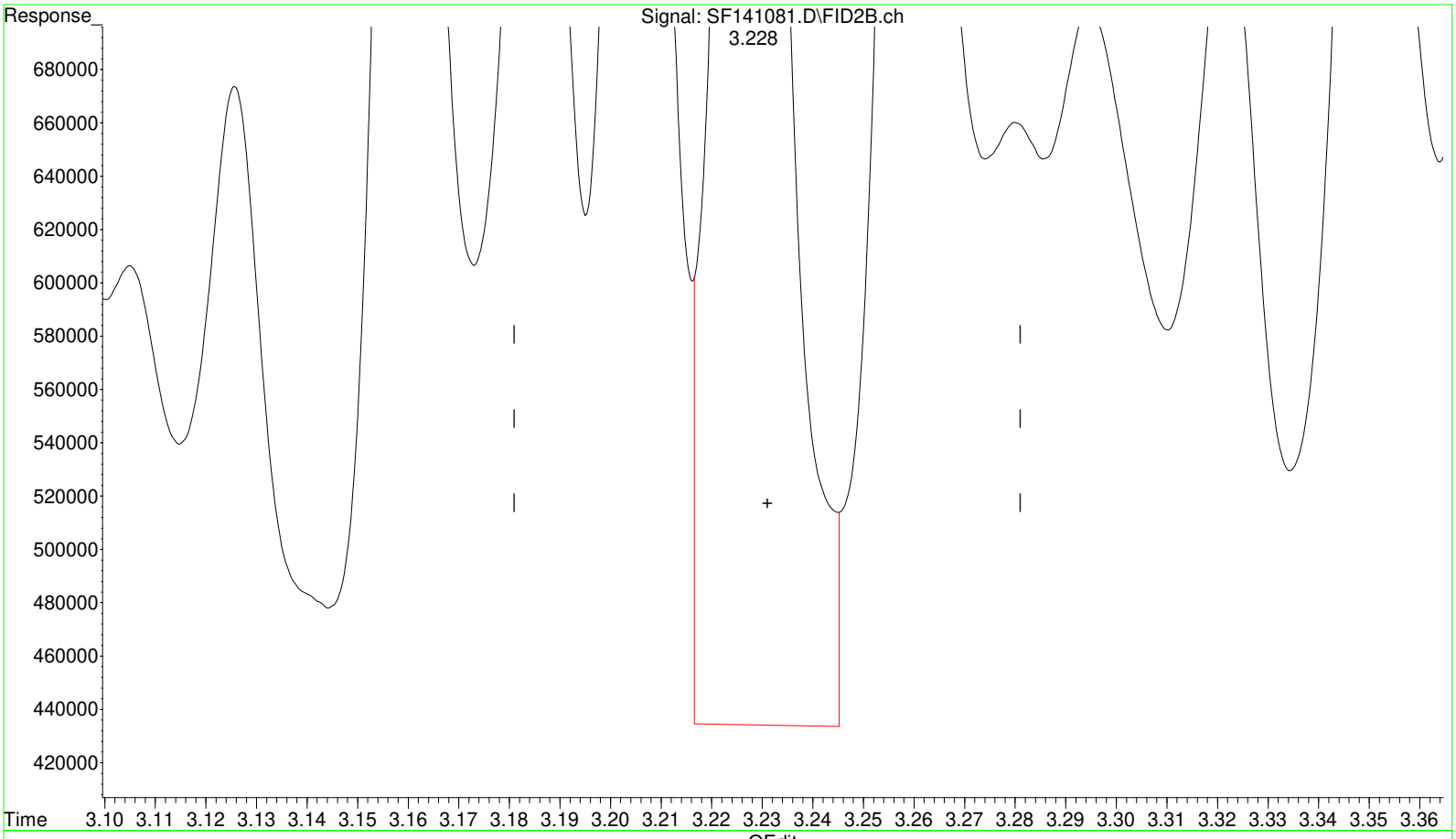
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141081.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:12
Operator : T.L
Sample : 1241713008
Misc :
ALS Vial : 83 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:19:16 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 111.131 µg/mL

response 6716281

O-BLC

Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

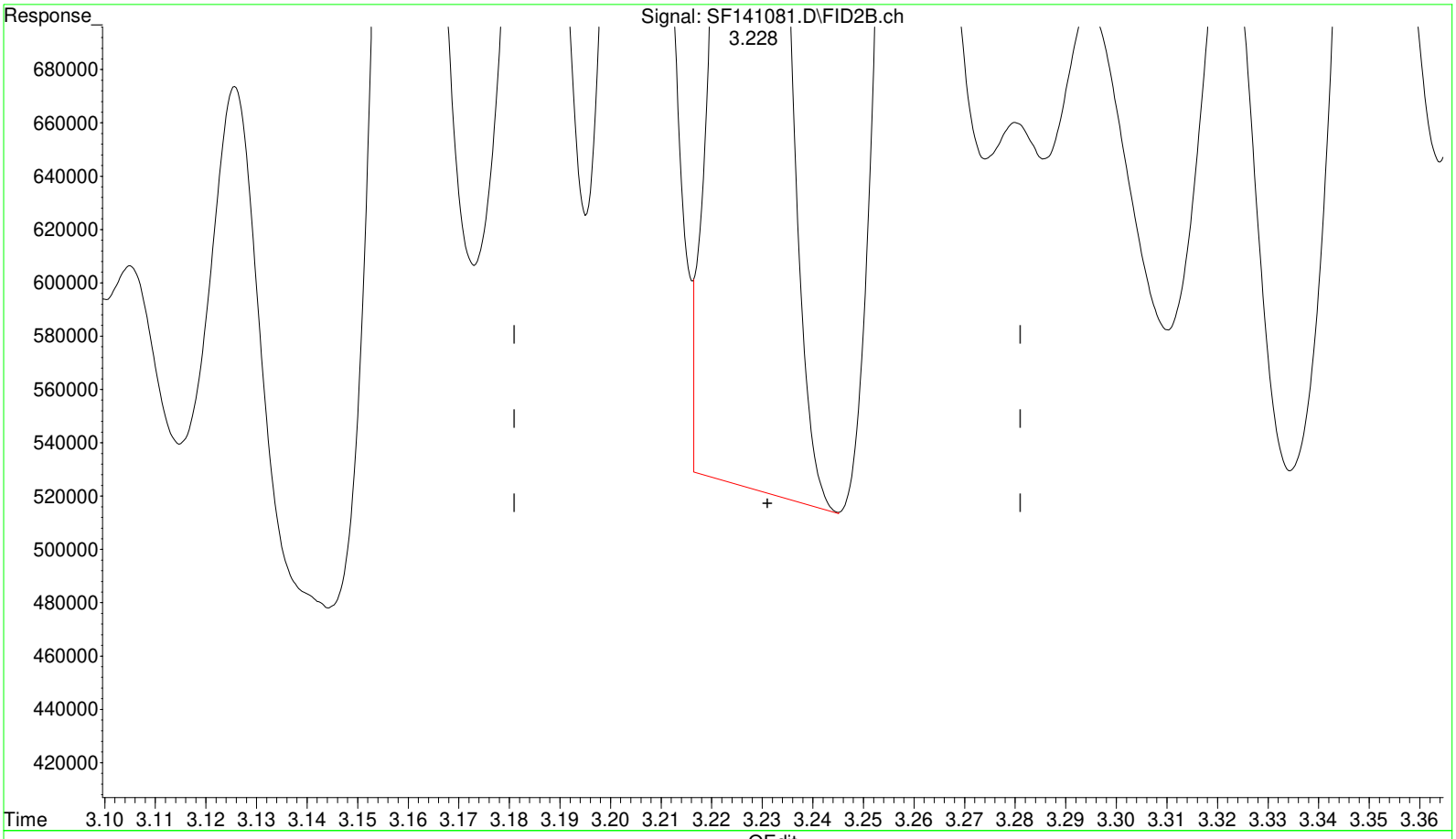
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141081.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:12
Operator : T.L
Sample : 1241713008
Misc :
ALS Vial : 83 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:19:16 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 86.110 µg/mL m

response 5204111

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Tate

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141083.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:22
Operator : T.L
Sample : 1241713009
Misc :
ALS Vial : 84 Sample Multiplier: 1

Revised Report - Revision 2

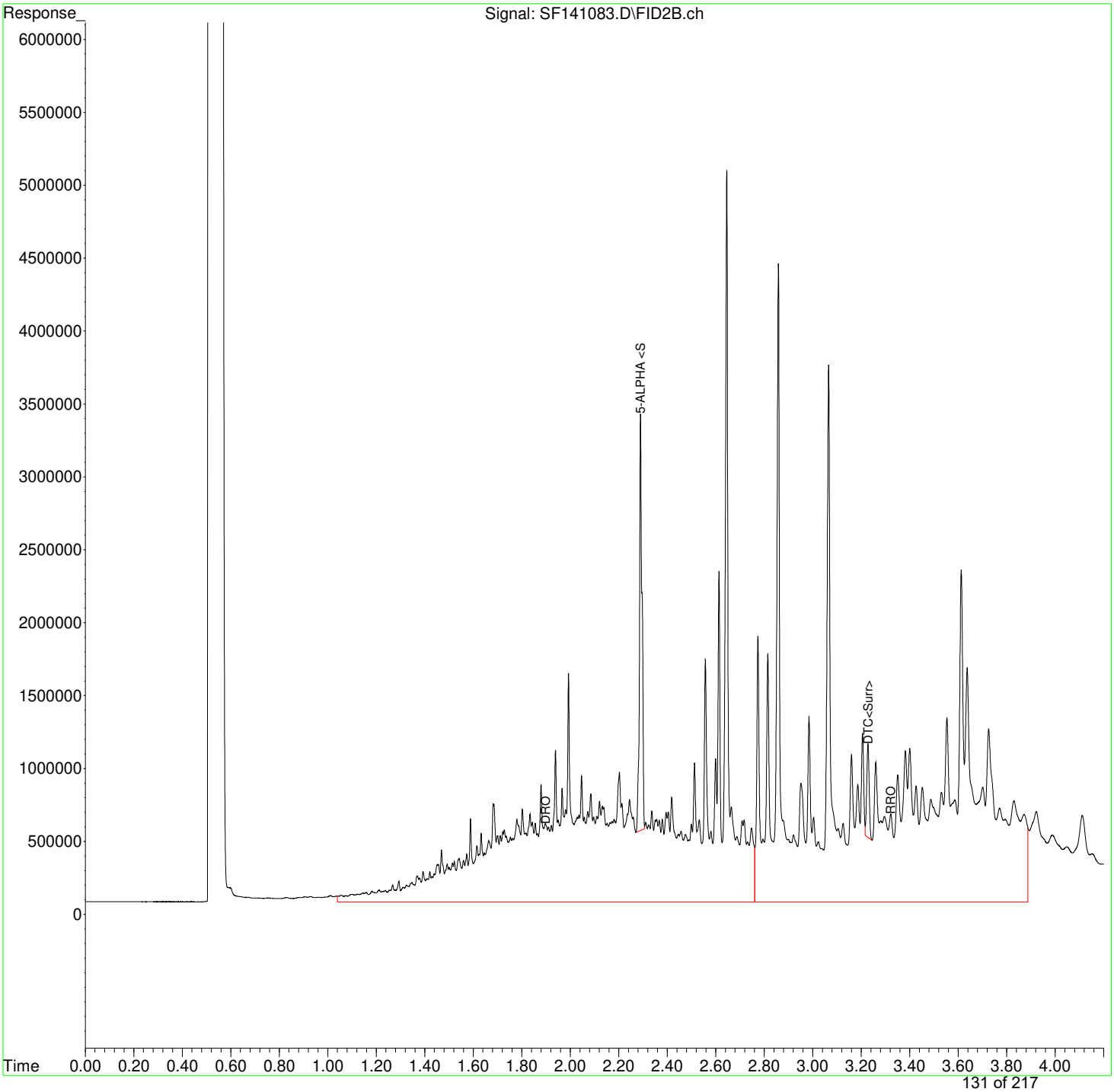
Integration File: autoint1.e
Quant Time: Apr 26 16:30:49 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashi Lhamu



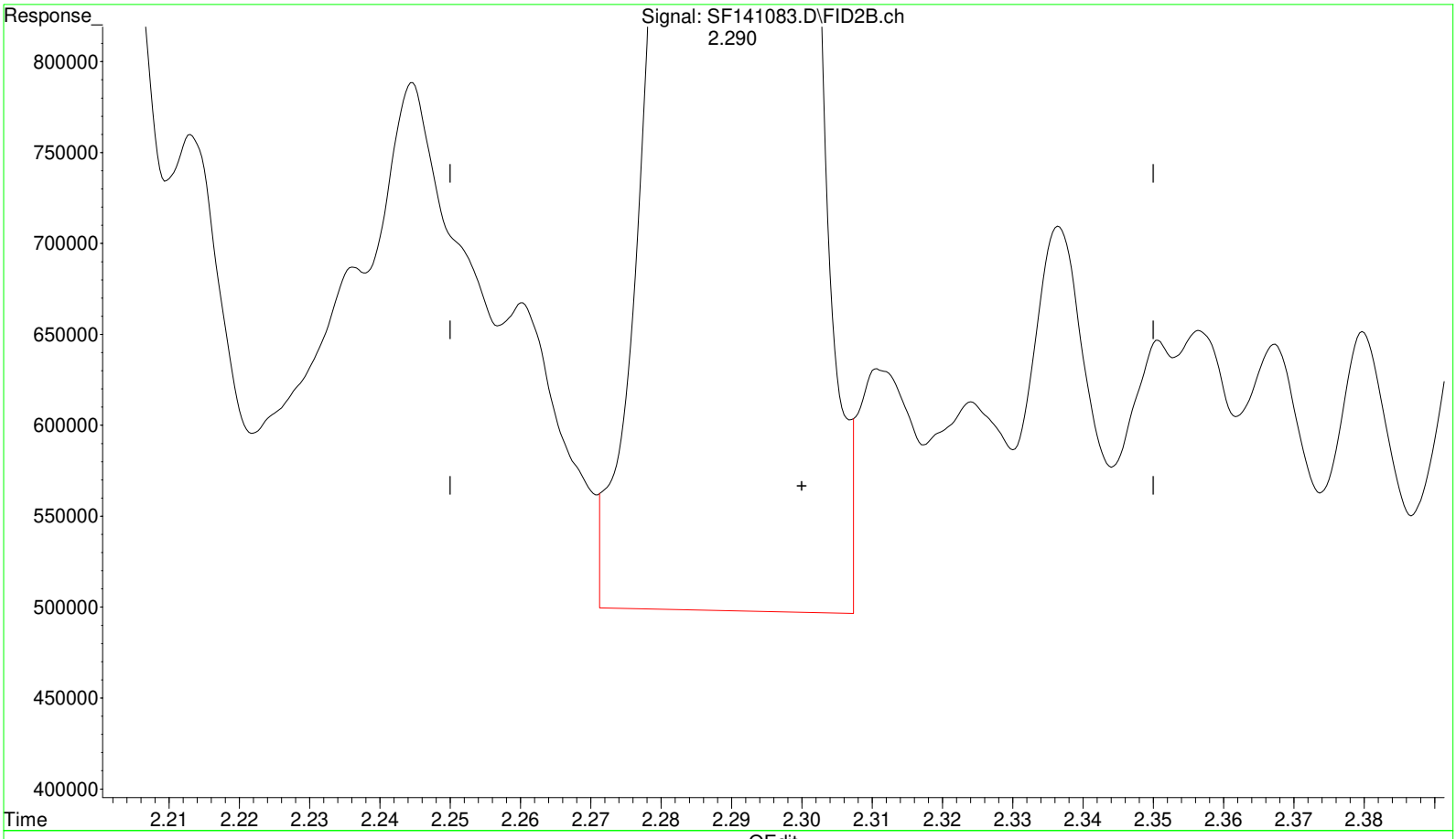
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141083.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:22
Operator : T.L
Sample : 1241713009
Misc :
ALS Vial : 84 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:29:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.290min 332.240 µg/mL

response 22504337

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

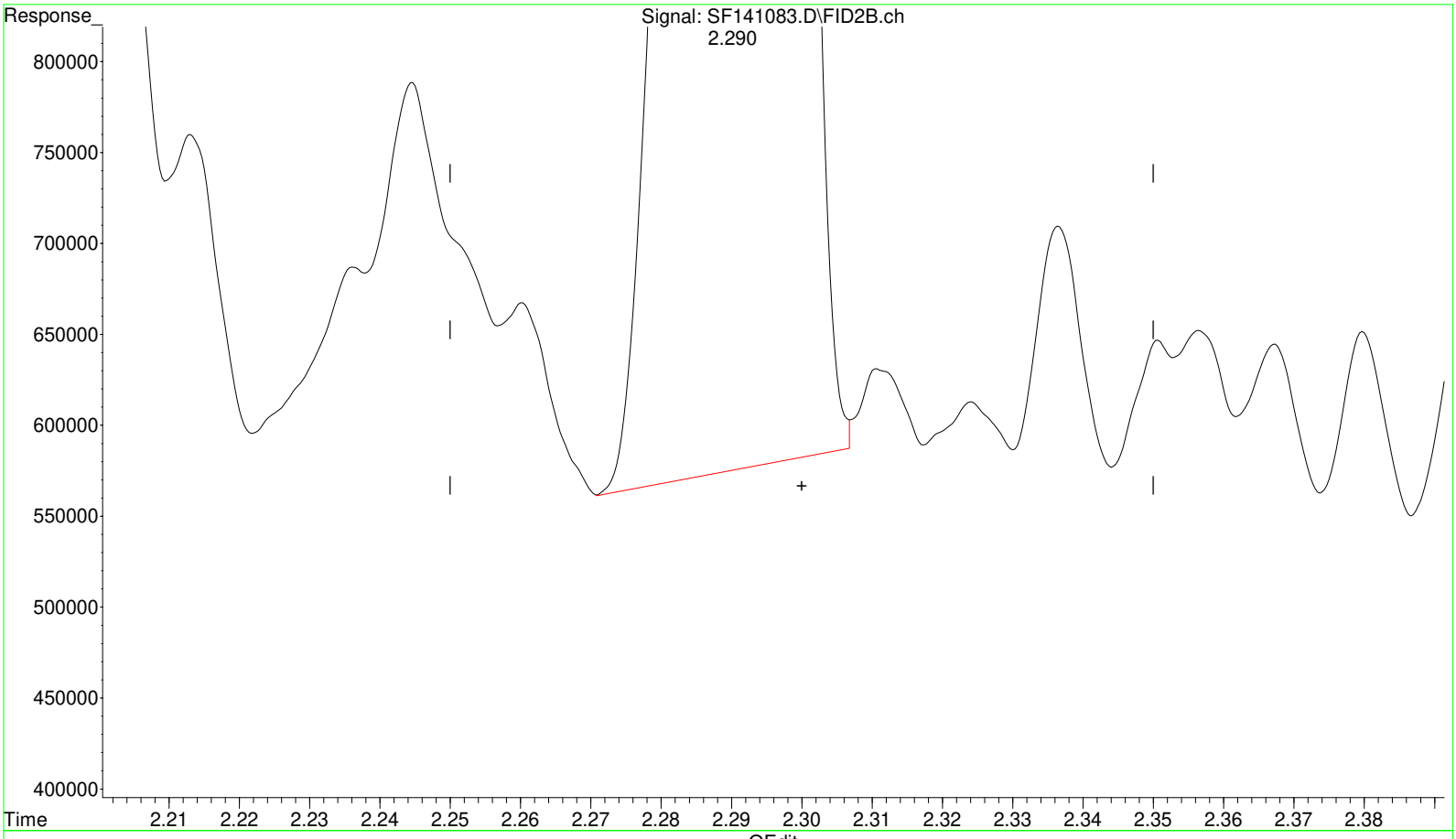
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141083.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:22
Operator : T.L
Sample : 1241713009
Misc :
ALS Vial : 84 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:29:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.290min 307.820 µg/mL m

response 20850215

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

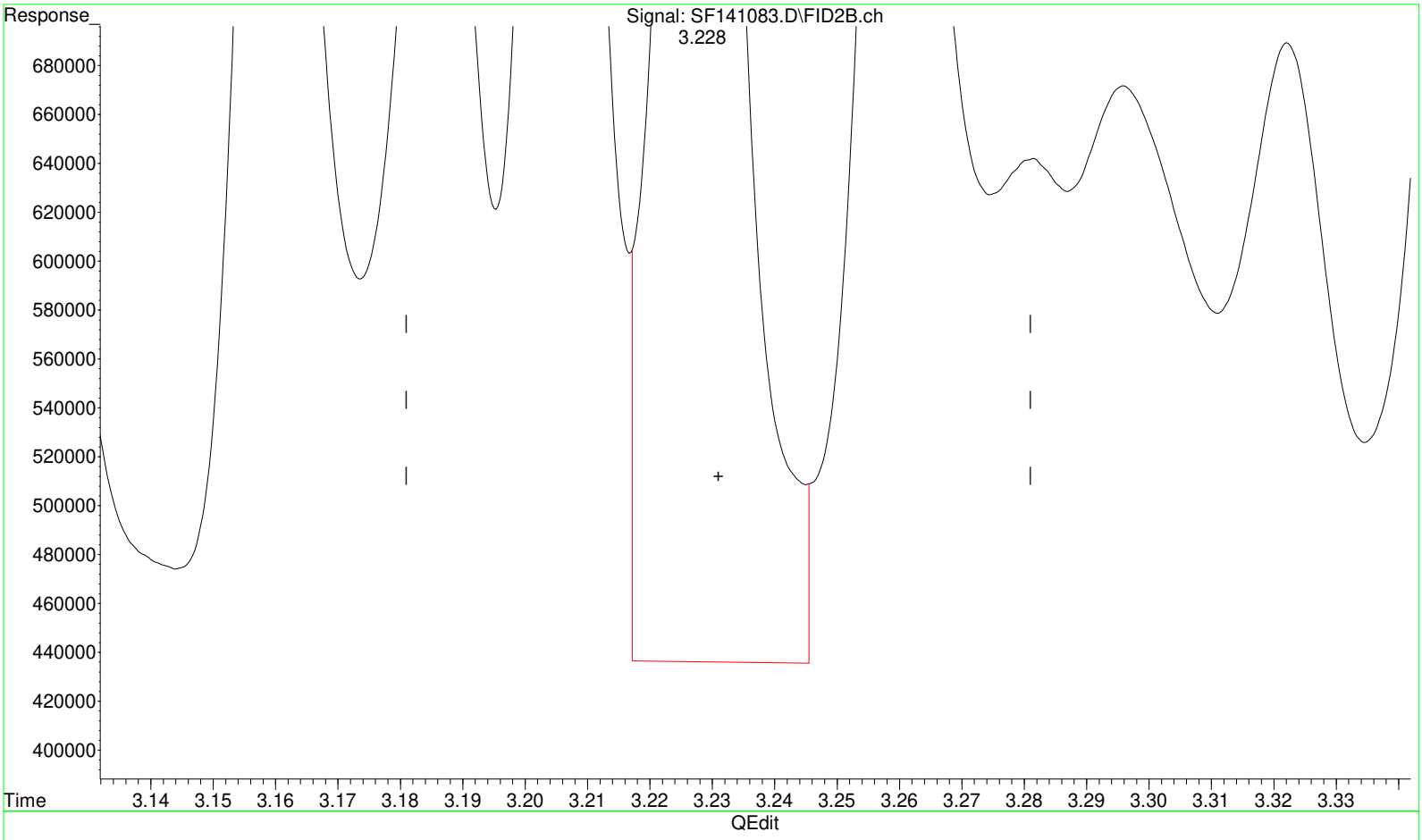
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141083.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:22
Operator : T.L
Sample : 1241713009
Misc :
ALS Vial : 84 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:29:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 99.256 µg/mL

response 5998598

O-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

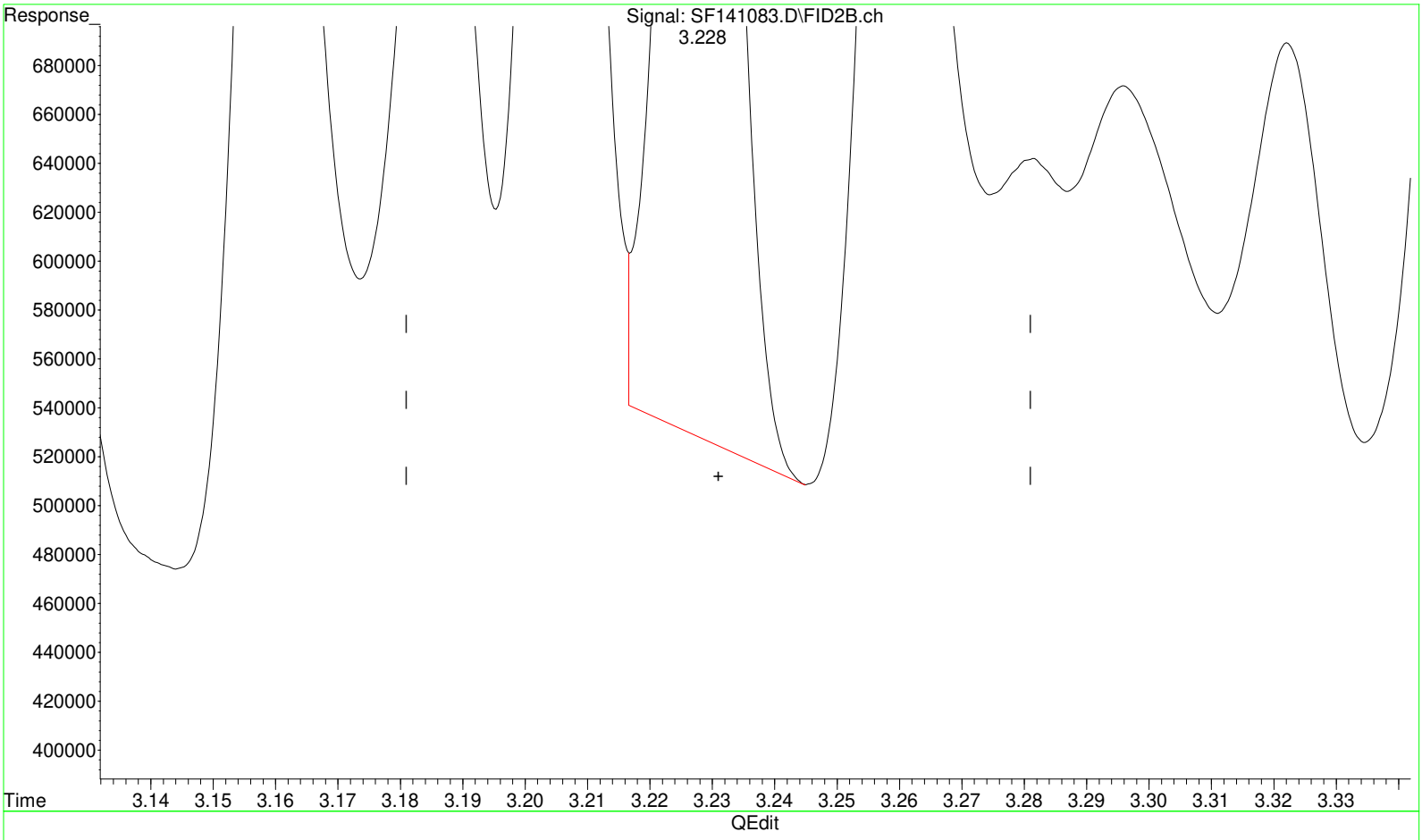
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141083.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:22
Operator : T.L
Sample : 1241713009
Misc :
ALS Vial : 84 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:29:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 74.422 µg/mL m

response 4497727

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141107.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 18:20
Operator : T.L
Sample : 1241713010
Misc :
ALS Vial : 94 Sample Multiplier: 1

Revised Report - Revision 2

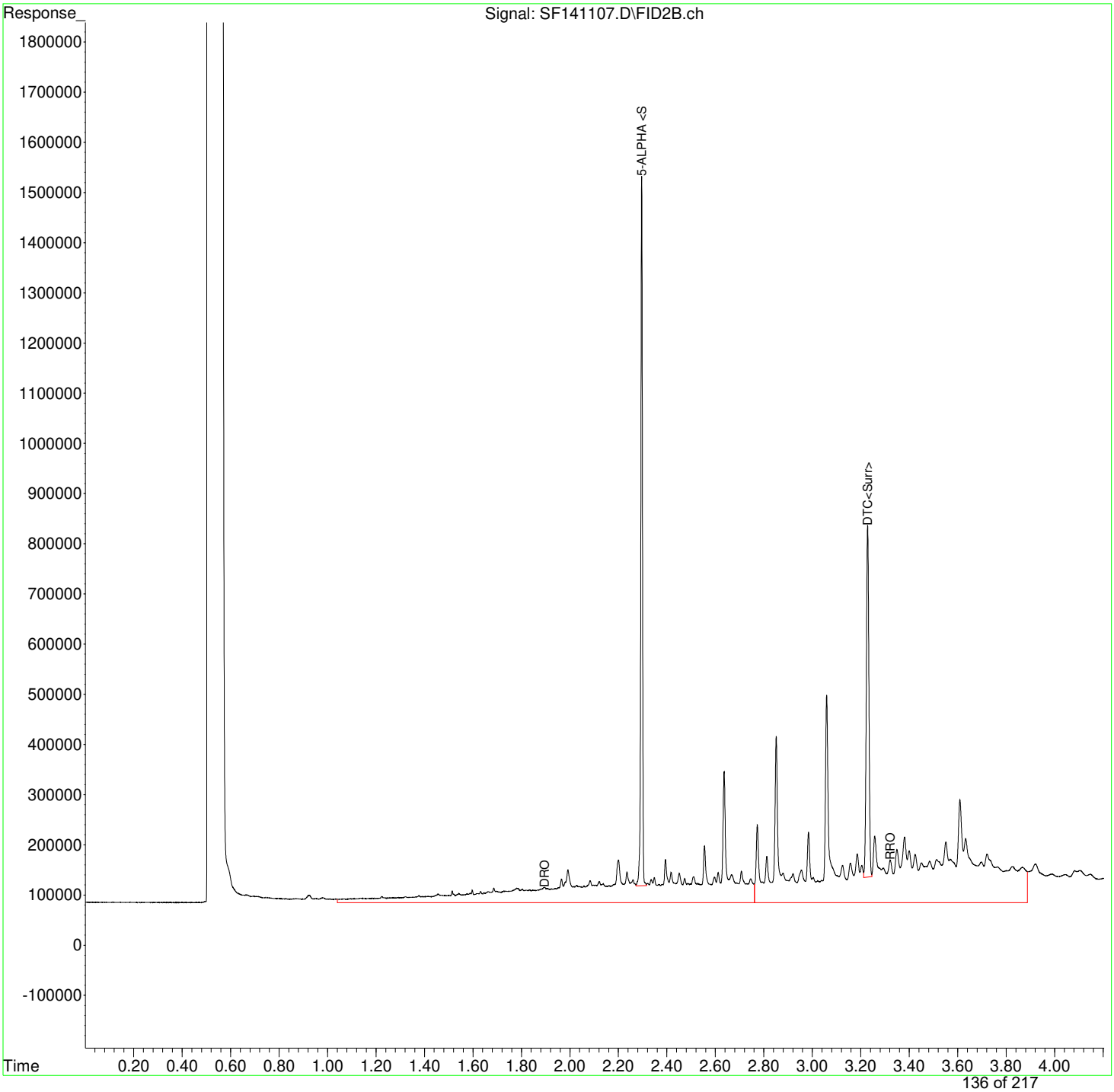
Integration File: autoint1.e
Quant Time: Apr 26 18:38:38 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141085.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:32
Operator : T.L
Sample : 1241713011
Misc :
ALS Vial : 85 Sample Multiplier: 1

Revised Report - Revision 2

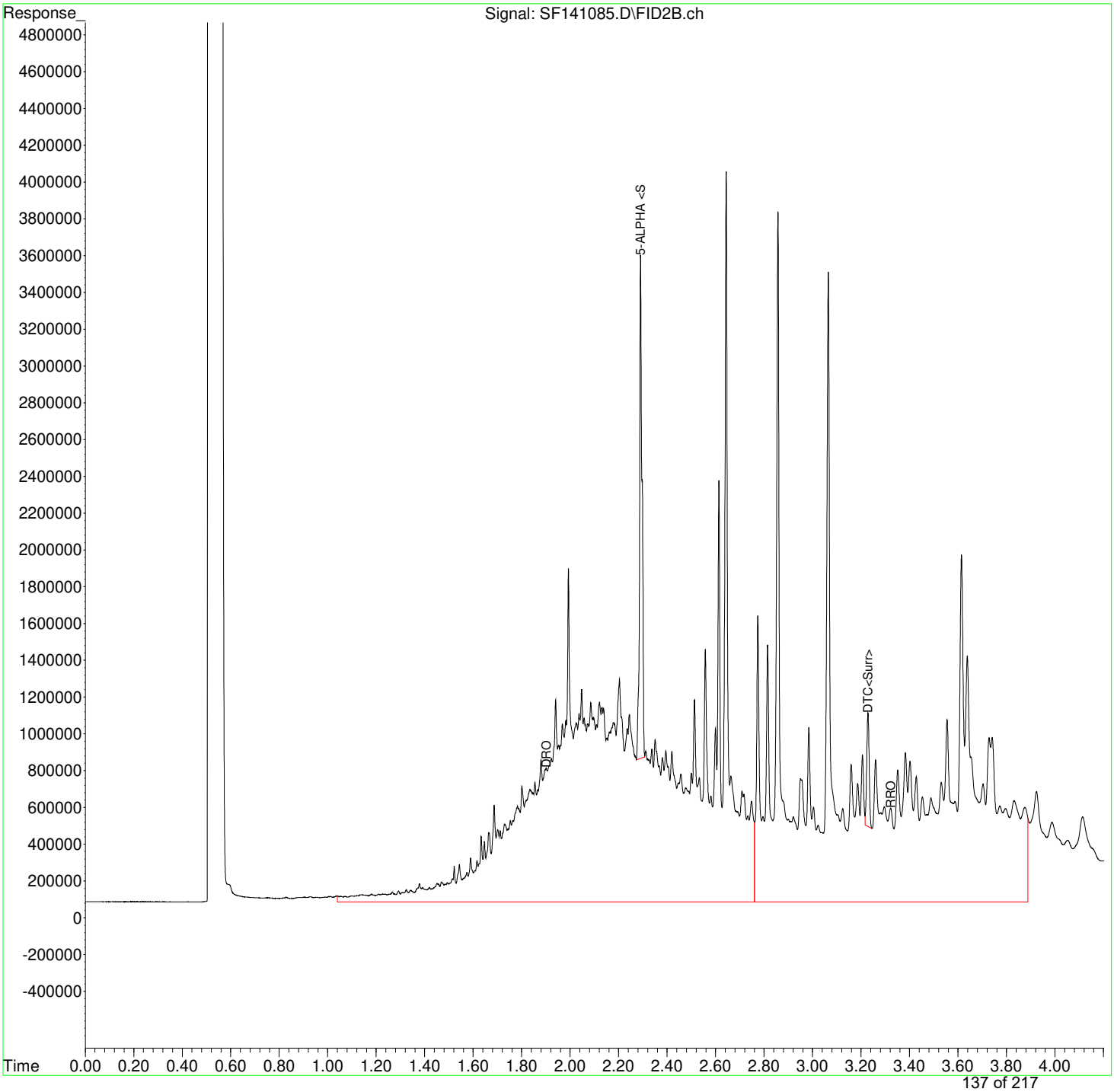
Integration File: autoint1.e
Quant Time: Apr 26 16:41:15 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashi Lhamu



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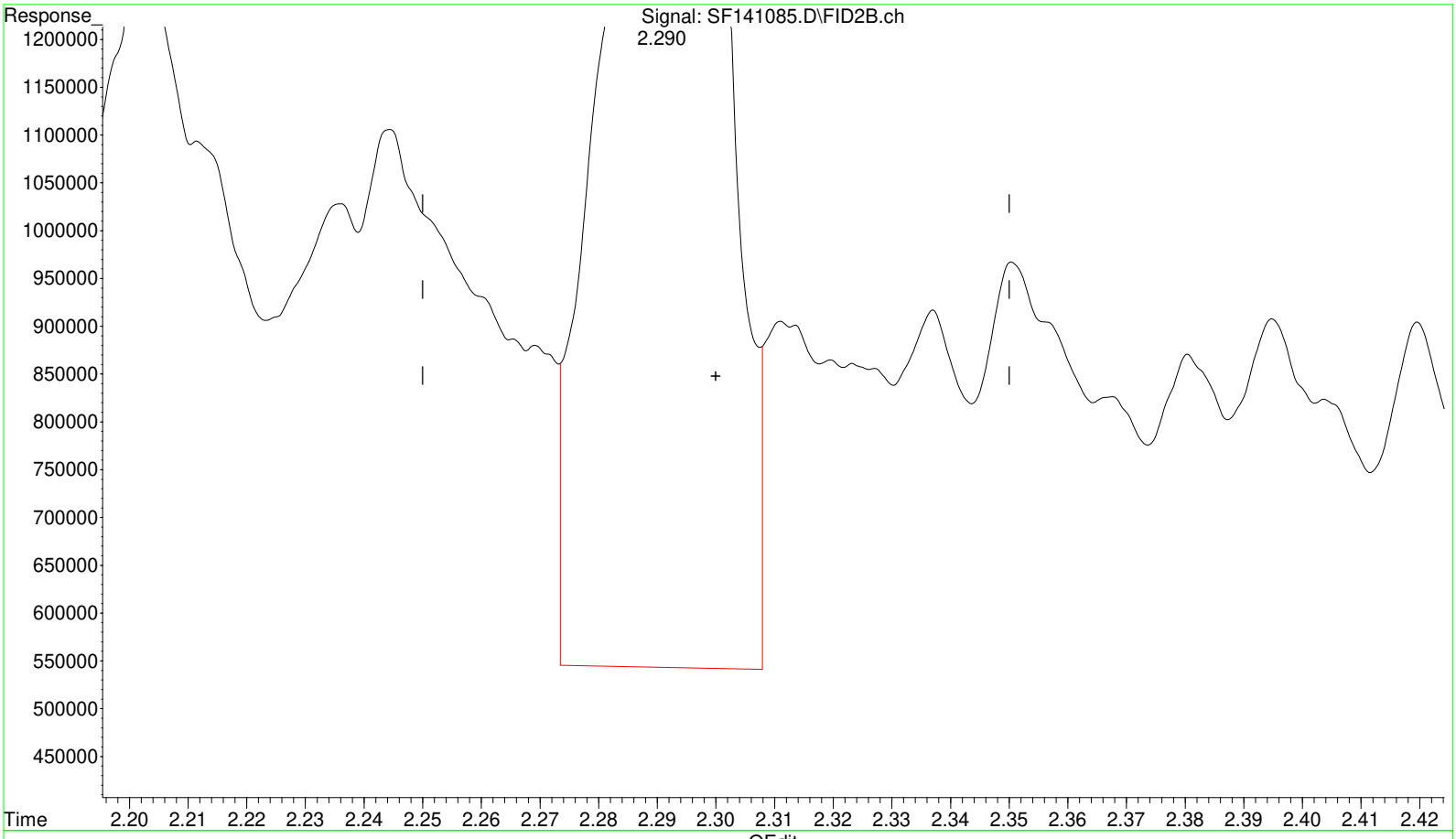
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141085.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:32
Operator : T.L
Sample : 1241713011
Misc :
ALS Vial : 85 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:40:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.291min 385.560 µg/mL

response 26115937

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

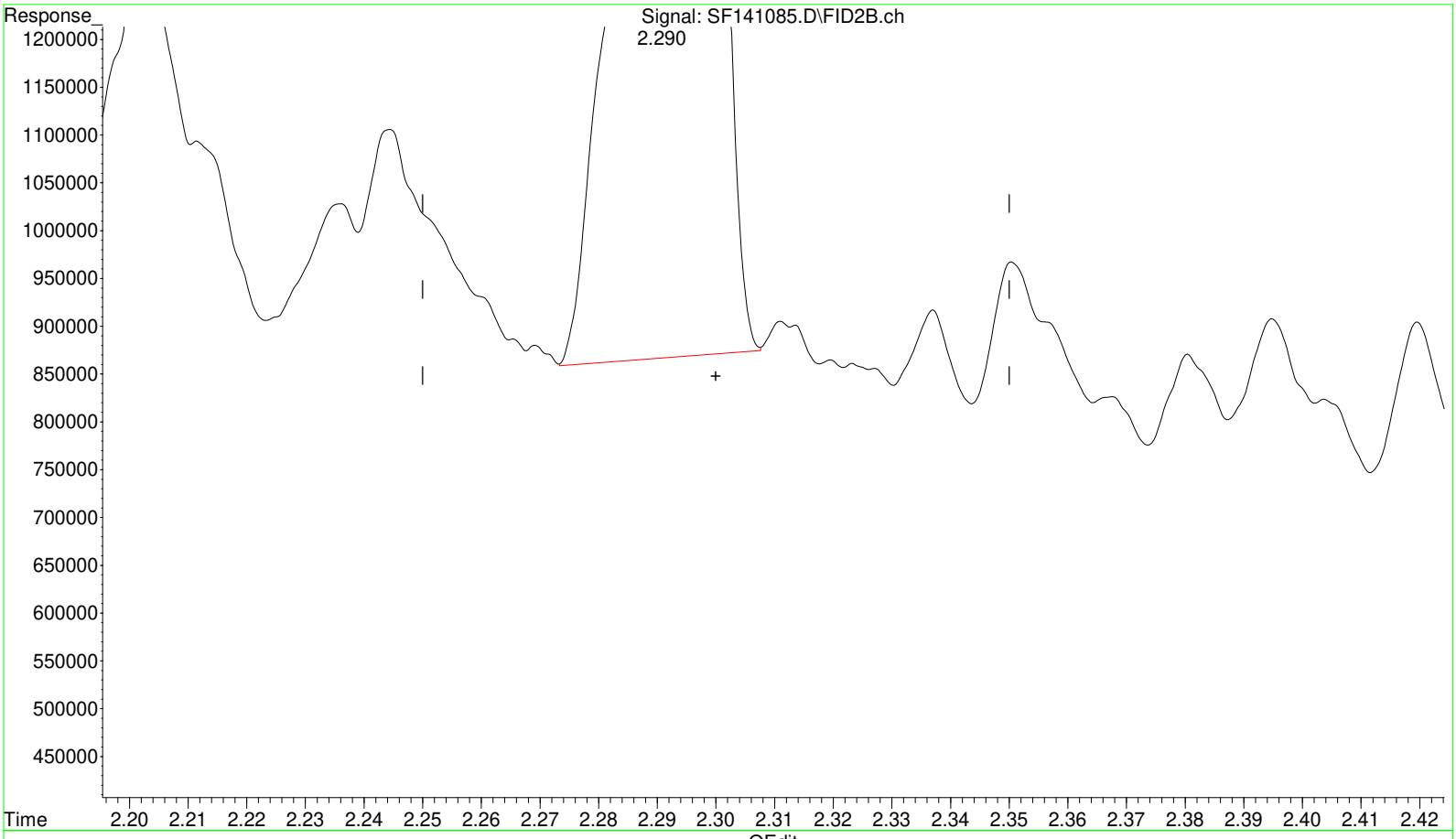
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141085.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:32
Operator : T.L
Sample : 1241713011
Misc :
ALS Vial : 85 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:40:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



QEdit

(2) 5-ALPHA <Surr> (S)

2.290min 286.888 µg/mL m

response 19432370

M-BLC
Apr 26, 2024

Zashid Lhamu

Apr 30, 2024

(+) = Expected Retention Time

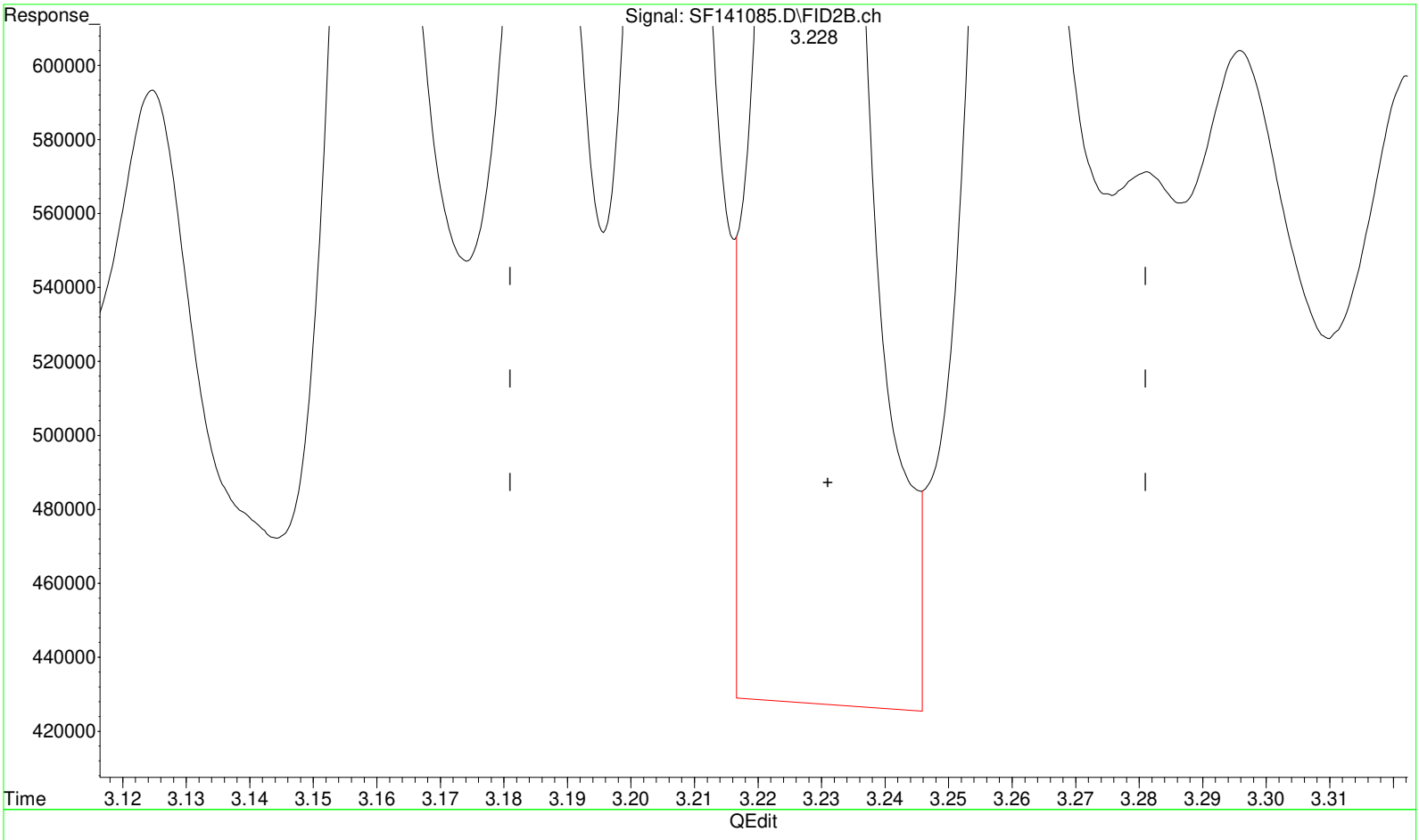
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141085.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:32
Operator : T.L
Sample : 1241713011
Misc :
ALS Vial : 85 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:40:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 92.976 µg/mL

response 5619057

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

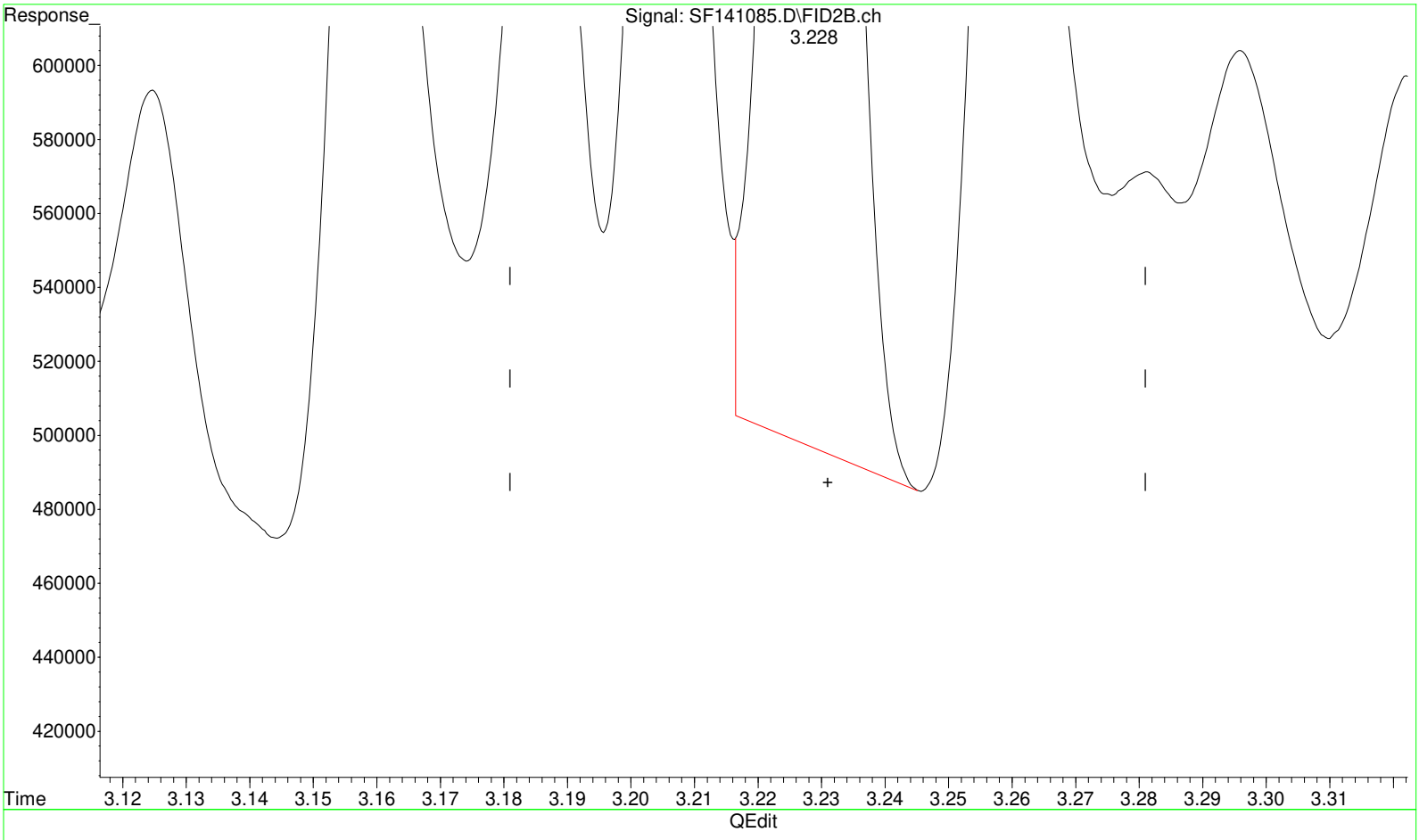
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141085.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:32
Operator : T.L
Sample : 1241713011
Misc :
ALS Vial : 85 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:40:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 73.128 µg/mL m

response 4419536

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141091.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713014
Misc :
ALS Vial : 88 Sample Multiplier: 1

Revised Report - Revision 2

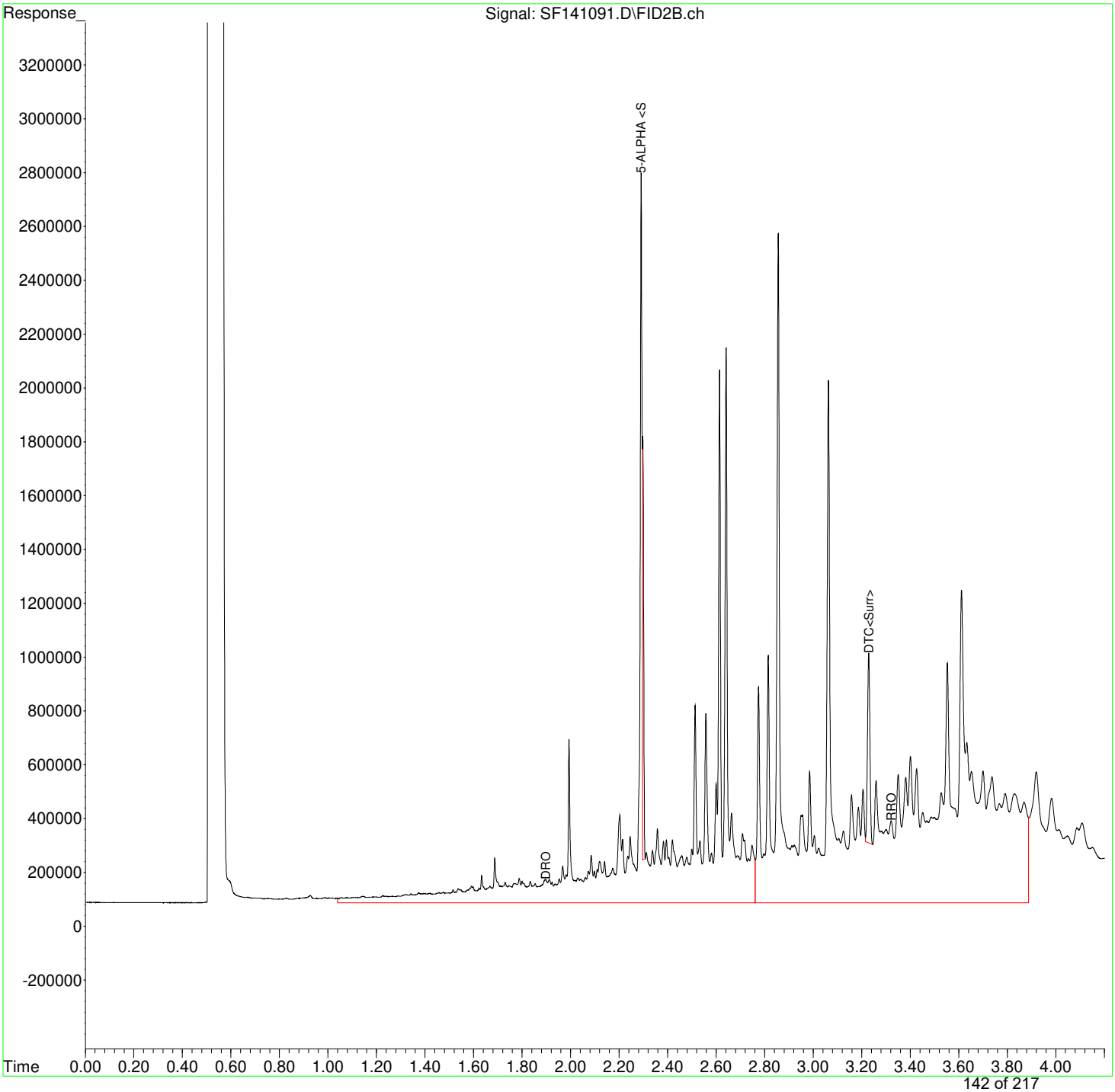
Integration File: autoint1.e
Quant Time: Apr 26 17:10:43 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Zashid Hamu

Volume Inj. :
Signal Phase :
Signal Info :



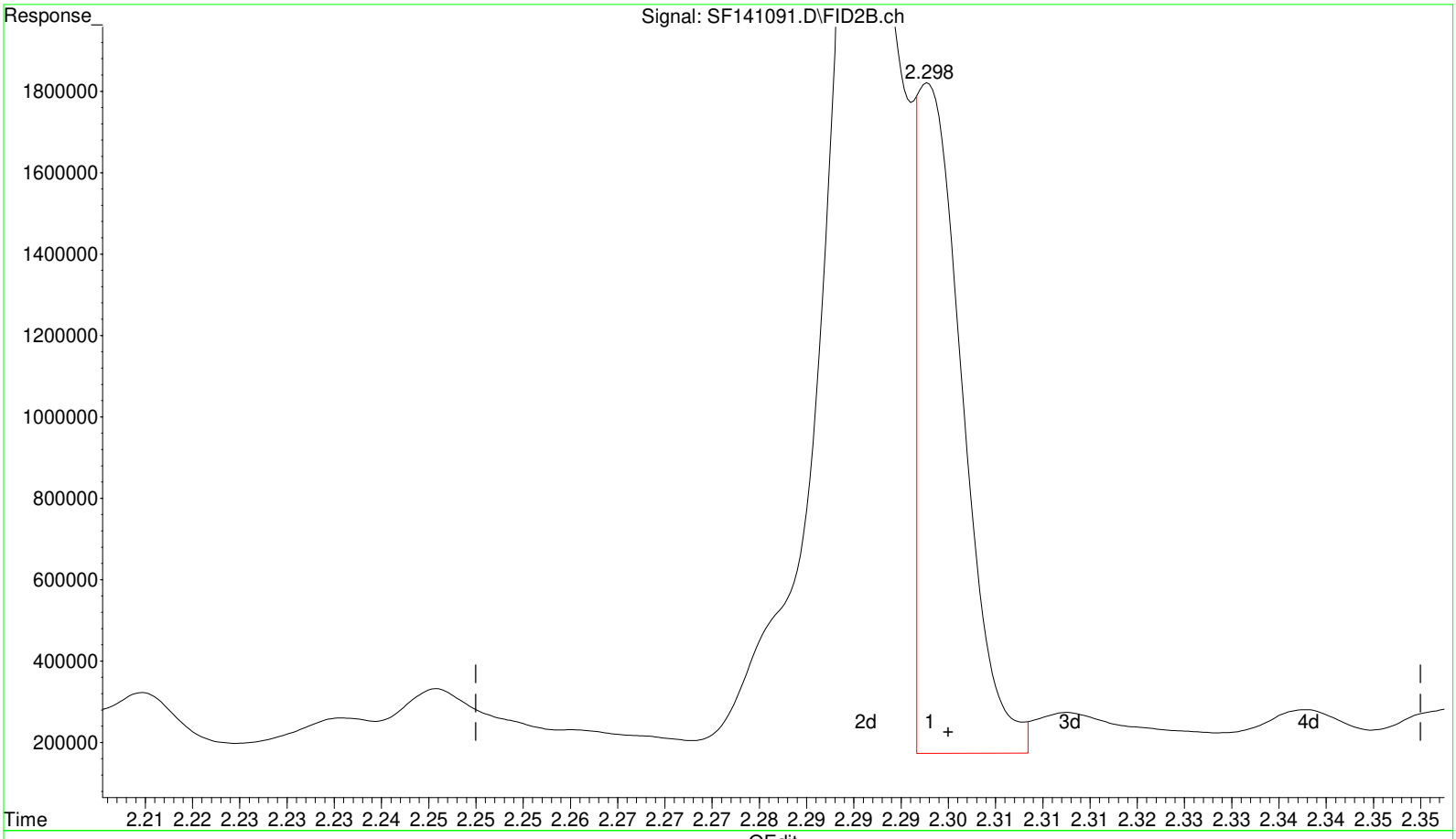
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141091.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713014
Misc :
ALS Vial : 88 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:10:03 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 84.147 µg/mL

response 5699699

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

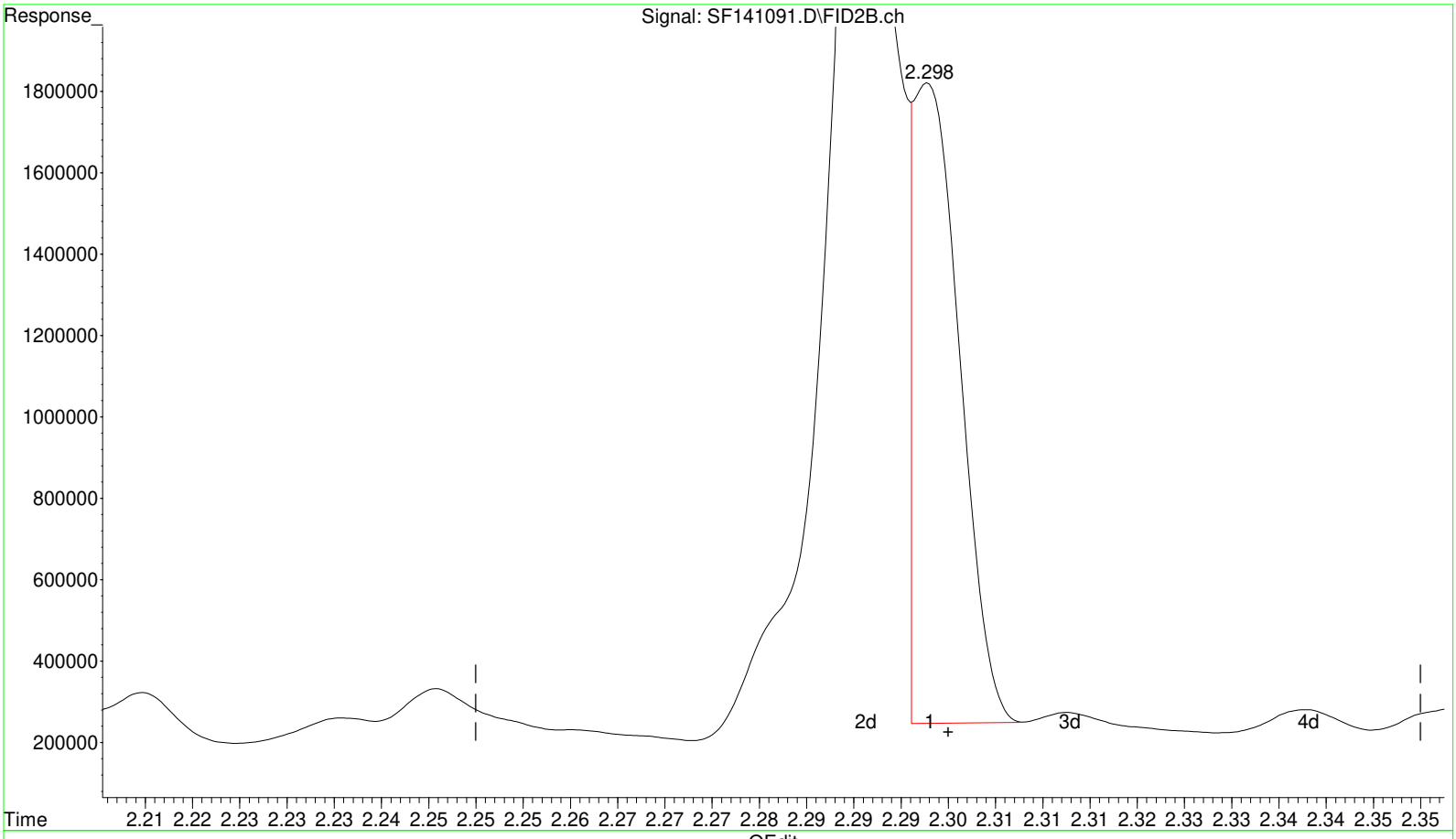
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141091.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713014
Misc :
ALS Vial : 88 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:10:03 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 78.540 µg/mL m

response 5319909

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

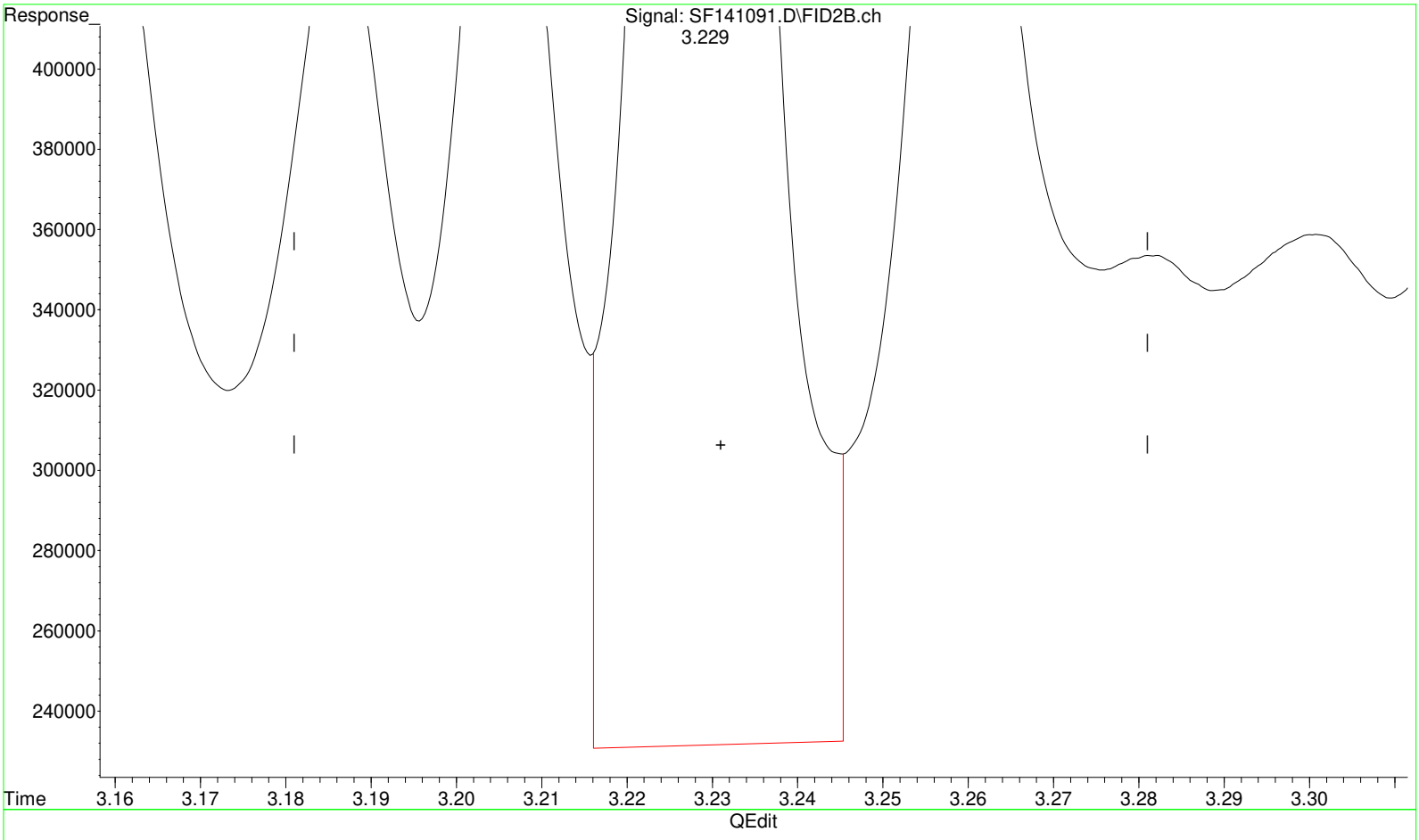
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141091.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713014
Misc :
ALS Vial : 88 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:10:03 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 103.636 µg/mL

response 6263277

O-BLC

Apr 26, 2024

Tashid Ihamu

Apr 30, 2024

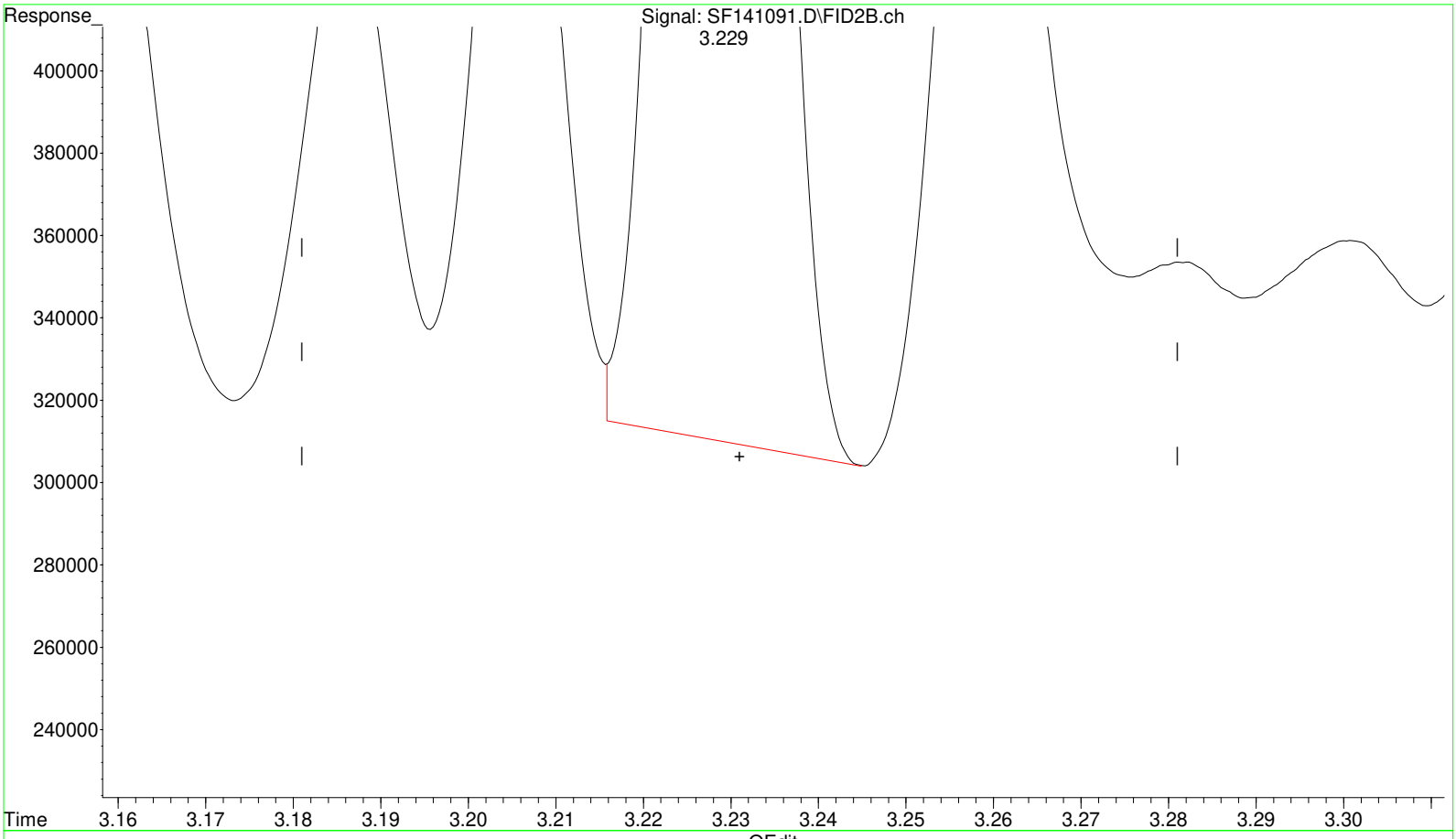
(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141091.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713014
Misc :
ALS Vial : 88 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:10:03 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 80.962 µg/mL m

response 4892975

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141103.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 18:00
Operator : T.L
Sample : 1241713015
Misc :
ALS Vial : 92 Sample Multiplier: 1

Revised Report - Revision 2

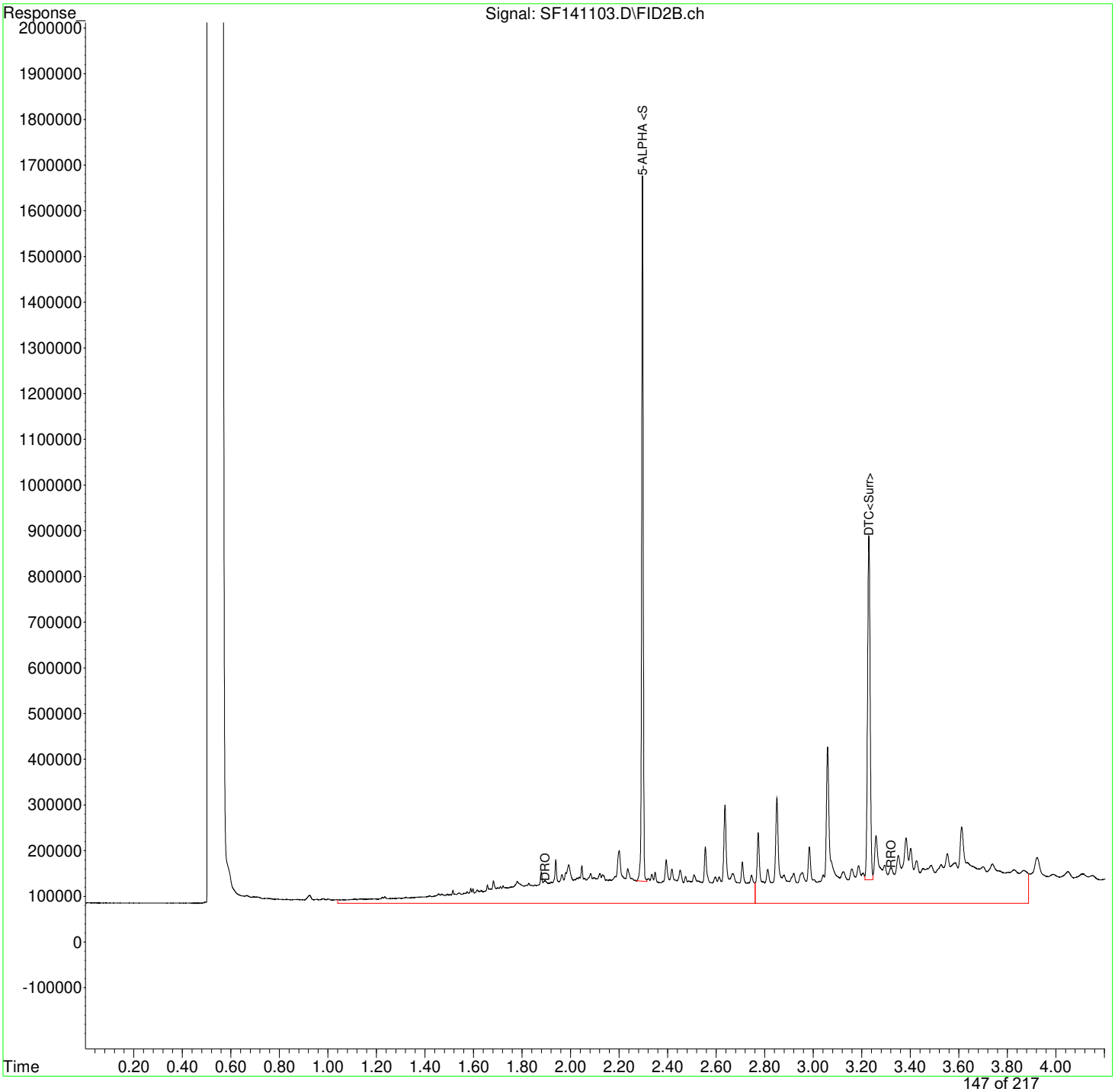
Integration File: autoint1.e
Quant Time: Apr 26 18:09:00 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141077.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:52
Operator : T.L
Sample : 1241713016
Misc :
ALS Vial : 81 Sample Multiplier: 1

Revised Report - Revision 2

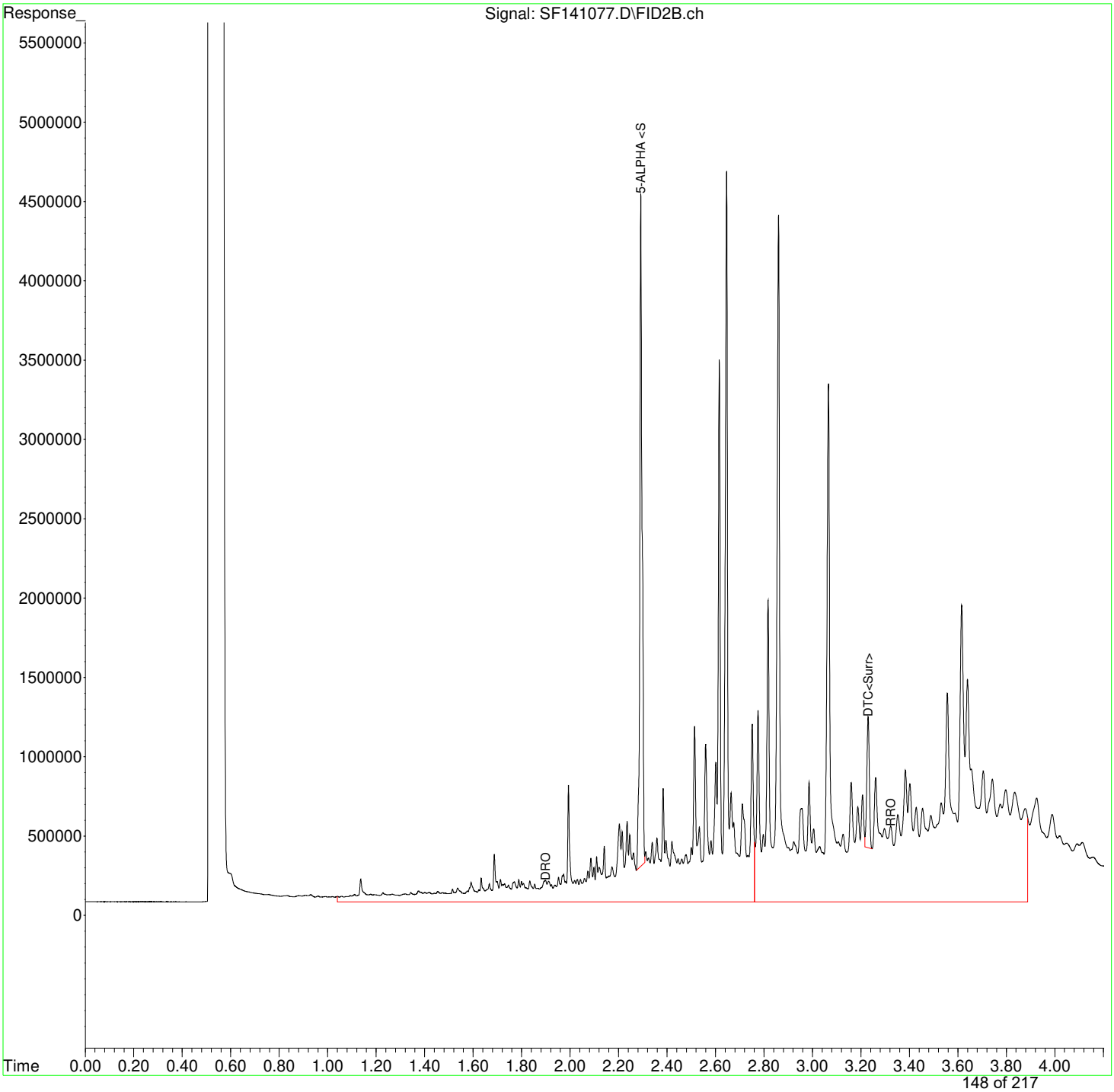
Integration File: autoint1.e
Quant Time: Apr 26 15:59:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



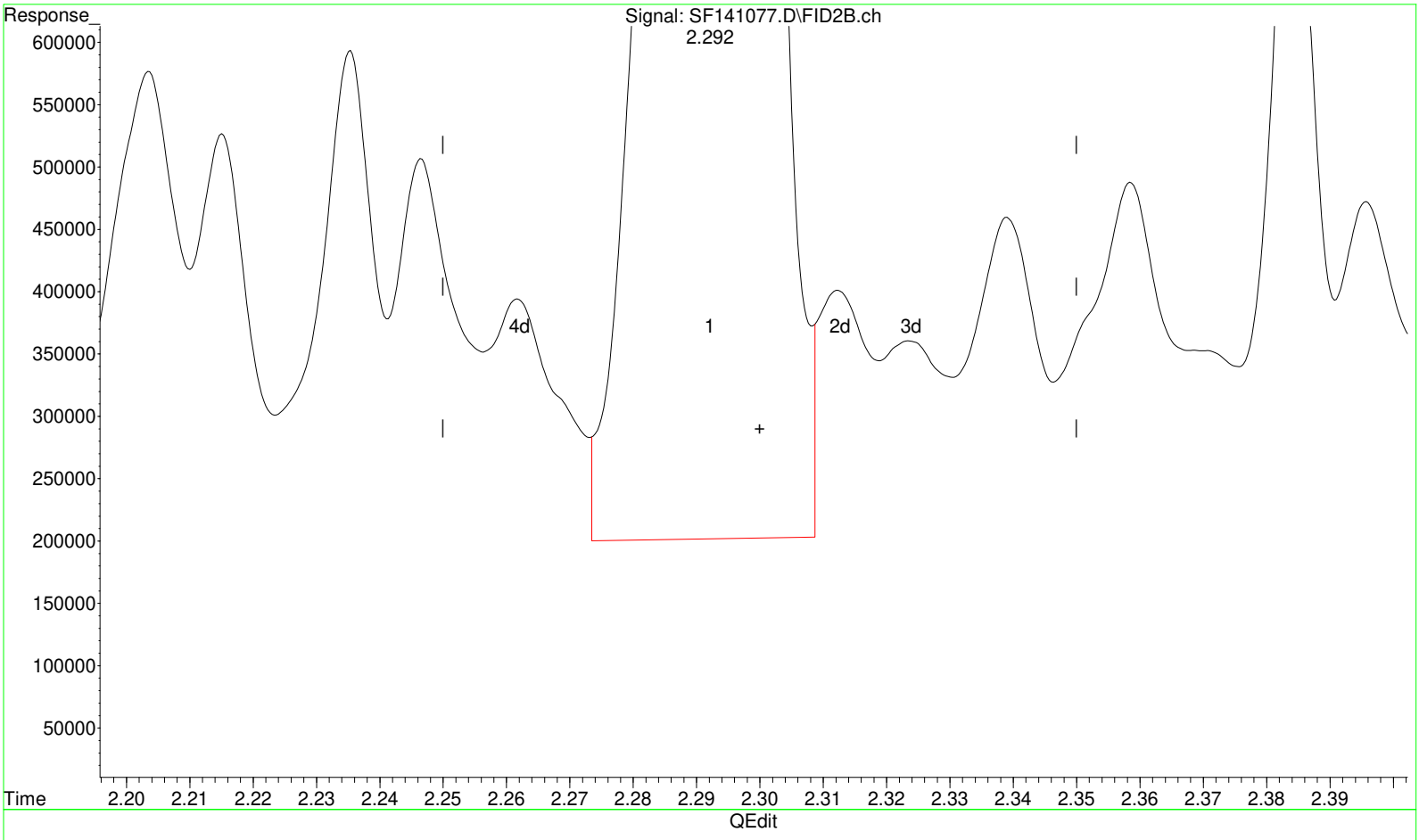
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141077.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:52
Operator : T.L
Sample : 1241713016
Misc :
ALS Vial : 81 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:59:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.292min 456.068 µg/mL

response 30891842

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

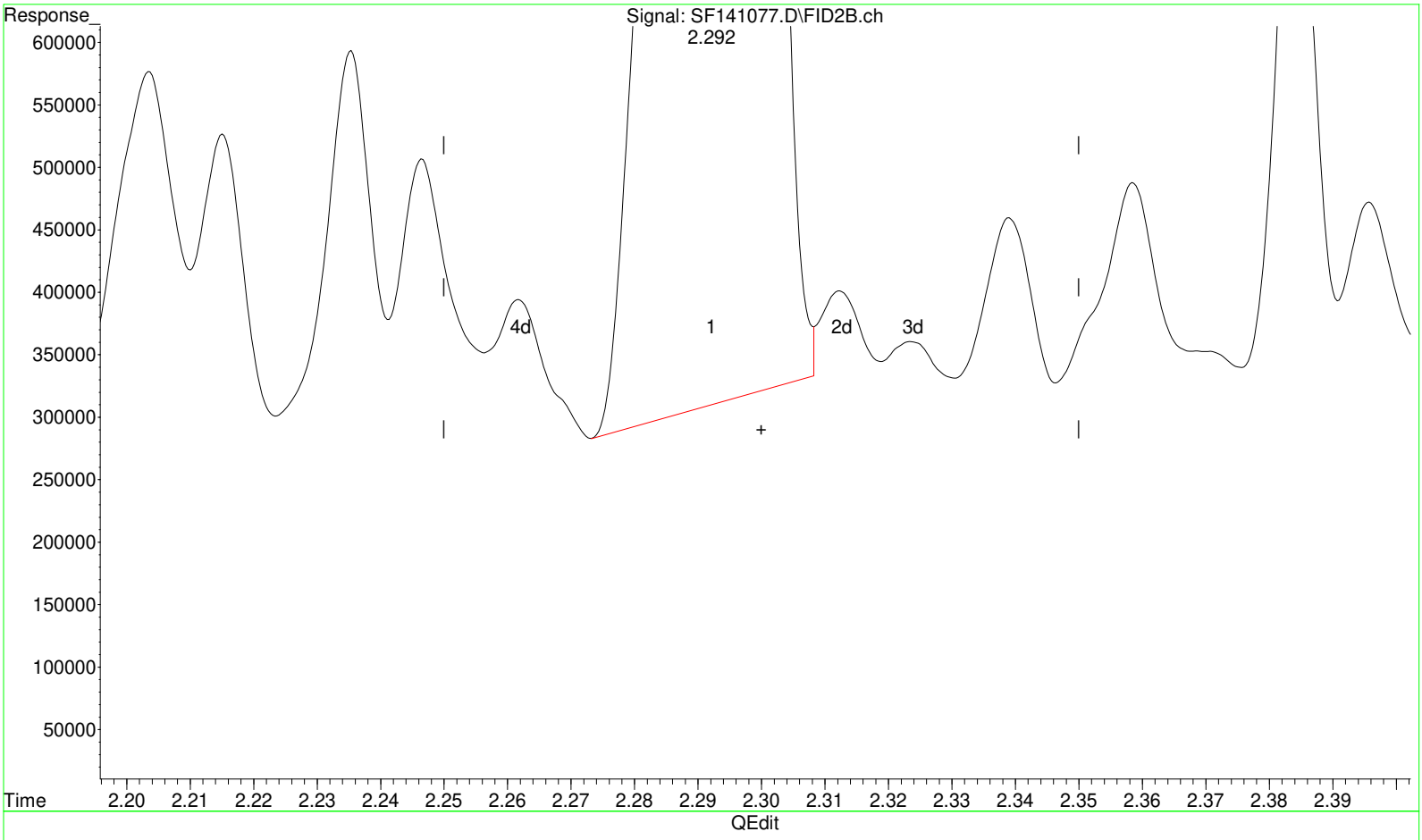
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141077.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:52
Operator : T.L
Sample : 1241713016
Misc :
ALS Vial : 81 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:59:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.292min 422.850 µg/mL m

response 28641804

M-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

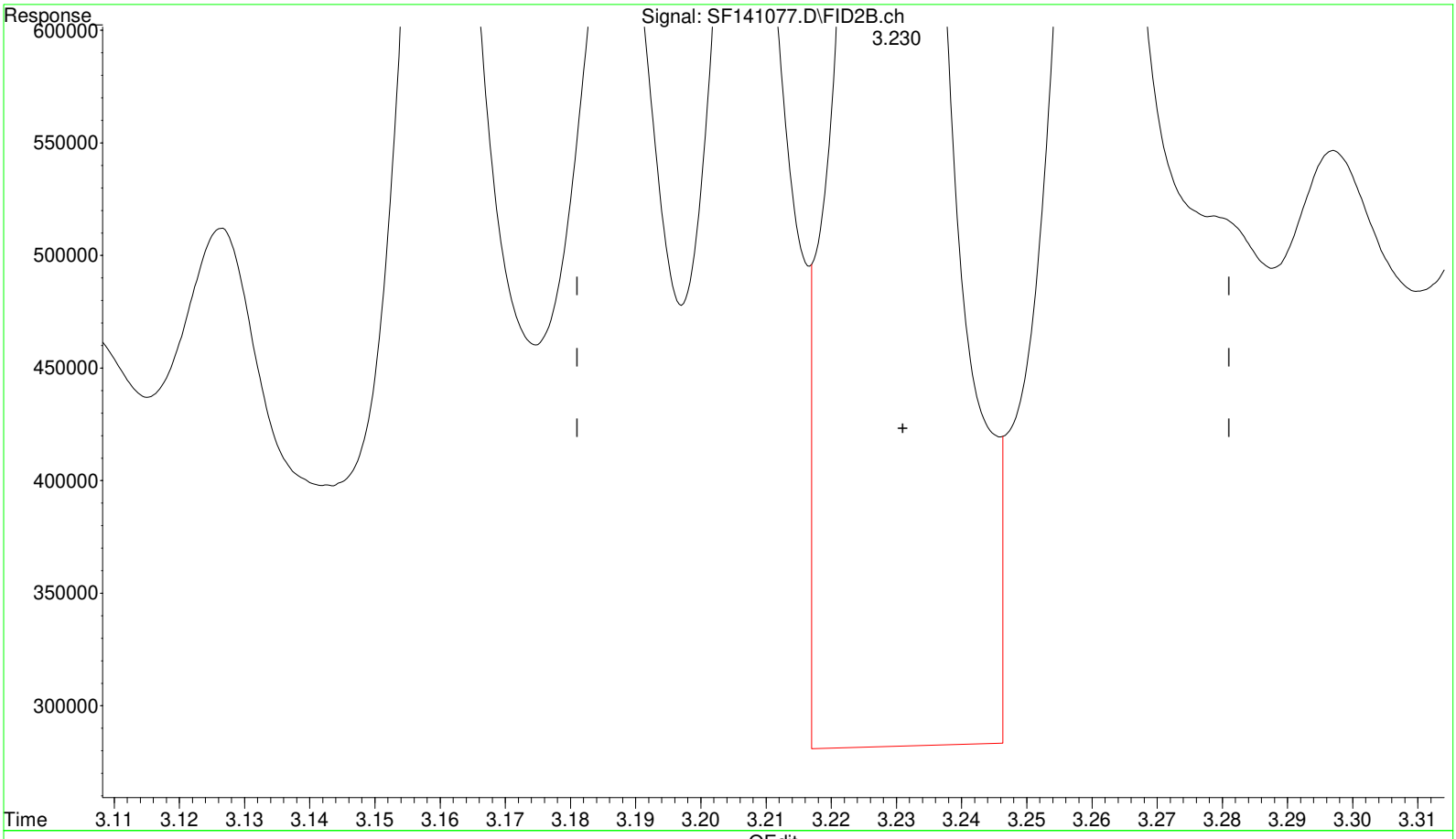
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141077.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:52
Operator : T.L
Sample : 1241713016
Misc :
ALS Vial : 81 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:59:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 140.698 µg/mL

response 8503126

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Tate

(+) = Expected Retention Time

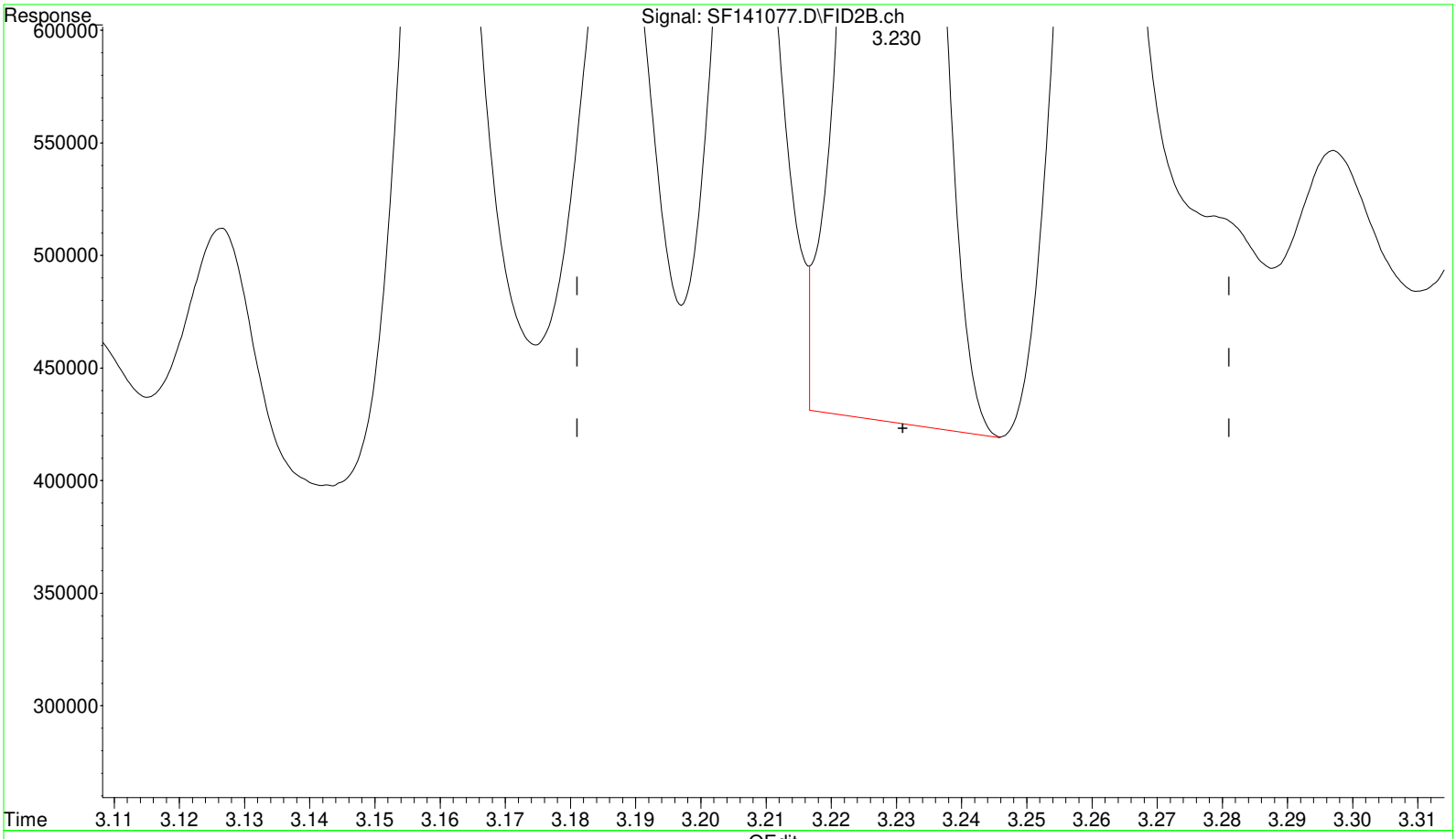
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141077.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 15:52
Operator : T.L
Sample : 1241713016
Misc :
ALS Vial : 81 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 15:59:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 99.034 µg/mL m

response 5985158

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Pate

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141105.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 18:10
Operator : T.L
Sample : 1241713017
Misc :
ALS Vial : 93 Sample Multiplier: 1

Revised Report - Revision 2

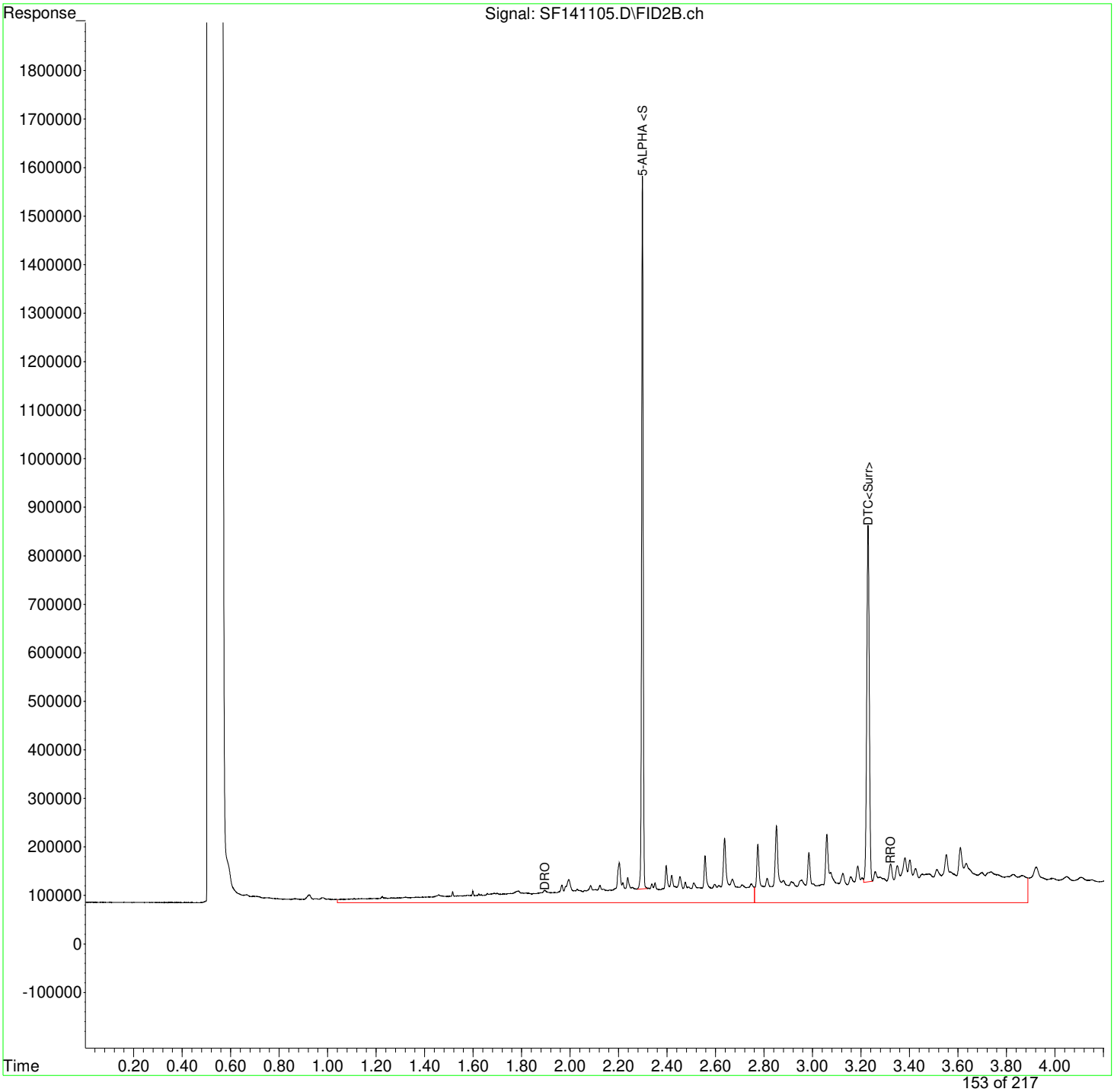
Integration File: autoint1.e
Quant Time: Apr 26 18:23:53 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141093.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713018
Misc :
ALS Vial : 89 Sample Multiplier: 1

Revised Report - Revision 2

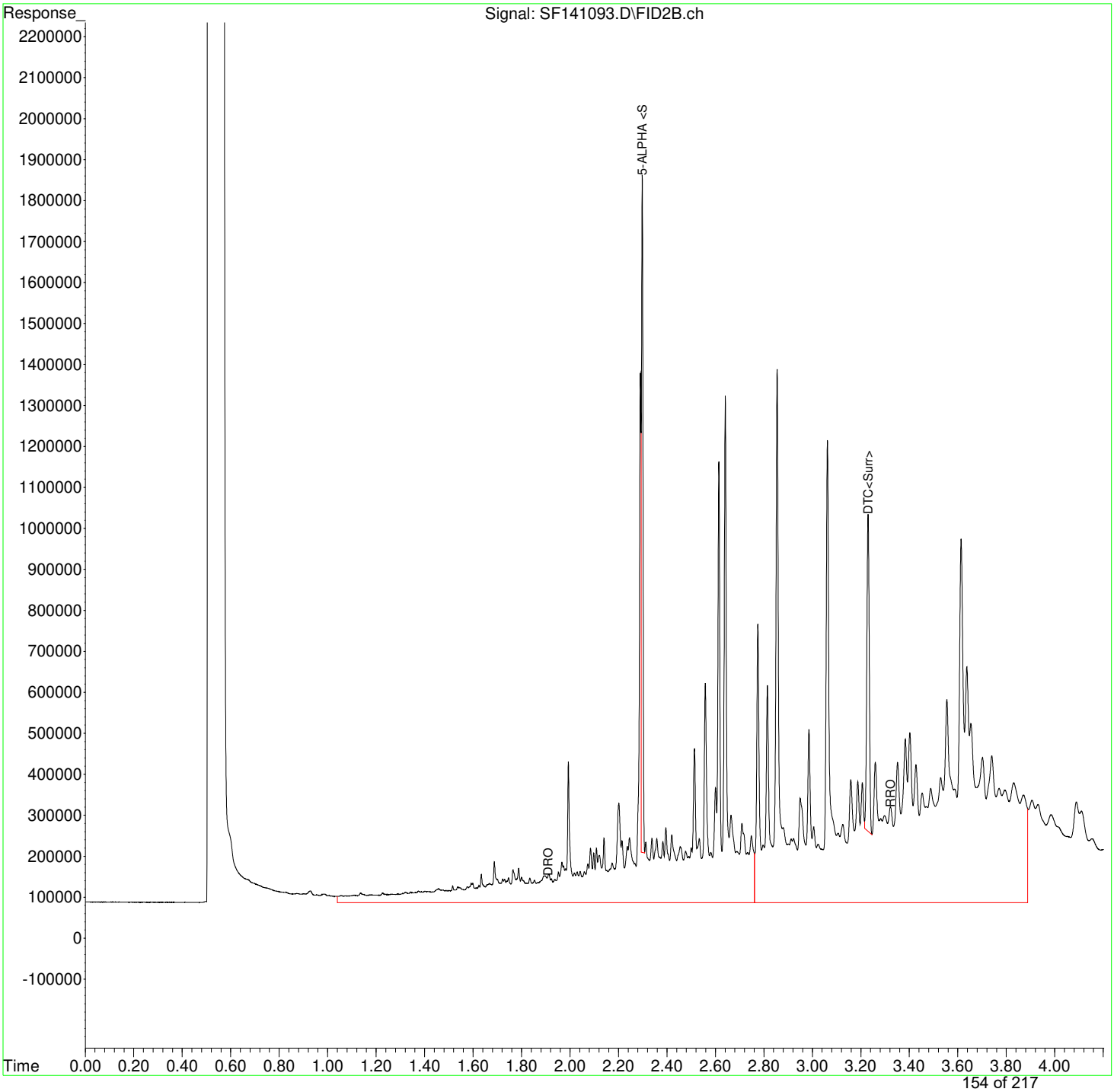
Integration File: autoint1.e
Quant Time: Apr 26 17:21:42 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



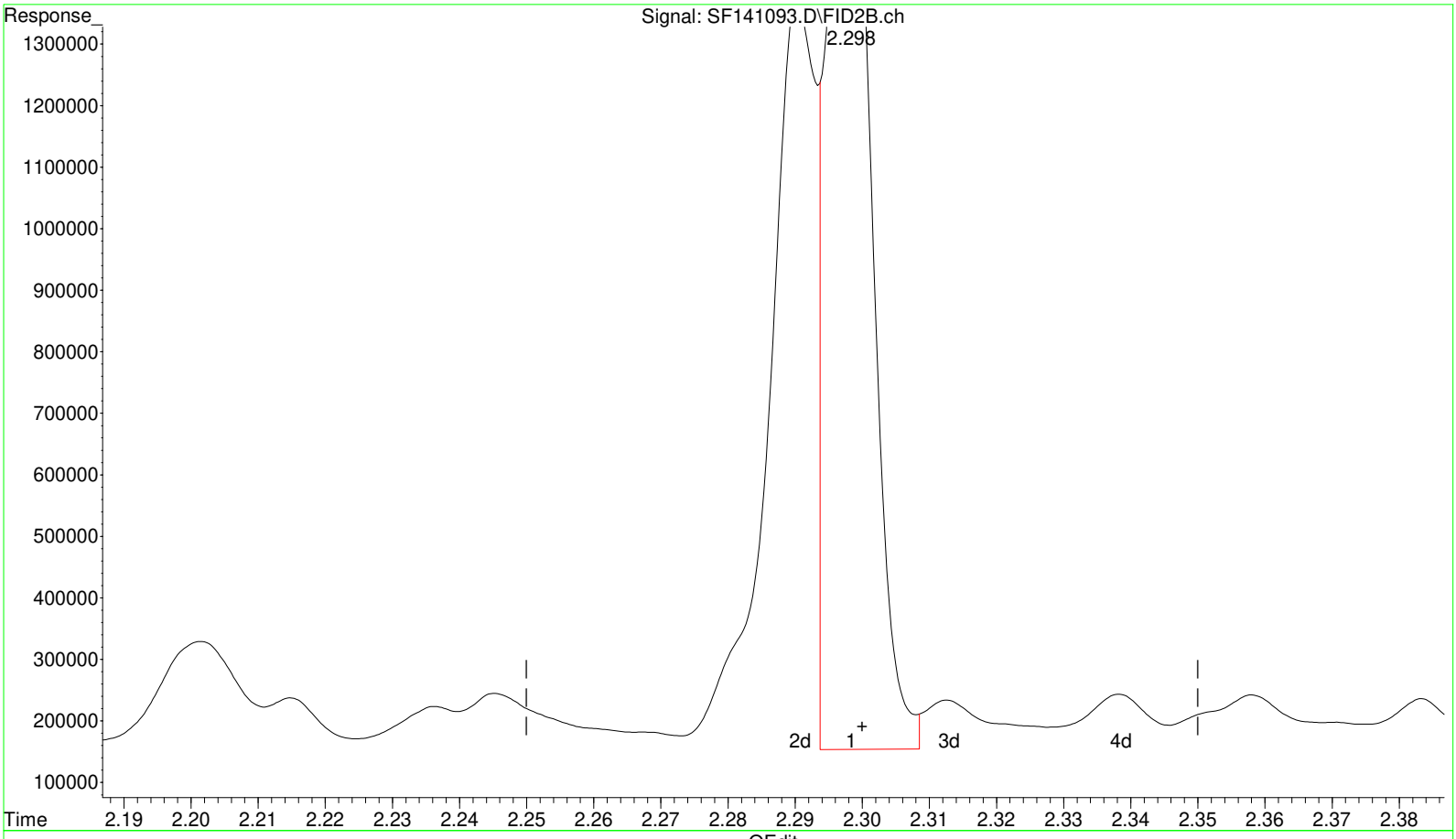
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141093.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713018
Misc :
ALS Vial : 89 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:21:13 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 115.288 µg/mL

response 7809037

O-BLC

Apr 26, 2024

Zashid Khamu

Apr 30, 2024

(+) = Expected Retention Time

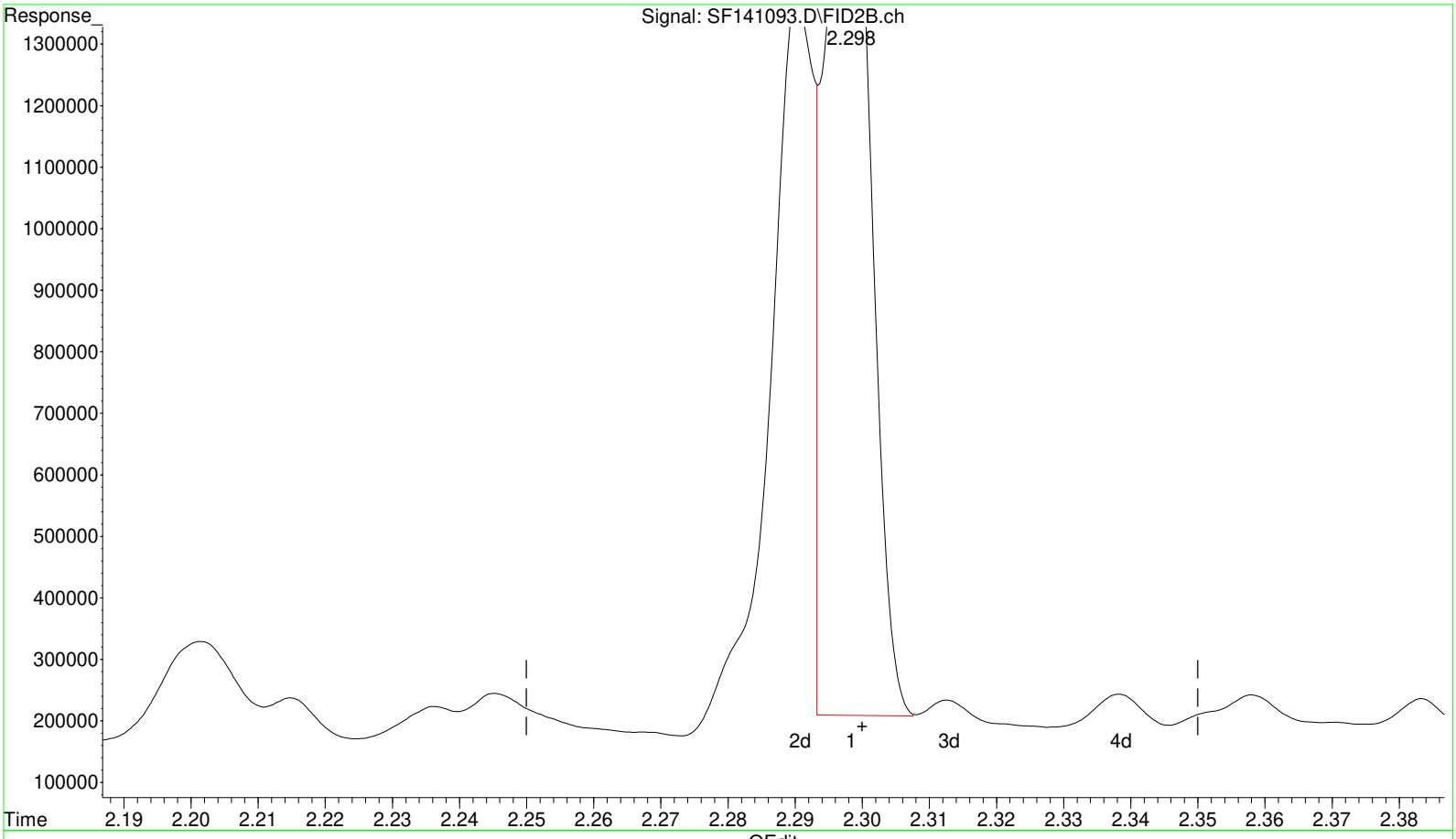
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141093.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713018
Misc :
ALS Vial : 89 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:21:13 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.298min 108.675 µg/mL m

response 7361114

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

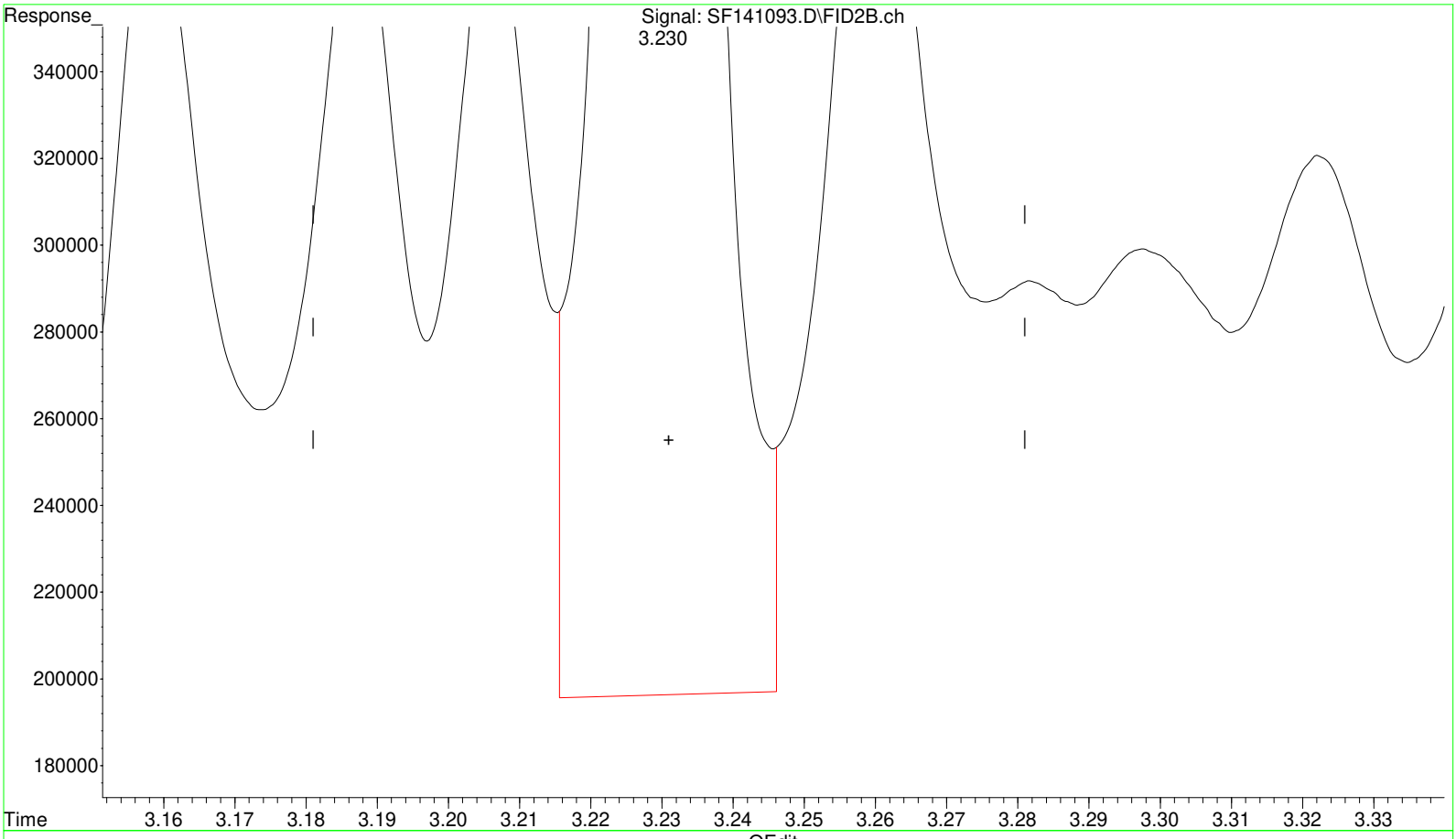
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141093.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713018
Misc :
ALS Vial : 89 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:21:13 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 109.652 µg/mL

response 6626904

O-BLC

Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

Bruce Gate

(+) = Expected Retention Time

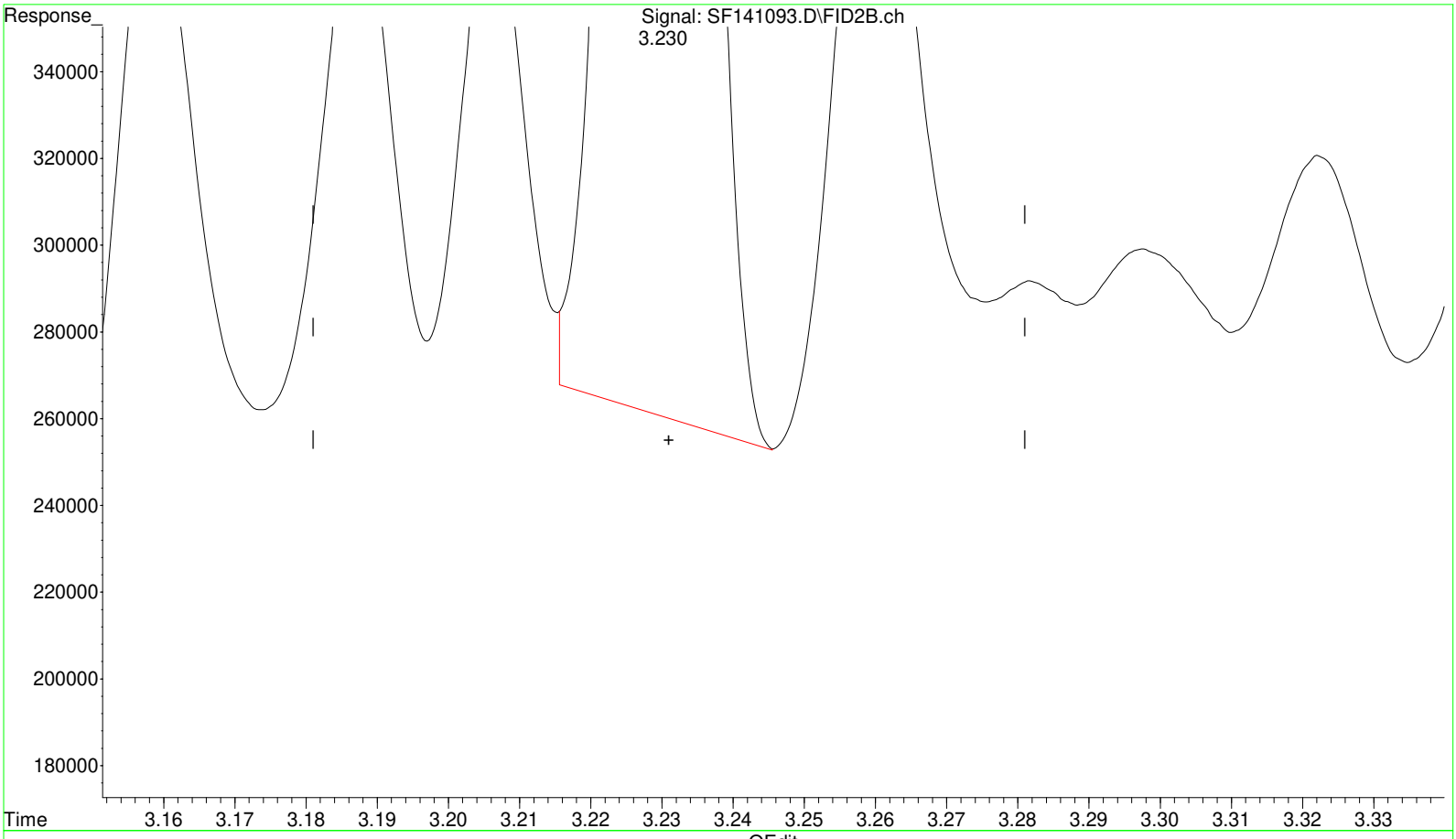
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141093.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713018
Misc :
ALS Vial : 89 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 17:21:13 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.230min 90.192 µg/mL m

response 5450824

M-BLC
Apr 26, 2024

Zashid Hamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141109.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 18:30
Operator : T.L
Sample : 1241713019
Misc :
ALS Vial : 90 Sample Multiplier: 1

Revised Report - Revision 2

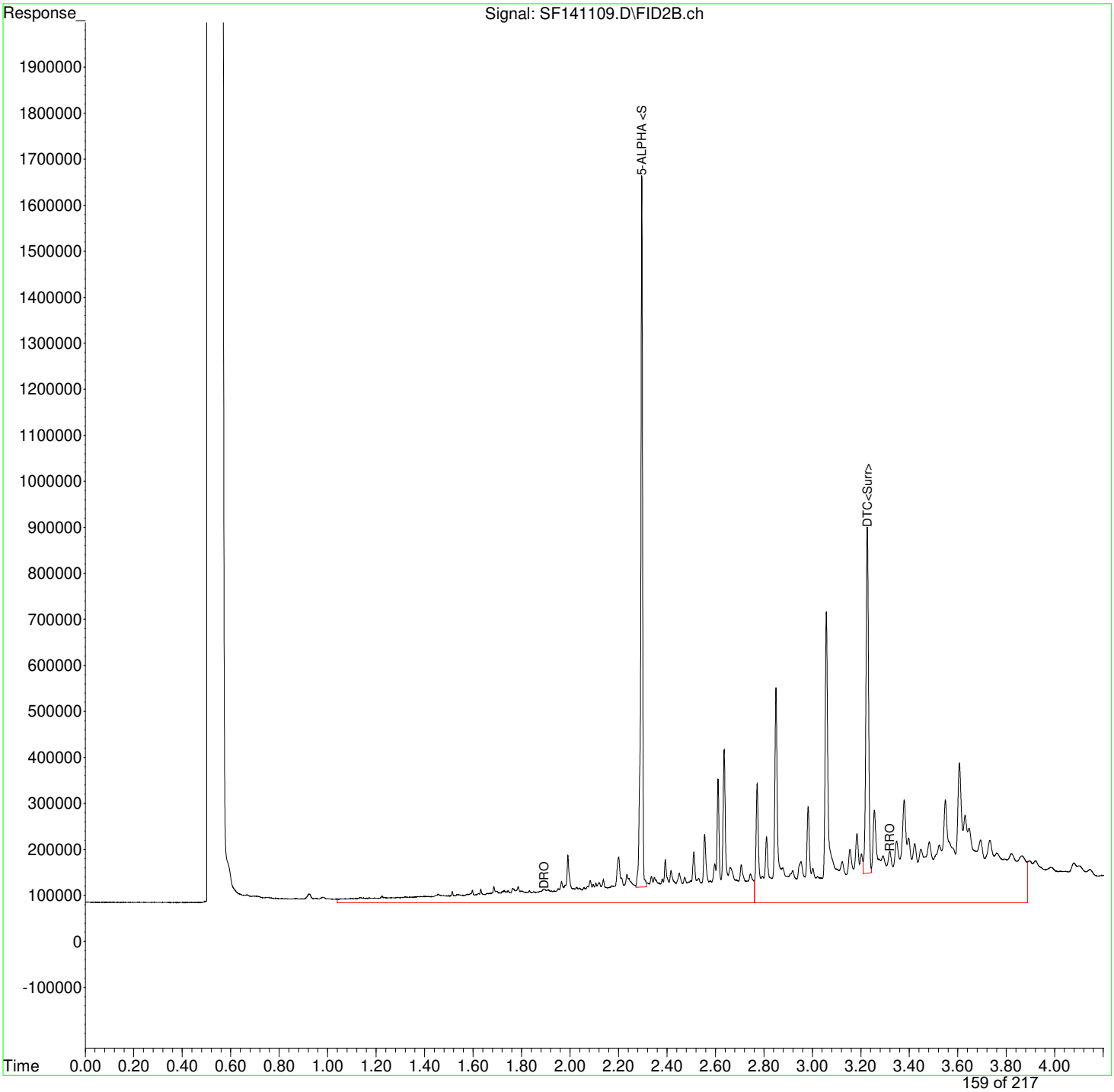
Integration File: autoint1.e
Quant Time: Apr 26 18:38:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141079.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:02
Operator : T.L
Sample : 1241713020
Misc :
ALS Vial : 82 Sample Multiplier: 1

Revised Report - Revision 2

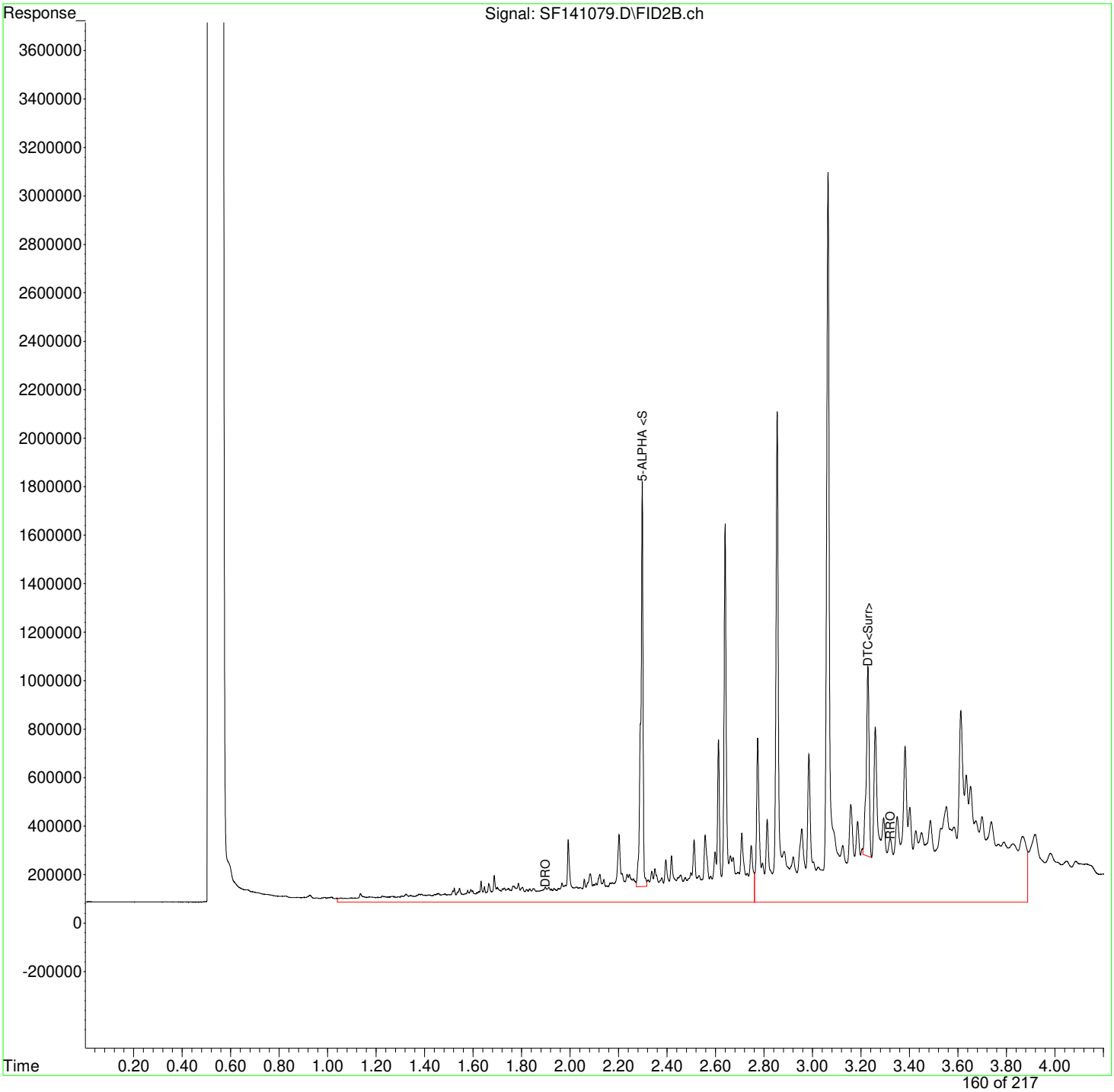
Integration File: autoint1.e
Quant Time: Apr 26 16:10:21 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

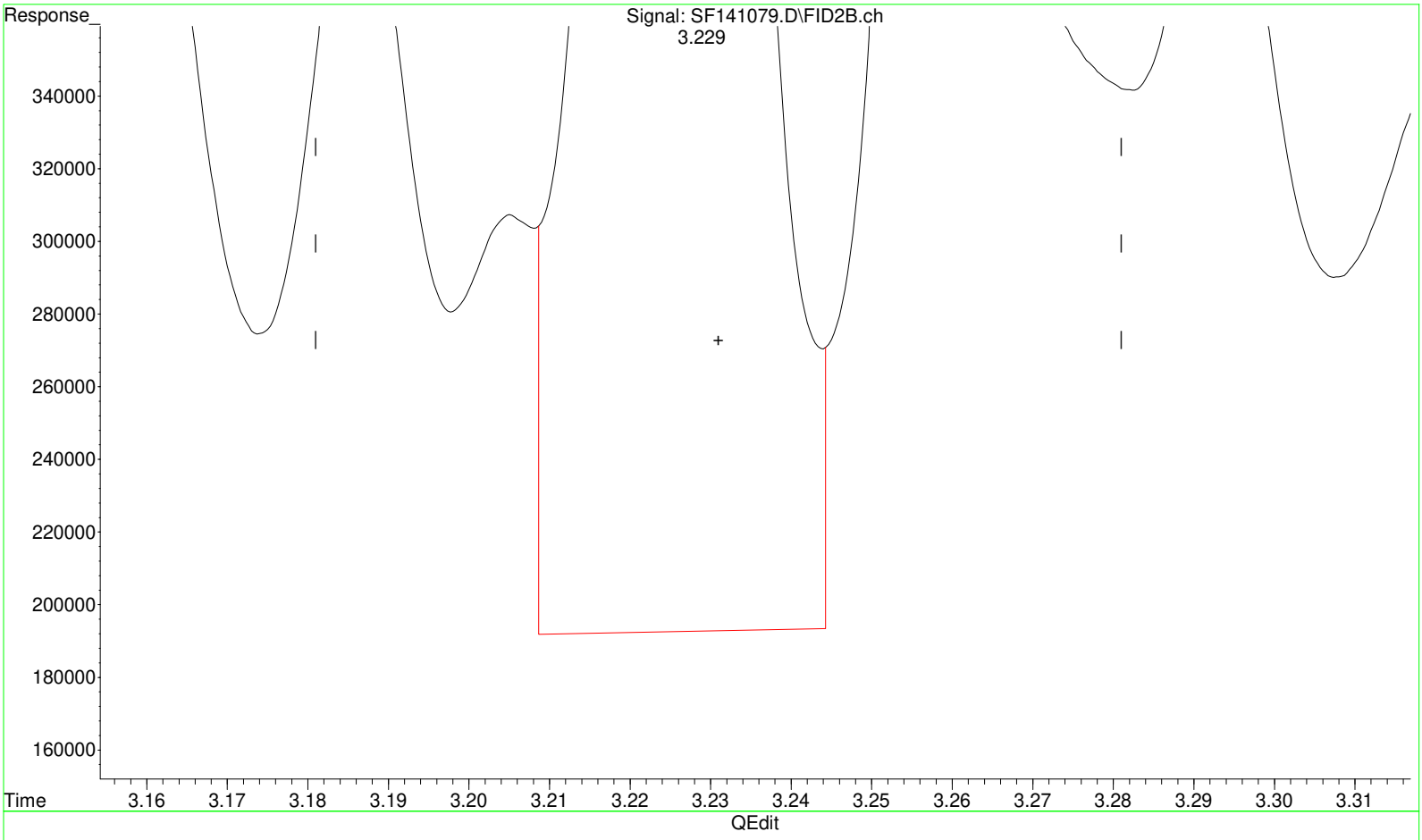


Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141079.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:02
Operator : T.L
Sample : 1241713020
Misc :
ALS Vial : 82 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:09:54 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 135.883 µg/mL

response 8212144

O-BLC
Apr 26, 2024

Zashid Lhamu

Apr 30, 2024

(+) = Expected Retention Time

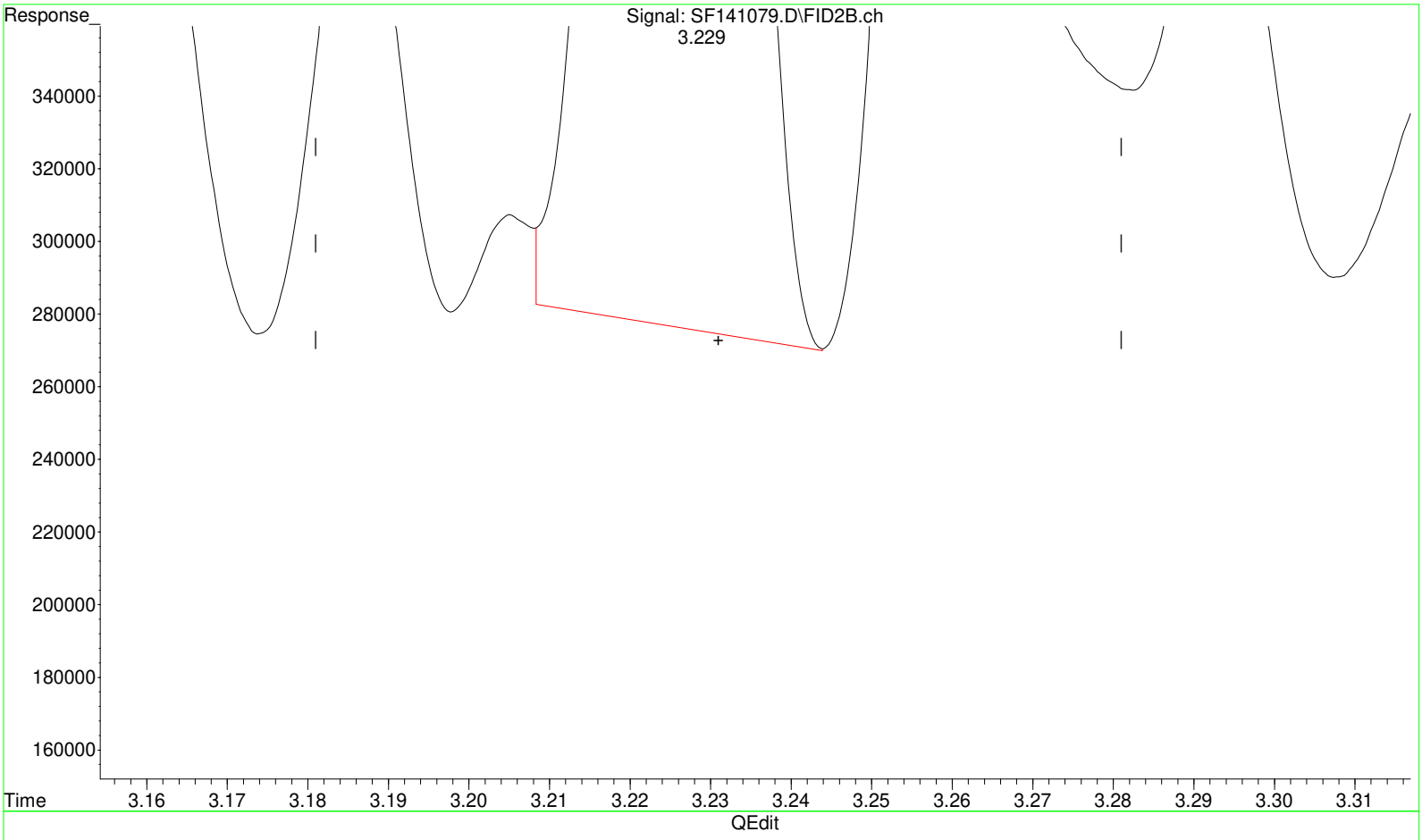
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141079.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 16:02
Operator : T.L
Sample : 1241713020
Misc :
ALS Vial : 82 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 16:09:54 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 106.261 µg/mL m

response 6421942

M-BLC
Apr 26, 2024

Tashi Lhamu

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141099.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:40
Operator : T.L
Sample : 1241713021
Misc :
ALS Vial : 95 Sample Multiplier: 1

Revised Report - Revision 2

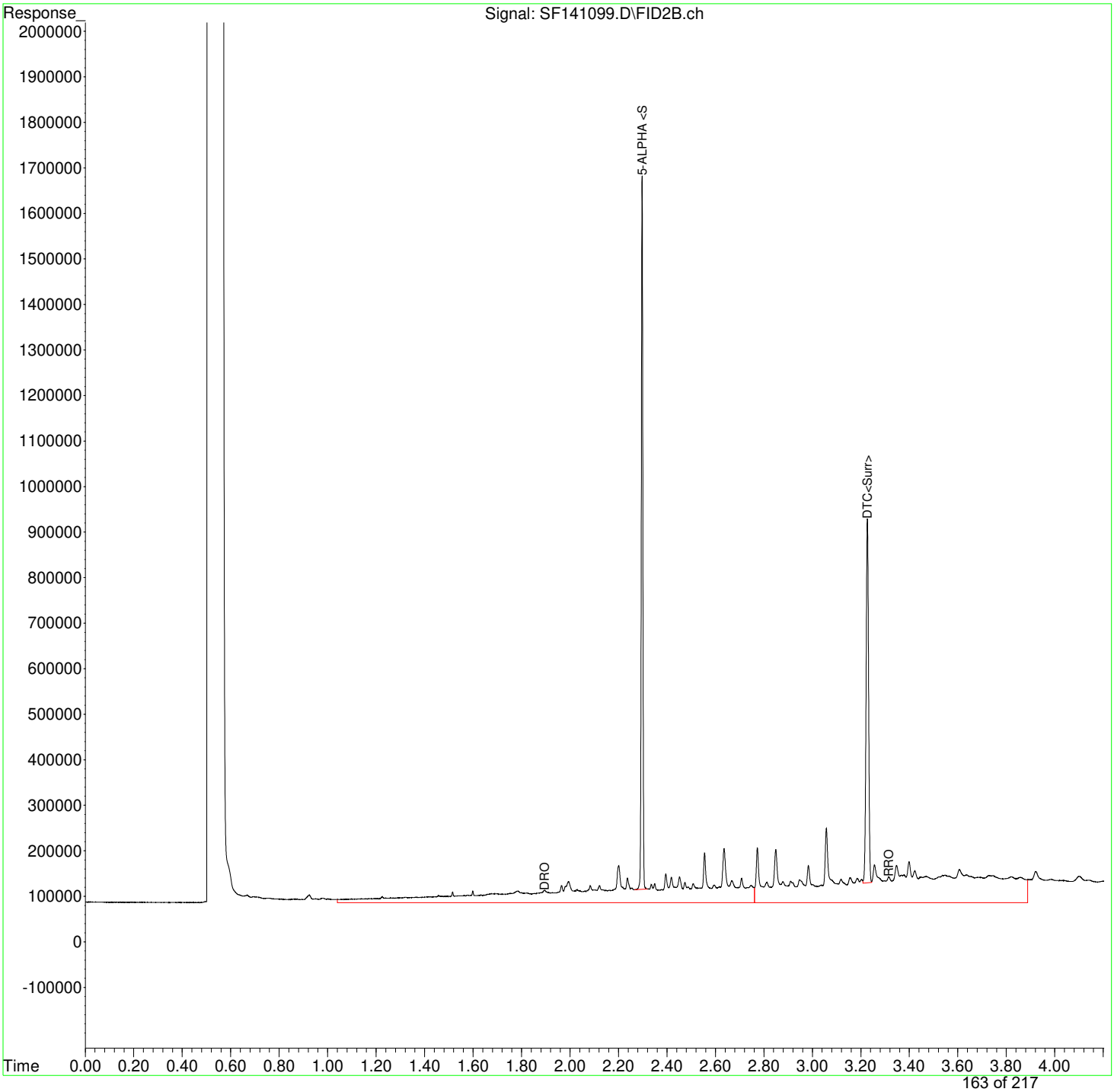
Integration File: autoint1.e
Quant Time: Apr 26 17:52:20 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 26, 2024

Zashid Hamu



Data Path : Z:\DATA\SF\Data\SF04262024.SEC\
Data File : SF141101.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 17:50
Operator : T.L
Sample : 1241713022
Misc :
ALS Vial : 91 Sample Multiplier: 1

Revised Report - Revision 2

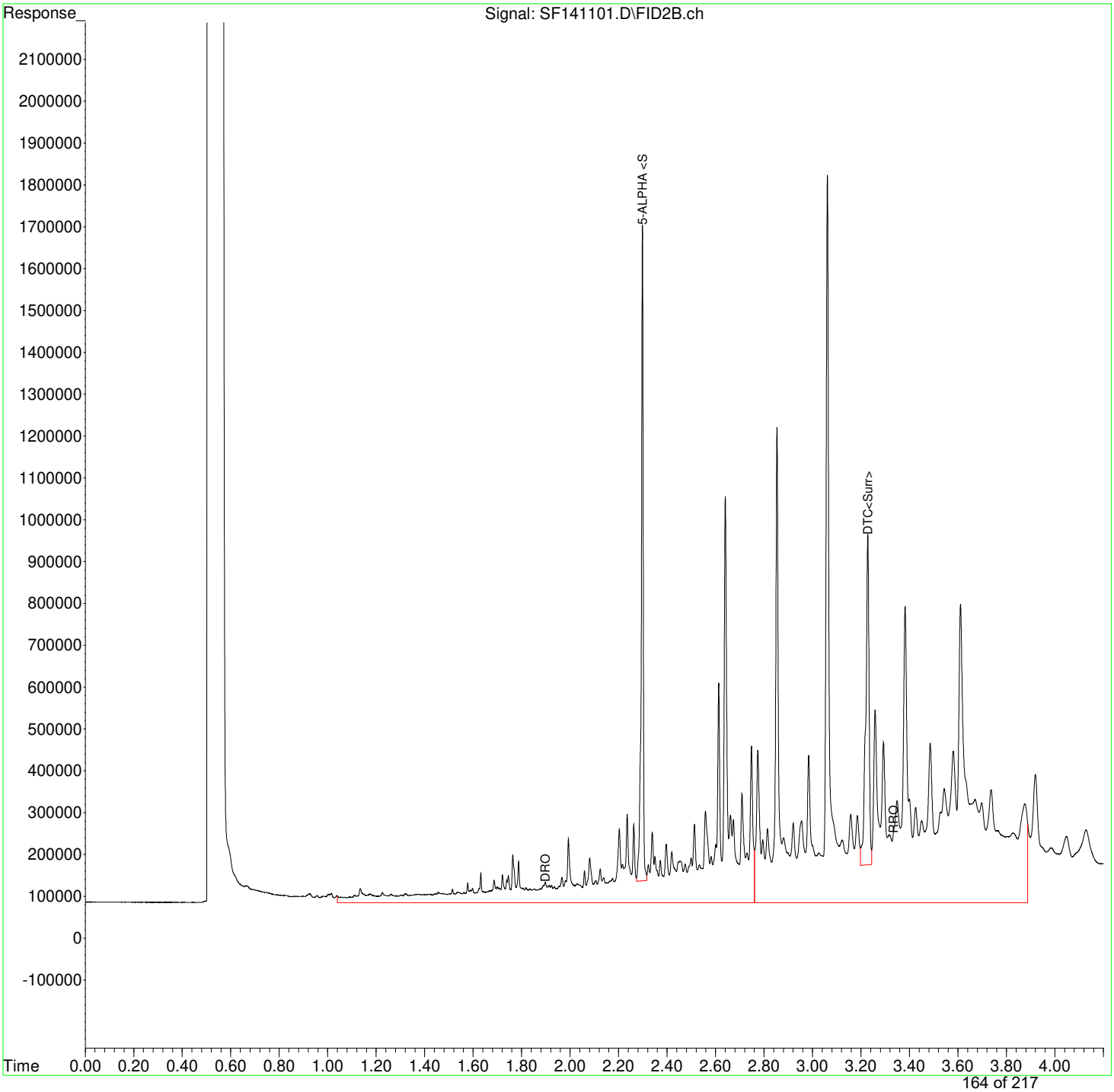
Integration File: autoint1.e
Quant Time: Apr 26 17:57:15 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



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Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141123.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 7:40 pm
Operator : T.L
Sample : 1241713023
Misc :
ALS Vial : 99 Sample Multiplier: 1

Revised Report - Revision 2

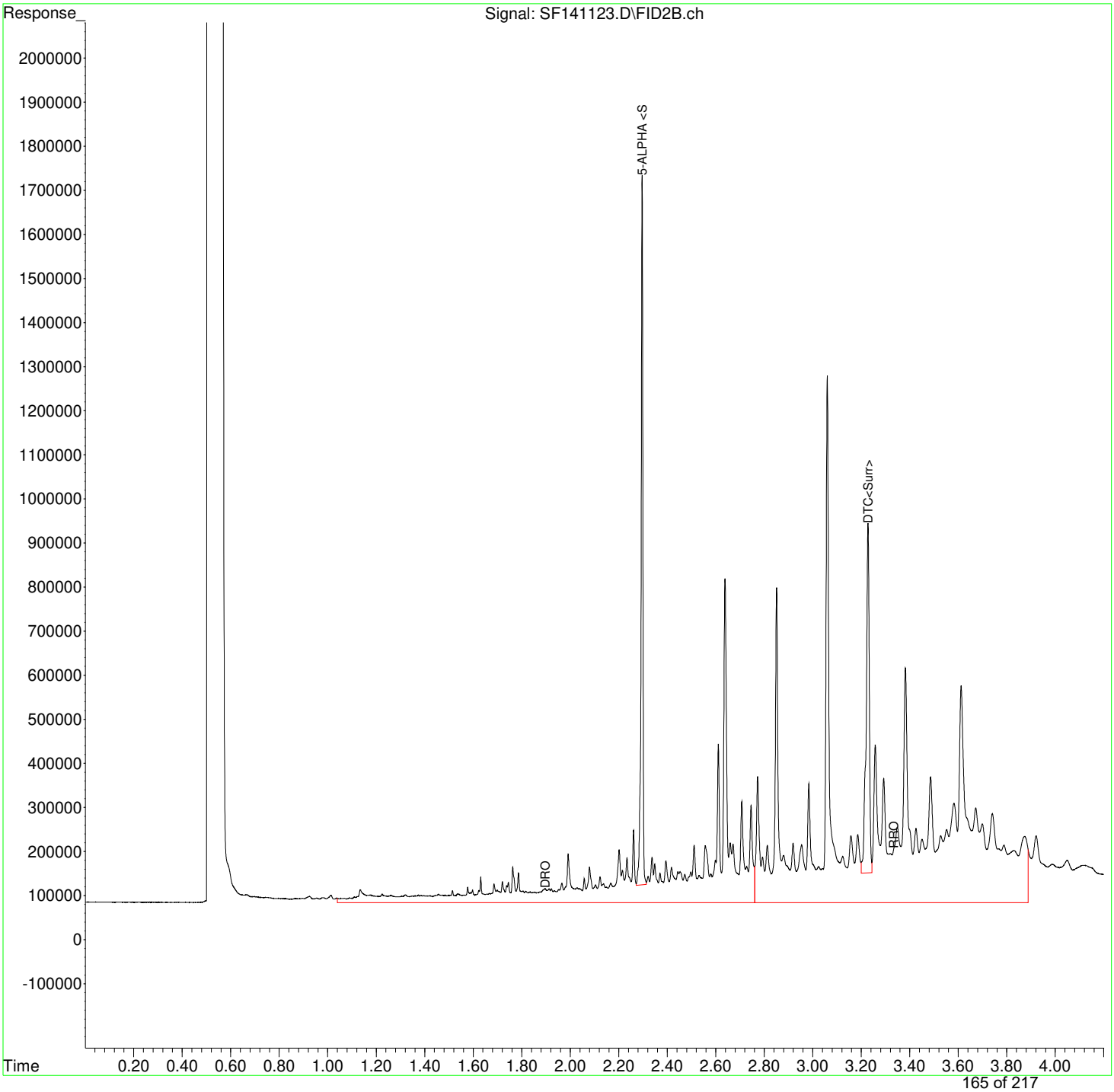
Integration File: autoint1.e
Quant Time: Apr 26 20:36:43 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141125.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 7:50 pm
Operator : T.L
Sample : 1241713024
Misc :
ALS Vial : 100 Sample Multiplier: 1

Revised Report - Revision 2

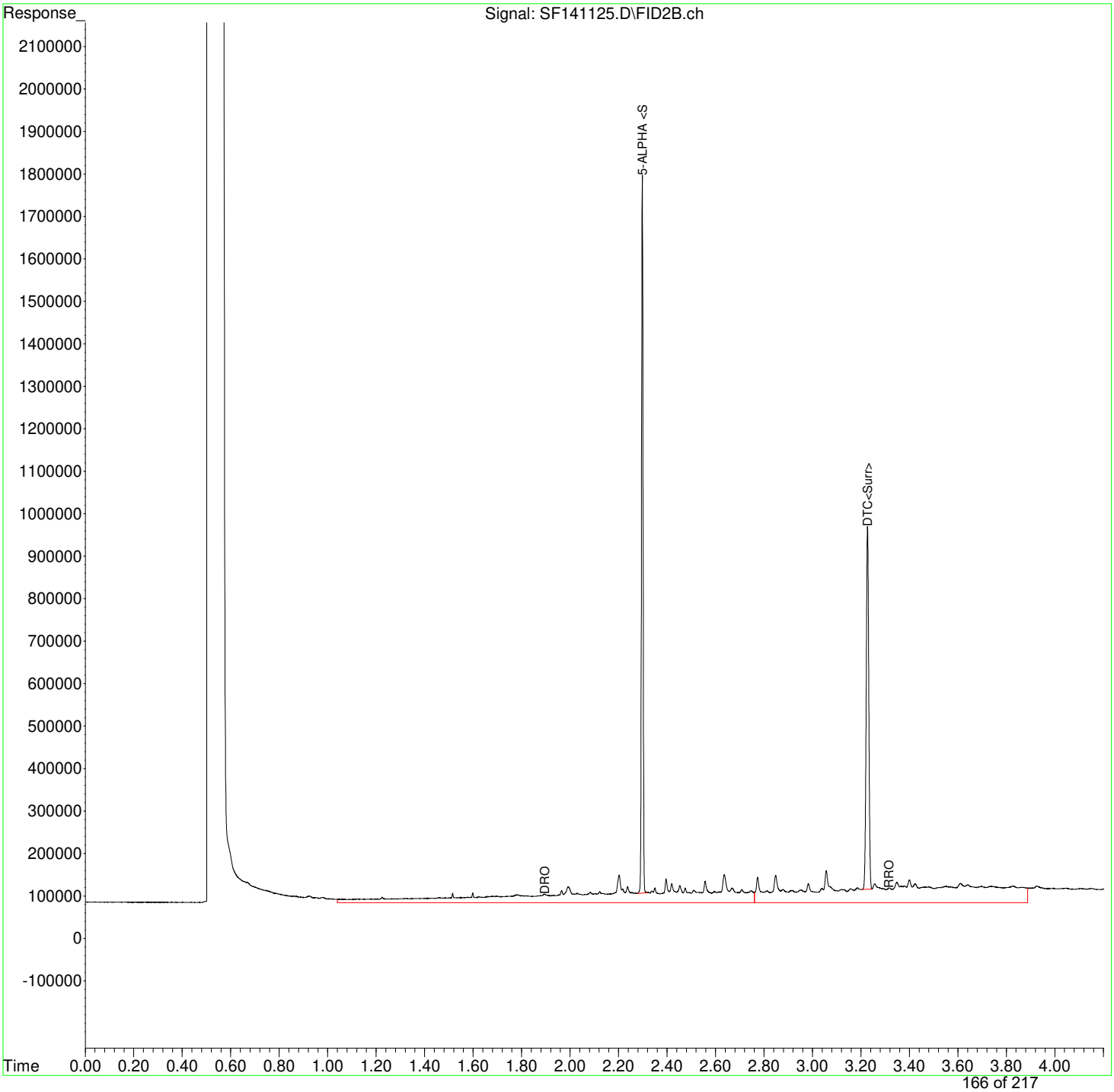
Integration File: autoint1.e
Quant Time: Apr 26 20:36:50 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern is unknown

May 01, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141127.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:00 pm
Operator : T.L
Sample : 1241713025
Misc :
ALS Vial : 101 Sample Multiplier: 1

Revised Report - Revision 2

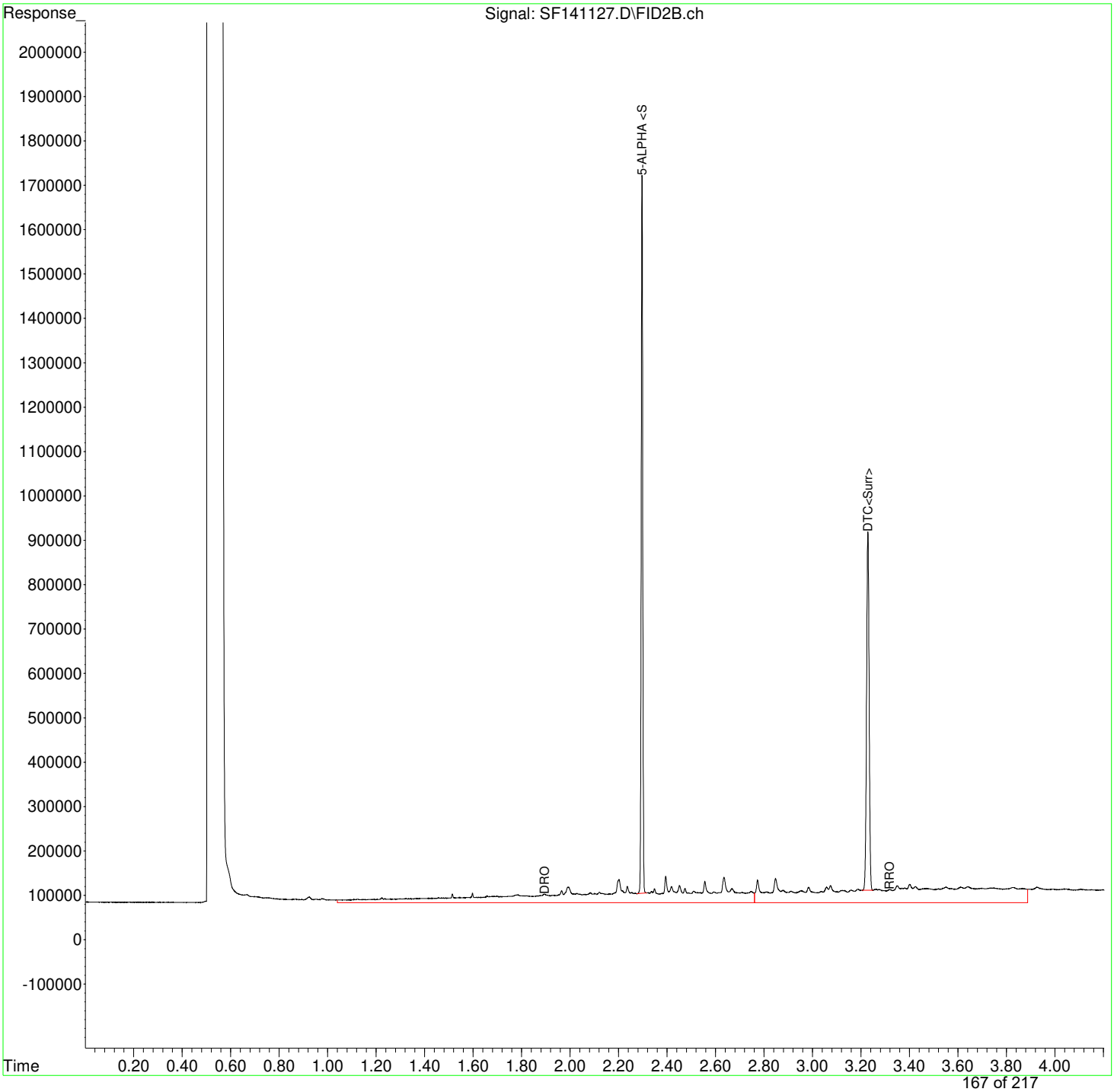
Integration File: autoint1.e
Quant Time: Apr 26 20:36:55 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern is unknown.

May 01, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141129.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:10 pm
Operator : T.L
Sample : 1241713026
Misc :
ALS Vial : 102 Sample Multiplier: 1

Revised Report - Revision 2

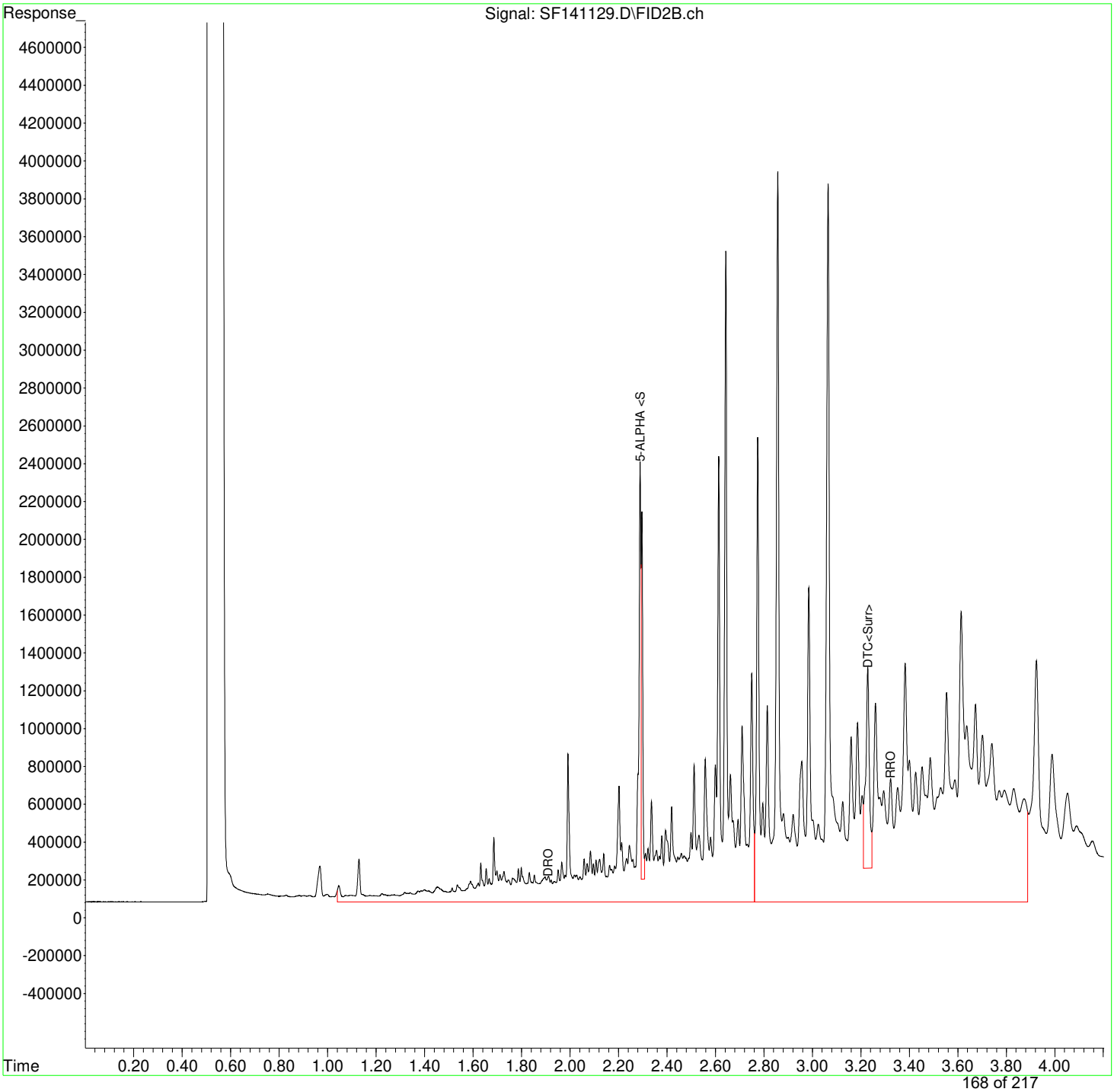
Integration File: autoint1.e
Quant Time: Apr 26 20:37:01 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141131.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:20 pm
Operator : T.L
Sample : 1241713027
Misc :
ALS Vial : 103 Sample Multiplier: 1

Revised Report - Revision 2

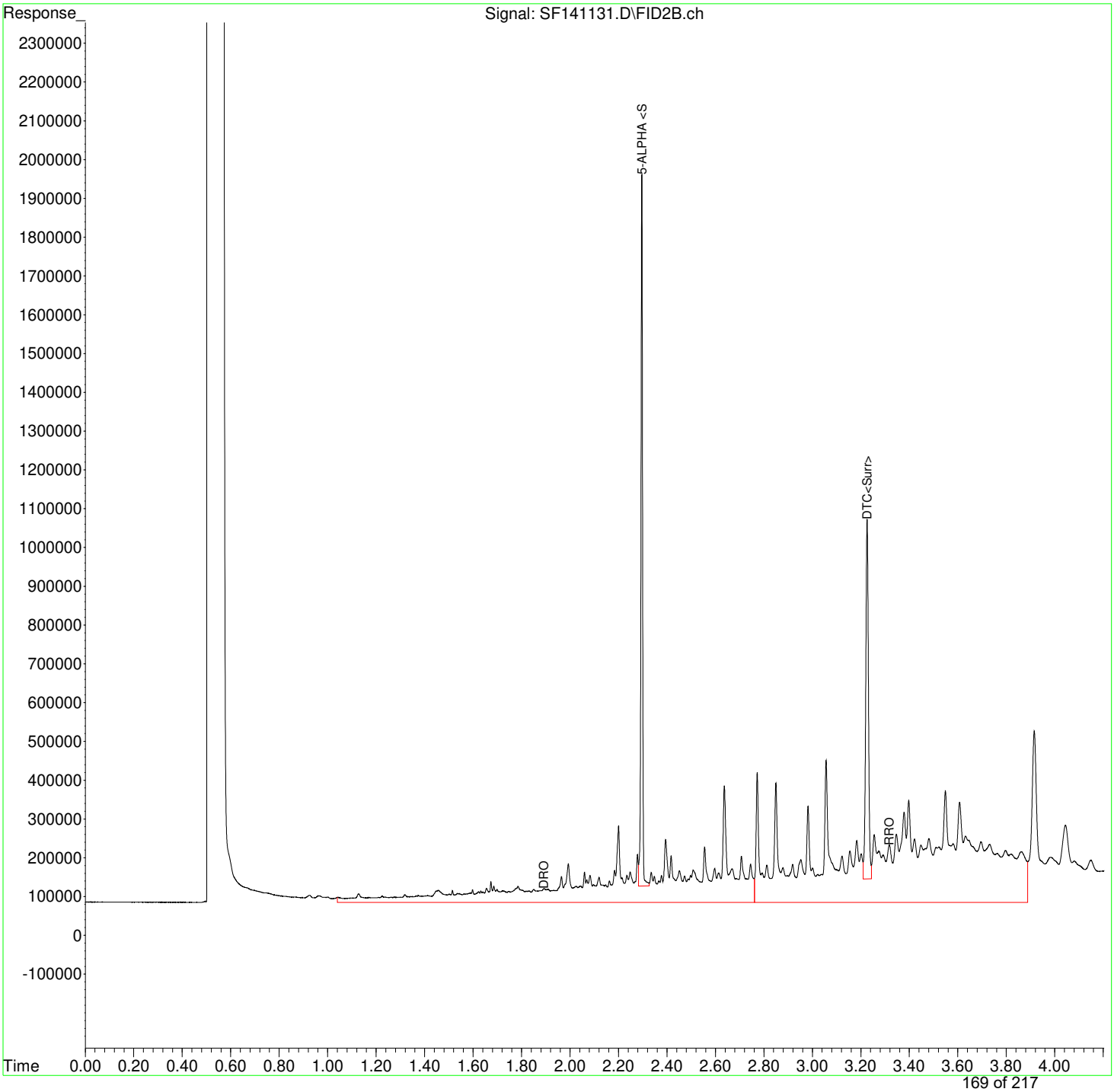
Integration File: autoint1.e
Quant Time: Apr 26 20:37:06 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141133.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:29 pm
Operator : T.L
Sample : 1241713028
Misc :
ALS Vial : 104 Sample Multiplier: 1

Revised Report - Revision 2

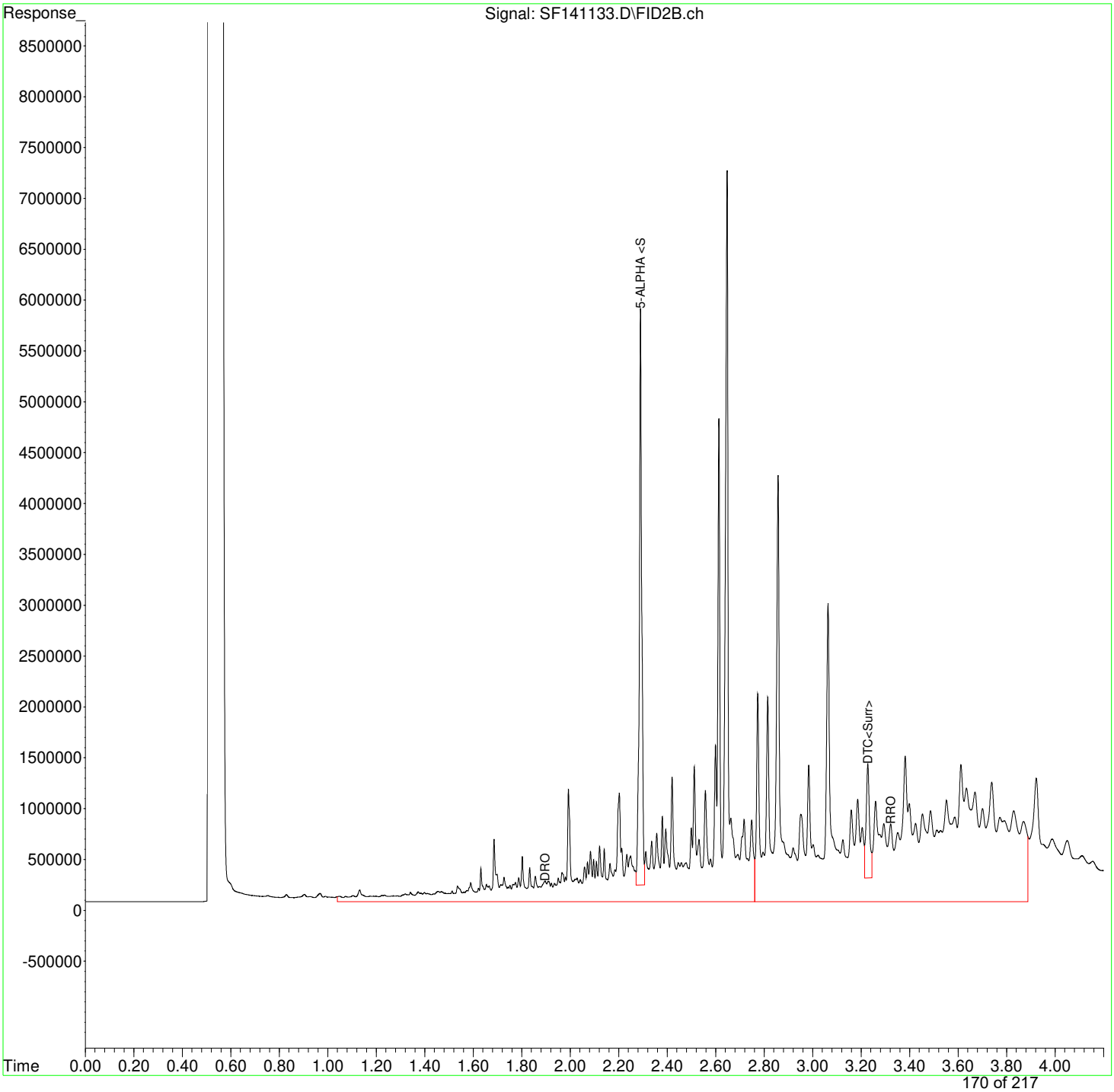
Integration File: autoint1.e
Quant Time: Apr 26 20:37:12 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141135.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:39 pm
Operator : T.L
Sample : 1241713029
Misc :
ALS Vial : 105 Sample Multiplier: 1

Revised Report - Revision 2

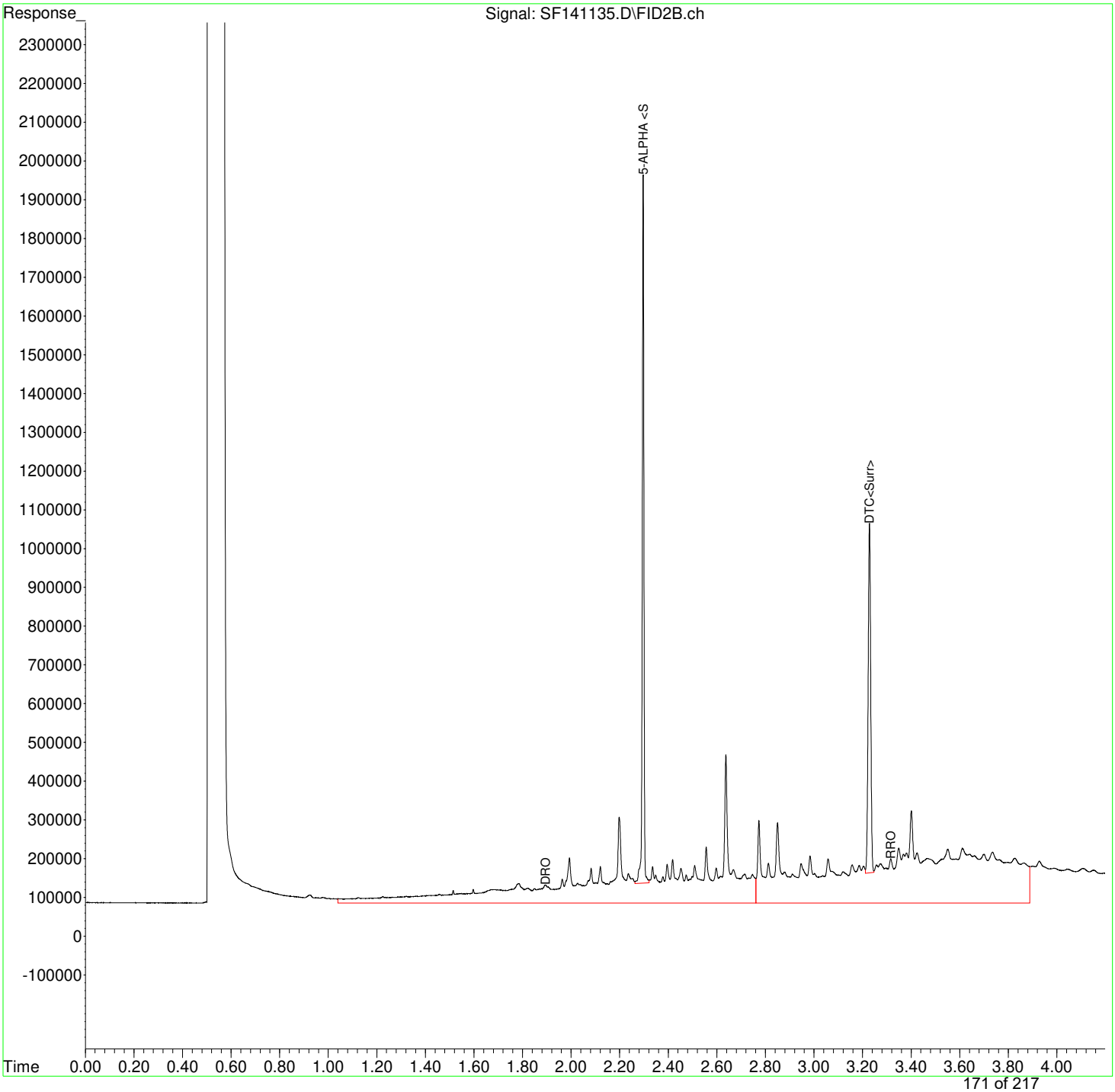
Integration File: autoint1.e
Quant Time: Apr 26 21:04:12 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141137.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:49 pm
Operator : T.L
Sample : 1241713030
Misc :
ALS Vial : 106 Sample Multiplier: 1

Revised Report - Revision 2

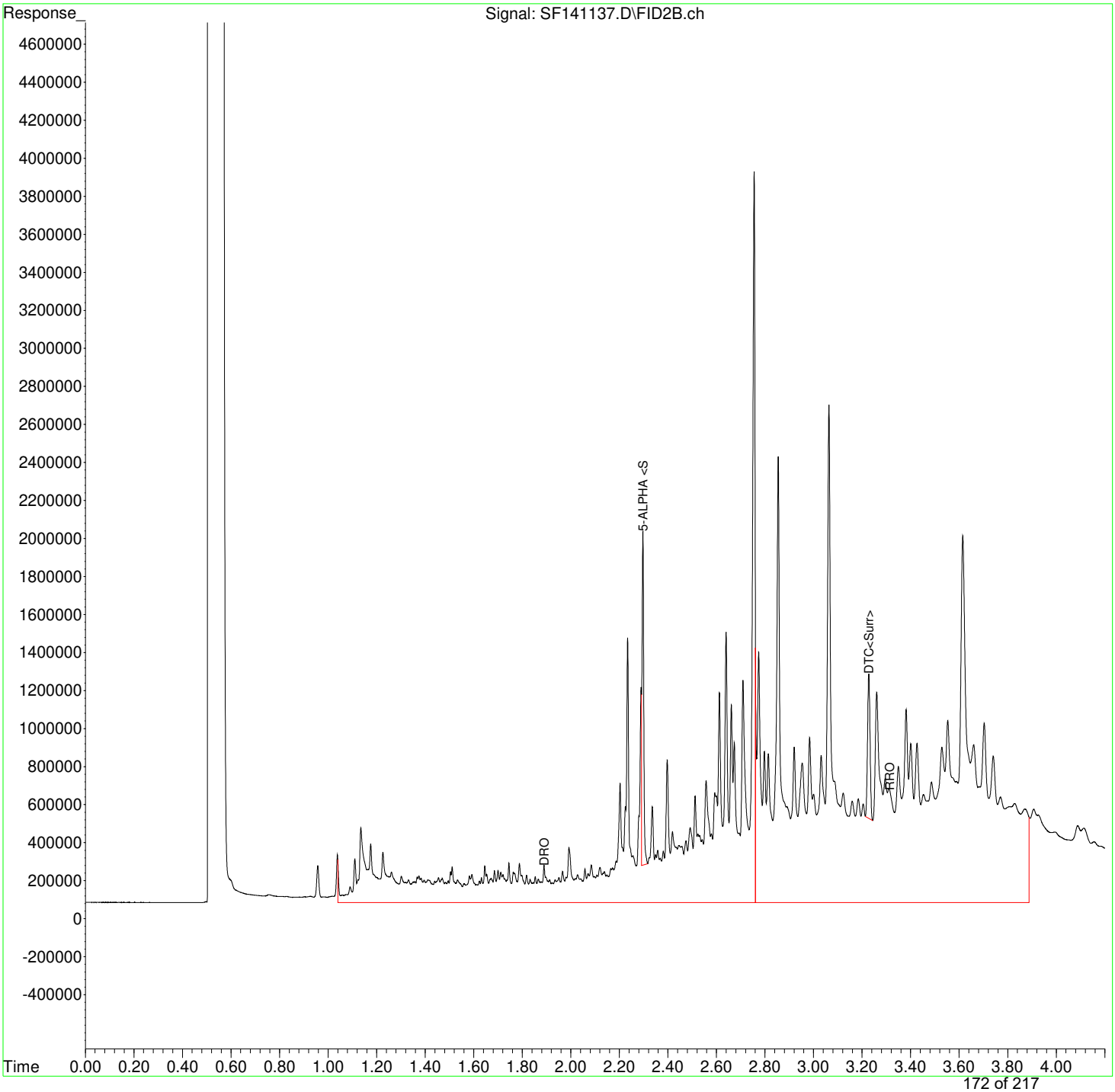
Integration File: autoint1.e
Quant Time: Apr 26 21:05:22 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



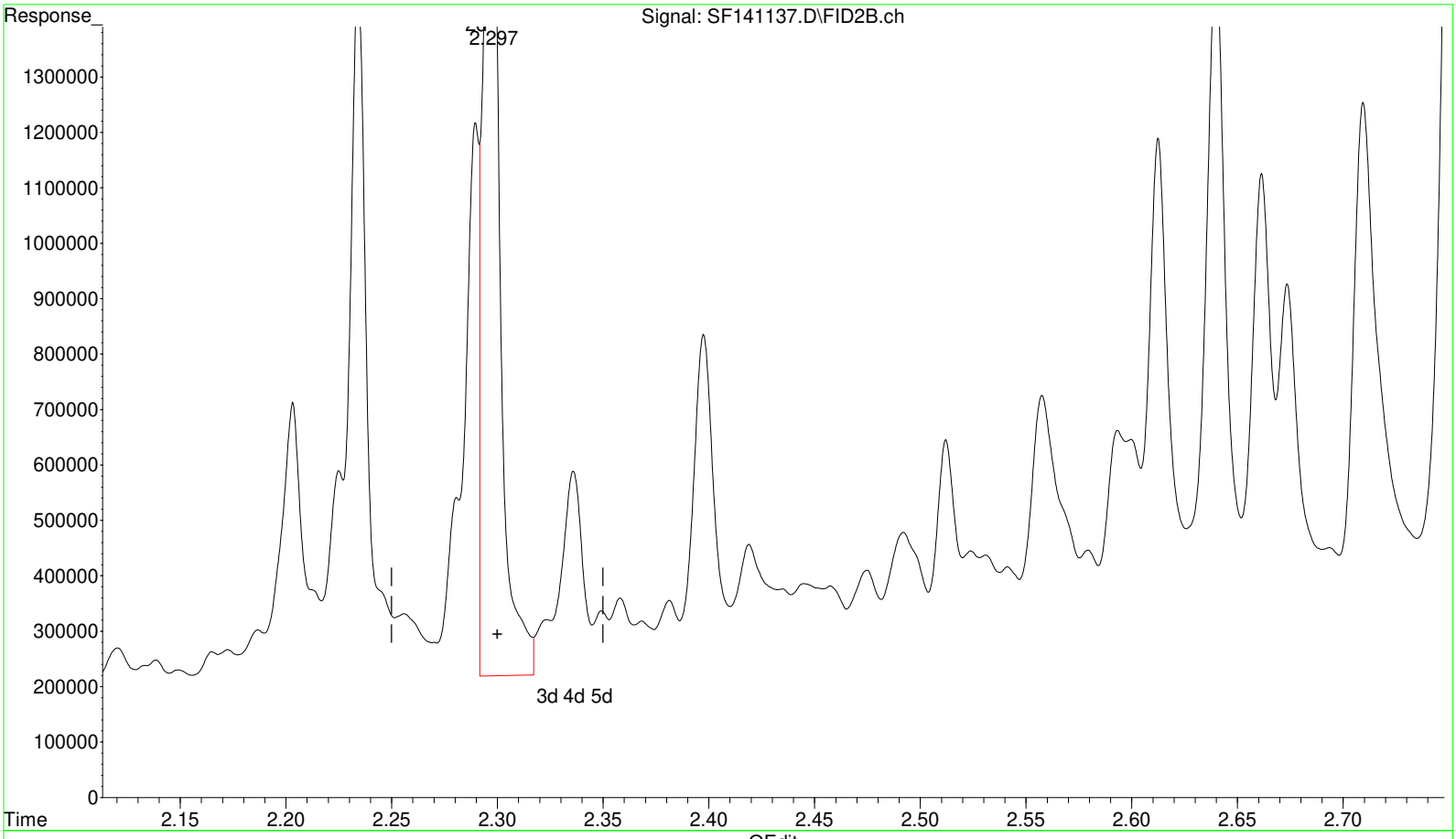
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141137.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:49 pm
Operator : T.L
Sample : 1241713030
Misc :
ALS Vial : 106 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 21:05:22 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.297min 145.186 µg/mL

response 9834165

O-BLC

Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

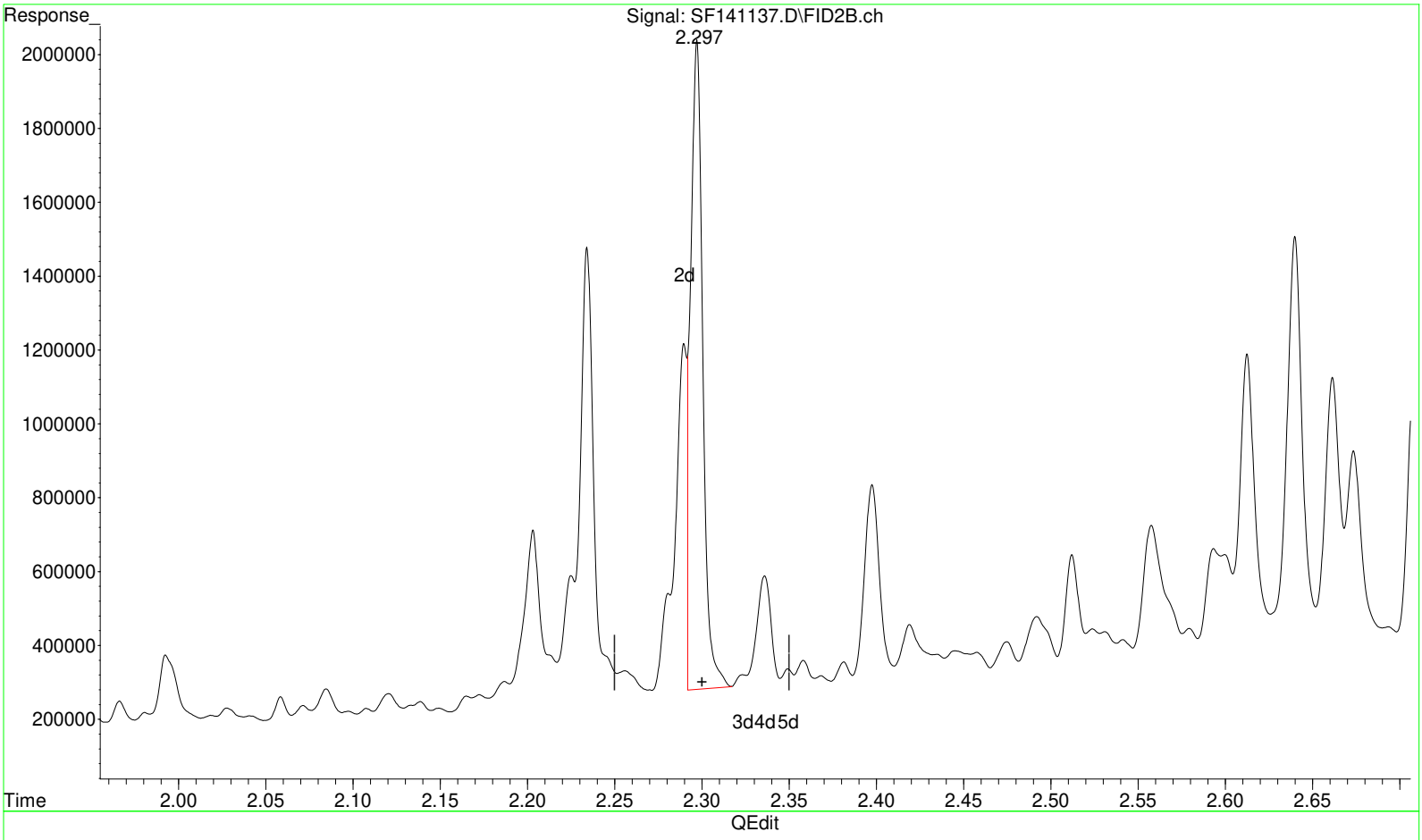
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141137.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:49 pm
Operator : T.L
Sample : 1241713030
Misc :
ALS Vial : 106 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 21:05:22 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.297min 126.438 µg/mL m

response 8564274

M-BLC
Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

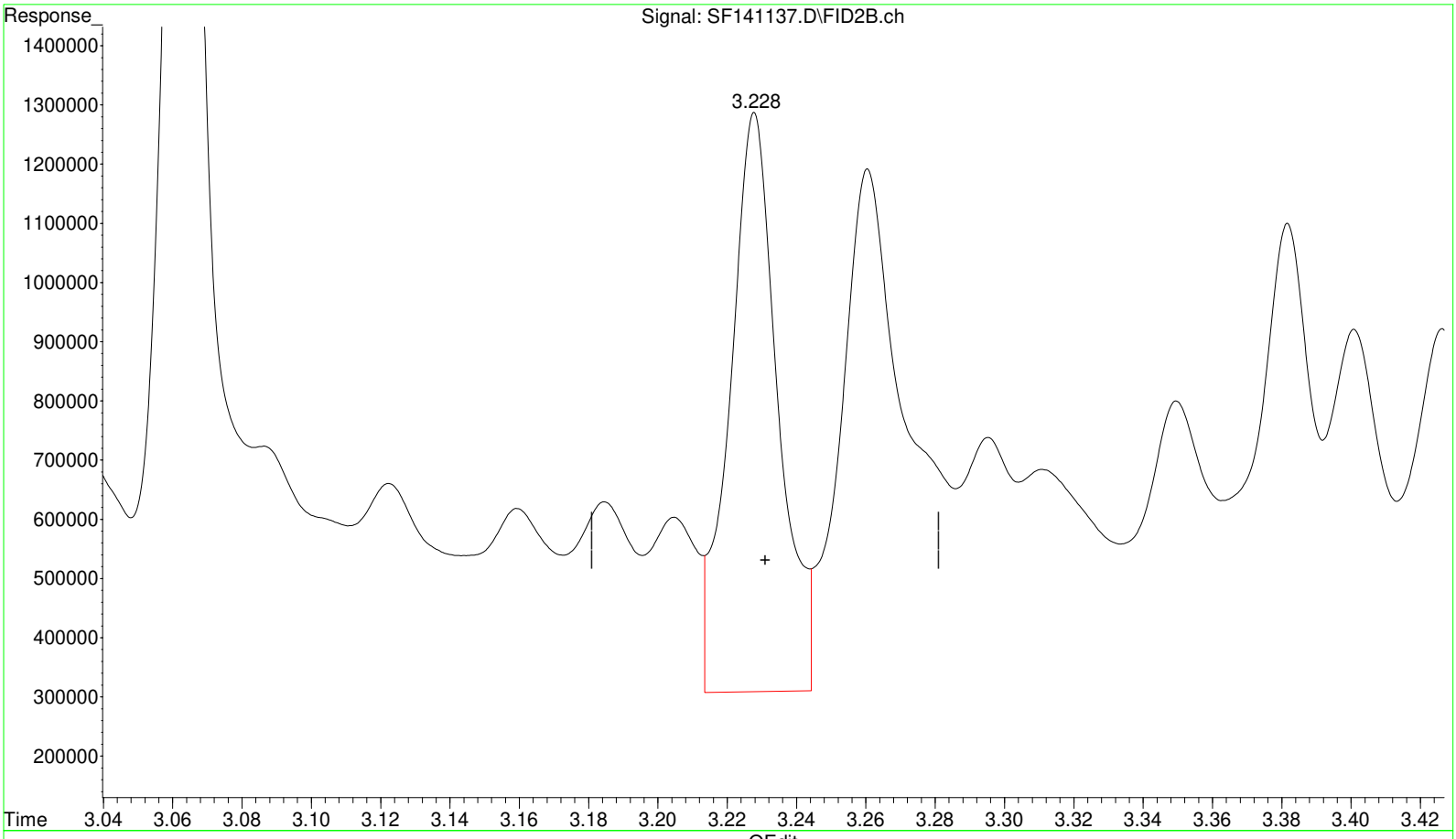
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141137.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:49 pm
Operator : T.L
Sample : 1241713030
Misc :
ALS Vial : 106 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 21:05:22 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 157.279 µg/mL

response 9505247

O-BLC

Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

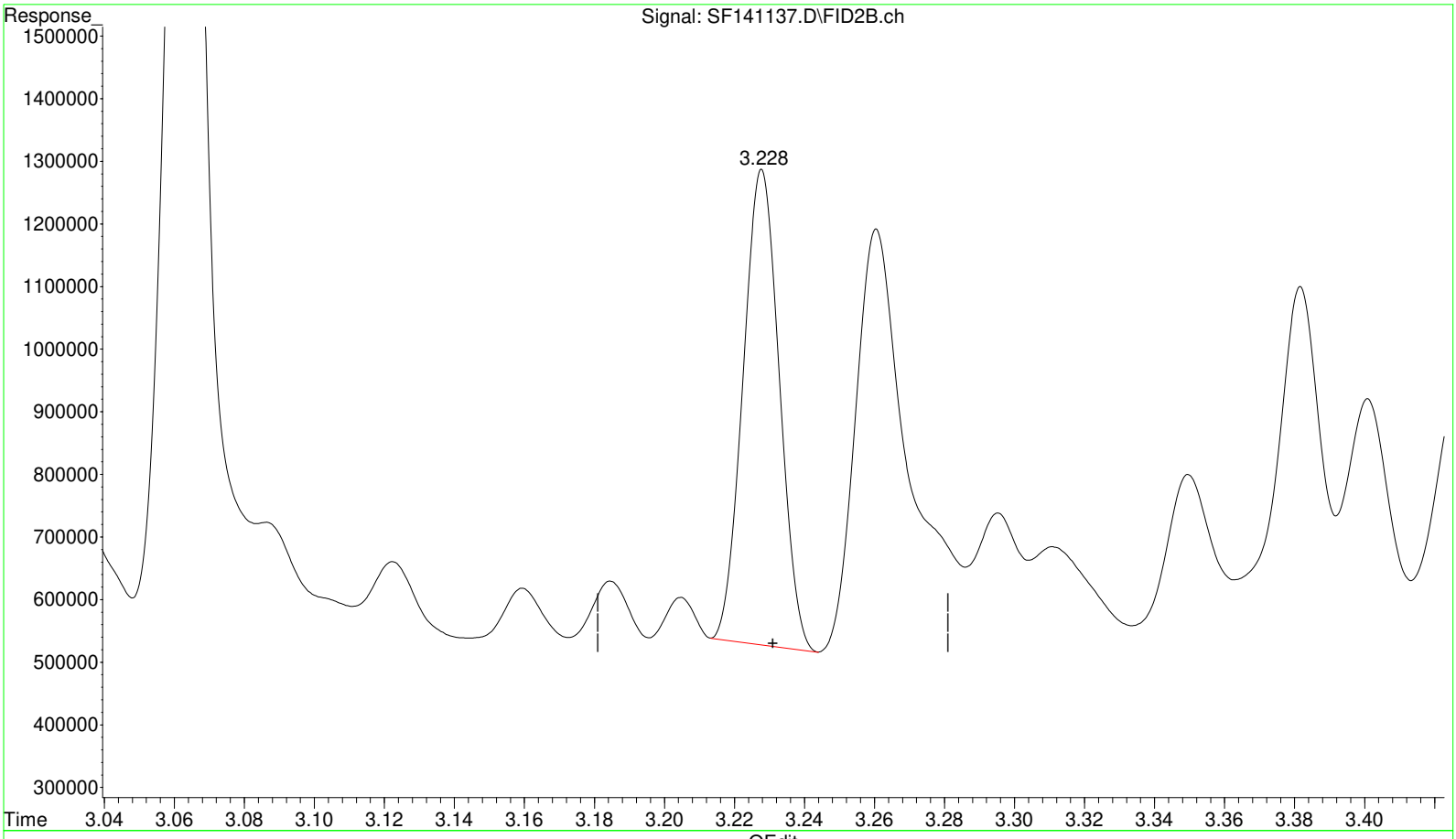
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141137.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:49 pm
Operator : T.L
Sample : 1241713030
Misc :
ALS Vial : 106 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 21:05:22 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 90.664 µg/mL m

response 5479341

M-BLC
Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141139.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:59 pm
Operator : T.L
Sample : 1241713031
Misc :
ALS Vial : 107 Sample Multiplier: 1

Revised Report - Revision 2

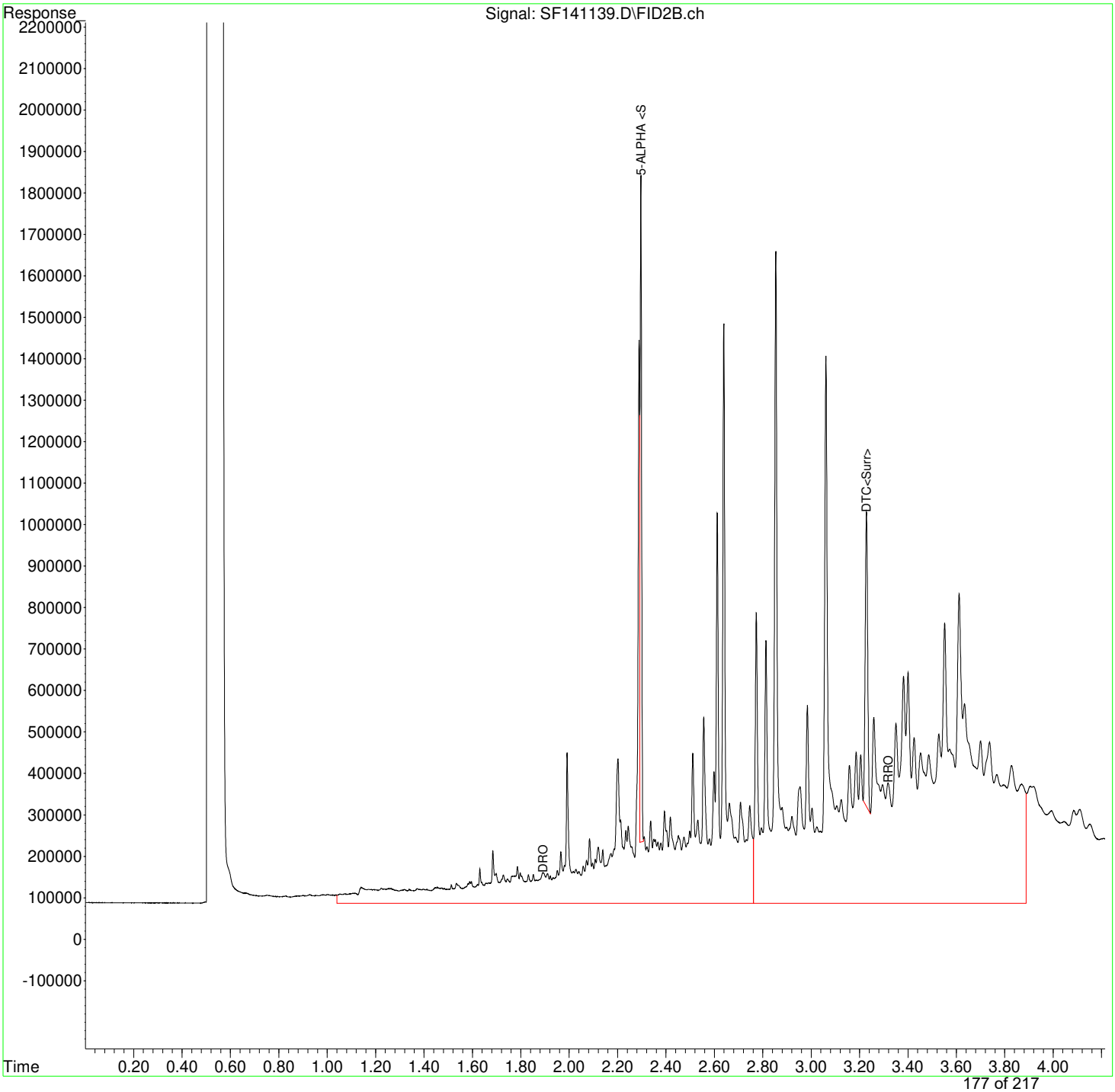
Integration File: autoint1.e
Quant Time: Apr 27 11:23:01 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



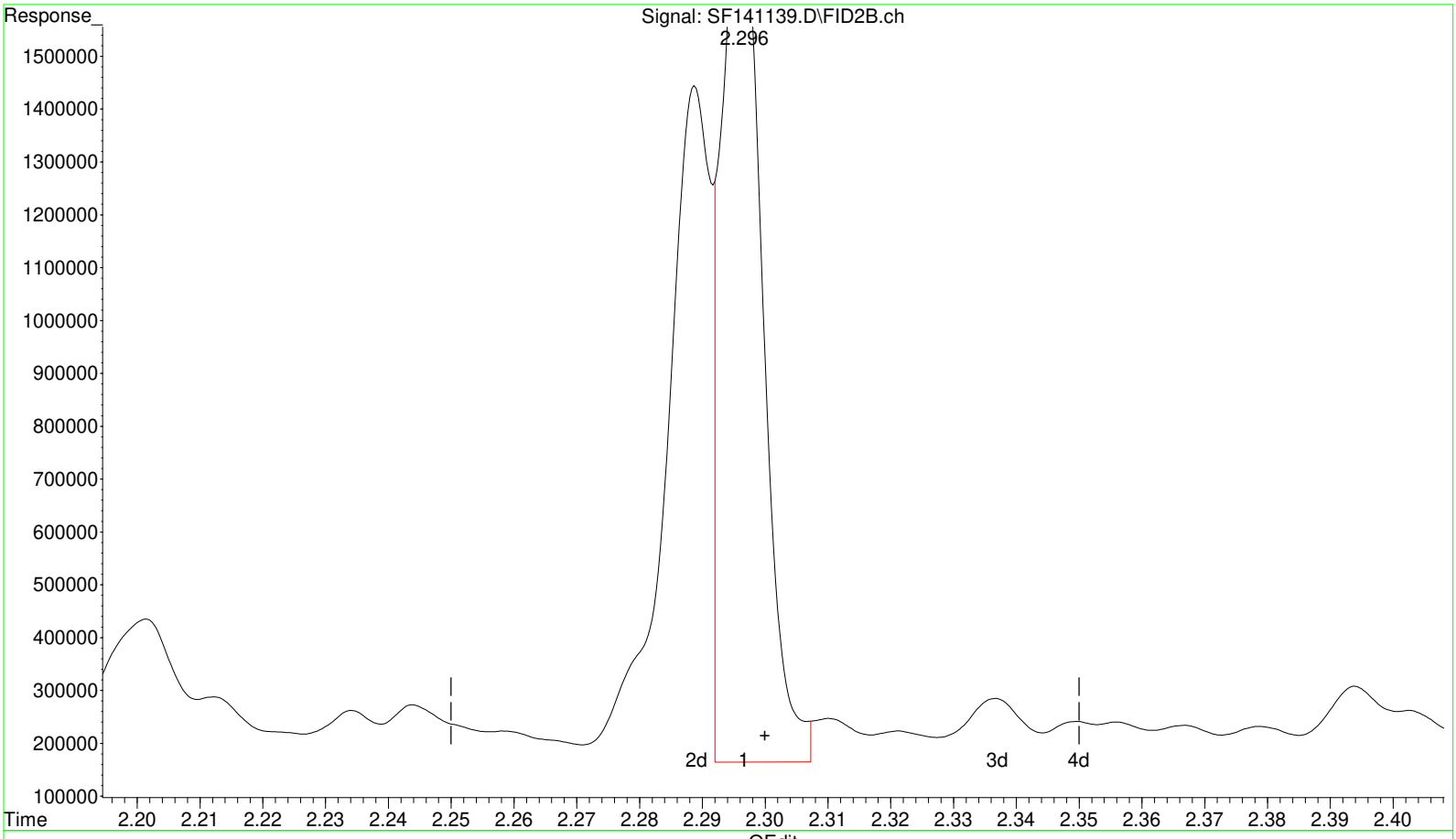
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141139.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:59 pm
Operator : T.L
Sample : 1241713031
Misc :
ALS Vial : 107 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 27 11:23:01 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.297min 114.876 µg/mL

response 7781127

O-BLC

Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

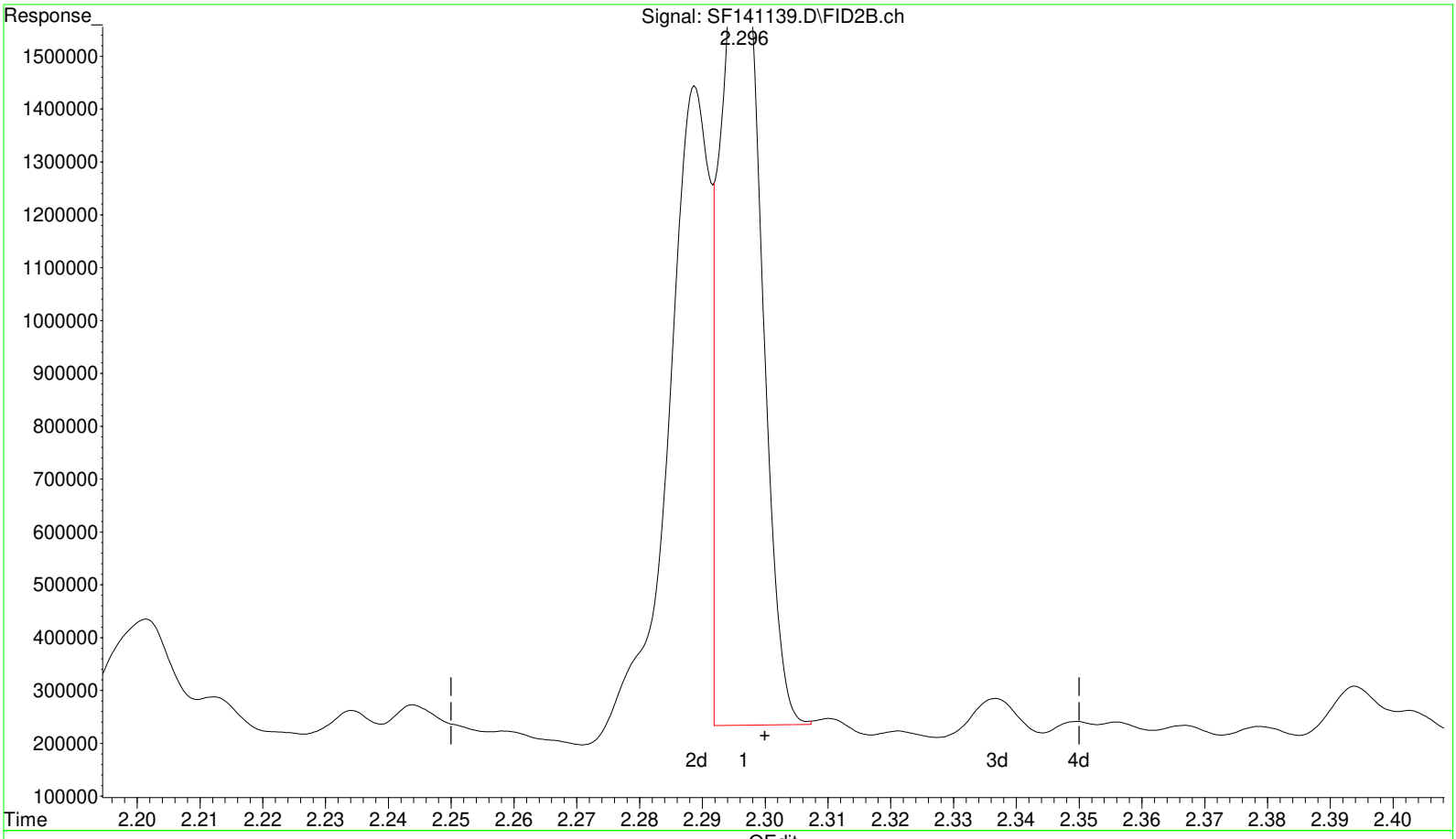
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141139.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:59 pm
Operator : T.L
Sample : 1241713031
Misc :
ALS Vial : 107 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 27 11:23:01 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.296min 102.987 µg/mL m

response 6975834

M-BLC
Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

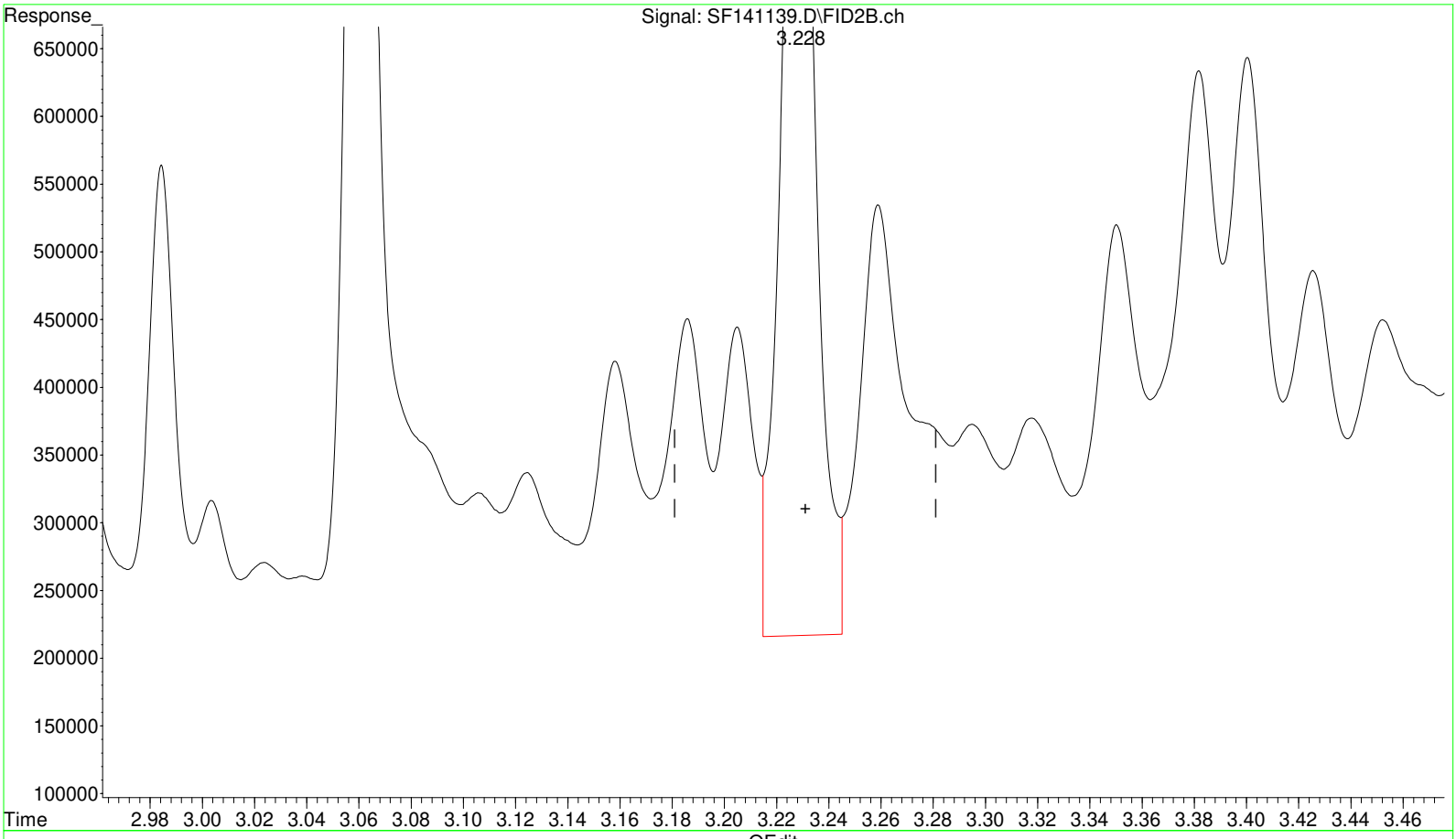
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141139.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:59 pm
Operator : T.L
Sample : 1241713031
Misc :
ALS Vial : 107 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 27 11:23:01 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.229min 114.269 µg/mL

response 6905880

O-BLC

Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

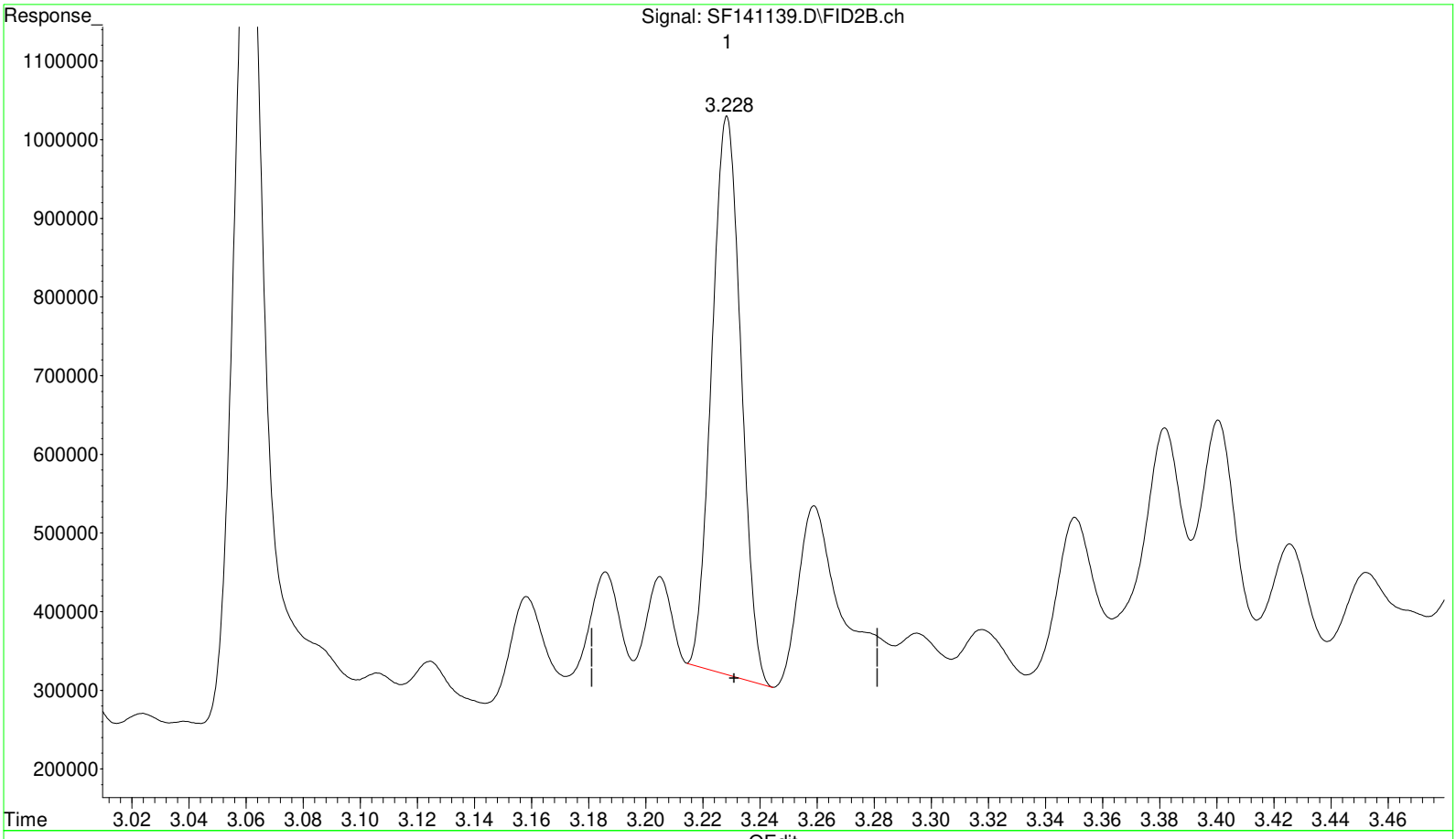
Quantitation Report (Qedit)

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141139.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 8:59 pm
Operator : T.L
Sample : 1241713031
Misc :
ALS Vial : 107 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 27 11:23:01 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.228min 83.575 µg/mL m

response 5050880

M-BLC
Apr 30, 2024

Nicholas Bryant

Apr 30, 2024

(+) = Expected Retention Time

Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141141.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 9:09 pm
Operator : T.L
Sample : 1241713032
Misc :
ALS Vial : 108 Sample Multiplier: 1

Revised Report - Revision 2

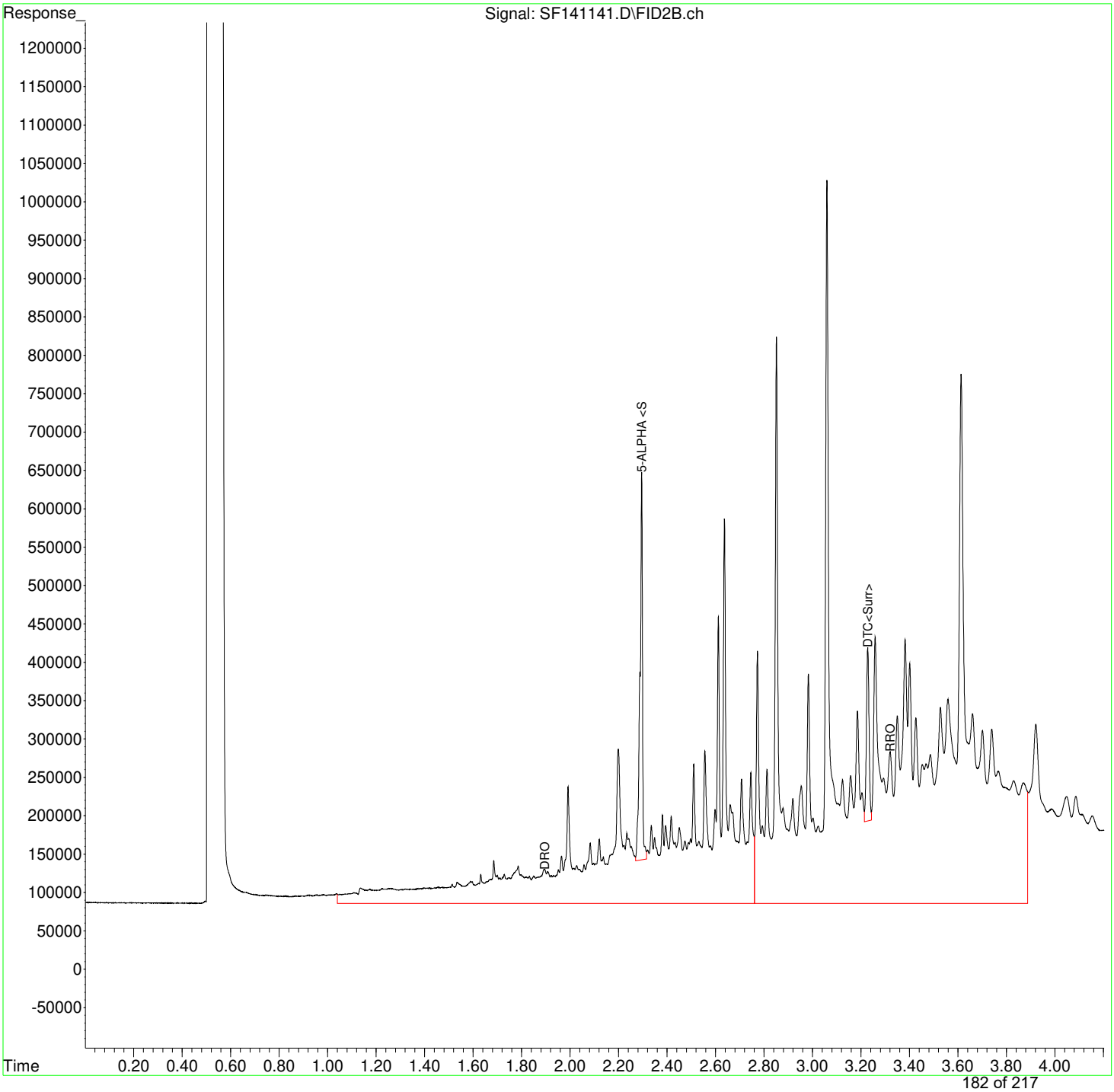
Integration File: autoint1.e
Quant Time: Apr 27 11:30:14 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\GCDATA\DATA\SF\Data\SF04262024.SEC\
Data File : SF141143.D
Signal(s) : FID2B.ch
Acq On : 26 Apr 2024 9:19 pm
Operator : T.L
Sample : 1241713033
Misc :
ALS Vial : 109 Sample Multiplier: 1

Revised Report - Revision 2

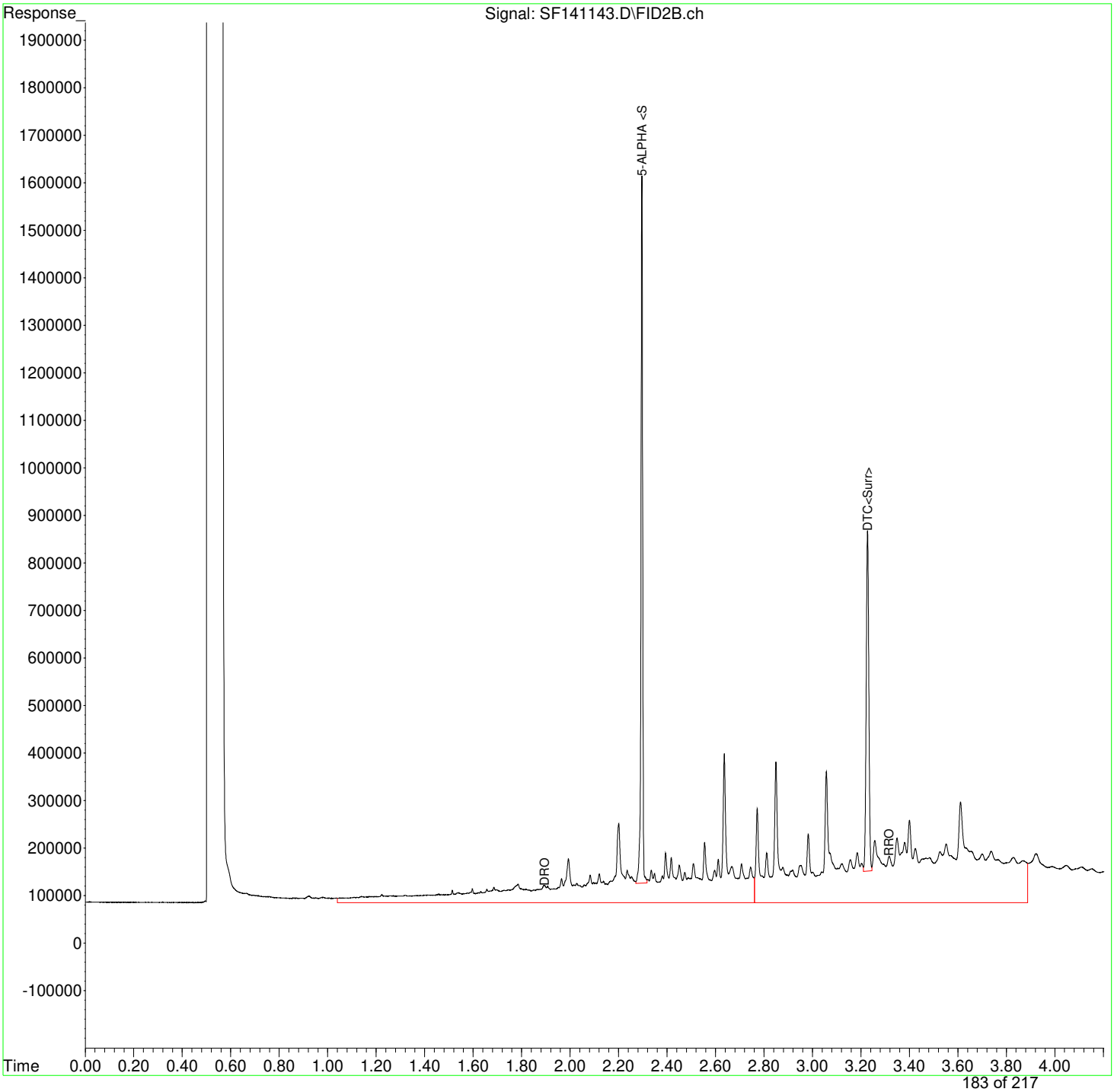
Integration File: autoint1.e
Quant Time: Apr 27 11:30:38 2024
Quant Method : Z:\DATA\GCDATA\DATA\SF\Method\SFR2024-0418A.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141092.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:02
Operator : T.L
Sample : 1241713001 SG
Misc :
ALS Vial : 11 Sample Multiplier: 1

Revised Report - Revision 2

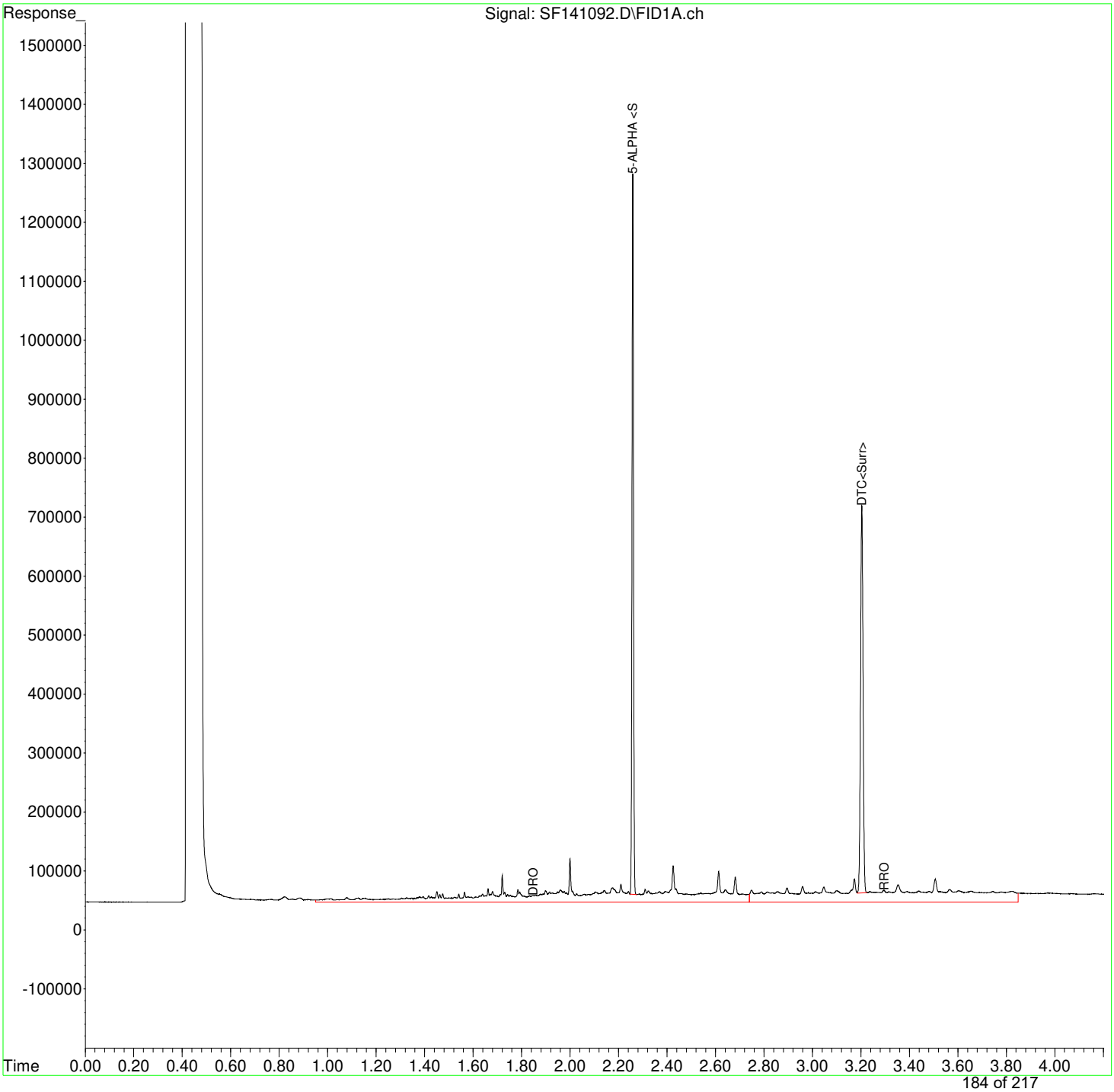
Integration File: autoint1.e
Quant Time: Apr 26 20:41:09 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141094.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:12
Operator : T.L
Sample : 1241713002 SG
Misc :
ALS Vial : 12 Sample Multiplier: 1

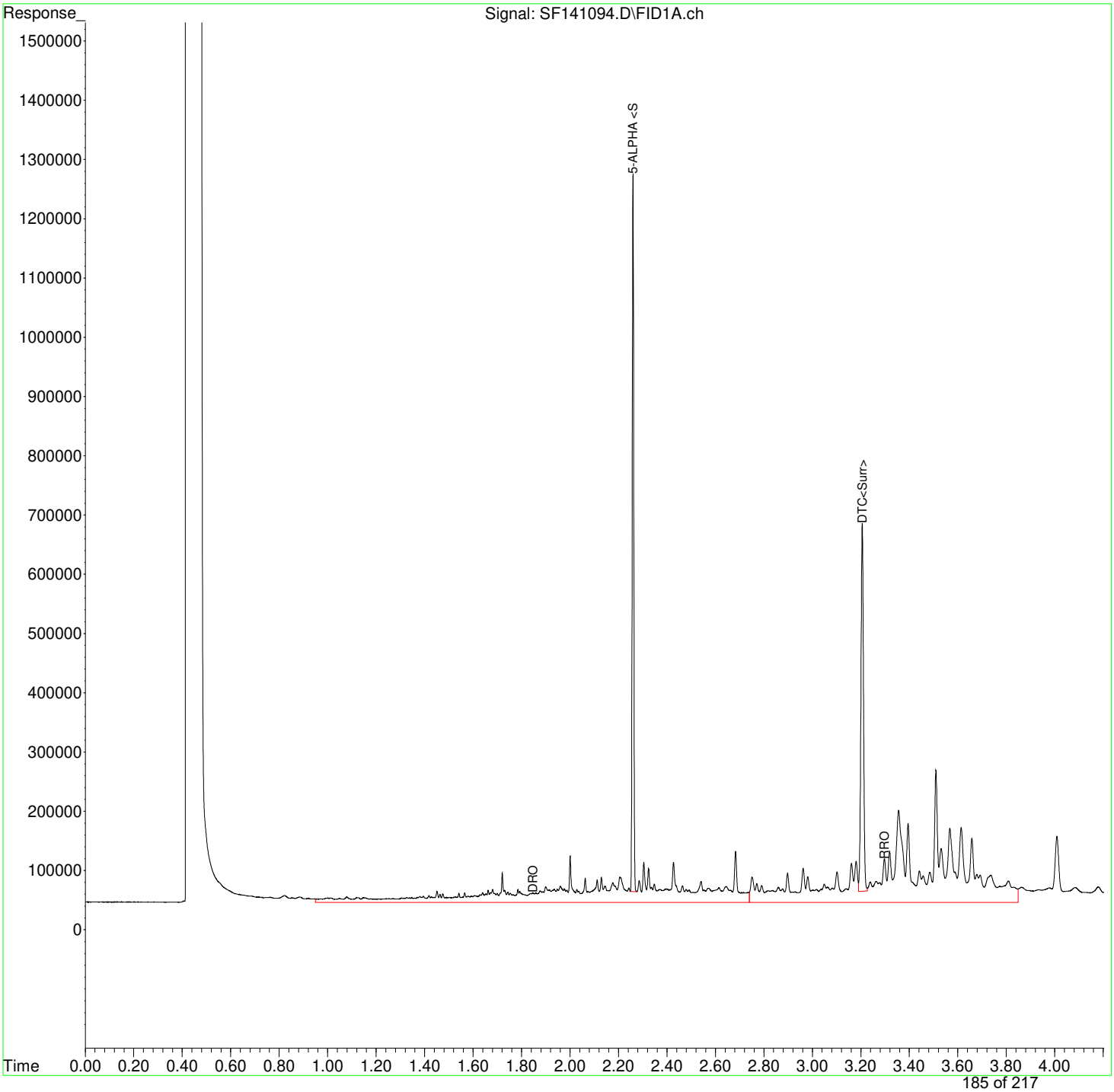
Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 20:41:21 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141096.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:22
Operator : T.L
Sample : 1241713003 SG
Misc :
ALS Vial : 13 Sample Multiplier: 1

Revised Report - Revision 2

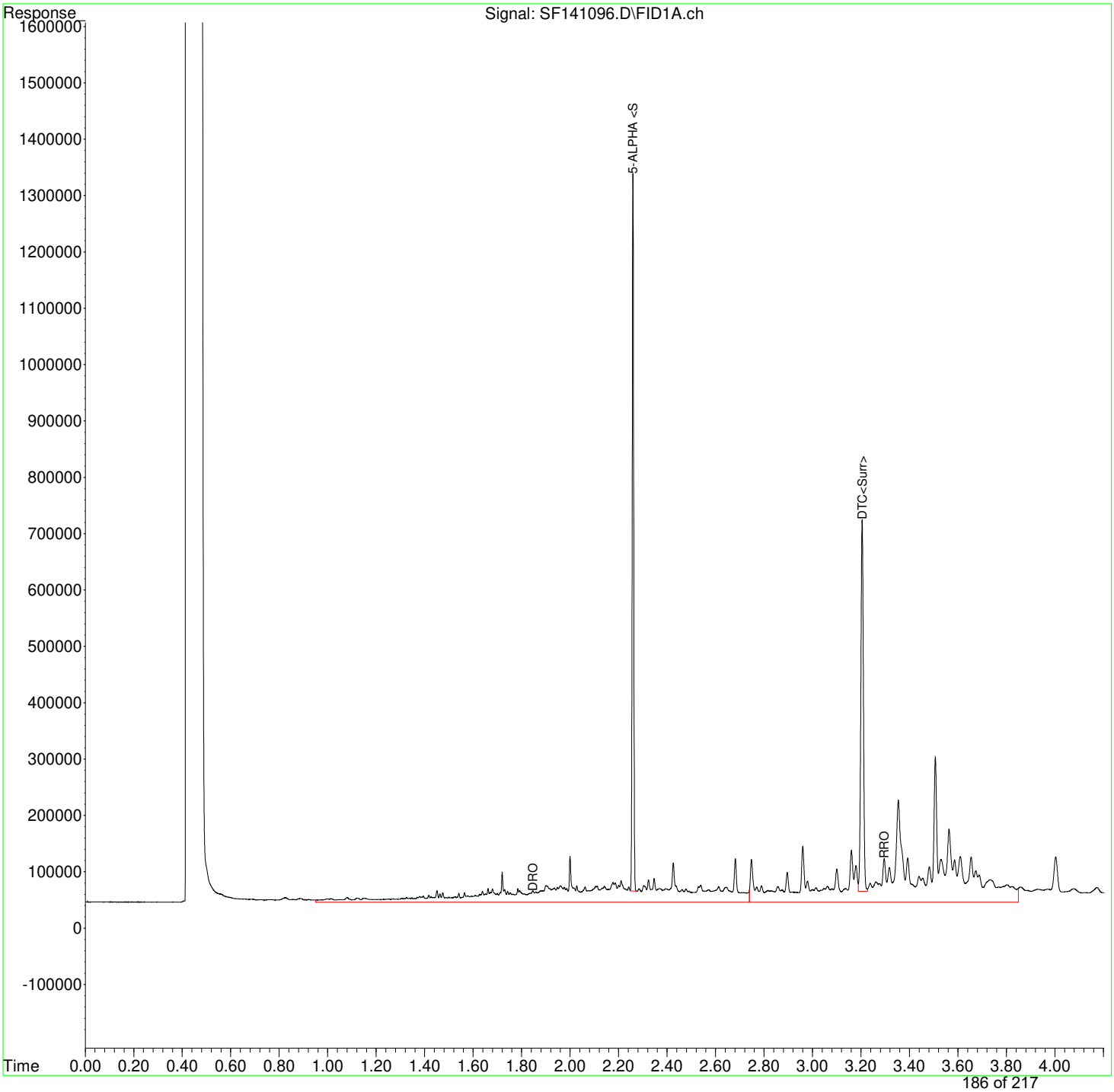
Integration File: autoint1.e
Quant Time: Apr 26 20:41:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141098.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:31
Operator : T.L
Sample : 1241713004 SG
Misc :
ALS Vial : 14 Sample Multiplier: 1

Revised Report - Revision 2

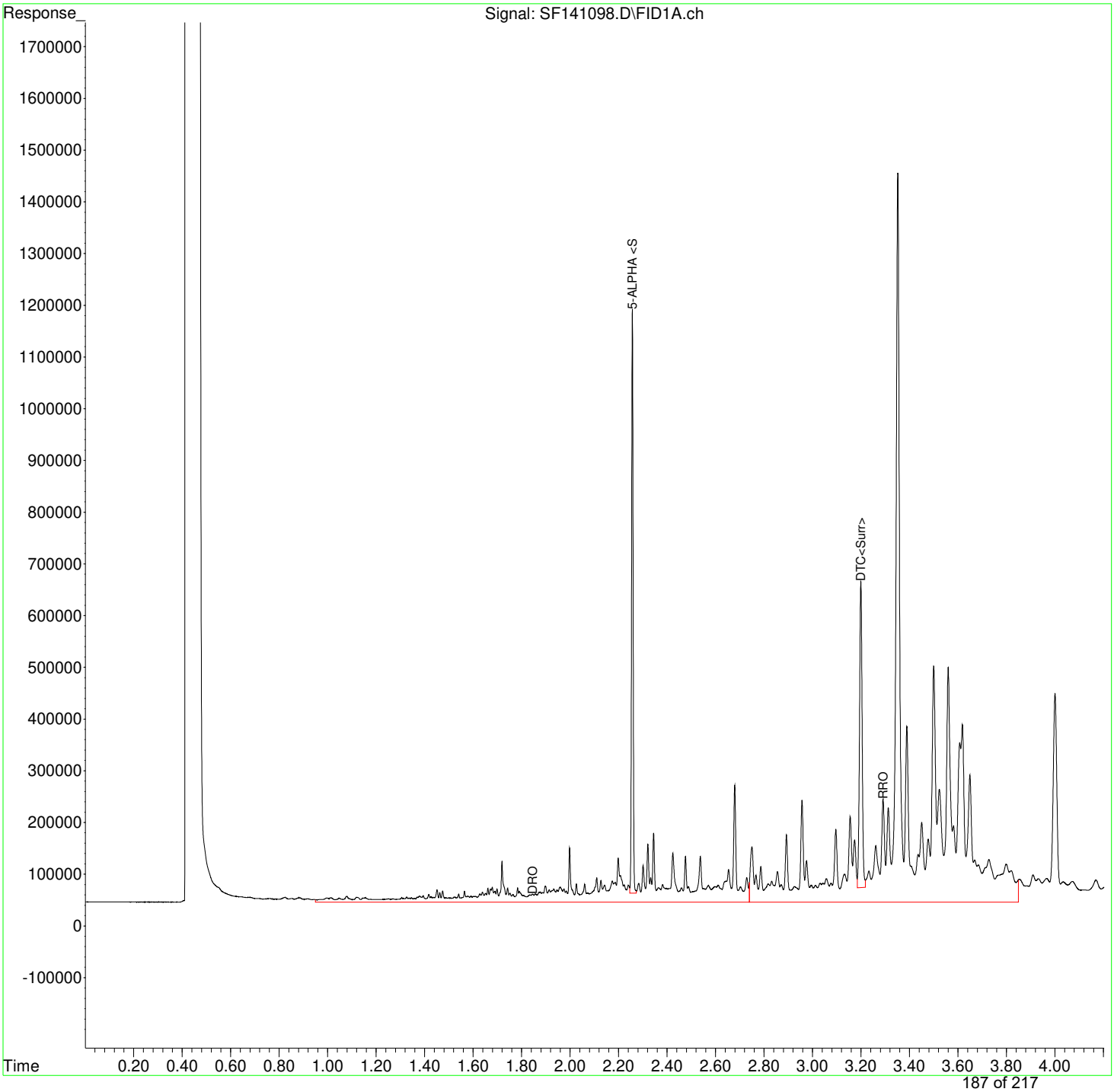
Integration File: autoint1.e
Quant Time: Apr 26 20:41:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141100.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:40
Operator : T.L
Sample : 1241713005 SG
Misc :
ALS Vial : 15 Sample Multiplier: 1

Revised Report - Revision 2

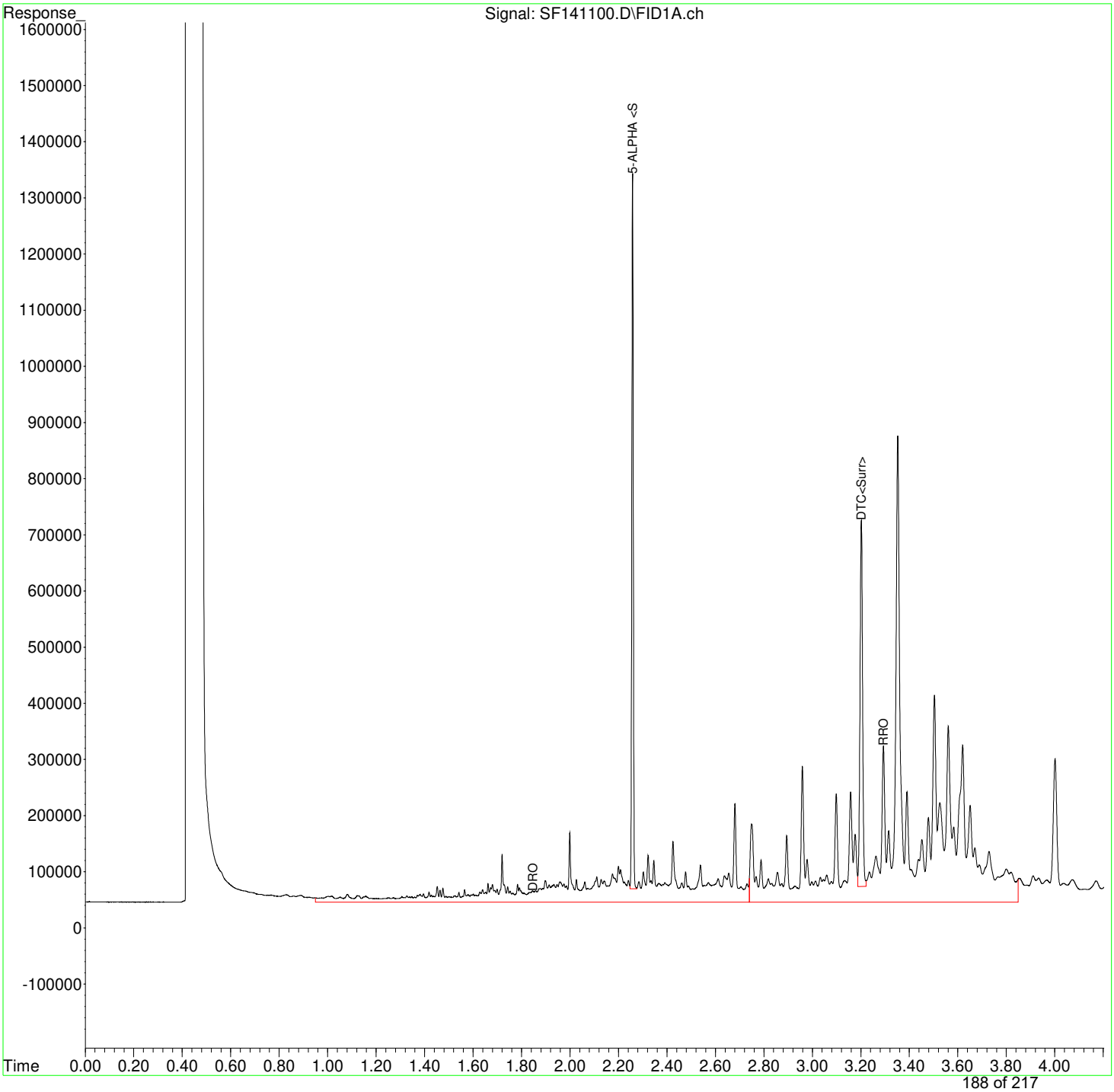
Integration File: autoint1.e
Quant Time: Apr 26 20:41:43 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141102.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 17:50
Operator : T.L
Sample : 1241713006 SG
Misc :
ALS Vial : 16 Sample Multiplier: 1

Revised Report - Revision 2

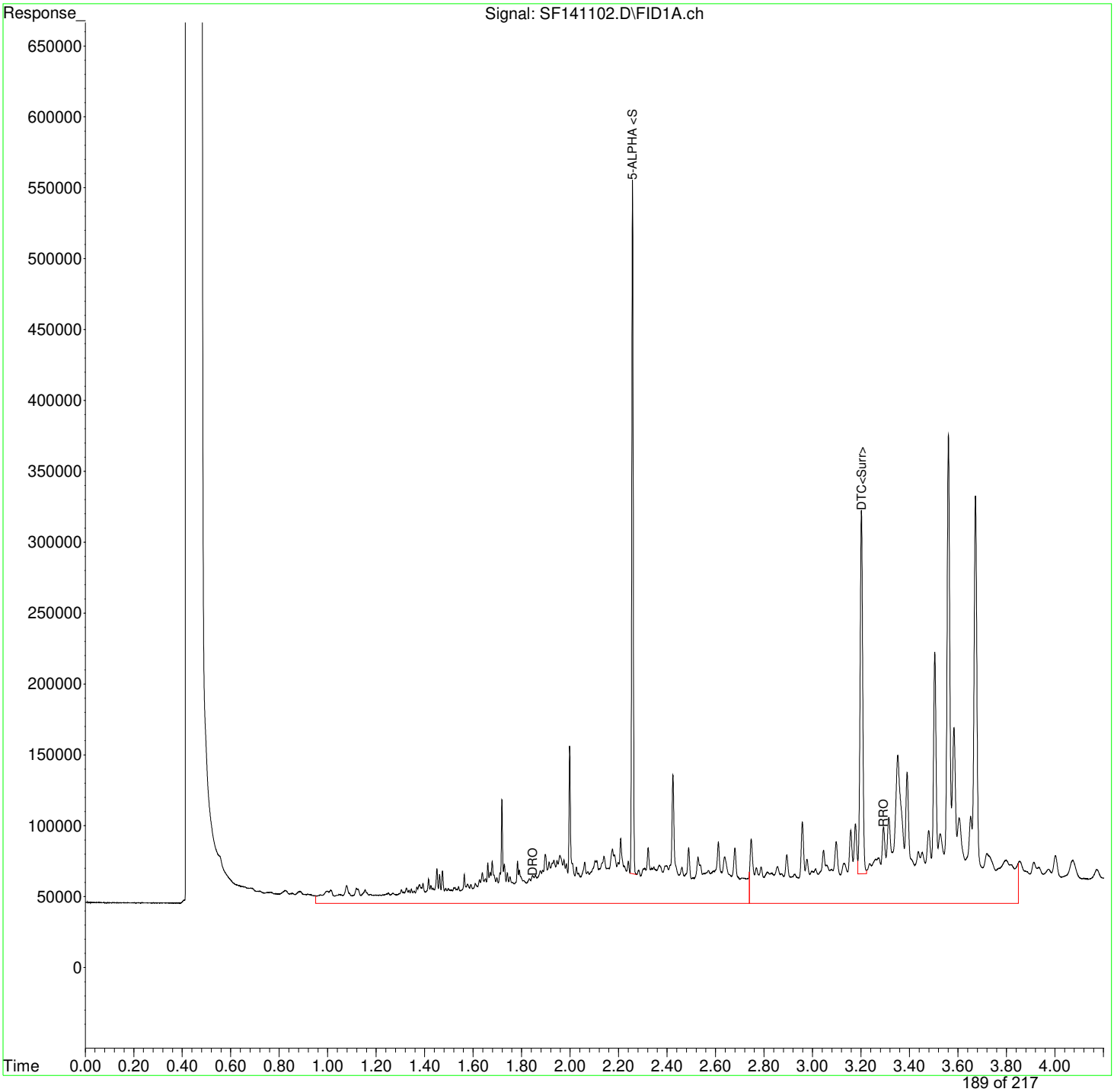
Integration File: autoint1.e
Quant Time: Apr 26 20:41:51 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141104.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:00
Operator : T.L
Sample : 1241713007 SG
Misc :
ALS Vial : 17 Sample Multiplier: 1

Revised Report - Revision 2

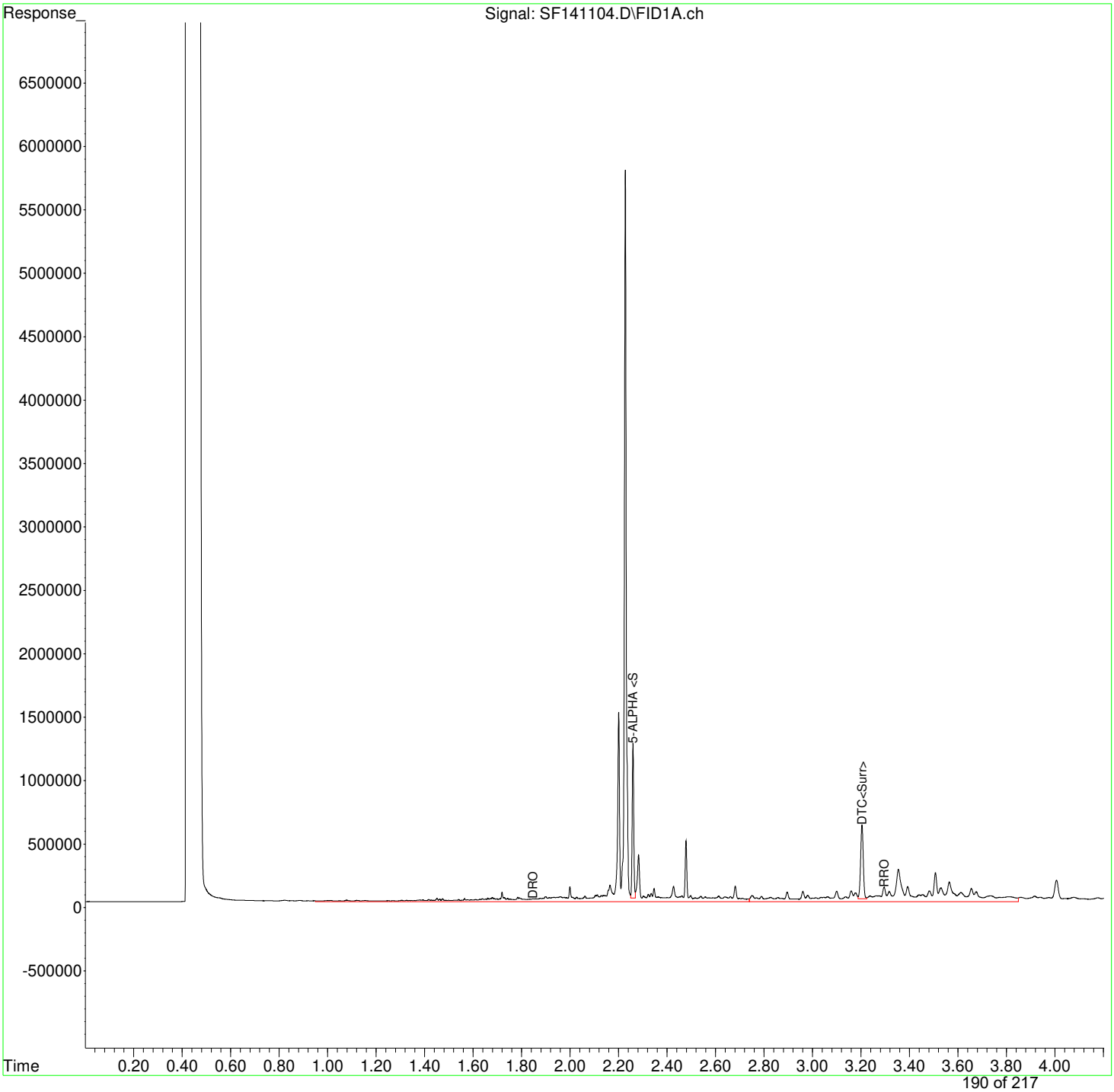
Integration File: autoint1.e
Quant Time: Apr 26 20:41:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141106.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:10
Operator : T.L
Sample : 1241713008 SG
Misc :
ALS Vial : 18 Sample Multiplier: 1

Revised Report - Revision 2

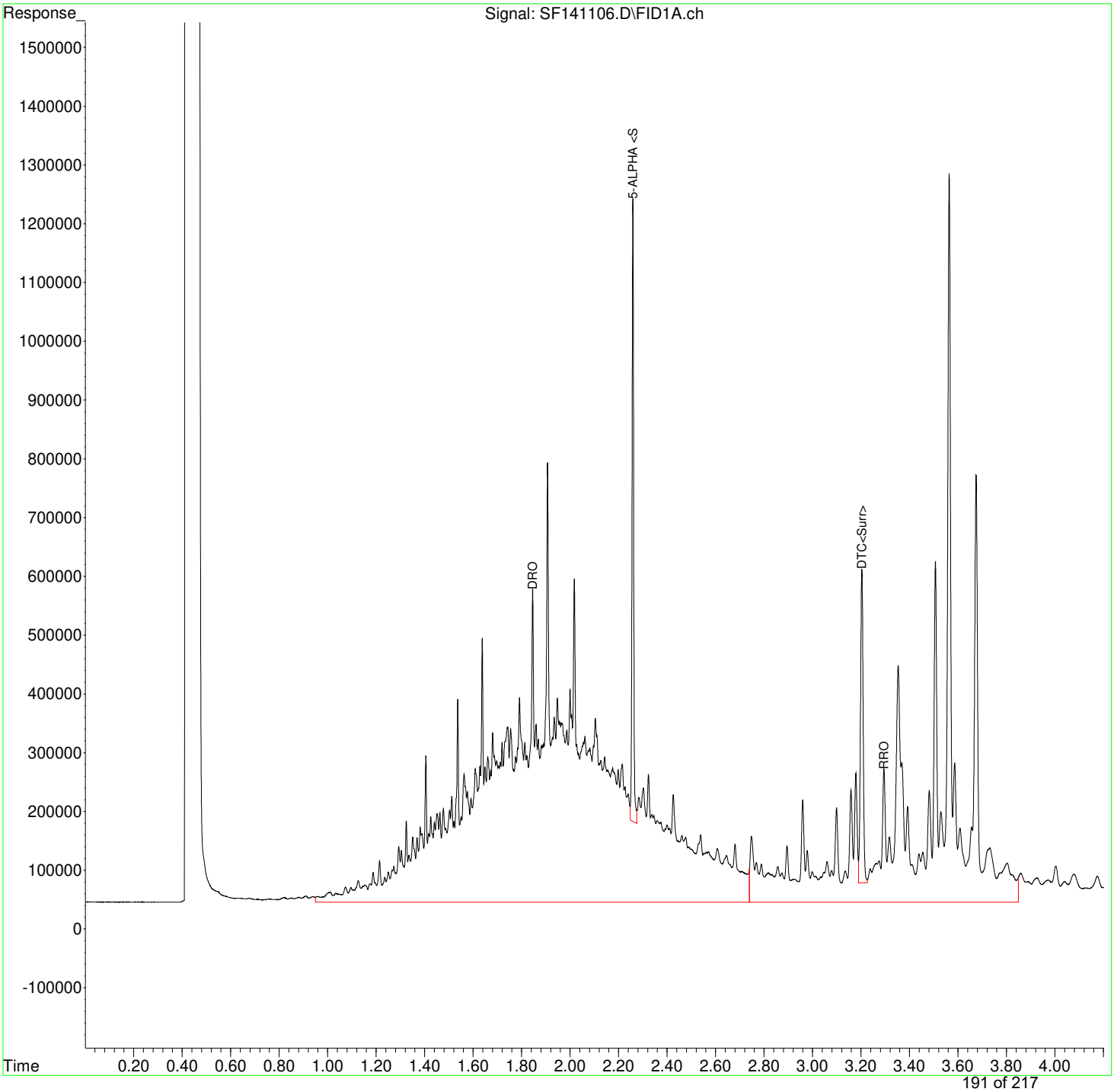
Integration File: autoint1.e
Quant Time: Apr 26 20:42:13 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141108.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:20
Operator : T.L
Sample : 1241713009 SG
Misc :
ALS Vial : 19 Sample Multiplier: 1

Revised Report - Revision 2

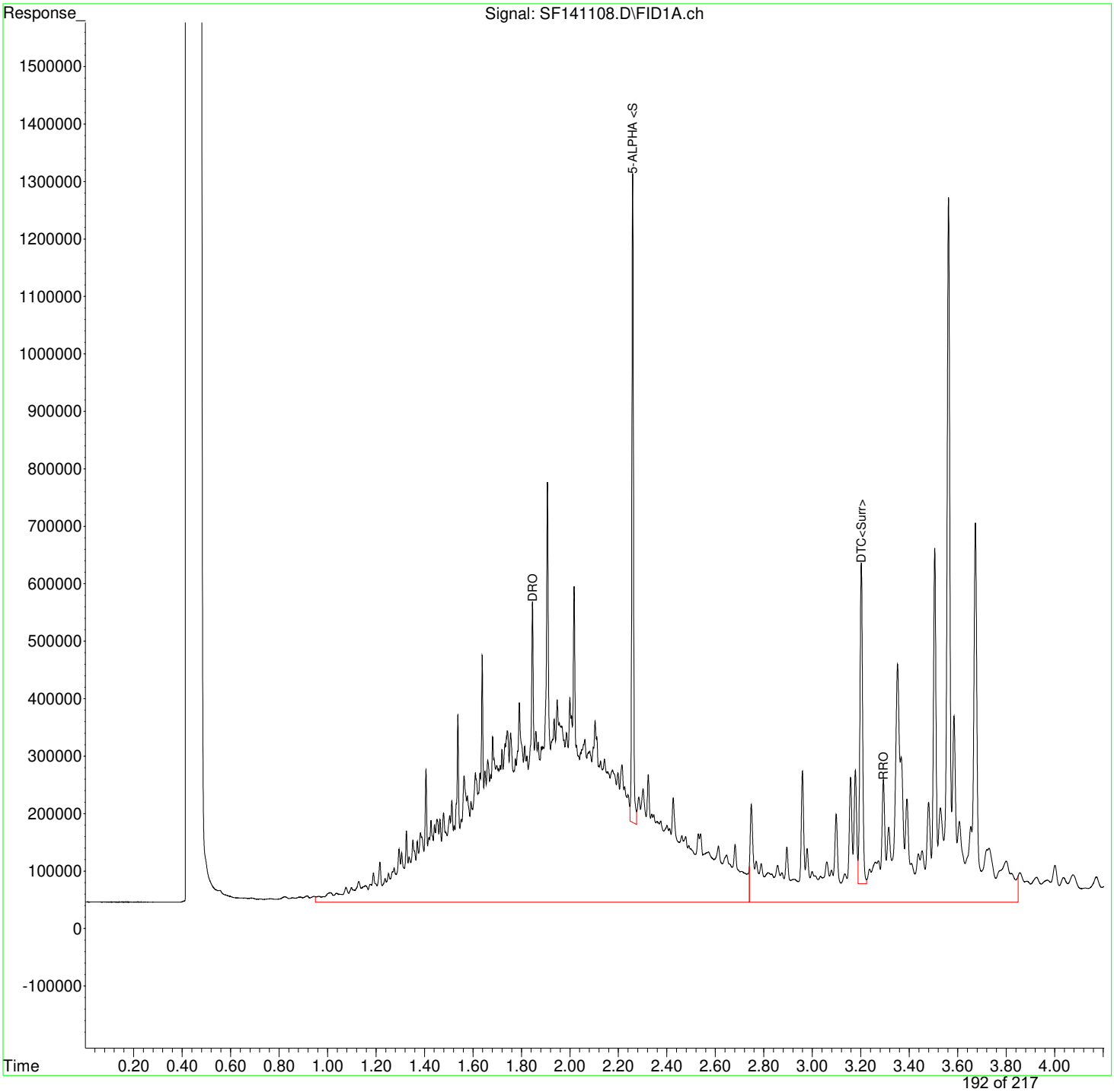
Integration File: autoint1.e
Quant Time: Apr 26 20:42:22 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashid Shamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141110.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:30
Operator : T.L
Sample : 1241713010 SG
Misc :
ALS Vial : 20 Sample Multiplier: 1

Revised Report - Revision 2

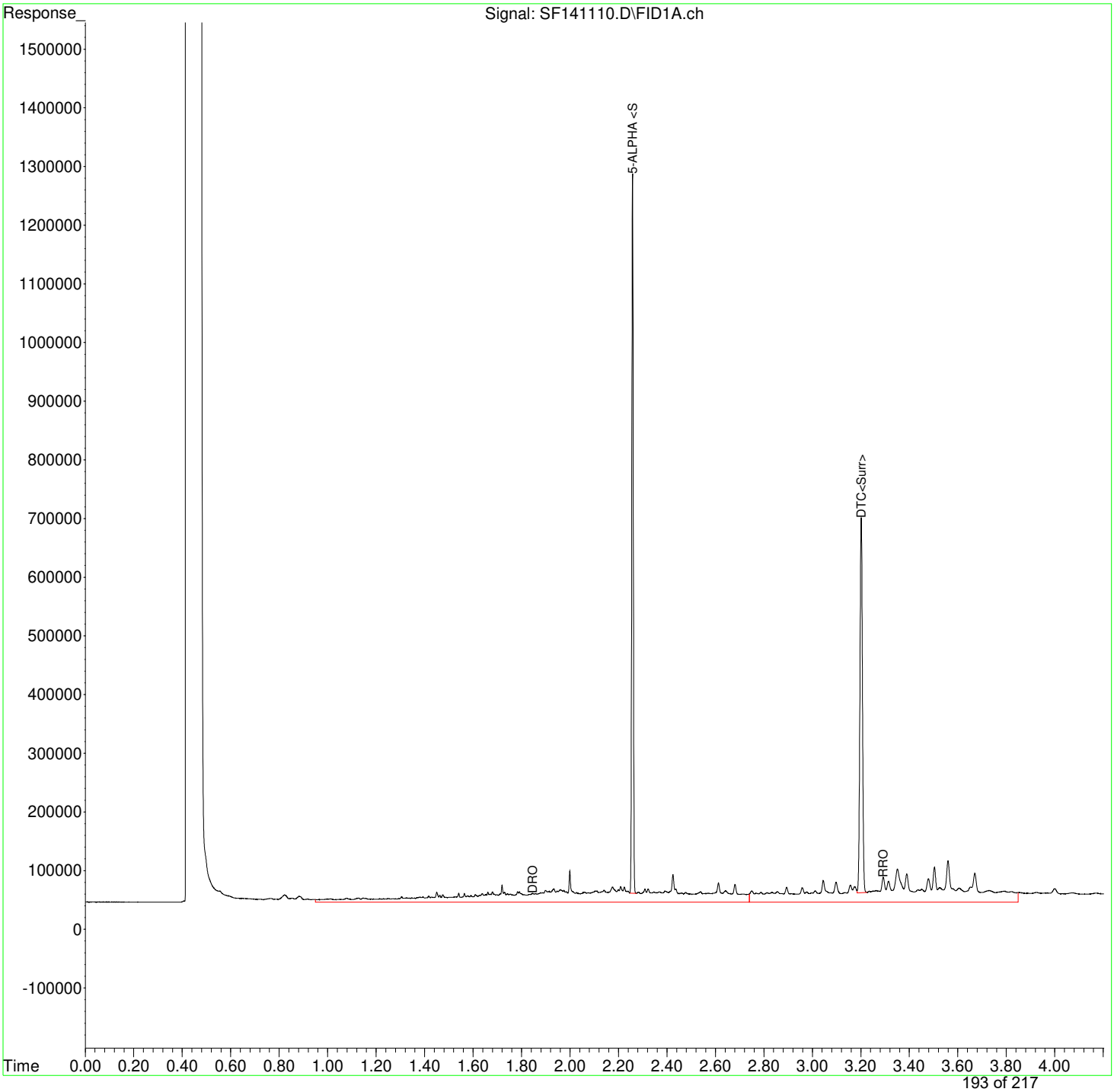
Integration File: autoint1.e
Quant Time: Apr 26 20:42:30 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141112.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:41
Operator : T.L
Sample : 1241713011 PS SG
Misc :
ALS Vial : 21 Sample Multiplier: 1

Revised Report - Revision 2

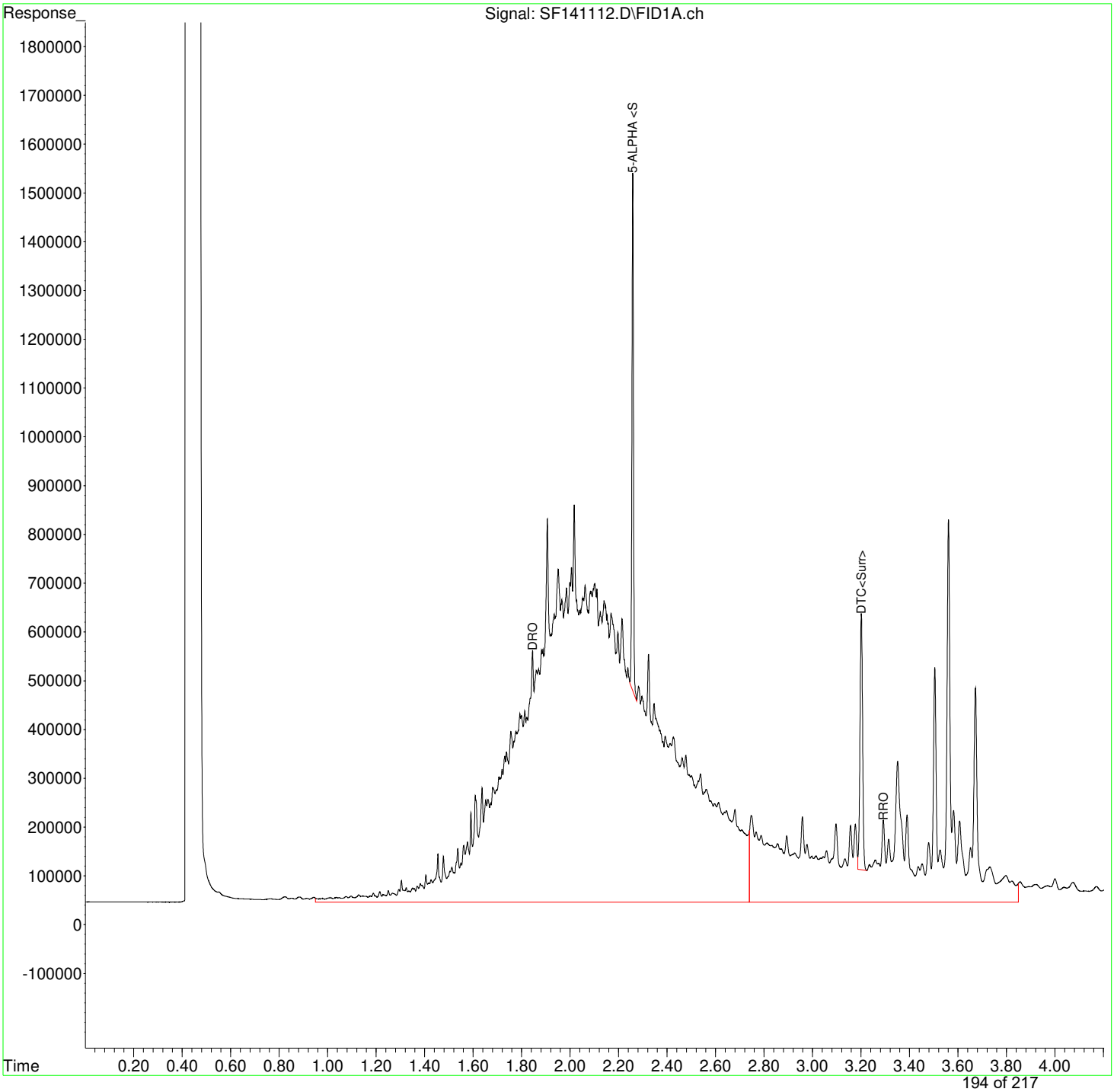
Integration File: autoint1.e
Quant Time: Apr 26 20:42:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for DRO is consistent with middle distillate and RRO is consistent with biogenics.

Apr 26, 2024

Tashid Shamu

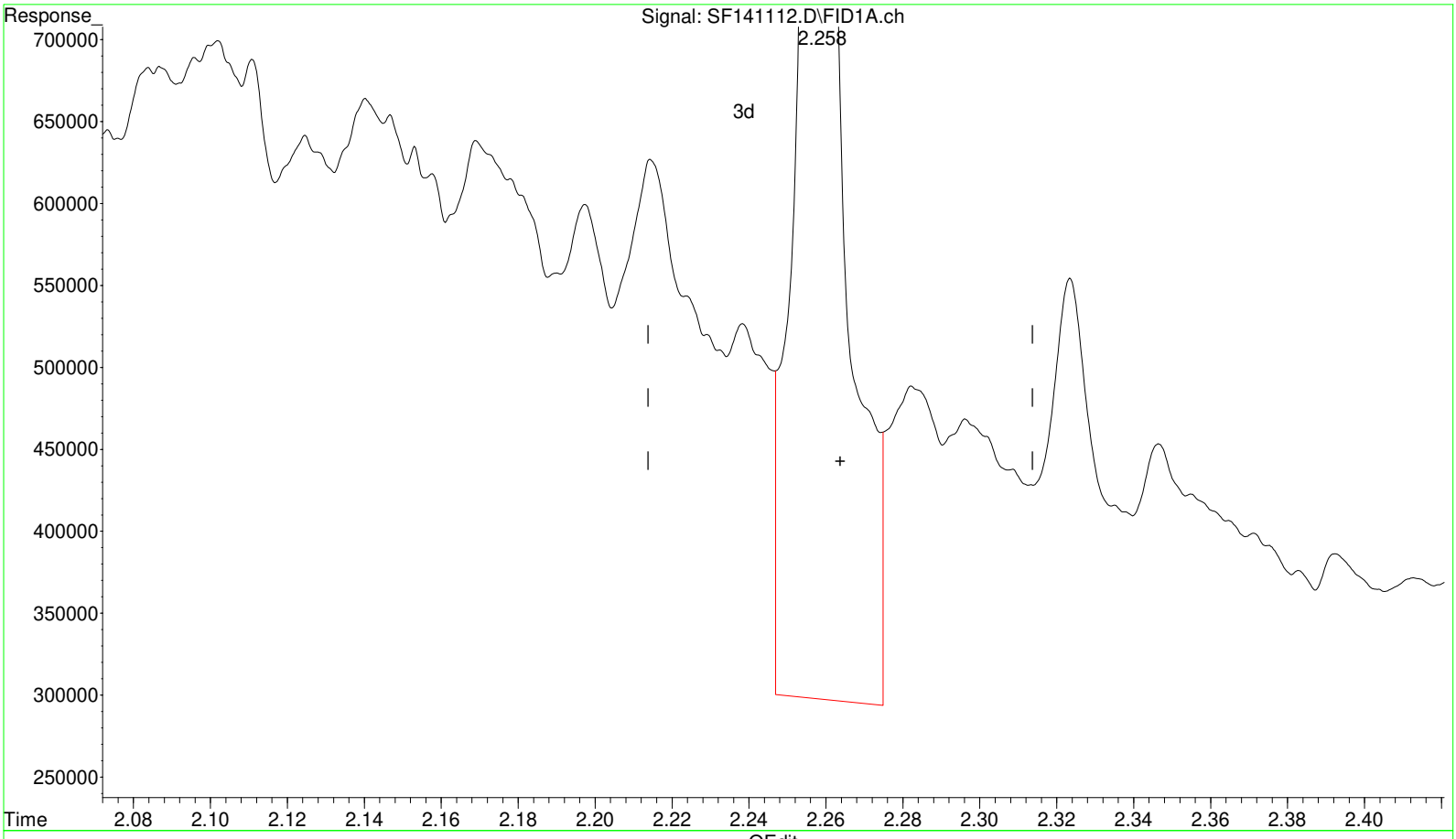


Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141112.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:41
Operator : T.L
Sample : 1241713011 PS SG
Misc :
ALS Vial : 21 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 20:42:37 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.259min 123.975 µg/mL

response 7799097

O-BLC

Apr 26, 2024

Zashid Hamu

(+) = Expected Retention Time

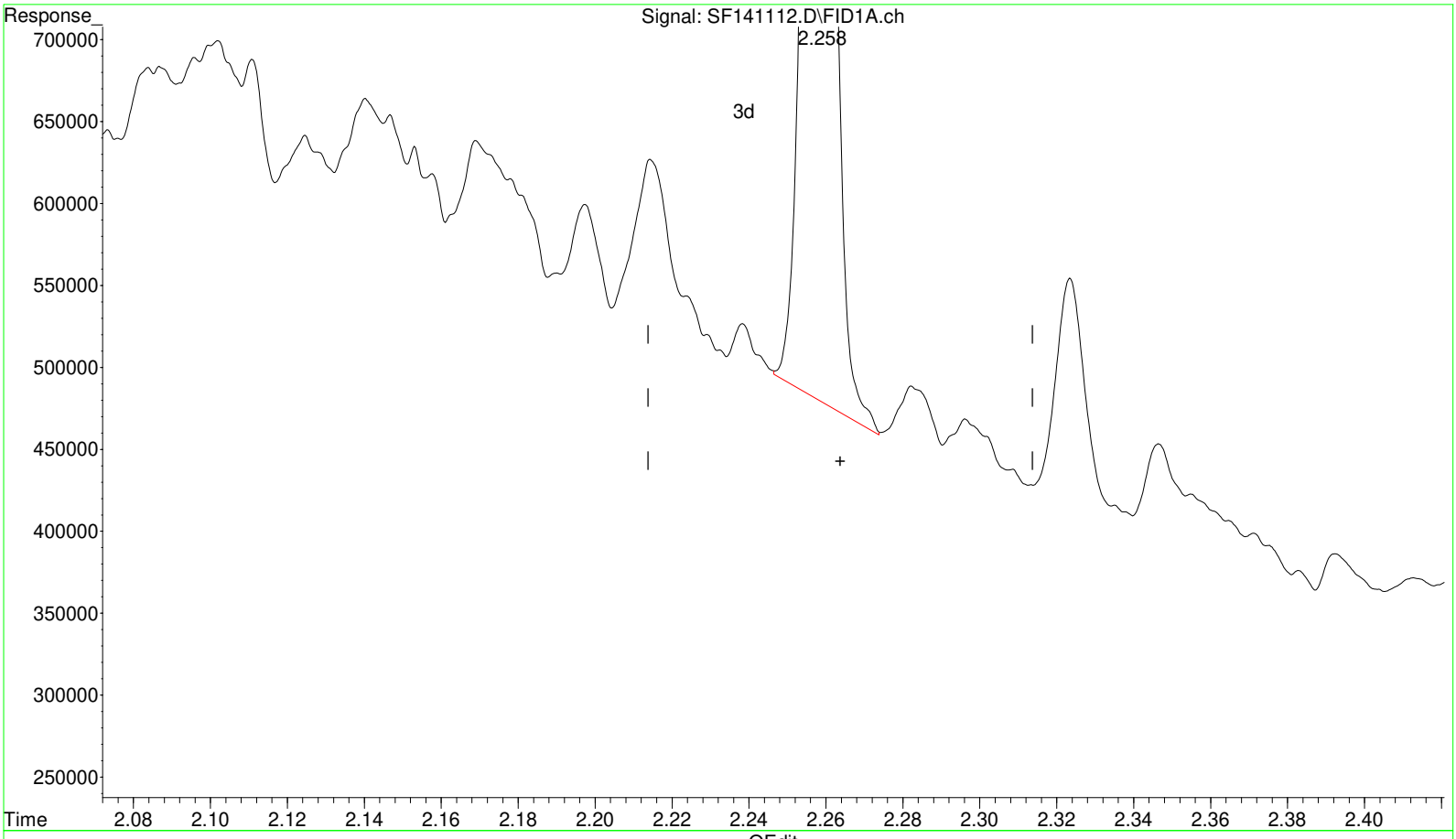
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141112.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 18:41
Operator : T.L
Sample : 1241713011 PS SG
Misc :
ALS Vial : 21 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 20:42:37 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.258min 76.055 µg/mL m

response 4784530

M-BLC
Apr 26, 2024

Zashid Shamu

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141118.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 19:10
Operator : T.L
Sample : 1241713014 SG
Misc :
ALS Vial : 24 Sample Multiplier: 1

Revised Report - Revision 2

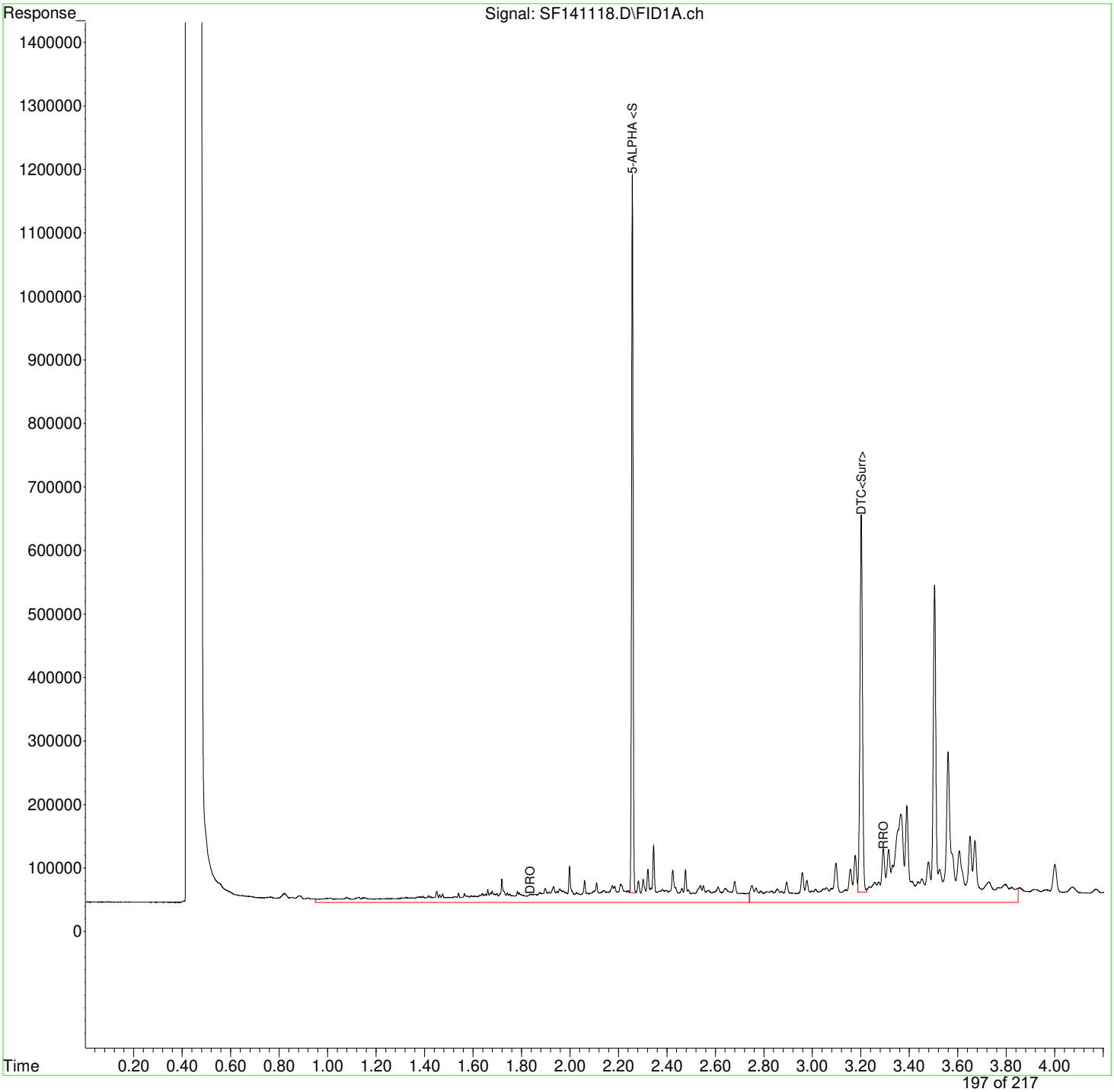
Integration File: autoint1.e
Quant Time: Apr 26 20:45:01 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141120.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 19:20
Operator : T.L
Sample : 1241713015 SG
Misc :
ALS Vial : 25 Sample Multiplier: 1

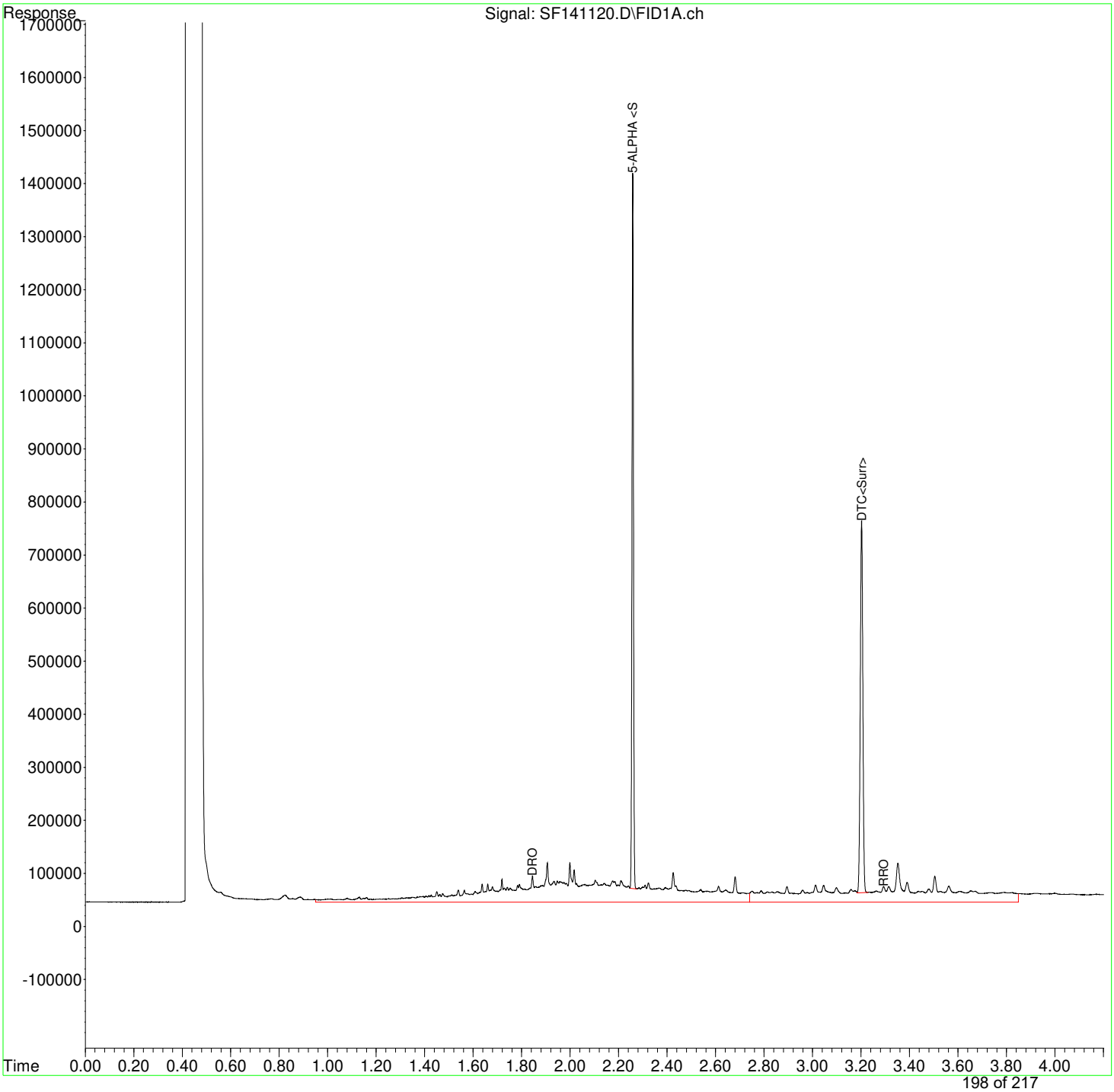
Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: Apr 26 20:45:09 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141122.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 19:31
Operator : T.L
Sample : 1241713016 SG
Misc :
ALS Vial : 26 Sample Multiplier: 1

Revised Report - Revision 2

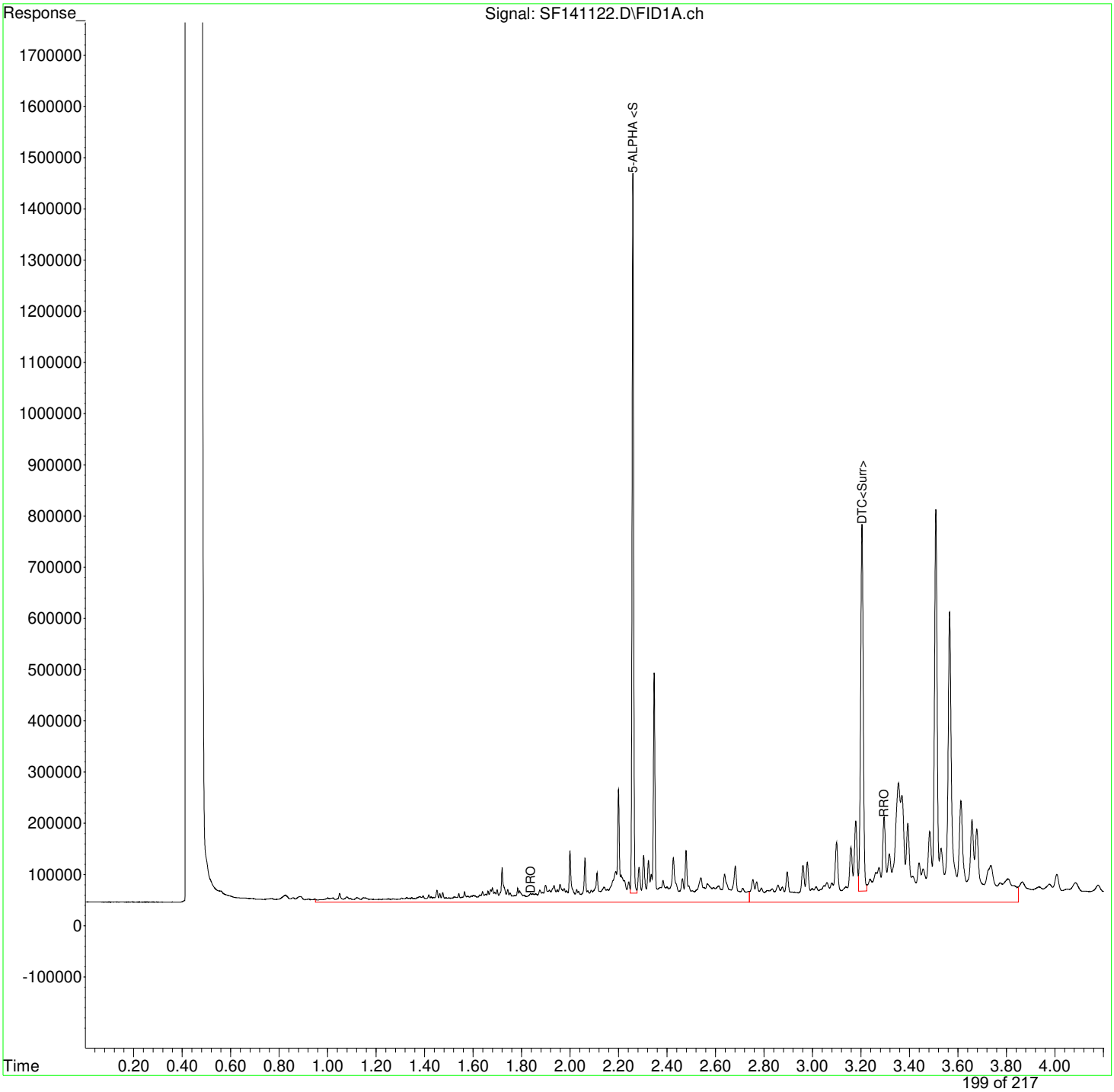
Integration File: autoint1.e
Quant Time: Apr 26 20:45:18 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141128.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:00
Operator : T.L
Sample : 1241713017 SG
Misc :
ALS Vial : 27 Sample Multiplier: 1

Revised Report - Revision 2

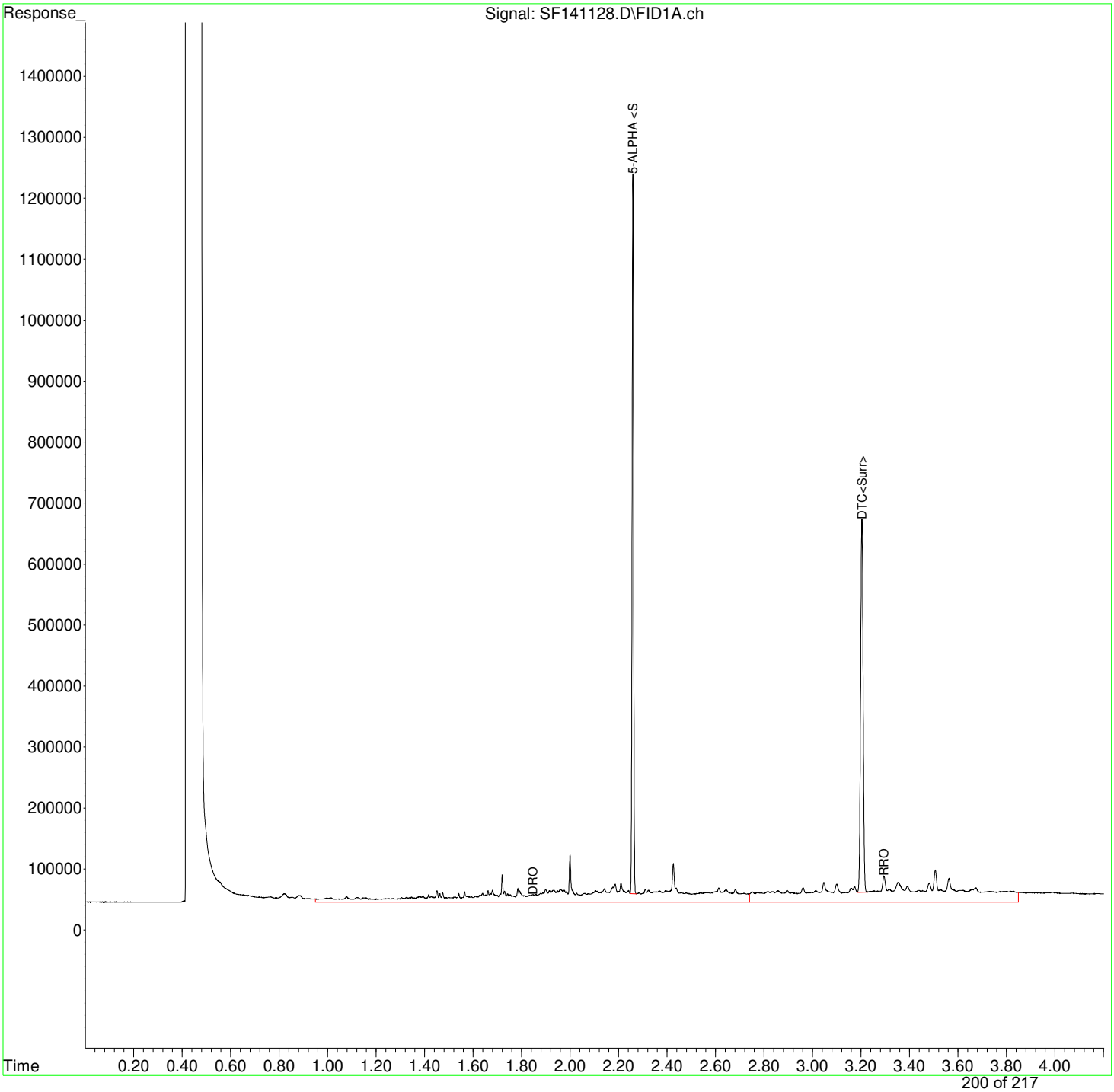
Integration File: autoint1.e
Quant Time: Apr 26 20:46:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern for RRO is possibly biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141130.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:10
Operator : T.L
Sample : 1241713018 SG
Misc :
ALS Vial : 28 Sample Multiplier: 1

Revised Report - Revision 2

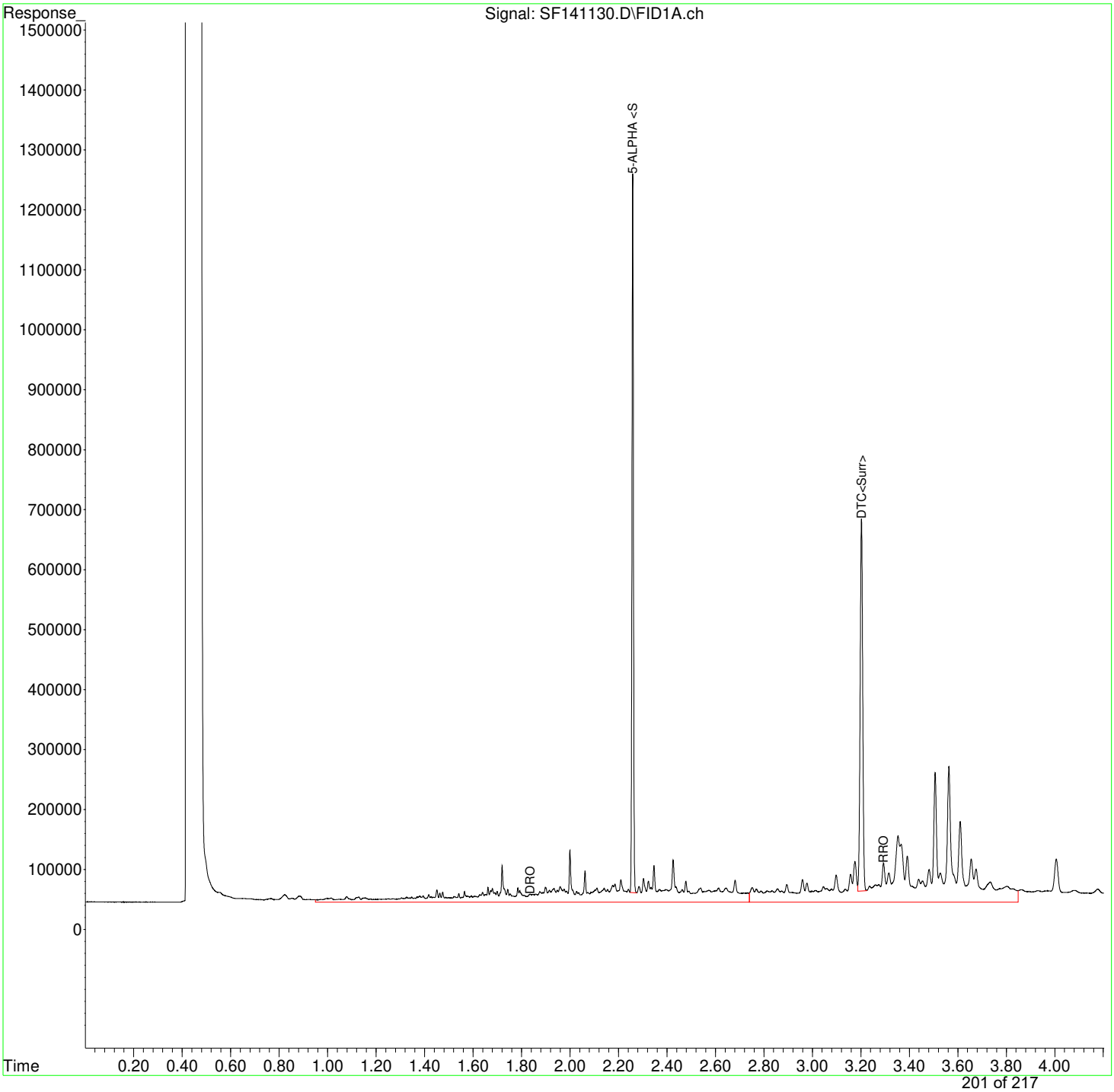
Integration File: autoint1.e
Quant Time: Apr 26 20:46:08 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141132.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:20
Operator : T.L
Sample : 1241713019 SG
Misc :
ALS Vial : 29 Sample Multiplier: 1

Revised Report - Revision 2

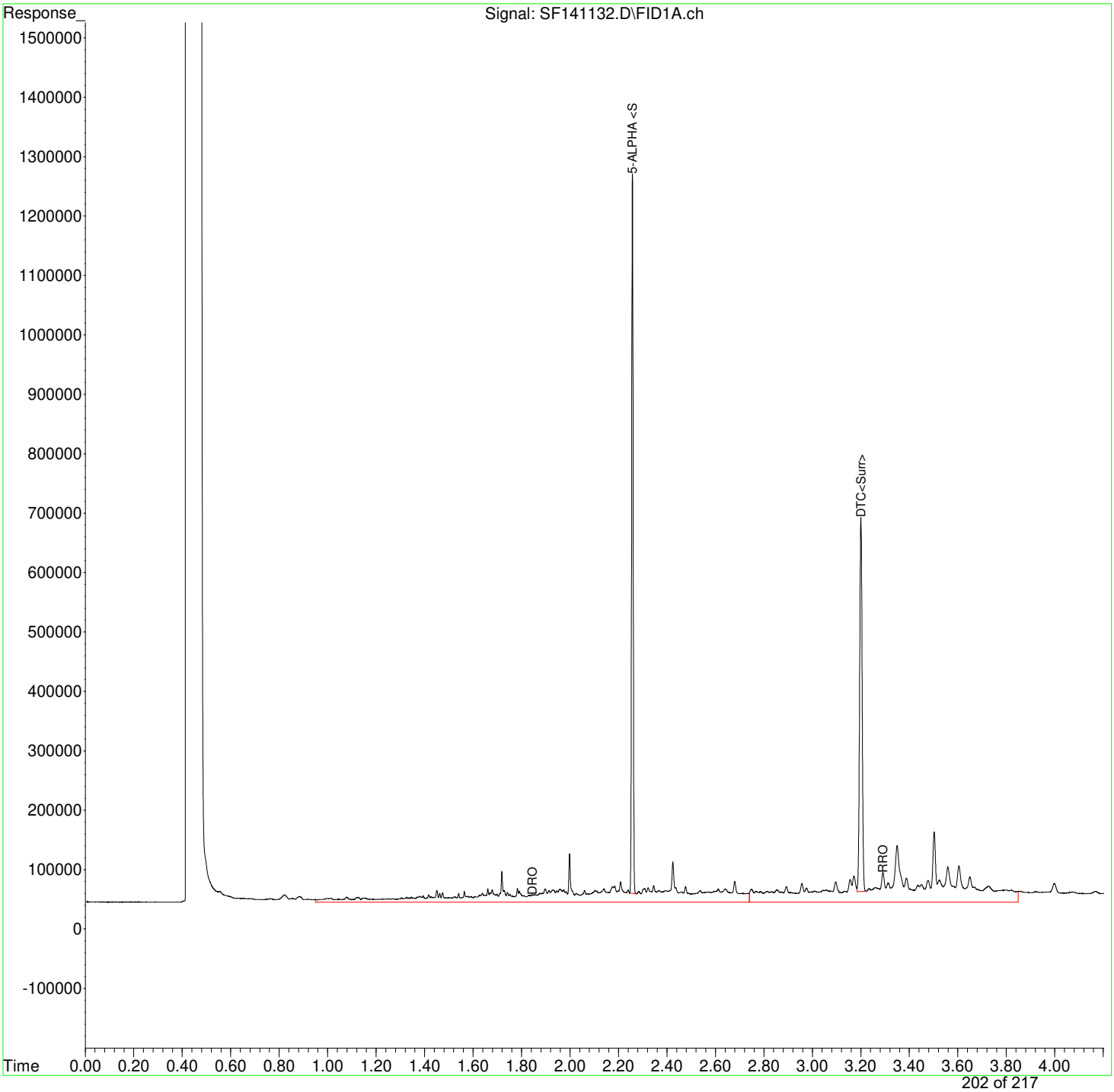
Integration File: autoint1.e
Quant Time: Apr 26 20:46:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141134.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:29
Operator : T.L
Sample : 1241713020 SG
Misc :
ALS Vial : 30 Sample Multiplier: 1

Revised Report - Revision 2

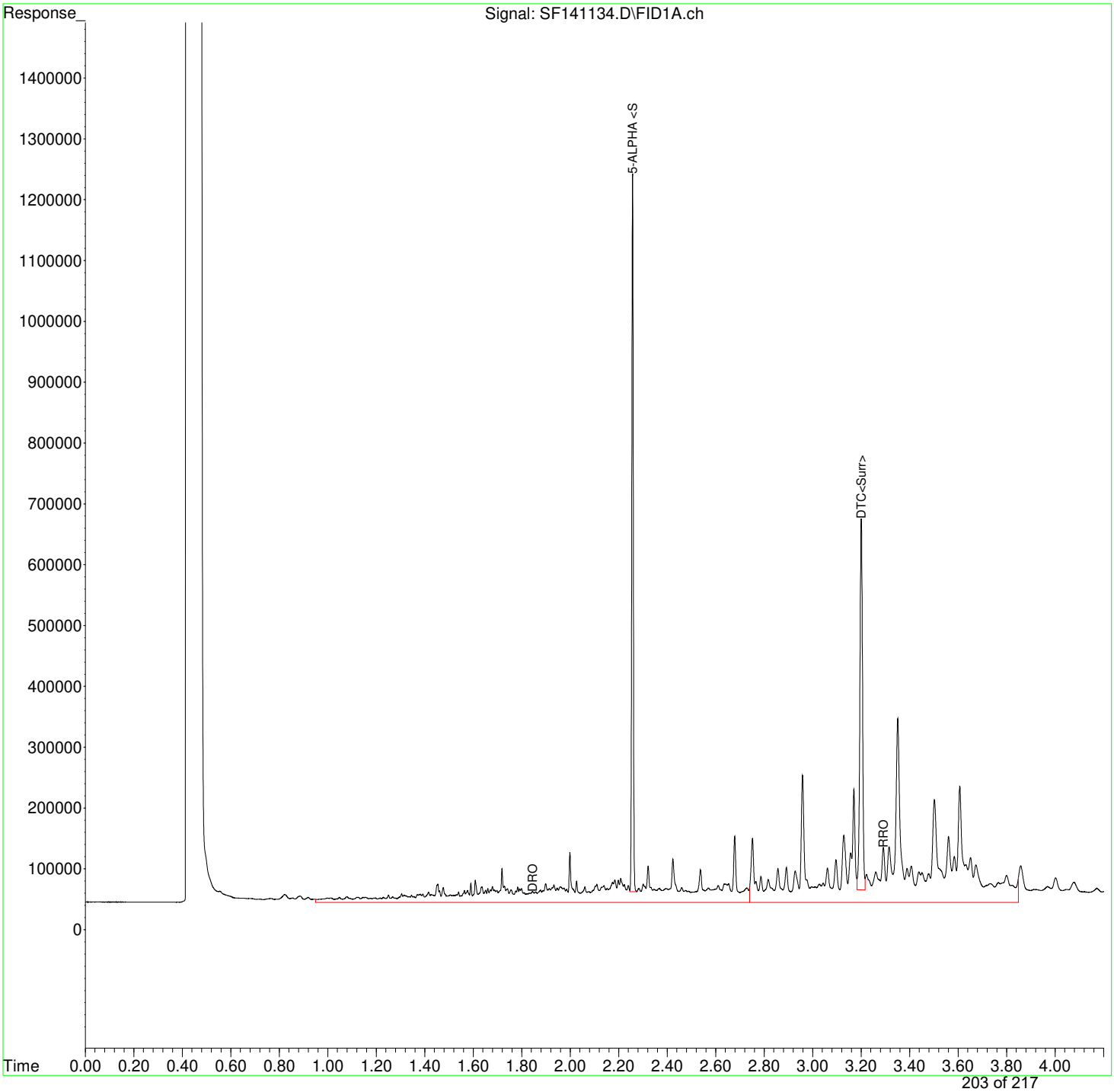
Integration File: autoint1.e
Quant Time: Apr 26 20:46:24 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141136.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:39
Operator : T.L
Sample : 1241713021 SG
Misc :
ALS Vial : 31 Sample Multiplier: 1

Revised Report - Revision 2

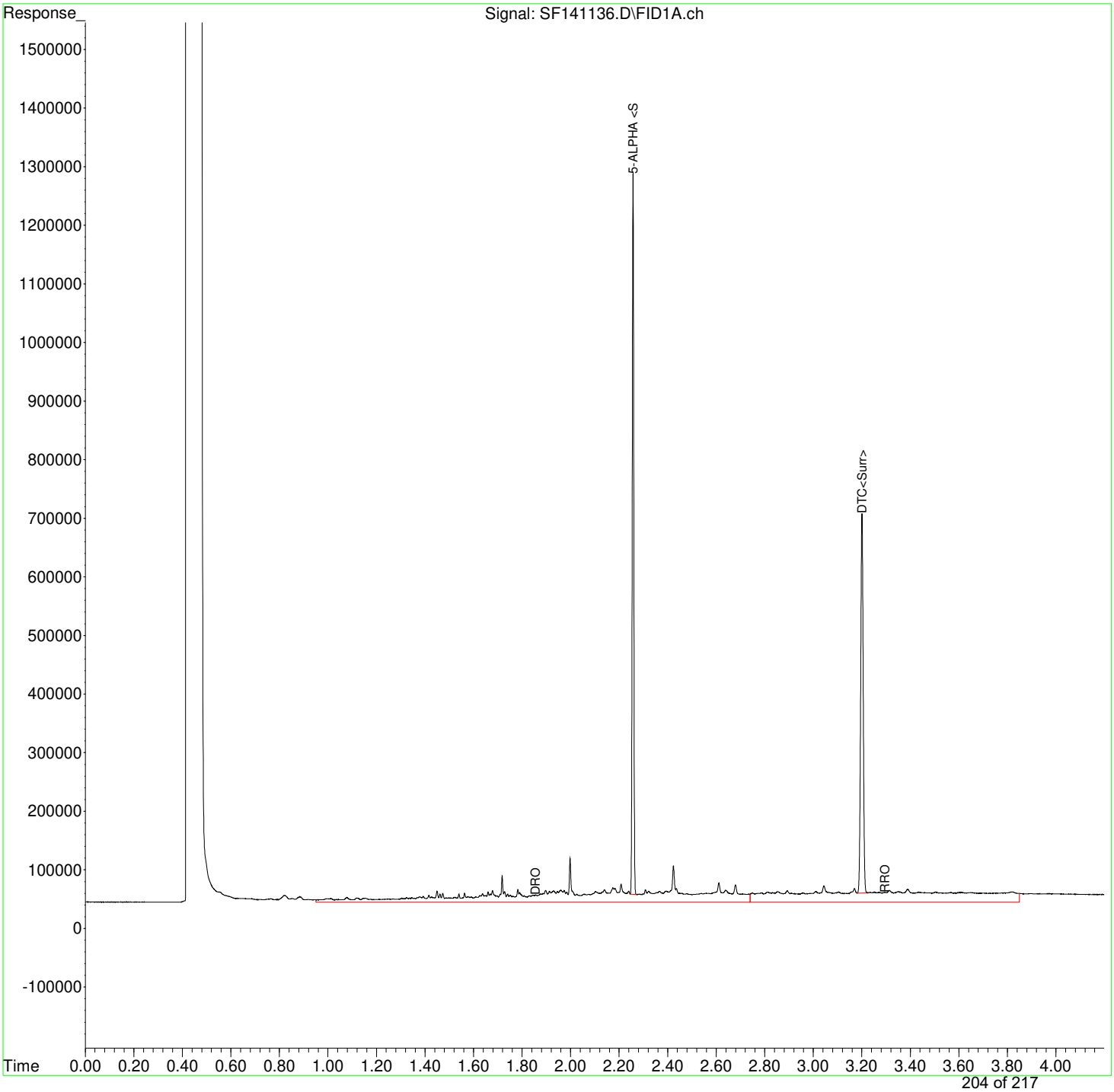
Integration File: autoint1.e
Quant Time: Apr 26 20:46:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern is unknown.

Apr 26, 2024

Zashid Hamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04262024\
Data File : SF141138.D
Signal(s) : FID1A.ch
Acq On : 26 Apr 2024 20:49
Operator : T.L
Sample : 1241713022 SG
Misc :
ALS Vial : 32 Sample Multiplier: 1

Revised Report - Revision 2

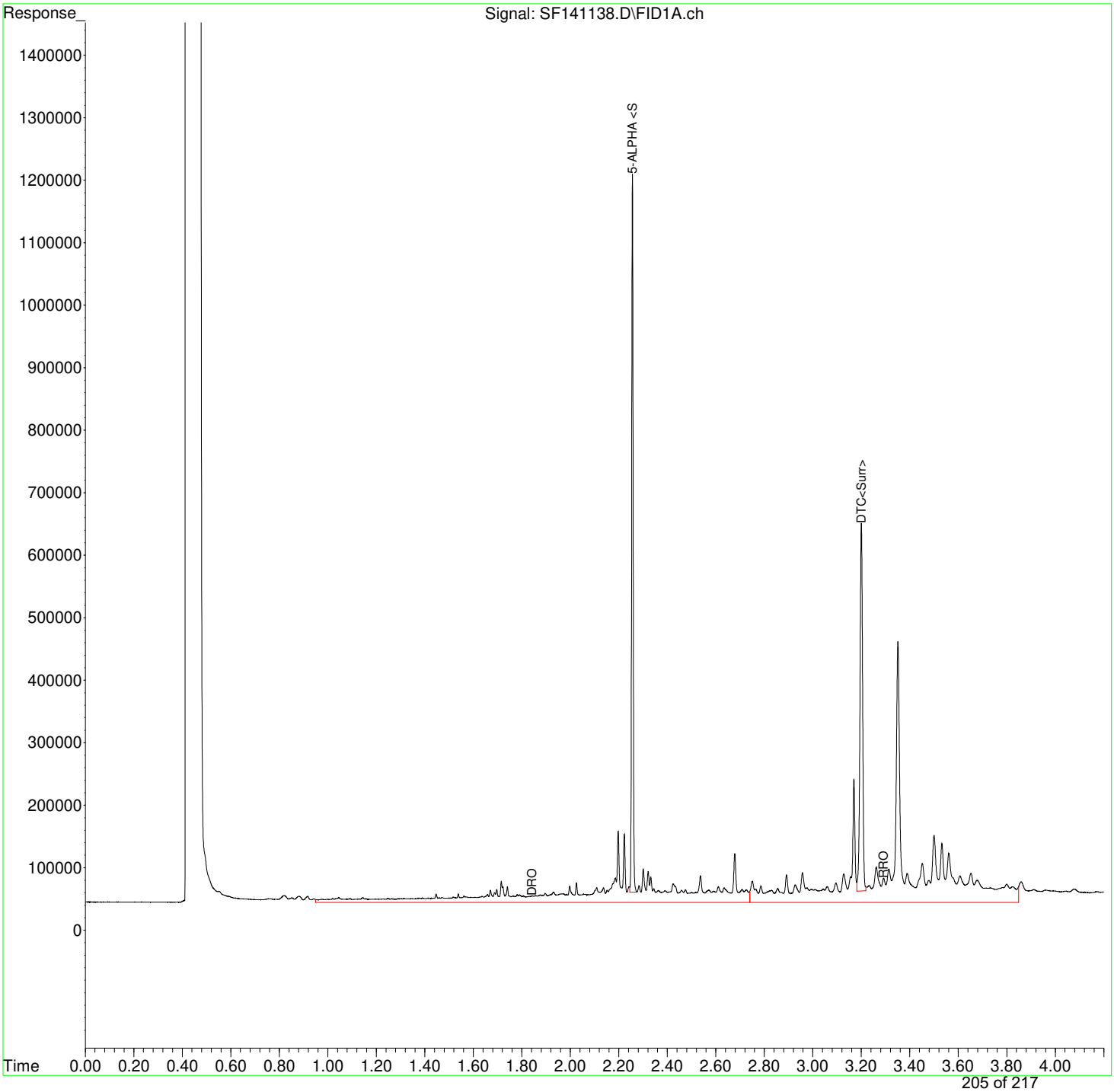
Integration File: autoint1.e
Quant Time: Apr 26 21:04:30 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418E.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

Apr 26, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141431.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:24
Operator : T.L
Sample : 1241713023 SG
Misc :
ALS Vial : 8 Sample Multiplier: 1

Revised Report - Revision 2

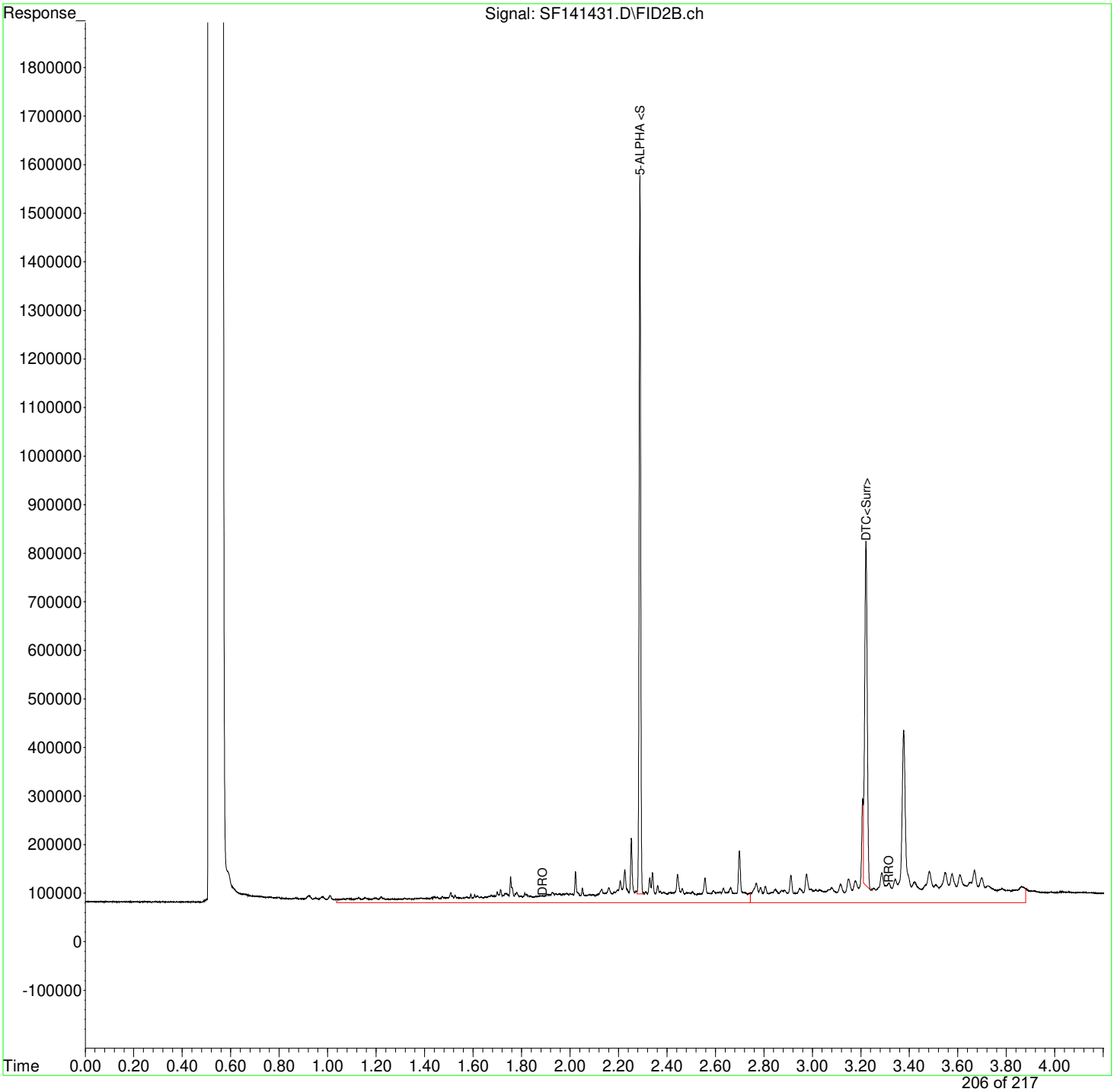
Integration File: autoint1.e
Quant Time: May 01 12:37:54 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



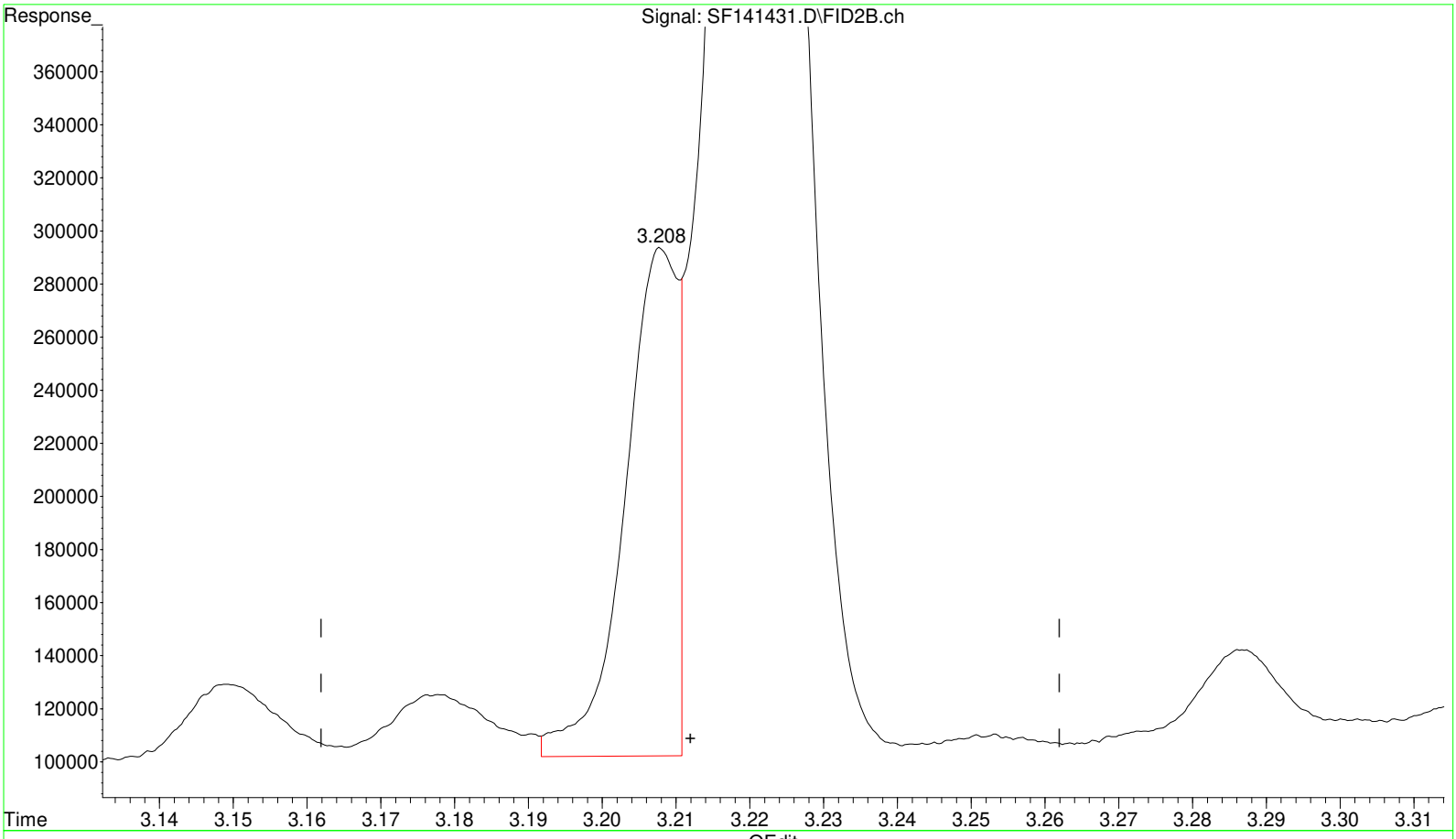
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141431.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:24
Operator : T.L
Sample : 1241713023 SG
Misc :
ALS Vial : 8 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: May 01 12:37:05 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.208min 15.139 µg/mL

response 914922

O-RP
May 01, 2024

Tashid Shamu

May 02, 2024

Nicholas Bryant

(+) = Expected Retention Time

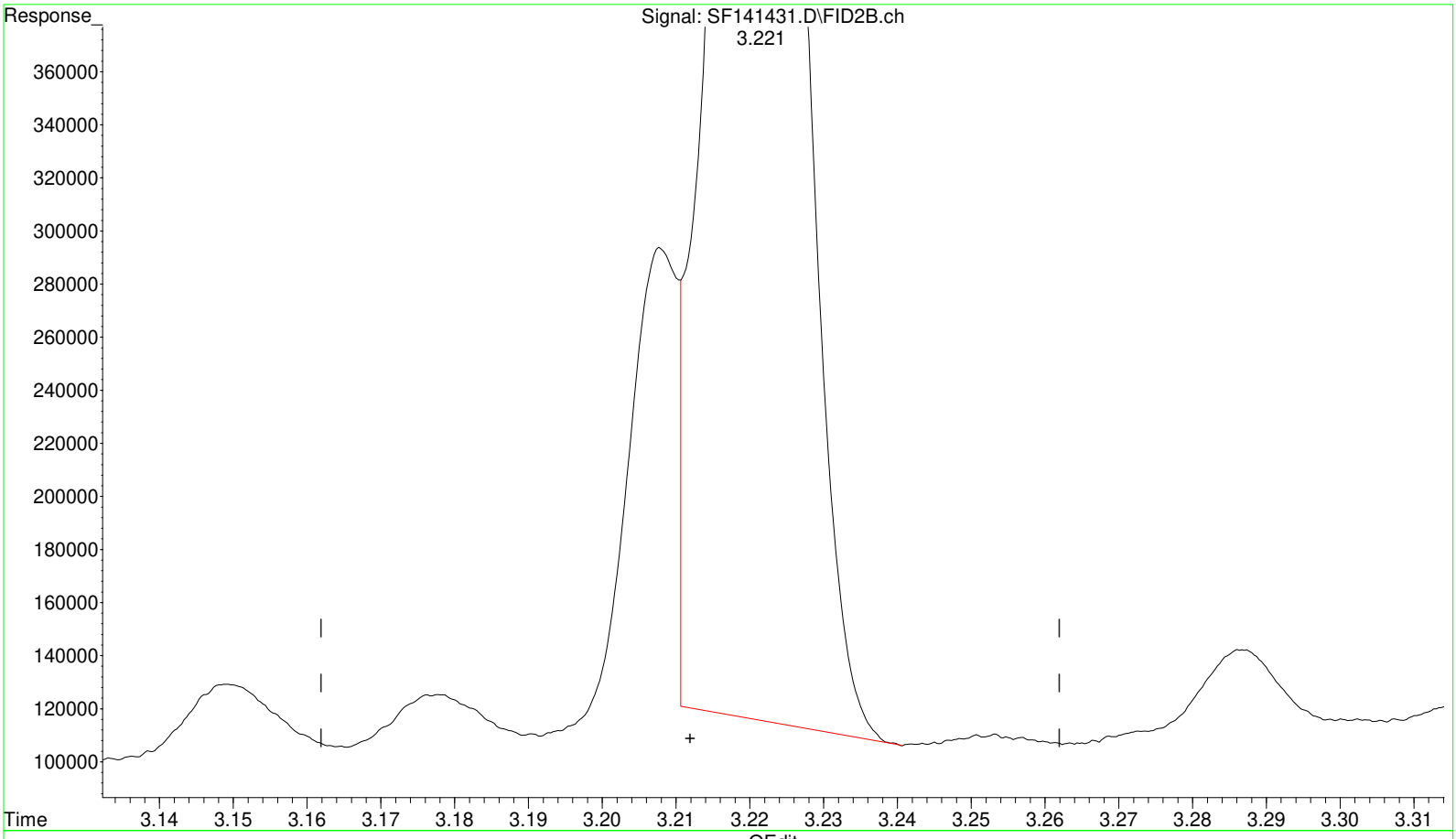
Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141431.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:24
Operator : T.L
Sample : 1241713023 SG
Misc :
ALS Vial : 8 Sample Multiplier: 1

Revised Report - Revision 2

Integration File: autoint1.e
Quant Time: May 01 12:37:05 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.221min 86.210 µg/mL m

response 5210125

M-RP
May 01, 2024

Tashi Lhamu

May 02, 2024

Nicholas Bryant

(+) = Expected Retention Time

Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141433.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:34
Operator : T.L
Sample : 1241713024 SG
Misc :
ALS Vial : 9 Sample Multiplier: 1

Revised Report - Revision 2

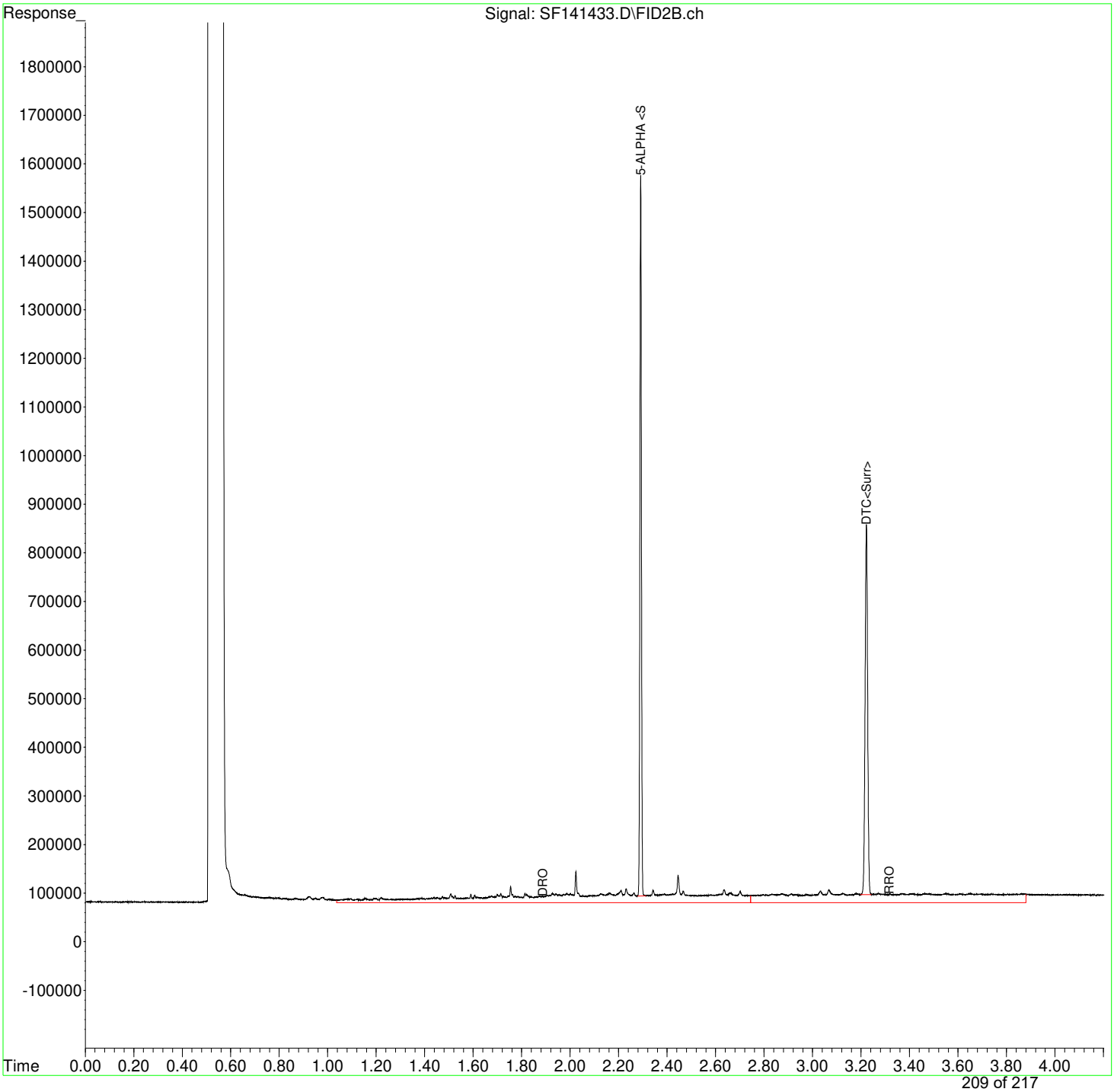
Integration File: autoint1.e
Quant Time: May 01 12:38:33 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern is unknown.

May 01, 2024

Tashidhamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141435.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:44
Operator : T.L
Sample : 1241713025 SG
Misc :
ALS Vial : 10 Sample Multiplier: 1

Revised Report - Revision 2

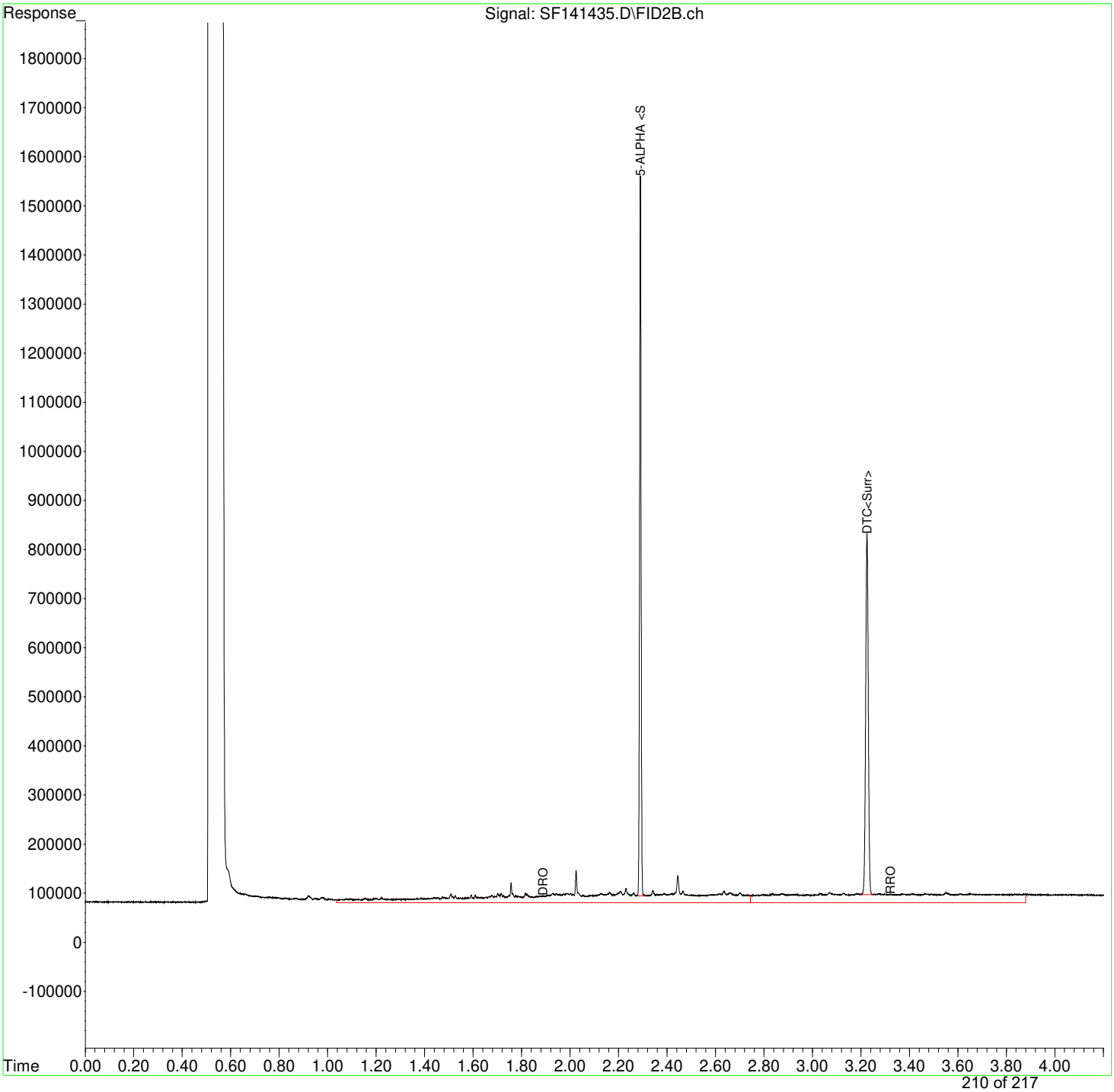
Integration File: autoint1.e
Quant Time: May 01 12:38:44 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

AK102/103 - The hydrocarbon pattern is unknown.

May 01, 2024

Zashid Hamu

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141437.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 15:53
Operator : T.L
Sample : 1241713026 SG
Misc :
ALS Vial : 11 Sample Multiplier: 1

Revised Report - Revision 2

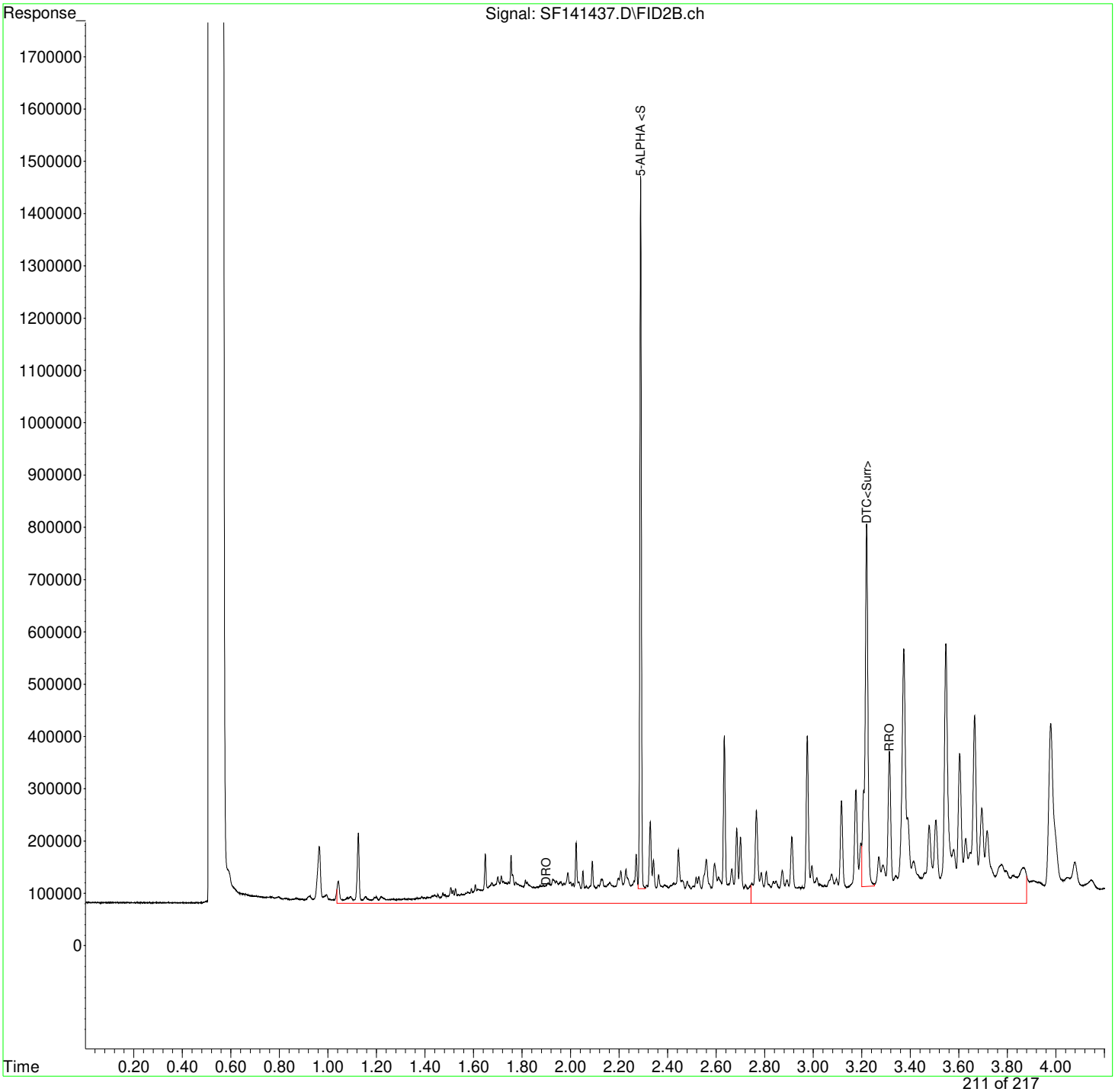
Integration File: autoint1.e
Quant Time: May 01 12:42:02 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141439.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 16:03
Operator : T.L
Sample : 1241713027 SG
Misc :
ALS Vial : 12 Sample Multiplier: 1

Revised Report - Revision 2

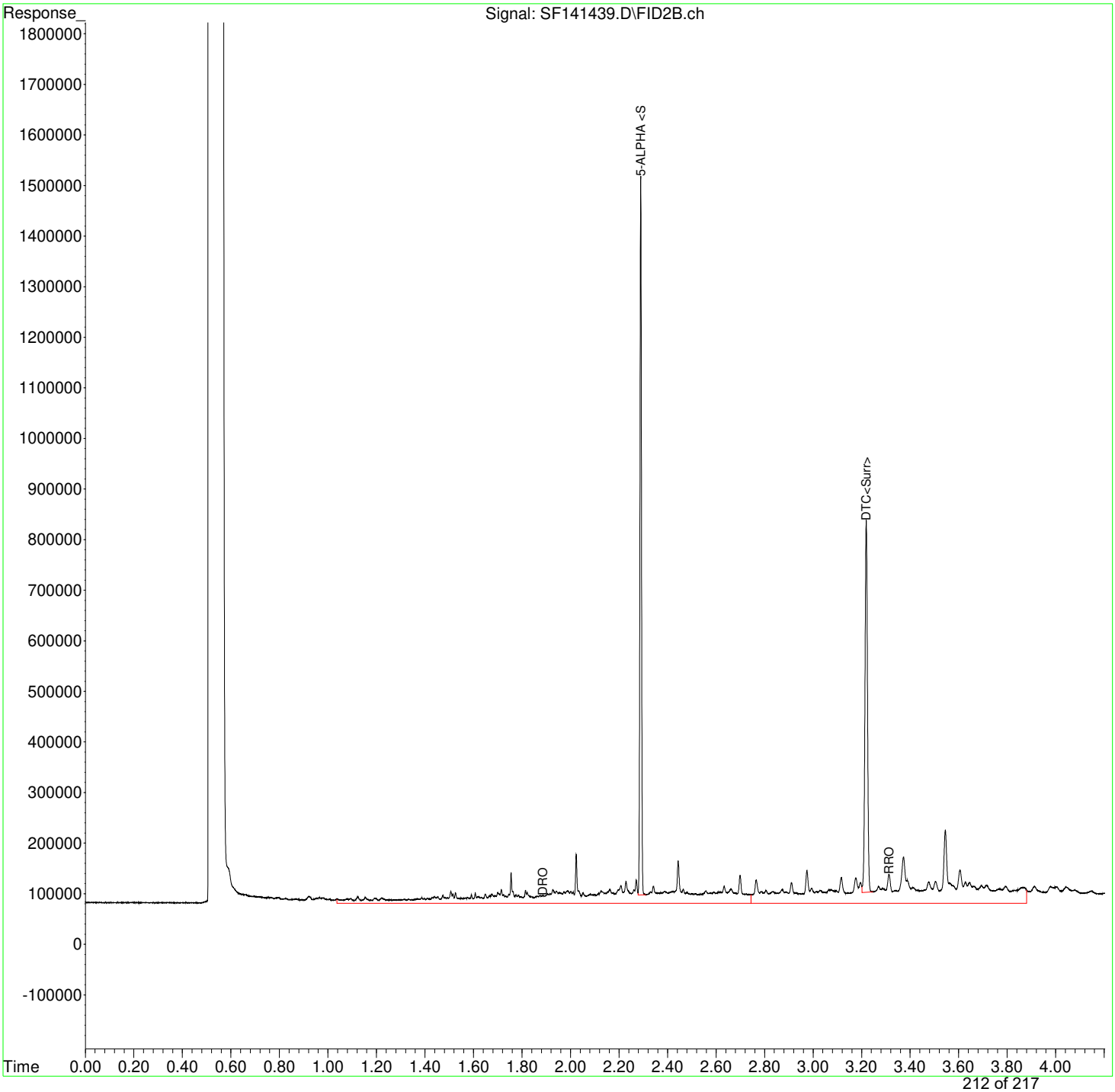
Integration File: autoint1.e
Quant Time: May 01 12:42:17 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



212 of 217

Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141441.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 16:13
Operator : T.L
Sample : 1241713028 SG
Misc :
ALS Vial : 13 Sample Multiplier: 1

Revised Report - Revision 2

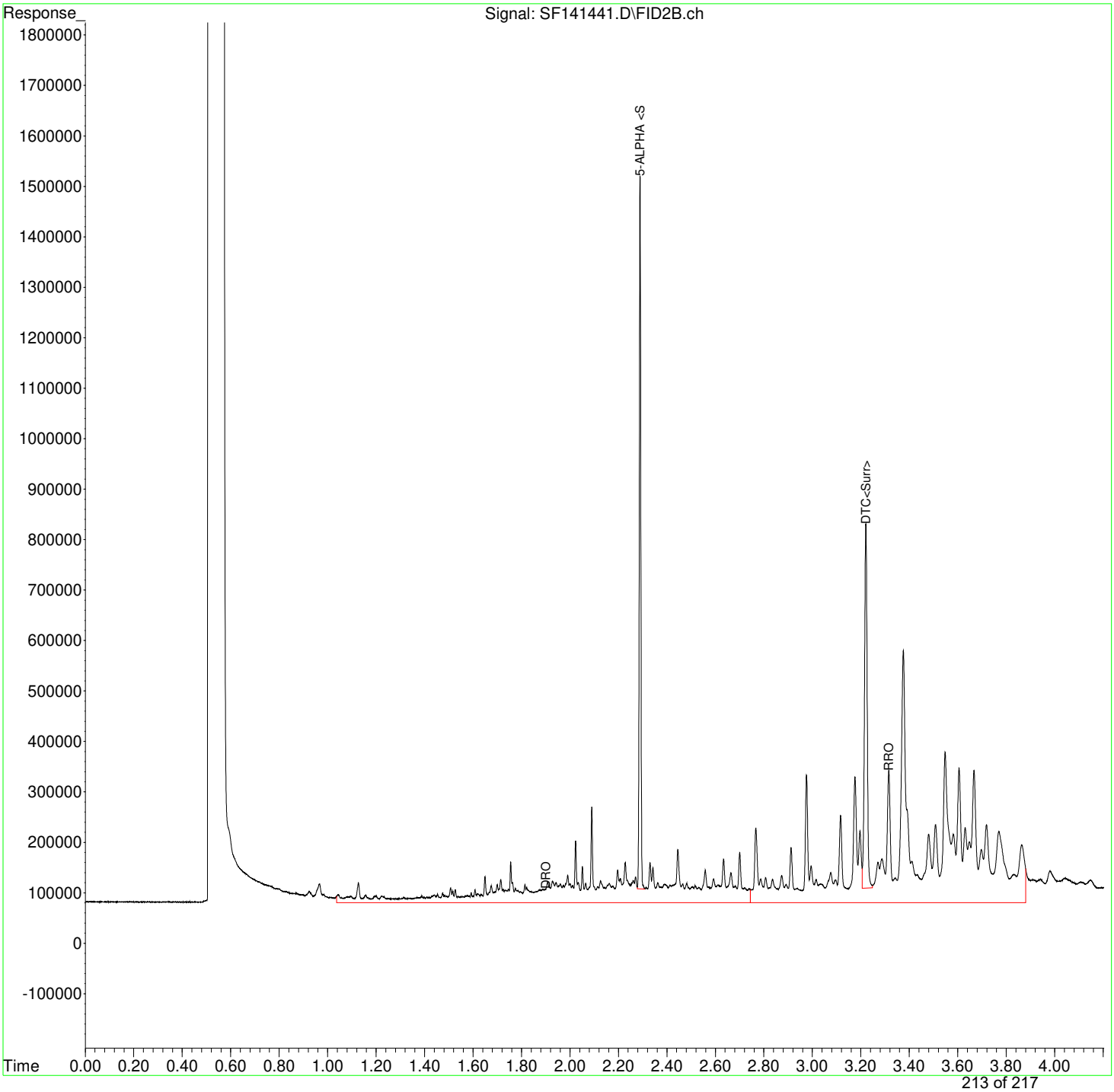
Integration File: autoint1.e
Quant Time: May 01 12:42:27 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141443.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 16:22
Operator : T.L
Sample : 1241713029 SG
Misc :
ALS Vial : 14 Sample Multiplier: 1

Revised Report - Revision 2

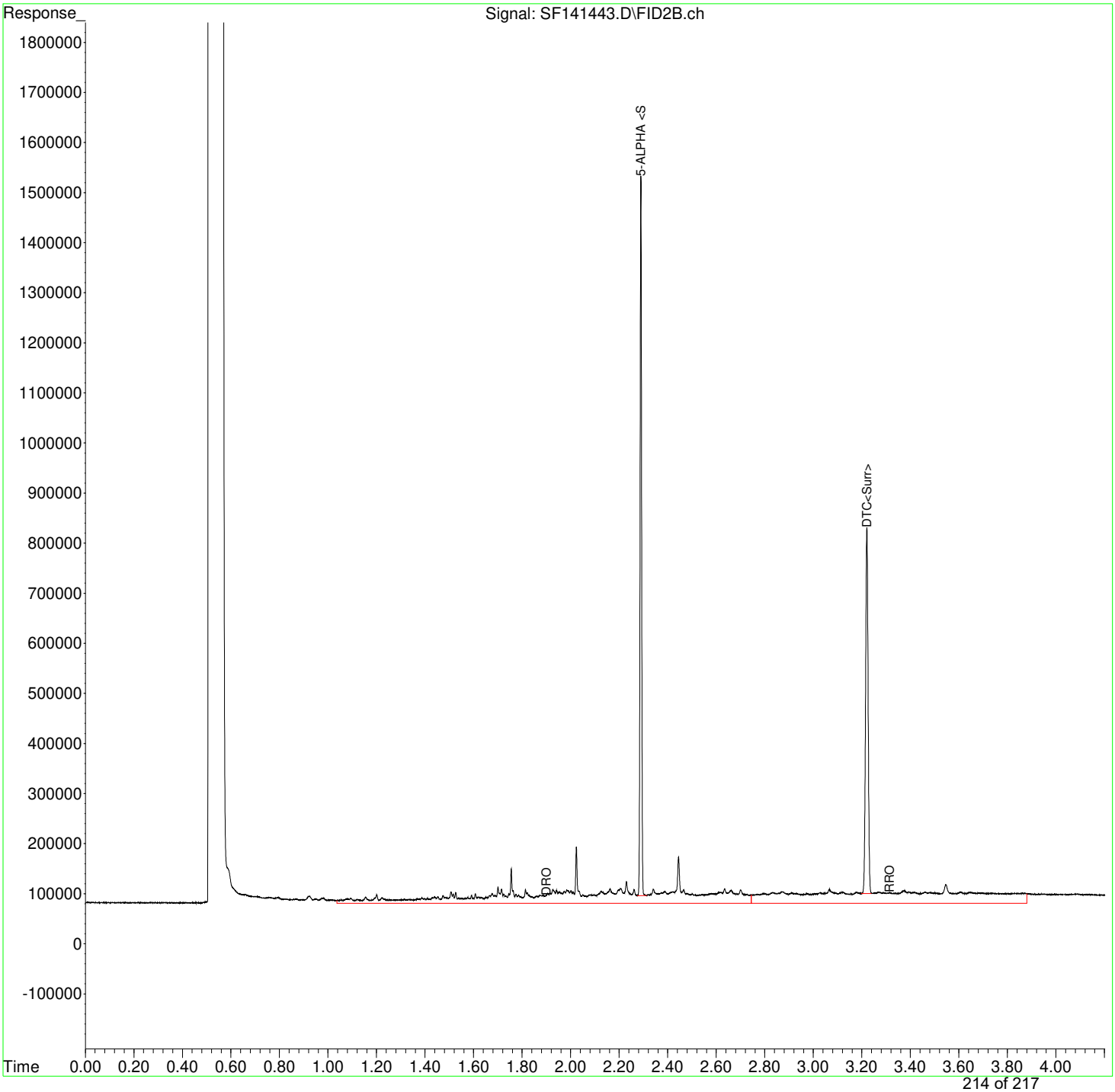
Integration File: autoint1.e
Quant Time: May 01 12:42:35 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



214 of 217

Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141445.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 16:32
Operator : T.L
Sample : 1241713030 SG
Misc :
ALS Vial : 15 Sample Multiplier: 1

Revised Report - Revision 2

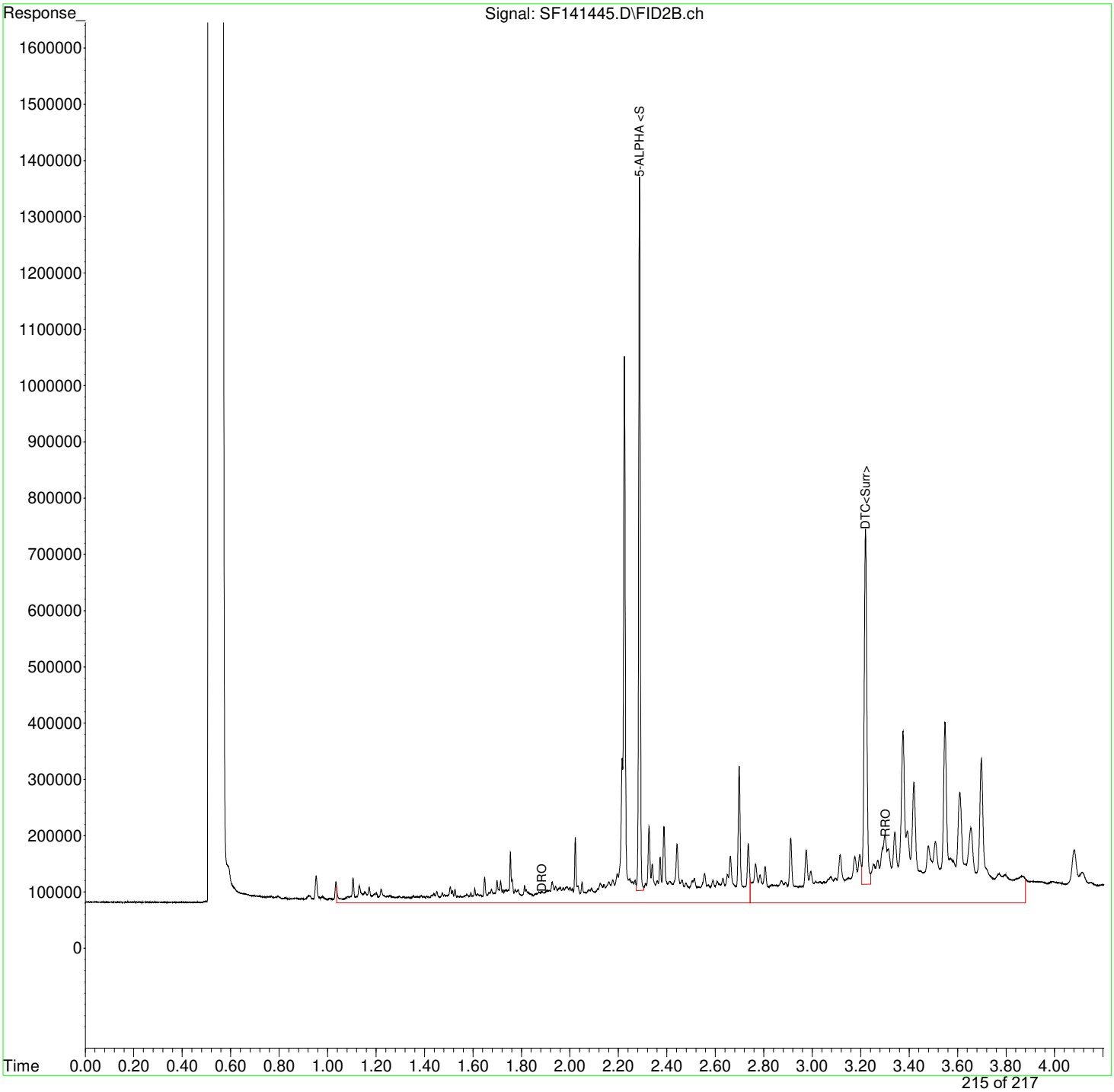
Integration File: autoint1.e
Quant Time: May 01 12:42:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04302024.SEC\
Data File : SF141447.D
Signal(s) : FID2B.ch
Acq On : 30 Apr 2024 16:42
Operator : T.L
Sample : 1241713031 SG
Misc :
ALS Vial : 16 Sample Multiplier: 1

Revised Report - Revision 2

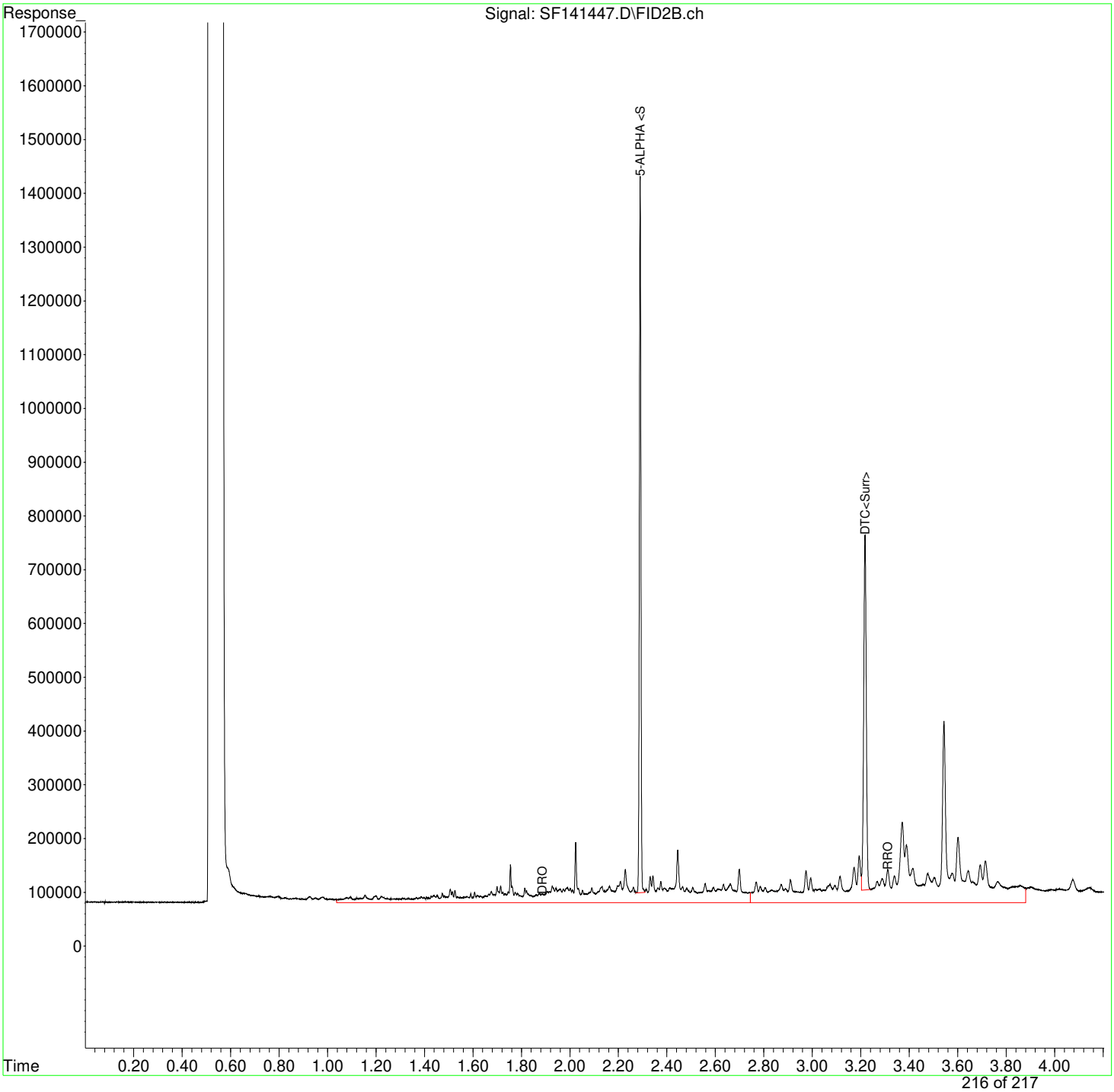
Integration File: autoint1.e
Quant Time: May 01 12:43:06 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418C.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Data Path : Z:\DATA\SF\Data\SF04292024.SEC\
Data File : SF141219.D
Signal(s) : FID2B.ch
Acq On : 29 Apr 2024 15:10
Operator : T.L
Sample : 1241713033 SG
Misc :
ALS Vial : 13 Sample Multiplier: 1

Revised Report - Revision 2

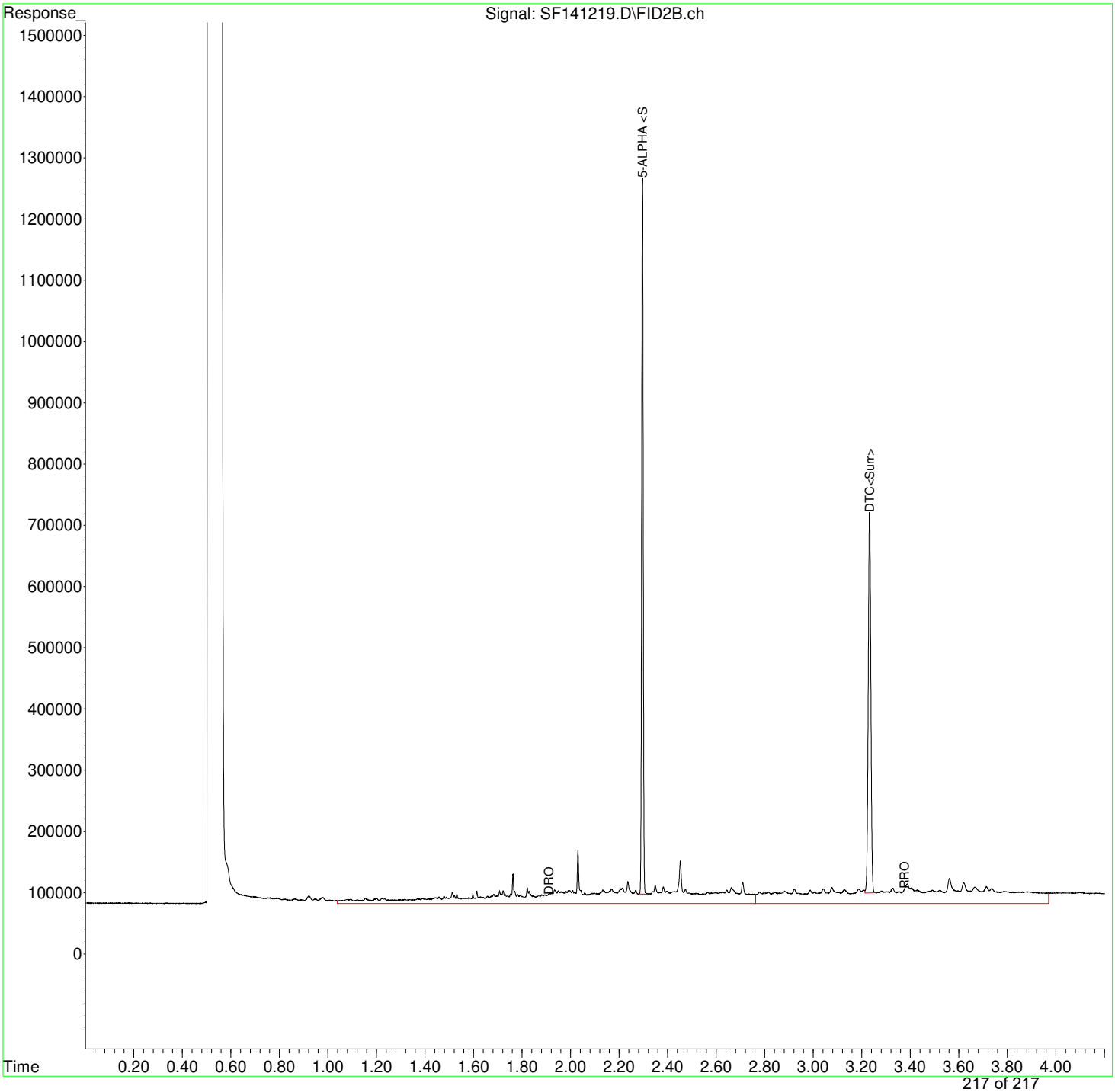
Integration File: autoint1.e
Quant Time: Apr 29 15:38:47 2024
Quant Method : Z:\DATA\SF\Method\SFR2024-0418B.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 25 14:14:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

AK102/103 - The hydrocarbon pattern for RRO is consistent with biogenics and the hydrocarbon pattern for DRO is unknown.

May 01, 2024

Tashi Lhamu



Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241732**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241732**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24SS201SP902 (1241732001) PS

No reportable data is available for this sample.

RIR24SS202SP94.5 (1241732002) PS

No reportable data is available for this sample.

RIR24SS203SP902 (1241732003) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS204SP94.5 (1241732004) PS

No reportable results are available for this sample.

RIR24SS205SP901 (1241732005) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS206SP903 (1241732006) PS

No reportable results are available for this sample.

RIR24SS207SP901 (1241732007) PS

No reportable results are available for this sample.

RIR24SS207SP9019 (1241732008) PS

No reportable results are available for this sample.

RIR24SS209BKG102 (1241732012) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS210BKG13.5 (1241732013) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS212BKG204 (1241732016) PS

No reportable results are available for this sample.

RIR24SS213SP902 (1241732017) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS214SP902 (1241732018) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS215SP902 (1241732019) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

RIR24SS216SP905 (1241732020) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241732**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

RIR24SS217SP91.5 (1241732021) PS

AK102 - Surrogate recovery for 5a-androstane does not meet QC criteria due to matrix interference.

1241732012MS (1761469) MS

9060A - Total Organic Carbon - MS recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

Revised Report - Revision 4 - This report has been reissued to report all available data for the analysis submitted. The workorder was initially cancelled by the client after analysis was begun but not completed, so QC outside of criteria does not have reruns or reextractions for result confirmation that would normally be performed per SGS SOP.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Member of SGS Group

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24SS201SP902	1241732001	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS202SP94.5	1241732002	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS203SP902	1241732003	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS204SP94.5	1241732004	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS205SP901	1241732005	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS206SP903	1241732006	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS207SP901	1241732007	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS207SP9019	1241732008	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS208SP92.5	1241732009	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS208SP...(1241732009BM	1241732010	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS208S...(1241732009BMS	1241732011	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS209BKG102	1241732012	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS210BKG13.5	1241732013	04/26/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS211BKG21.5	1241732014	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS211BKG21.59	1241732015	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS212BKG204	1241732016	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS213SP902	1241732017	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS214SP902	1241732018	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS215SP902	1241732019	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS216SP905	1241732020	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS217SP91.5	1241732021	04/27/2024	04/29/2024	Soil/Solid (dry weight)
RIR24SS218SP903	1241732022	04/27/2024	04/29/2024	Soil/Solid (dry weight)

Method	Method Description
AK102	Diesel Range Organics (S) 2
AK102	Diesel Range Organics w/ Silica Gel
SM21 2540G	Percent Solids SM2540G
SW9060A-Mod	Total Organic Carbon-M in Quad(S)

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Detectable Results Summary

Client Sample ID: **RIR24SS203SP902**
Lab Sample ID: 1241732003
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	584	mg/kg

Client Sample ID: **RIR24SS205SP901**
Lab Sample ID: 1241732005
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	1370	mg/kg

Client Sample ID: **RIR24SS208SP92.5**
Lab Sample ID: 1241732009
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	70.1	mg/kg

Client Sample ID: **RIR24SS209BKG102**
Lab Sample ID: 1241732012
Semivolatile Organic Fuels
Waters Department

Parameter	Result	Units
Diesel Range Organics	524	mg/kg
TOC Quad, Average	39.1	%
Total Organic Carbon	41.3	%
Total Organic Carbon 2	39.5	%
Total Organic Carbon 3	38.6	%
Total Organic Carbon 4	36.8	%

Client Sample ID: **RIR24SS210BKG13.5**
Lab Sample ID: 1241732013
Semivolatile Organic Fuels
Waters Department

Parameter	Result	Units
Diesel Range Organics	155	mg/kg
TOC Quad, Average	3.31	%
Total Organic Carbon	3.29	%
Total Organic Carbon 2	3.57	%
Total Organic Carbon 3	3.33	%
Total Organic Carbon 4	3.04	%

Client Sample ID: **RIR24SS211BKG21.5**
Lab Sample ID: 1241732014
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	337	mg/kg

Client Sample ID: **RIR24SS211BKG21.59**
Lab Sample ID: 1241732015
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	217	mg/kg

Client Sample ID: **RIR24SS213SP902**
Lab Sample ID: 1241732017
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	992	mg/kg

Client Sample ID: **RIR24SS214SP902**
Lab Sample ID: 1241732018
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	1720	mg/kg

Client Sample ID: **RIR24SS215SP902**
Lab Sample ID: 1241732019
Semivolatile Organic Fuels

Parameter	Result	Units
Diesel Range Organics	831	mg/kg

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Detectable Results Summary

Client Sample ID: **RIR24SS216SP905**
Lab Sample ID: 1241732020

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	181	mg/kg

Client Sample ID: **RIR24SS217SP91.5**
Lab Sample ID: 1241732021

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	1010	mg/kg

Client Sample ID: **RIR24SS218SP903**
Lab Sample ID: 1241732022

	Parameter	Result	Units
Semivolatile Organic Fuels	Diesel Range Organics	12.7J	mg/kg
Semivolatile Organic Fuels Department, Silica	DRO Silica Gel	10.6J	mg/kg

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Results of **RIR24SS203SP902**

Client Sample ID: **RIR24SS203SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732003
Lab Project ID: 1241732

Collection Date: 04/26/24 10:40
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):20.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	584		95.6	43.0	71.7	mg/kg	1		04/29/24 18:00
Surrogates									
5a Androstane (surr)	168	*	50-150			%	1		04/29/24 18:00

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:00
Container ID: 1241732003-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.849 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS205SP901**

Client Sample ID: **RIR24SS205SP901**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732005
Lab Project ID: 1241732

Collection Date: 04/26/24 11:15
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):19.7
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1370		101	45.3	75.8	mg/kg	1		04/29/24 18:10
Surrogates									
5a Androstane (surr)	338	*	50-150			%	1		04/29/24 18:10

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:10
Container ID: 1241732005-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.726 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS208SP92.5**

Client Sample ID: **RIR24SS208SP92.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732009
Lab Project ID: 1241732

Collection Date: 04/26/24 12:38
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):84.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	70.1		23.6	10.6	17.7	mg/kg	1		04/29/24 19:50
Surrogates									
5a Androstane (surr)	115		50-150			%	1		04/29/24 19:50

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 19:50
Container ID: 1241732009-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.539 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS209BKG102**

Client Sample ID: **RIR24SS209BKG102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732012
Lab Project ID: 1241732

Collection Date: 04/26/24 15:36
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):22.6
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	524		87.8	39.5	65.8	mg/kg	1		04/29/24 18:19
Surrogates									
5a Androstane (surr)	206	*	50-150			%	1		04/29/24 18:19

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:19
Container ID: 1241732012-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.68 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS209BKG102**

Client Sample ID: **RIR24SS209BKG102**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732012
Lab Project ID: 1241732

Collection Date: 04/26/24 15:36
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):22.6
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
TOC Quad, Average	39.1		1.04	0.311	0.780	%	1		04/29/24 13:17
Total Organic Carbon	41.3		1.04	0.311	0.780	%	1		04/29/24 13:17
Total Organic Carbon 2	39.5		1.04	0.311	0.780	%	1		04/29/24 13:17
Total Organic Carbon 3	38.6		1.04	0.311	0.780	%	1		04/29/24 13:17
Total Organic Carbon 4	36.8		1.04	0.311	0.780	%	1		04/29/24 13:17

Batch Information

Analytical Batch: WTC3404
Analytical Method: SW9060A-Mod
Analyst: EBH
Analytical Date/Time: 04/29/24 13:17
Container ID: 1241732012-B

Prep Batch: WXX15209
Prep Method: METHOD
Prep Date/Time: 04/29/24 11:00
Prep Initial Wt./Vol.: 106.6 mg
Prep Extract Vol: 1 mL

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Results of **RIR24SS210BKG13.5**

Client Sample ID: **RIR24SS210BKG13.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732013
Lab Project ID: 1241732

Collection Date: 04/26/24 15:38
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):69.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	155		28.6	12.9	21.5	mg/kg	1		04/29/24 18:29
Surrogates									
5a Androstane (surr)	188	*	50-150			%	1		04/29/24 18:29

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:29
Container ID: 1241732013-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.645 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS210BKG13.5**

Client Sample ID: **RIR24SS210BKG13.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732013
Lab Project ID: 1241732

Collection Date: 04/26/24 15:38
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):69.5
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
TOC Quad, Average	3.31		0.115	0.0344	0.0863	%	1		04/29/24 15:53
Total Organic Carbon	3.29		0.115	0.0344	0.0863	%	1		04/29/24 15:53
Total Organic Carbon 2	3.57		0.115	0.0344	0.0863	%	1		04/29/24 15:53
Total Organic Carbon 3	3.33		0.115	0.0344	0.0863	%	1		04/29/24 15:53
Total Organic Carbon 4	3.04		0.115	0.0344	0.0863	%	1		04/29/24 15:53

Batch Information

Analytical Batch: WTC3404
Analytical Method: SW9060A-Mod
Analyst: EBH
Analytical Date/Time: 04/29/24 15:53
Container ID: 1241732013-B

Prep Batch: WXX15209
Prep Method: METHOD
Prep Date/Time: 04/29/24 11:00
Prep Initial Wt./Vol.: 313.4 mg
Prep Extract Vol: 1 mL

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Results of **RIR24SS211BKG21.5**

Client Sample ID: **RIR24SS211BKG21.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732014
Lab Project ID: 1241732

Collection Date: 04/27/24 09:06
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):42.4
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	337		46.4	20.9	34.8	mg/kg	1		04/29/24 18:39
Surrogates									
5a Androstane (surr)	153	*	50-150			%	1		04/29/24 18:39

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:39
Container ID: 1241732014-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.852 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS211BKG21.59**

Client Sample ID: **RIR24SS211BKG21.59**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732015
Lab Project ID: 1241732

Collection Date: 04/27/24 09:07
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):27.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	217		72.6	32.7	54.4	mg/kg	1		04/29/24 18:49
Surrogates									
5a Androstane (surr)	133		50-150			%	1		04/29/24 18:49

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:49
Container ID: 1241732015-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.774 g
Prep Extract Vol: 2 mL

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Results of **RIR24SS213SP902**

Client Sample ID: **RIR24SS213SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732017
Lab Project ID: 1241732

Collection Date: 04/27/24 14:30
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):41.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	992		47.4	21.3	35.5	mg/kg	1		04/29/24 18:58
Surrogates									
5a Androstane (surr)	338	*	50-150			%	1		04/29/24 18:58

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 18:58
Container ID: 1241732017-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.86 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS214SP902**

Client Sample ID: **RIR24SS214SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732018
Lab Project ID: 1241732

Collection Date: 04/27/24 14:50
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):14.9
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1720		132	59.6	99.0	mg/kg	1		04/29/24 19:08
Surrogates									
5a Androstane (surr)	214	*	50-150			%	1		04/29/24 19:08

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 19:08
Container ID: 1241732018-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.75 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS215SP902**

Client Sample ID: **RIR24SS215SP902**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732019
Lab Project ID: 1241732

Collection Date: 04/27/24 15:10
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):35.5
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	831		56.3	25.3	42.2	mg/kg	1		04/29/24 19:18
Surrogates									
5a Androstane (surr)	316	*	50-150			%	1		04/29/24 19:18

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 19:18
Container ID: 1241732019-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.524 g
Prep Extract Vol: 2 mL

Results of **RIR24SS216SP905**

Client Sample ID: **RIR24SS216SP905**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732020
Lab Project ID: 1241732

Collection Date: 04/27/24 15:12
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):67.2
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	181		29.4	13.2	22.0	mg/kg	1		04/29/24 19:30
Surrogates									
5a Androstane (surr)	179	*	50-150			%	1		04/29/24 19:30

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 19:30
Container ID: 1241732020-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.804 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS217SP91.5**

Client Sample ID: **RIR24SS217SP91.5**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732021
Lab Project ID: 1241732

Collection Date: 04/27/24 15:30
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):16.0
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	1010		124	55.6	93.0	mg/kg	1		04/29/24 19:40
Surrogates									
5a Androstane (surr)	187	*	50-150			%	1		04/29/24 19:40

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/29/24 19:40
Container ID: 1241732021-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.816 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS218SP903**

Client Sample ID: **RIR24SS218SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732022
Lab Project ID: 1241732

Collection Date: 04/27/24 15:32
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):86.3
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	12.7	J	23.1	10.4	17.3	mg/kg	1		04/30/24 16:03
Surrogates									
5a Androstane (surr)	122		50-150			%	1		04/30/24 16:03

Batch Information

Analytical Batch: XFC16845
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 04/30/24 16:03
Container ID: 1241732022-A

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.563 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Results of **RIR24SS218SP903**

Client Sample ID: **RIR24SS218SP903**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241732022
Lab Project ID: 1241732

Collection Date: 04/27/24 15:32
Received Date: 04/29/24 08:03
Matrix: Soil/Solid (dry weight)
Solids (%):86.3
Location:

Results by **Semivolatile Organic Fuels Department, Silica G**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
DRO Silica Gel	10.6	J	23.1	10.4	17.3	mg/kg	1		04/30/24 16:13
Surrogates									
5a Androstane (surr)	99.5		50-150			%	1		04/30/24 16:13

Batch Information

Analytical Batch: XFC16846
Analytical Method: AK102-
Analyst: T.L
Analytical Date/Time: 04/30/24 16:13
Container ID: 1241732022-A

Prep Batch: XXX49381
Prep Method: SW3550C w/SG Cleanup-SG
Prep Date/Time: 04/29/24 13:00
Prep Initial Wt./Vol.: 22.563 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:20PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1876786 [SPT/12029]
Blank Lab ID: 1761489

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241732001, 1241732002, 1241732003, 1241732004, 1241732005, 1241732006, 1241732007, 1241732008, 1241732009, 1241732012, 1241732013, 1241732014, 1241732015, 1241732016, 1241732017, 1241732018, 1241732019, 1241732020, 1241732021, 1241732022

Results by **SM21 2540G**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Solids	100				%

Batch Information

Analytical Batch: SPT12029
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT
Analytical Date/Time: 4/29/2024 7:35:00PM

Print Date: 12/04/2024 4:12:23PM

Duplicate Sample Summary

Original Sample ID: 1241729012
Duplicate Sample ID: 1761491
QC for Samples:

Analysis Date: 04/29/2024 19:35
Matrix: Soil/Solid (dry weight)

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	91.2	92.3	%	1.10	(< 15)

Batch Information

Analytical Batch: SPT12029
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 12/04/2024 4:12:25PM

Duplicate Sample Summary

Original Sample ID: 1241729018
Duplicate Sample ID: 1761492
Analysis Date: 04/29/2024 19:35
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241732001, 1241732002, 1241732003, 1241732004, 1241732005, 1241732006

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	84.8	86.2	%	1.60	(< 15)

Batch Information

Analytical Batch: SPT12029
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 12/04/2024 4:12:25PM

Duplicate Sample Summary

Original Sample ID: 1241732006
Duplicate Sample ID: 1761493

Analysis Date: 04/29/2024 19:35
Matrix: Soil/Solid (dry weight)

QC for Samples:

1241732001, 1241732002, 1241732003, 1241732004, 1241732005, 1241732006, 1241732007, 1241732008, 1241732009, 1241732012, 1241732013, 1241732014, 1241732015, 1241732016, 1241732017, 1241732018,

Results by **SM21 2540G**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Solids	79.0	77.8	%	1.60	(< 15)

Batch Information

Analytical Batch: SPT12029
Analytical Method: SM21 2540G
Instrument:
Analyst: DAT

Print Date: 12/04/2024 4:12:25PM

Method Blank

Blank ID: MB for HBN 1876779 [WXX/15209]
Blank Lab ID: 1761466

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241732012, 1241732013

Results by **SW9060A-Mod**

Parameter	Results	LOQ/CL	DL	LOD	Units
Total Organic Carbon	0.0375U	0.0500	0.0150	0.0375	%

Batch Information

Analytical Batch: WTC3404
Analytical Method: SW9060A-Mod
Instrument: TOC Analyzer 2
Analyst: EBH
Analytical Date/Time: 4/29/2024 12:32:22PM

Prep Batch: WXX15209
Prep Method: METHOD
Prep Date/Time: 4/29/2024 11:00:00AM
Prep Initial Wt./Vol.: 500 mg
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1241732 [WXX15209]
Blank Spike Lab ID: 1761467
Date Analyzed: 04/29/2024 12:58

Spike Duplicate ID: LCSD for HBN 1241732 [WXX15209]
Spike Duplicate Lab ID: 1761468
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241732012, 1241732013

Results by **SW9060A-Mod**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Organic Carbon	3.35	3.65	109	3.35	3.64	109	(75-125)	0.22	(< 25)

Batch Information

Analytical Batch: **WTC3404**
Analytical Method: **SW9060A-Mod**
Instrument: **TOC Analyzer 2**
Analyst: **EBH**

Prep Batch: **WXX15209**
Prep Method: **METHOD**
Prep Date/Time: **04/29/2024 11:00**
Spike Init Wt./Vol.: 3.35 % Extract Vol: 1 mL
Dupe Init Wt./Vol.: 3.35 % Extract Vol: 1 mL

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Matrix Spike Summary

Original Sample ID: 1241732012
MS Sample ID: 1761469 MS
MSD Sample ID:

Analysis Date: 04/29/2024 13:17
Analysis Date: 04/29/2024 13:47
Analysis Date:
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241732012, 1241732013

Results by **SW9060A-Mod**

		Matrix Spike (%)			Spike Duplicate (%)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Organic Carbon	41.3	7.70	51.3	130 *				75-125		

Batch Information

Analytical Batch: WTC3404
Analytical Method: SW9060A-Mod
Instrument: TOC Analyzer 2
Analyst: EBH
Analytical Date/Time: 4/29/2024 1:47:46PM

Prep Batch: WXX15209
Prep Method: TOC Soils Prep (S)
Prep Date/Time: 4/29/2024 11:00:00AM
Prep Initial Wt./Vol.: 57.50mg
Prep Extract Vol: 1.00mL

Print Date: 12/04/2024 4:12:34PM

Method Blank

Blank ID: MB for HBN 1876761 [XXX/49380]
Blank Lab ID: 1761404

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241732002, 1241732003, 1241732005, 1241732009, 1241732012, 1241732013, 1241732014, 1241732015, 1241732017, 1241732018, 1241732019, 1241732020, 1241732021, 1241732022

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	15.0U	20.0	9.00	15.0	mg/kg
Surrogates					
5a Androstane (surr)	108	60-120		0	%

Batch Information

Analytical Batch: XFC16845
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/30/2024 2:55:00PM

Prep Batch: XXX49380
Prep Method: SW3550C
Prep Date/Time: 4/29/2024 1:00:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:36PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241732 [XXX49380]
Blank Spike Lab ID: 1761405
Date Analyzed: 04/30/2024 15:04

Spike Duplicate ID: LCSD for HBN 1241732 [XXX49380]
Spike Duplicate Lab ID: 1761406
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241732002, 1241732003, 1241732005, 1241732009, 1241732012, 1241732013, 1241732014, 1241732015, 1241732017, 1241732018, 1241732019, 1241732020, 1241732021, 1241732022

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	444	548	123	444	535	120	(75-125)	2.30	(< 20)
Surrogates									
5a Androstane (surr)	8.89		119	8.89		120	(60-120)	0.54	

Batch Information

Analytical Batch: **XFC16845**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49380**
Prep Method: **SW3550C**
Prep Date/Time: **04/29/2024 13:00**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241732009
MS Sample ID: 1241732010 BMS
MSD Sample ID: 1241732011 BMSD

Analysis Date: 04/29/2024 19:50
Analysis Date: 04/29/2024 20:00
Analysis Date: 04/29/2024 20:09
Matrix: Soil/Solid (dry weight)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	70.1	524	631	107	521	644	110	60-140	2.10	(< 50)
Surrogates										
5a Androstane (surr)		10.5	11.7	111	10.4	12.0	115	50-150	2.30	

Batch Information

Analytical Batch: XFC16844
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/29/2024 8:00:00PM

Prep Batch: XXX49380
Prep Method: Sonication Extr Soil AK102/3 Reg 2Ml
Prep Date/Time: 4/29/2024 1:00:00PM
Prep Initial Wt./Vol.: 22.56g
Prep Extract Vol: 2.00mL

Print Date: 12/04/2024 4:12:40PM

Method Blank

Blank ID: MB for HBN 1876763 [XXX/49381]
Blank Lab ID: 1761407

Matrix: Soil/Solid (dry weight)

QC for Samples:
1241732002, 1241732003, 1241732005, 1241732009, 1241732012, 1241732014, 1241732015, 1241732017, 1241732018, 1241732019, 1241732020, 1241732021, 1241732022

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
DRO Silica Gel	30.0U	40.0	18.0	30.0	mg/kg
Surrogates					
5a Androstane (surr)	97.1	70-125		0	%

Batch Information

Analytical Batch: XFC16846
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 4/30/2024 4:32:00PM

Prep Batch: XXX49381
Prep Method: SW3550C w/SG Cleanup
Prep Date/Time: 4/29/2024 1:00:00PM
Prep Initial Wt./Vol.: 22.5 g
Prep Extract Vol: 2 mL

Print Date: 12/04/2024 4:12:42PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241732 [XXX49381]
Blank Spike Lab ID: 1761408
Date Analyzed: 04/30/2024 16:42

Spike Duplicate ID: LCSD for HBN 1241732 [XXX49381]
Spike Duplicate Lab ID: 1761409
Matrix: Soil/Solid (dry weight)

QC for Samples: 1241732002, 1241732003, 1241732005, 1241732009, 1241732012, 1241732014, 1241732015, 1241732017, 1241732018, 1241732019, 1241732020, 1241732021, 1241732022

Results by **AK102**

	Blank Spike (mg/kg)			Spike Duplicate (mg/kg)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
DRO Silica Gel	444	493	111	444	507	114	(70-125)	3.00	(< 20)
Surrogates									
5a Androstane (surr)	8.89		107	8.89		113	(70-125)	5.40	

Batch Information

Analytical Batch: **XFC16846**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **T.L**

Prep Batch: **XXX49381**
Prep Method: **SW3550C w/SG Cleanup**
Prep Date/Time: **04/29/2024 13:00**
Spike Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL
Dupe Init Wt./Vol.: 8.89 mg/kg Extract Vol: 2 mL

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Nelson, Justin (Anchorage)

From: Nelson, Justin (Anchorage)
Sent: Wednesday, May 1, 2024 5:16 PM
To: Env.Alaska.RcvgLogin
Cc: ENV.ALASKA.GCSEMIVOL
Subject: 1241713, 1241732

This project has completed, we can cancel remaining work for the two above referenced workorders.

Keep work already completed in invoicing, and save this email as a change order for each workorder.

Thanks!

Justin A. Nelson
Industries & Environment
Client Service Manager, Alaska
SGS North America Inc.
200 West Potter Drive
99518 – Anchorage
Mobile : +01 907 206 1339
E-mail: Justin.Nelson@sgs.com

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CHAIN OF CUSTODY RECORD

Revised Report Revision: **1241732**

Profile #409567

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	TALCES JV, LLC		
CONTACT:	Greg DuBois	PHONE #:	1 (907) 830-8360
PROJECT NAME:	Ralston Island RI	PROJECT/ PWSID/ PERMIT#:	697DCK-24-C-00040
REPORTS TO:	Julie Dahl	E-MAIL:	jdahl@alaskapeninsulacorp.com
		Profile #:	
INVOICE TO:	TALCES JV, LLC	QUOTE #:	
		P.O. #:	Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	4°C DRO-SG	TOC	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS REMARKS/LOC ID
1A	RIR24SS201SP902	4/26/24	1025	SO	1	Grab		X		
2A	RIR24SS202SP9 4.5	4/26/24	1027	SO	1	Grab		X		
3A	RIR24SS203SP9 02	4/26/24	1040	SO	1	Grab		X		
4A	RIR24SS204SP9 4.5	4/26/24	1042	SO	1	Grab		X		
5A	RIR24SS 205SP9 01	4/26/24	1115	SO	1	Grab		X		
6A	RIR24SS206SP9 03	4/26/24	1117	SO	1	Grab		X		
7A	RIR24SS207SP901	4/26/24	1236	SO	1	Grab		X		
8A	RIR24SS 207SP9019	4/26/24	1237	SO	1	Grab		X		
9-11AQ	RIR24SS 208SP92.5	4/26/24	1238	SO	3	Grab		X		MS/MSD
12AB	RIR24SS209BKG102	4/26/24	1536	SO	2	Grab		X	X	

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/27/24	1800	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/29/24	8:03	Received For Laboratory By: Jeremy Groth

Section 4

DOD Project? Yes No

Cooler ID: BIR005

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

24 HR RAPID TURNAROUND

Temp Blank °C: 2.3 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT FOR BM

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

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CHAIN OF CUSTODY RECORD

1241732

Revised Report - Revision 4

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C AK102 HOLD	4°C DRO-SG	TOC	NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS REMARKS/LOC ID
13AB	RIR24SS210BKG13.5	4/26/24	1538	SO	2	Grab		X	X	
14A	RIR24SS211BKG21.5	4/27/24	0906	SO	1	Grab		X		
15A	RIR24SS211BKG21.5D	4/27/24	0907	SO	1	Grab		X		
16A	RIR24SS212BKG204	4/27/24	0908	SO	1	Grab		X		
17A	RIR24SS213SP9 02	4/27/24	1430	SO	1	Grab		X		
18A	RIR24SS214SP9 02	4/27/24	1450	SO	1	Grab		X		
19A	RIR24SS215SP9 02	4/27/24	1510	SO	1	Grab		X		
20A	RIR24SS216SP9 06	4/27/24	1512	SO	1	Grab		X		
21A	RIR24SS217SP9 1.5	4/27/24	1530	SO	1	Grab		X		
22A	RIR24SS218SP9 03	4/27/24	1532	SO	1	Grab		X		

Section 5

	Date	Time	Received By:
Relinquished By: (1) ~~Robert Melrose~~	4/27/24		
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	4/29/24	8:03	Received For Laboratory By: Jeremy Groth

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: RIRQ05

Requested Turnaround Time and/or Special Instructions:

24 HR RAPID TURNAROUND

Temp Blank °C: 2.3 D21 or Ambient [ ]

Chain of Custody Seal: (Circle) FED EX INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [X]

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F083-Blank_COC_20181228

1241732

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SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT? (Pre approved) 24-hrs
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	MS / MSD
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials: APS
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241732001-A	No Preservative Required	OK			
1241732002-A	No Preservative Required	OK			
1241732003-A	No Preservative Required	OK			
1241732004-A	No Preservative Required	OK			
1241732005-A	No Preservative Required	OK			
1241732006-A	No Preservative Required	OK			
1241732007-A	No Preservative Required	OK			
1241732008-A	No Preservative Required	OK			
1241732009-A	No Preservative Required	OK			
1241732009-B	No Preservative Required	OK			
1241732009-C	No Preservative Required	OK			
1241732010-A	No Preservative Required	OK			
1241732010-B	No Preservative Required	OK			
1241732010-C	No Preservative Required	OK			
1241732011-A	No Preservative Required	OK			
1241732011-B	No Preservative Required	OK			
1241732011-C	No Preservative Required	OK			
1241732012-A	No Preservative Required	OK			
1241732012-B	No Preservative Required	OK			
1241732013-A	No Preservative Required	OK			
1241732013-B	No Preservative Required	OK			
1241732014-A	No Preservative Required	OK			
1241732015-A	No Preservative Required	OK			
1241732016-A	No Preservative Required	OK			
1241732017-A	No Preservative Required	OK			
1241732018-A	No Preservative Required	OK			
1241732019-A	No Preservative Required	OK			
1241732020-A	No Preservative Required	OK			
1241732021-A	No Preservative Required	OK			
1241732022-A	No Preservative Required	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:34:26 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

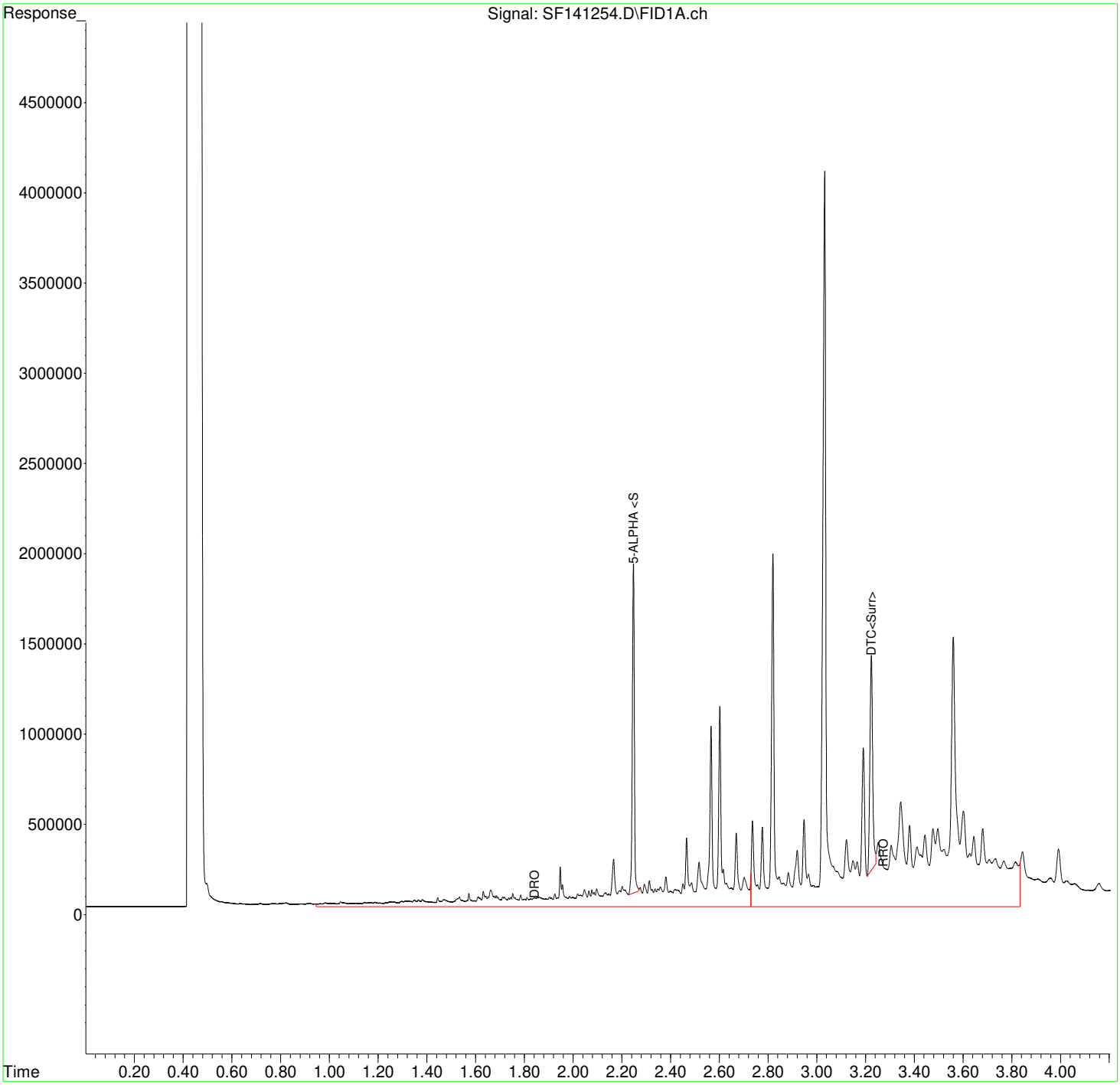
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.248	10564481	167.933	µg/mLm
4) S	DTC<Surr>	3.224	9501922	172.871	µg/mLm
	Target Compounds				
1) H	DRO	1.838	79472514	1375.986	µg/mL
3) H	RRO	3.282	222251560	7849.075	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:34:26 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

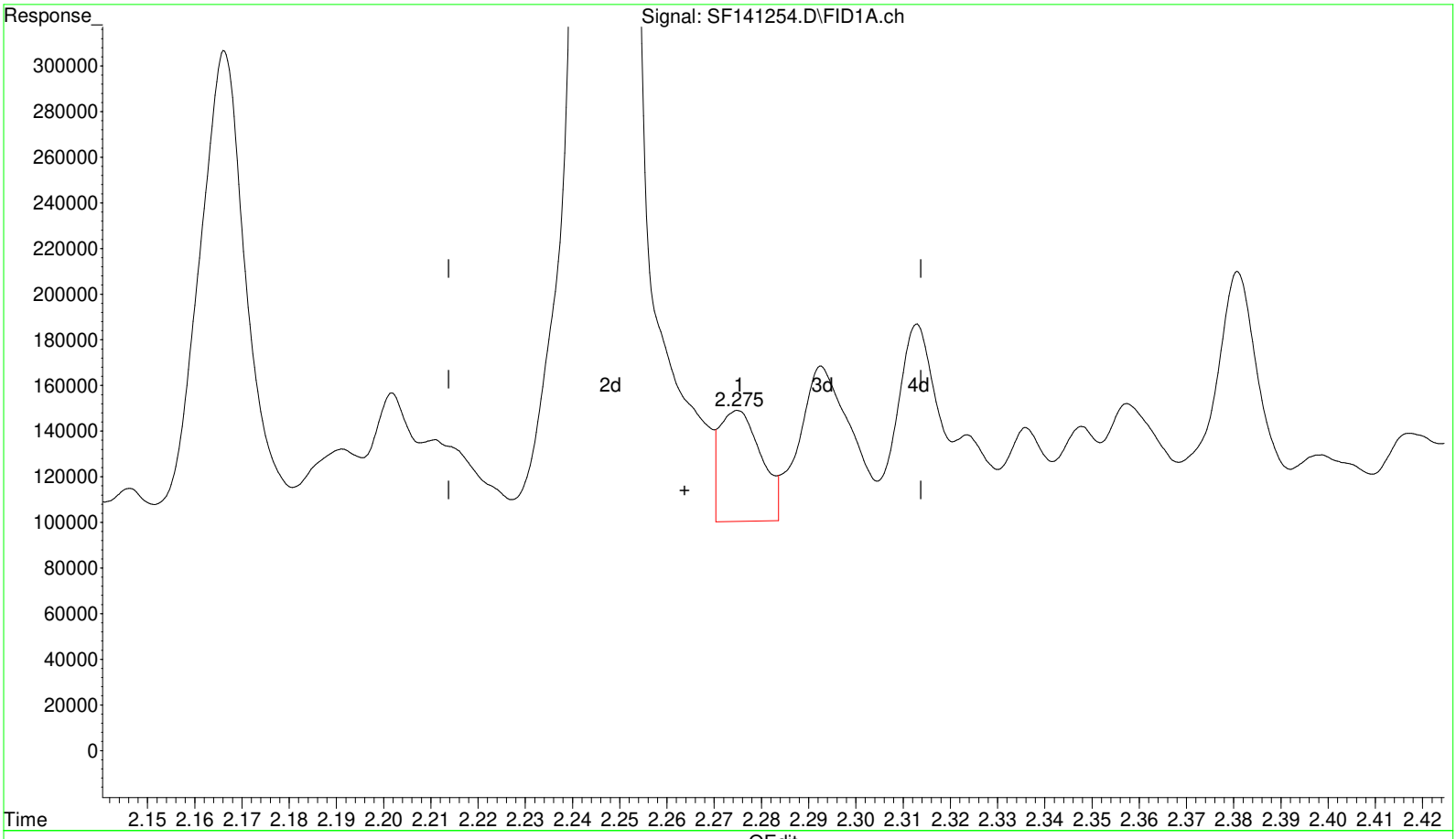


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:31:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.275min 4.777 µg/mL

response 300487

O-RP
Apr 30, 2024

Zashid Khamu

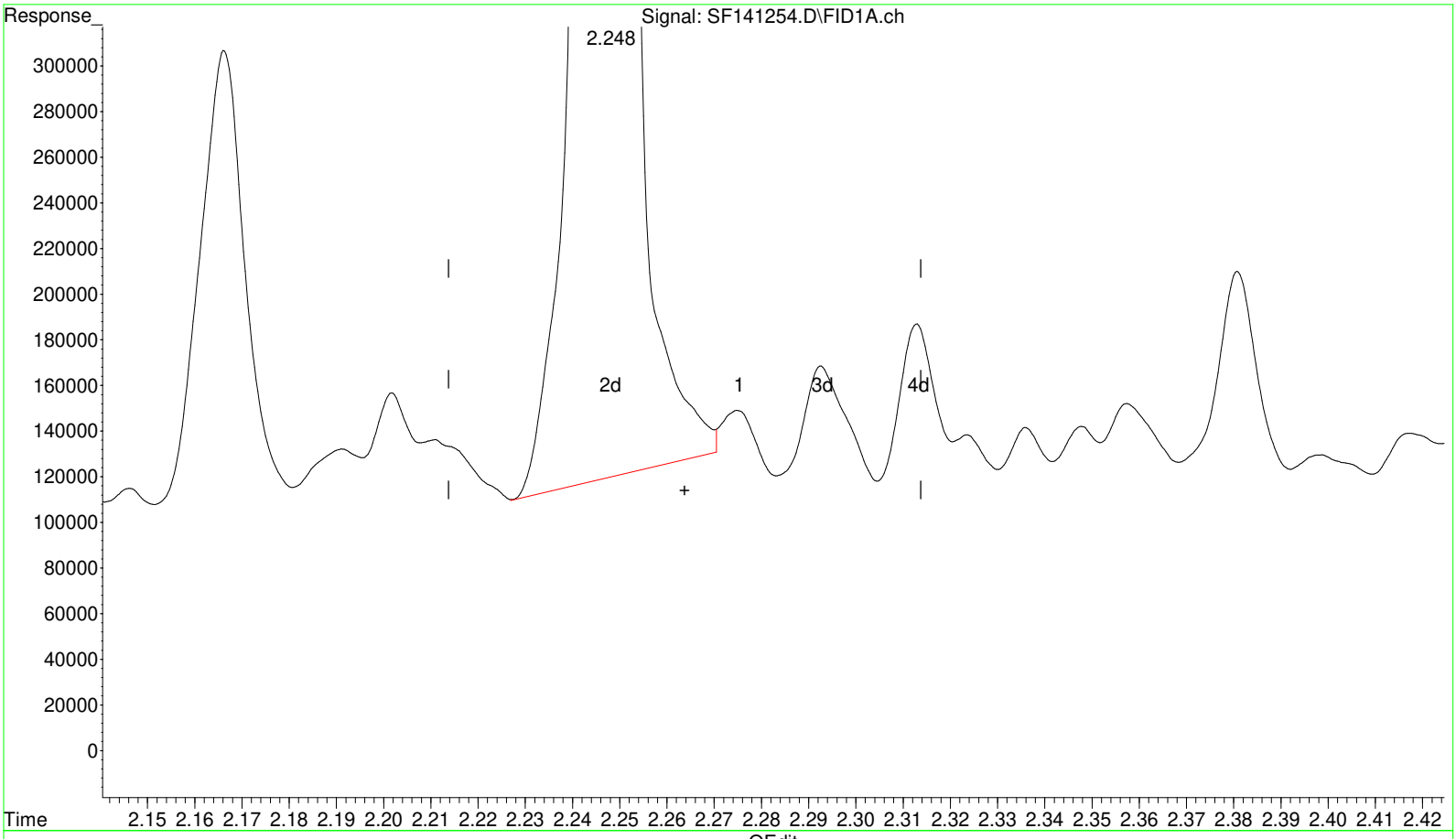
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:31:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.248min 167.933 µg/mL m

response 10564481

M-RP

Apr 30, 2024

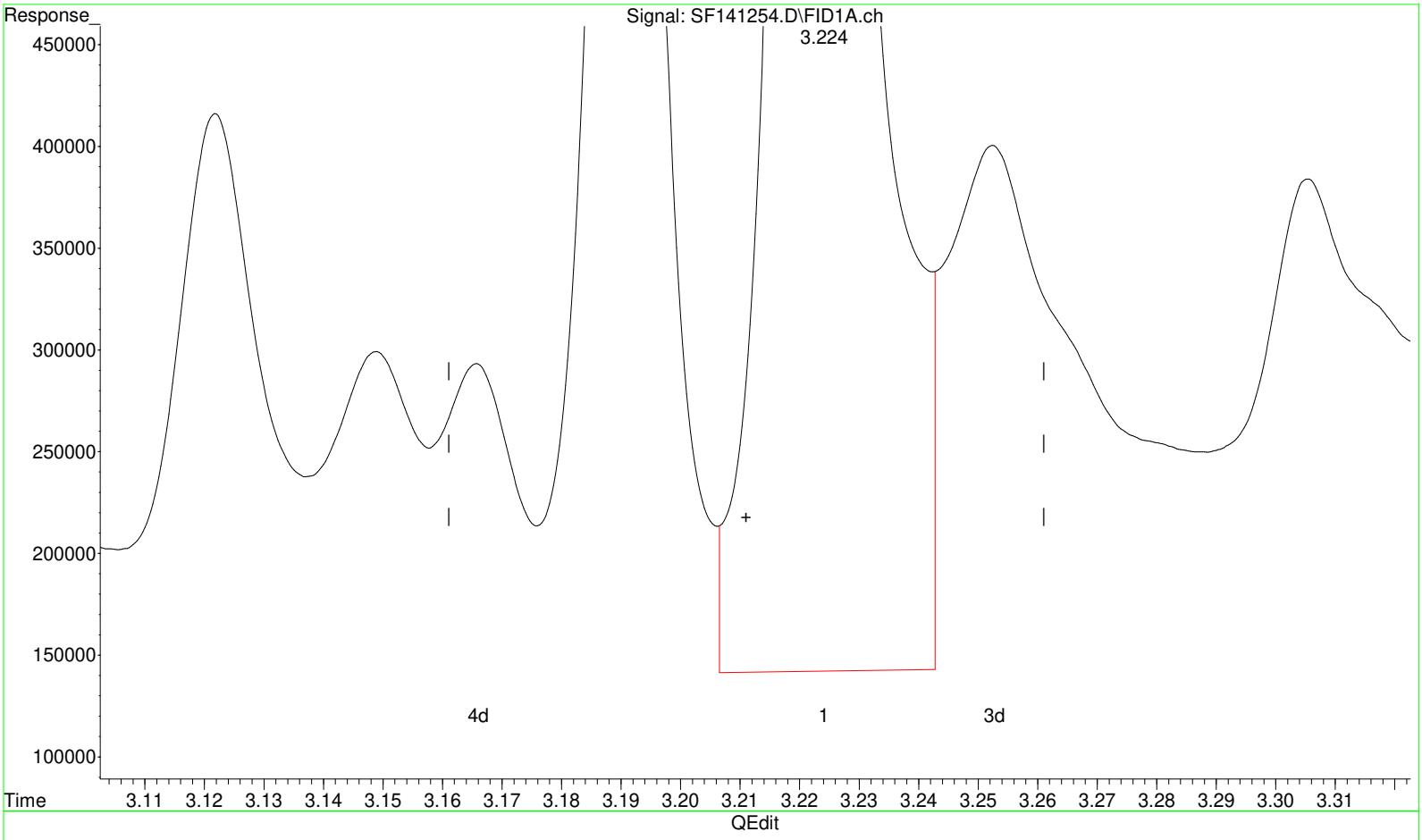
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:31:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 213.726 µg/mL

response 11747527

O-BLC

Apr 30, 2024

Tashi Lhamu

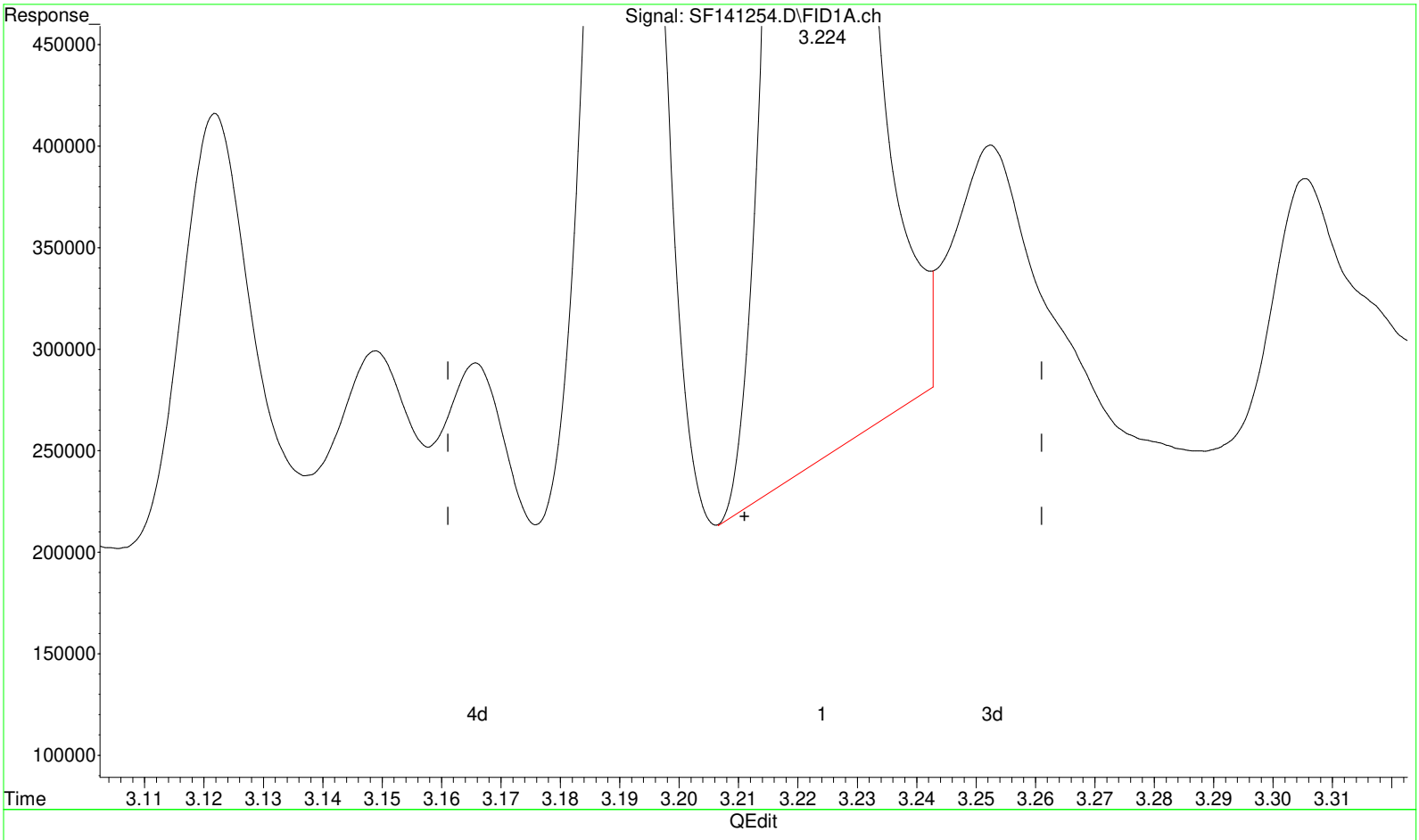
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141254.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:00
Operator : T.L
Sample : 1241732003
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:31:04 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 172.871 µg/mL m

response 9501922

M-BLC
Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141256.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:10
Operator : T.L
Sample : 1241732005
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:17 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

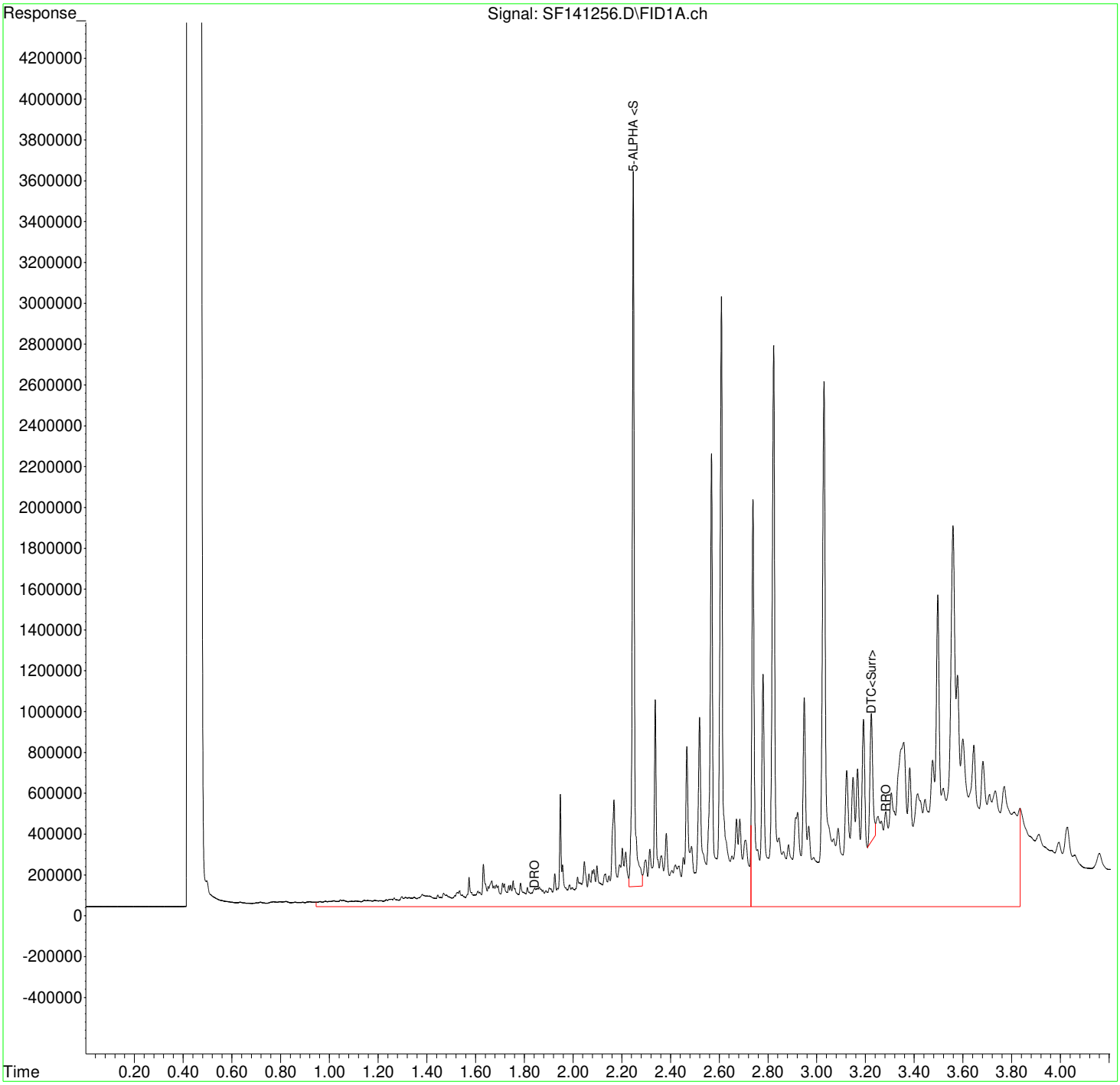
	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
2) S	5-ALPHA <Surr>	2.248	21289434	338.417 µg/mL
4) S	DTC<Surr>	3.224	5072993	92.294 µg/mLm
	Target Compounds			
1) H	DRO	1.838	166483118	3050.839 µg/mL
3) H	RRO	3.282	370792856	13275.472 µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141256.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:10
Operator : T.L
Sample : 1241732005
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:17 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

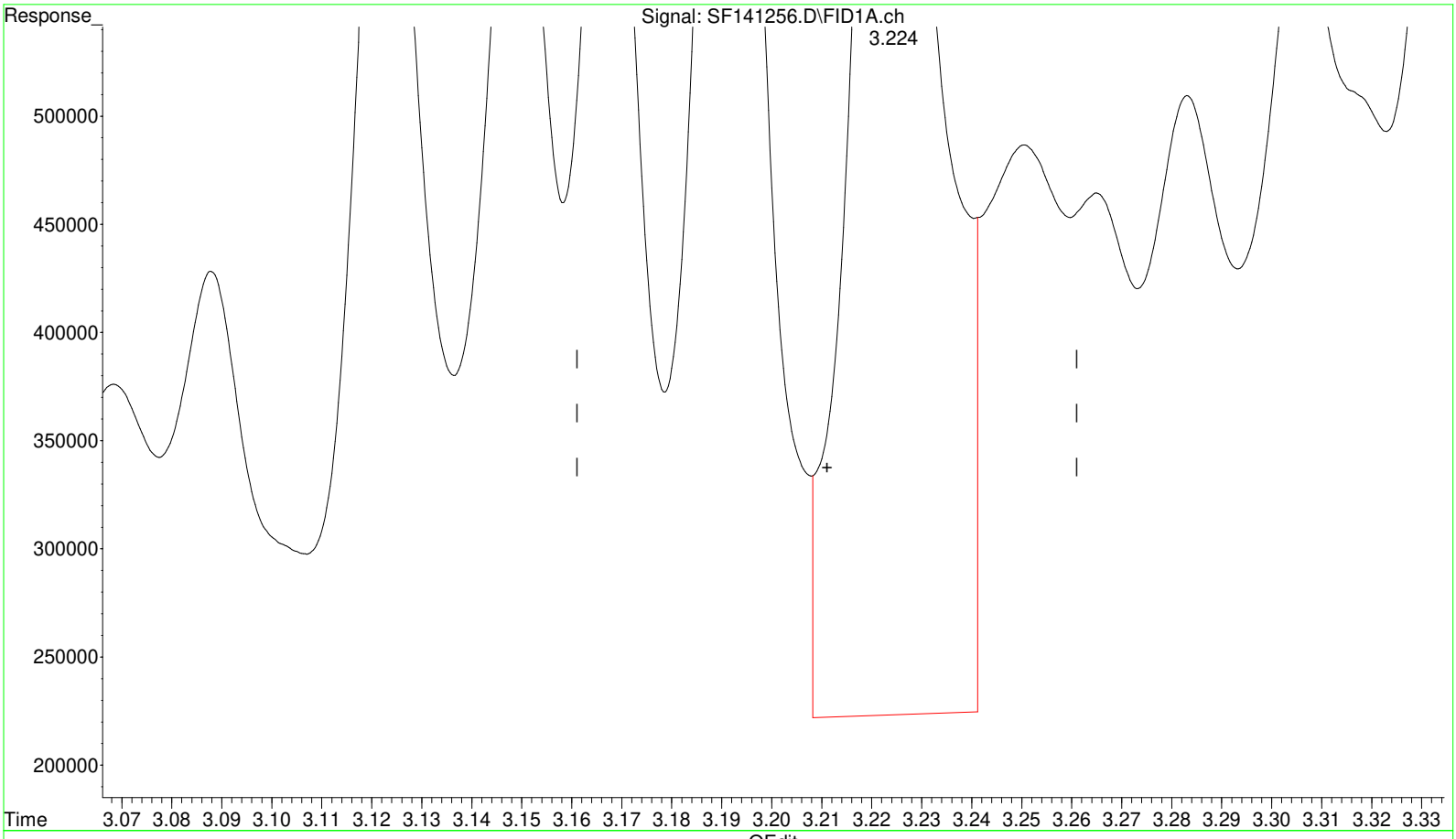


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141256.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:10
Operator : T.L
Sample : 1241732005
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:27:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 142.644 µg/mL

response 7840501

O-BLC

Apr 30, 2024

Zashid Hamu

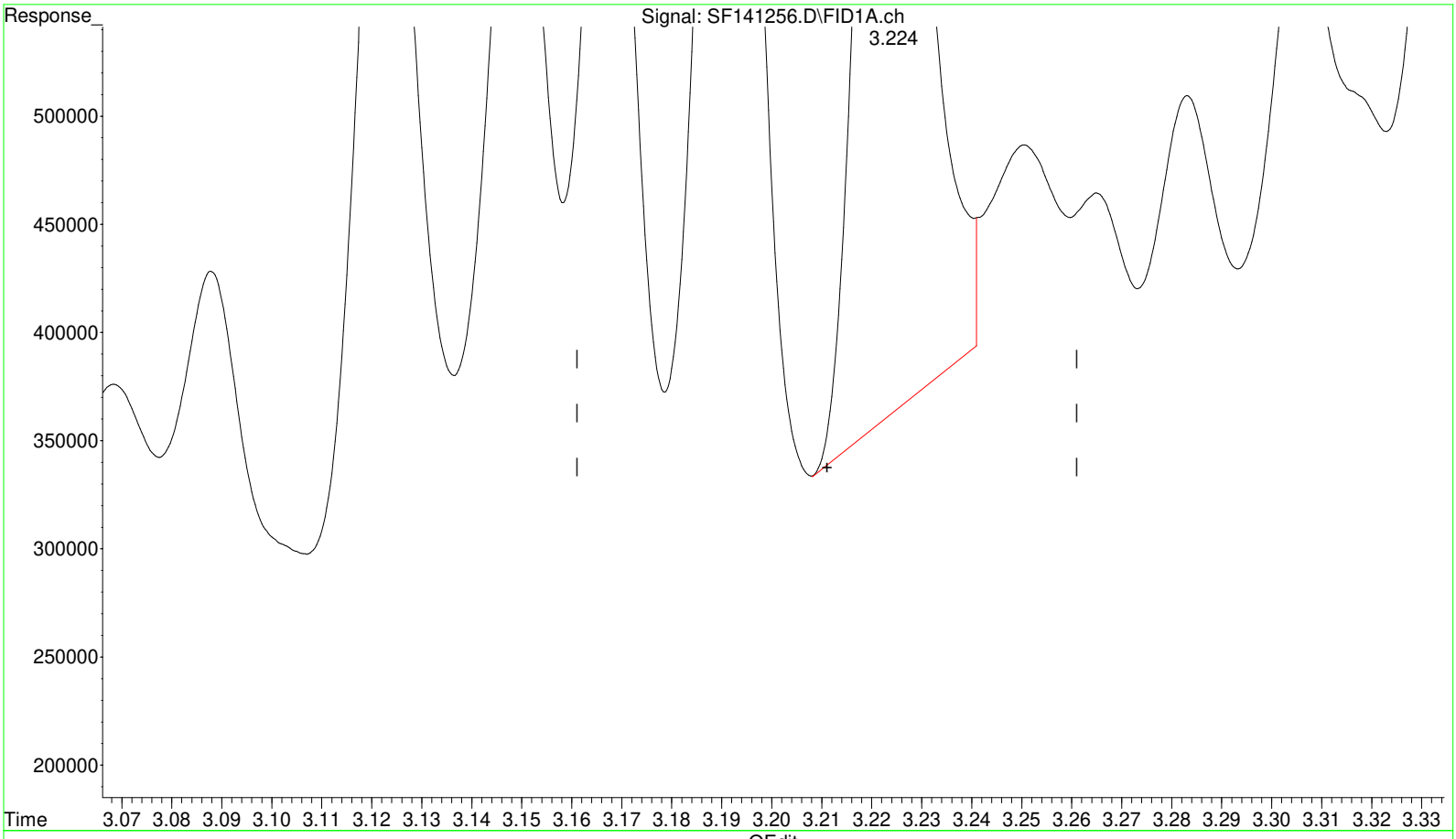
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141256.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:10
Operator : T.L
Sample : 1241732005
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:27:59 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 92.294 µg/mL m

response 5072993

M-BLC
Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141276.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:50
Operator : T.L
Sample : 1241732009 PS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:50:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

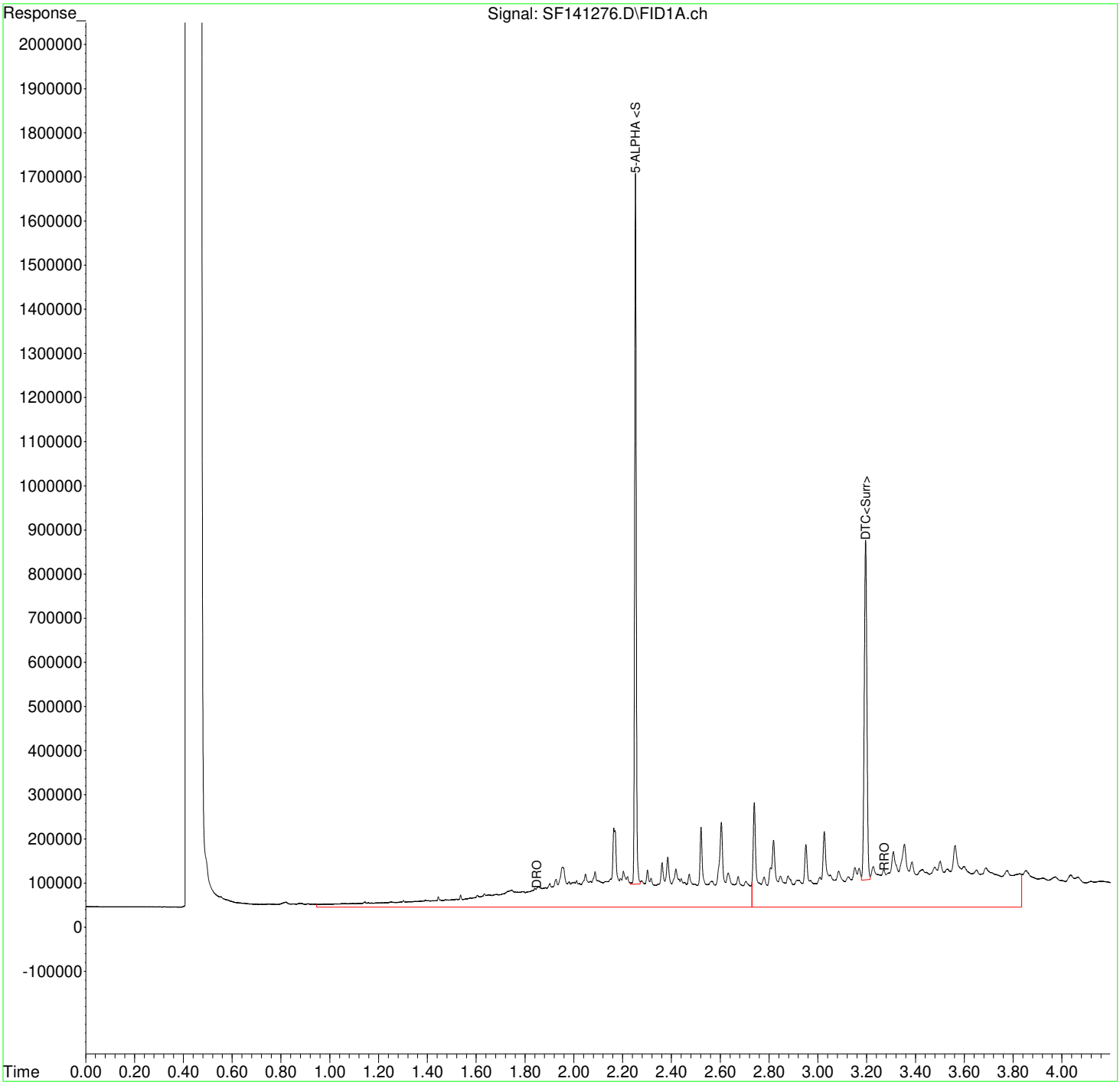
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.253	7264474	115.476	µg/mL
4) S	DTC<Surr>	3.196	5810164	105.706	µg/mL
	Target Compounds				
1) H	DRO	1.838	42695979	668.080	µg/mL
3) H	RRO	3.282	52257286	1638.975	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141276.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:50
Operator : T.L
Sample : 1241732009 PS
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:50:29 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141258.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:19
Operator : T.L
Sample : 1241732012
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:40 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.248	12958554	205.989	µg/mL
4) S	DTC<Surr>	3.221	2967962	53.997	µg/mLm
	Target Compounds				
1) H	DRO	1.838	77821819	1344.212	µg/mL
3) H	RRO	3.282	170551457	5960.407	µg/mL

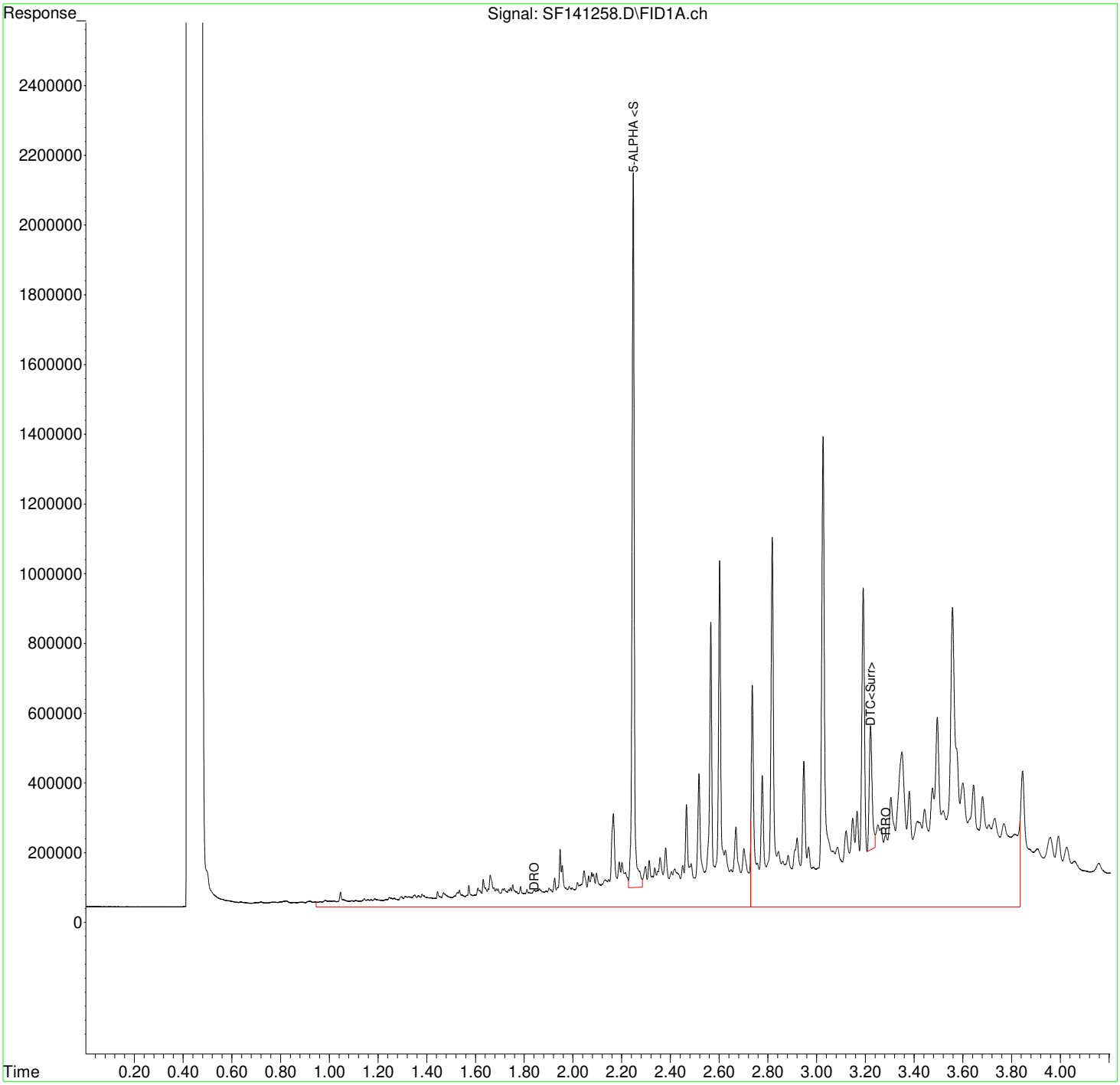
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141258.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:19
Operator : T.L
Sample : 1241732012
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:40 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

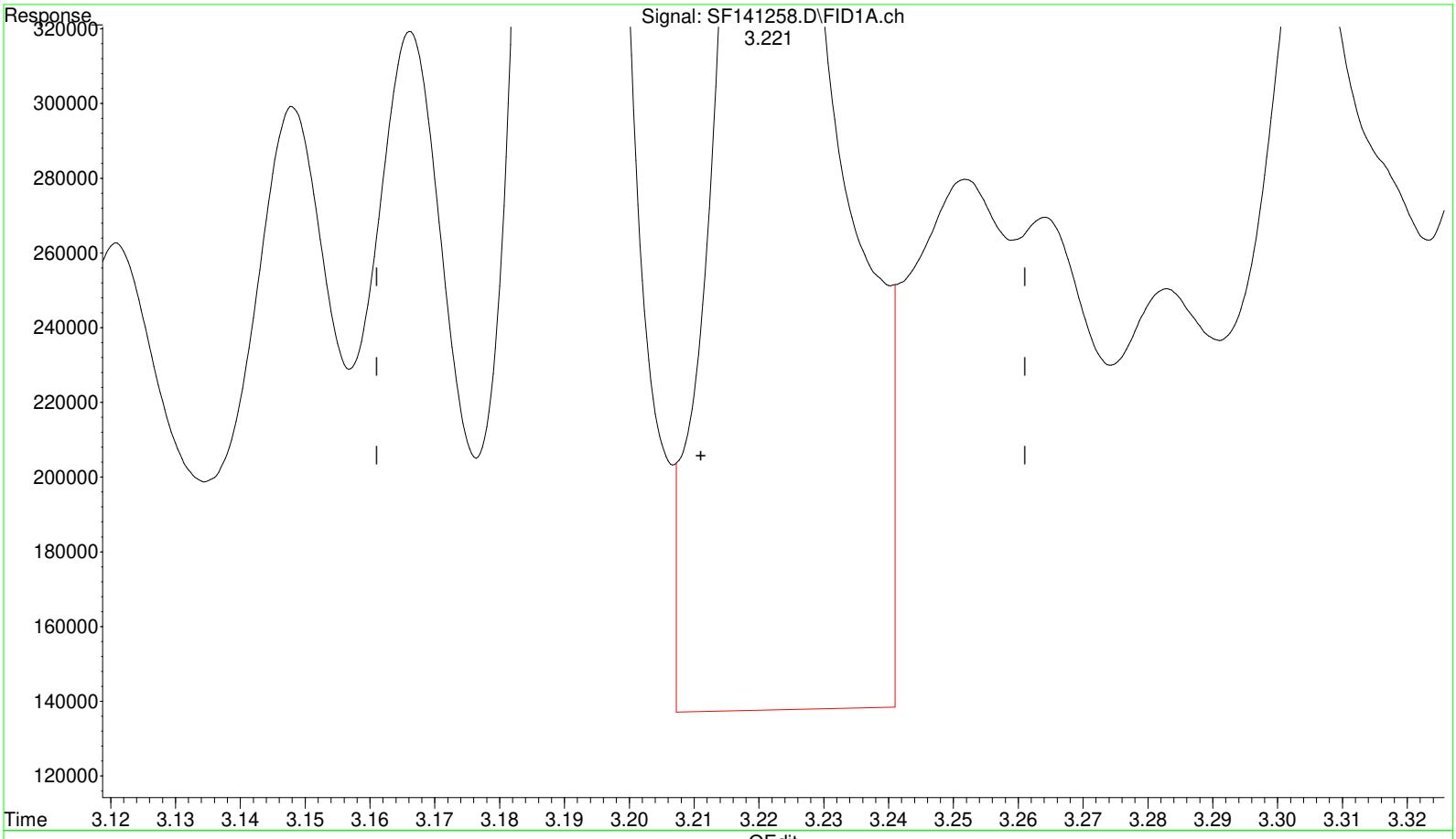


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141258.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:19
Operator : T.L
Sample : 1241732012
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:26 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.222min 80.384 µg/mL

response 4418319

O-BLC

Apr 30, 2024

Zashid Hamu

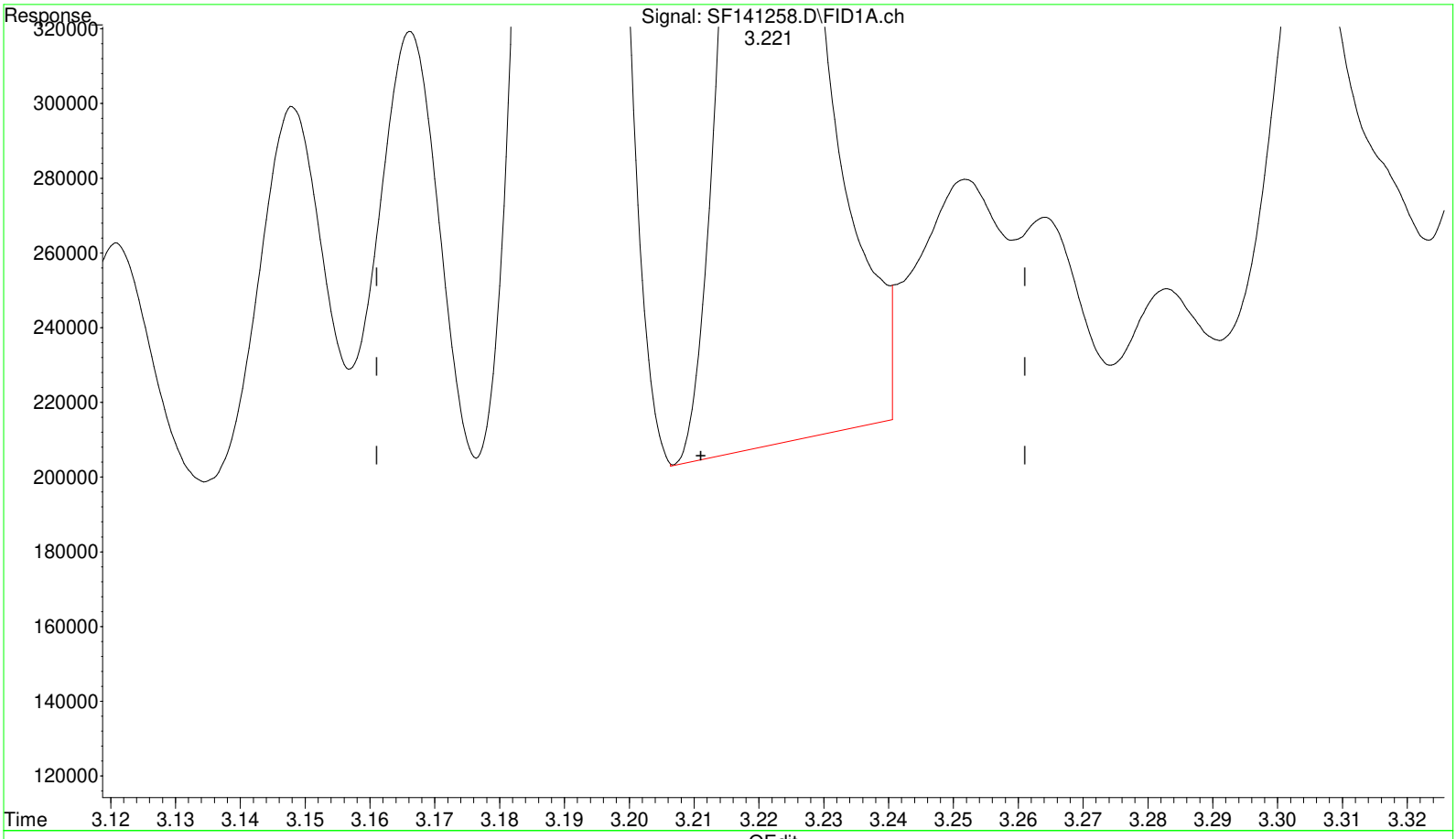
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141258.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:19
Operator : T.L
Sample : 1241732012
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:28:26 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.221min 53.997 µg/mL m

response 2967962

M-BLC

Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141260.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:29
Operator : T.L
Sample : 1241732013
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:39:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.249	11831129	188.068	µg/mL
4) S	DTC<Surr>	3.223	3805125	69.228	µg/mLm
	Target Compounds				
1) H	DRO	1.838	71470694	1221.960	µg/mL
3) H	RRO	3.282	188184301	6604.556	µg/mL

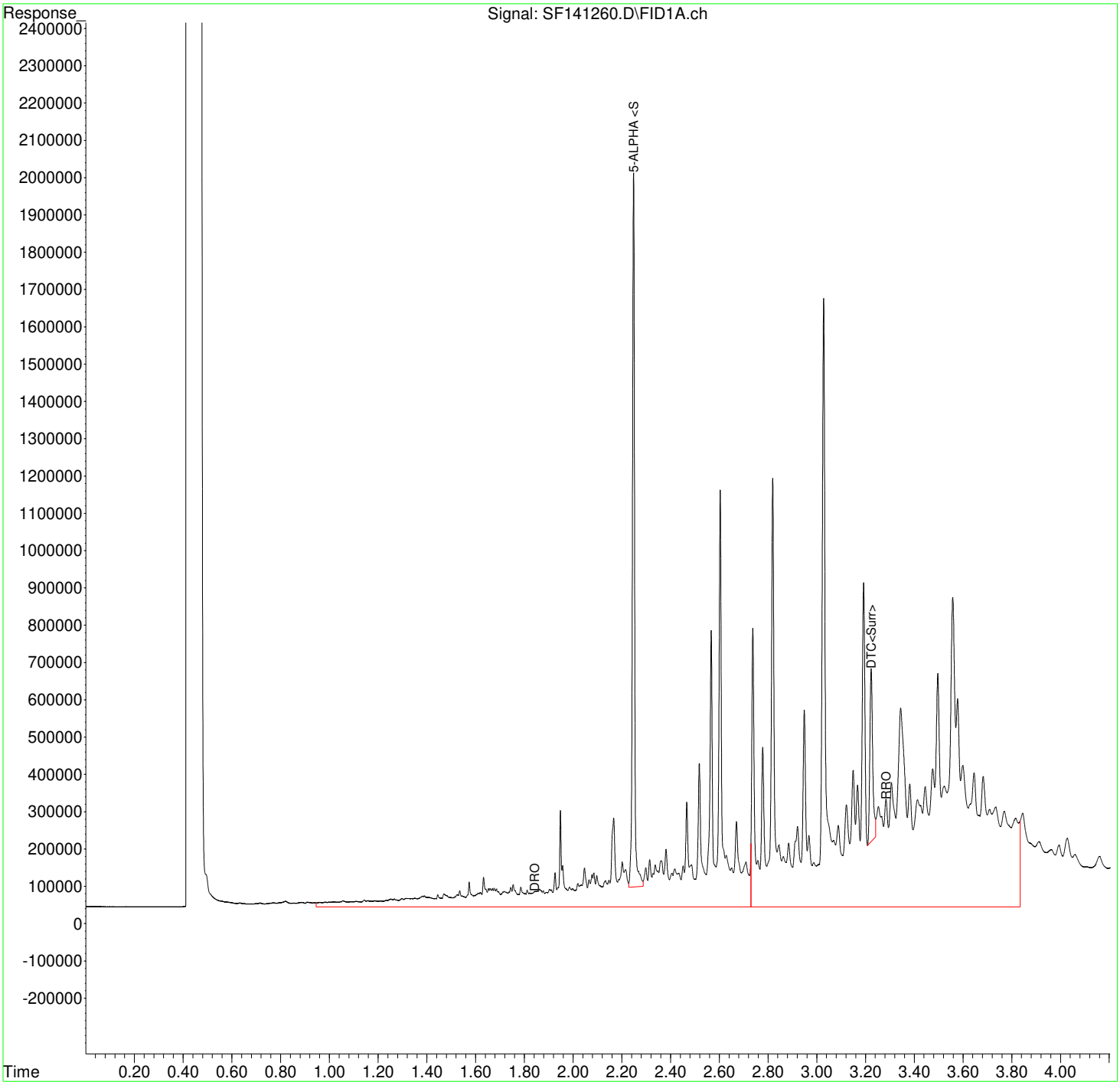
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141260.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:29
Operator : T.L
Sample : 1241732013
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:39:54 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

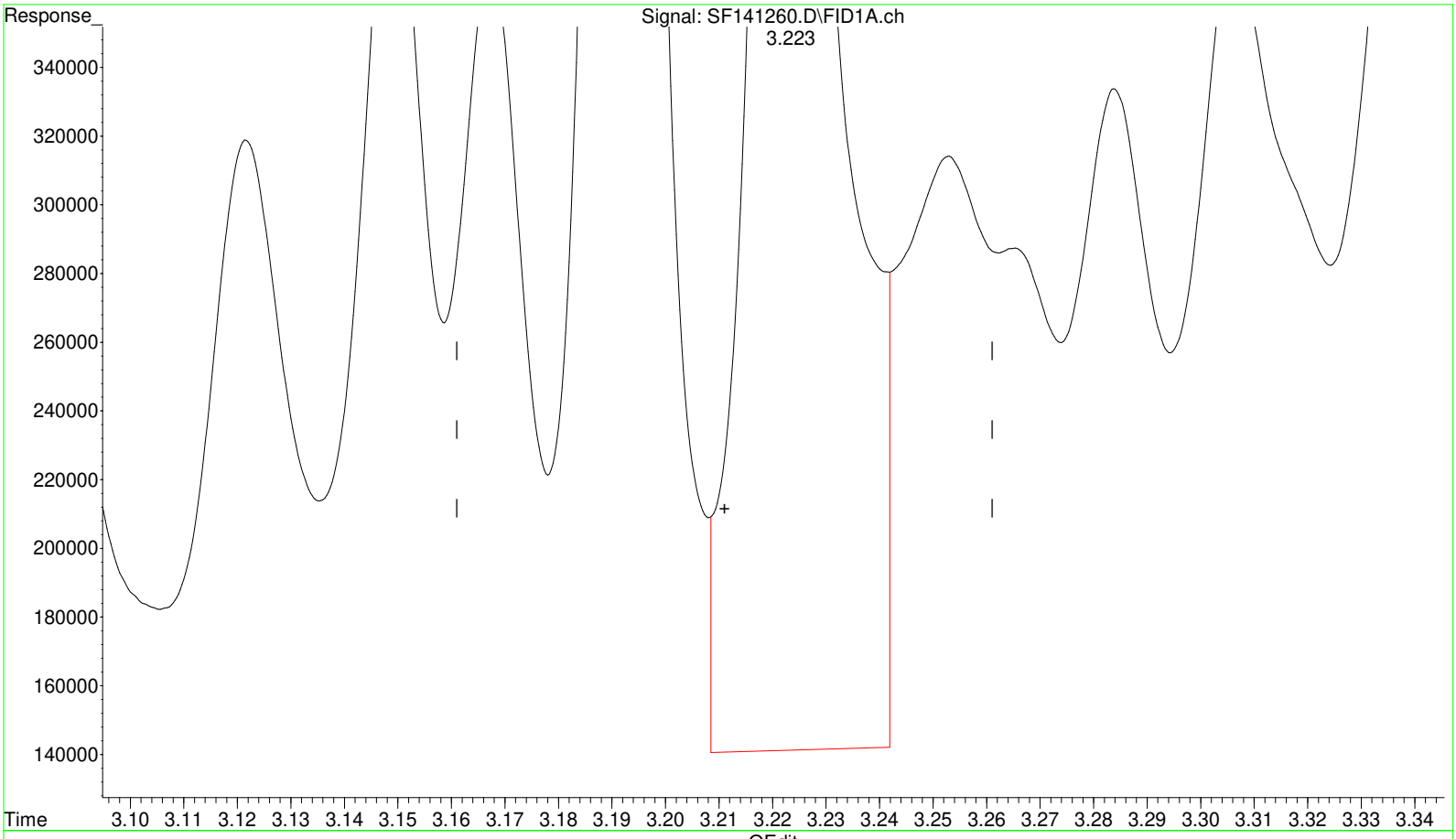


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141260.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:29
Operator : T.L
Sample : 1241732013
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:39:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.223min 98.258 µg/mL

response 5400796

O-BLC

Apr 30, 2024

Tashi Lhamu

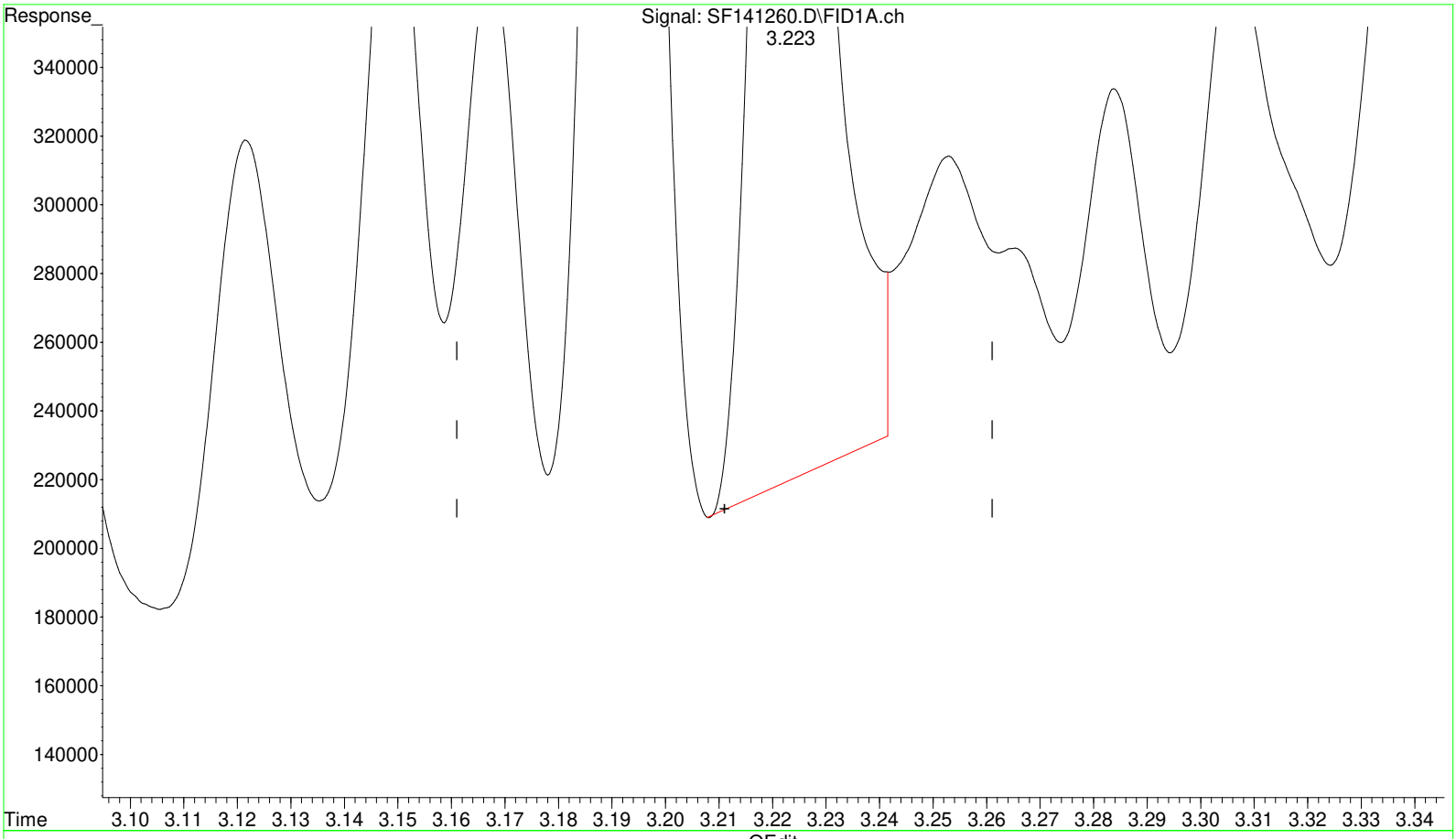
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141260.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:29
Operator : T.L
Sample : 1241732013
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:39:36 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.223min 69.228 µg/mL m

response 3805125

M-BLC
Apr 30, 2024

Zashid Hamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:50:02 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.249	9638638	153.216	µg/mLm
4) S	DTC<Surr>	3.223	4659942	84.779	µg/mLm
	Target Compounds				
1) H	DRO	1.838	92767441	1631.898	µg/mL
3) H	RRO	3.282	186840590	6555.469	µg/mL

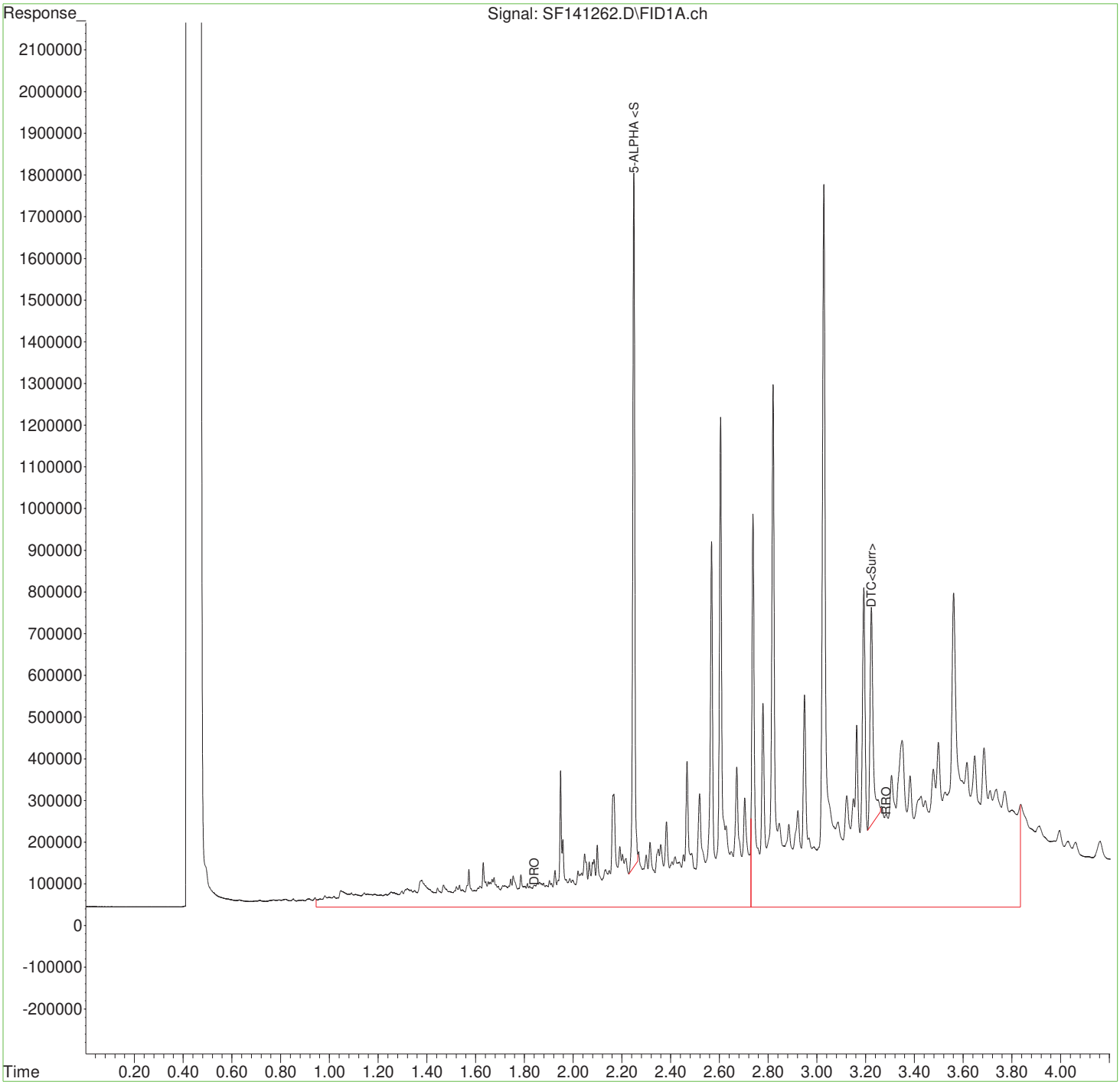
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:50:02 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

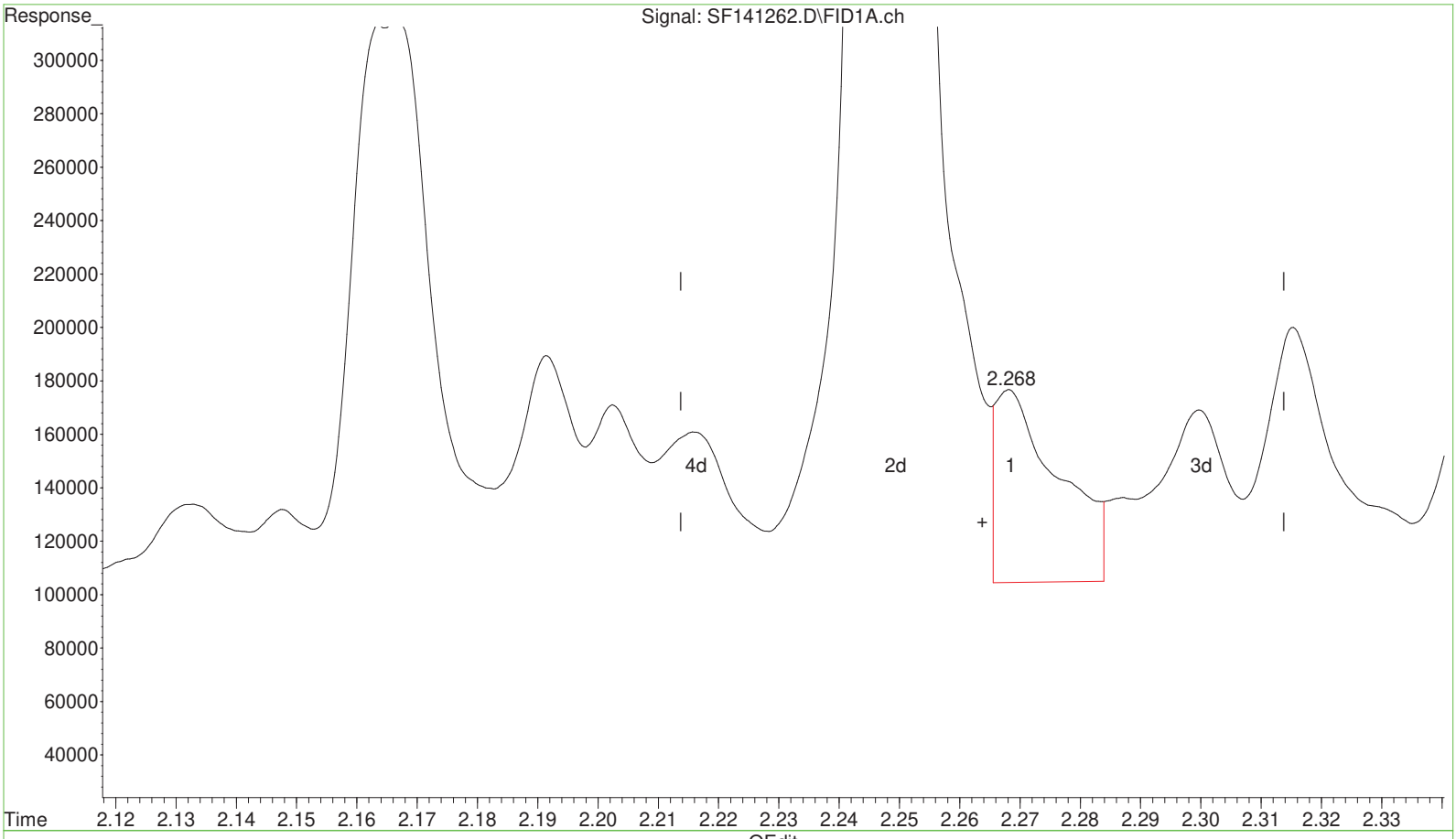


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:49:33 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.268min 8.516 µg/mL

response 535738

O-RP
Apr 30, 2024

Zashid Shamu

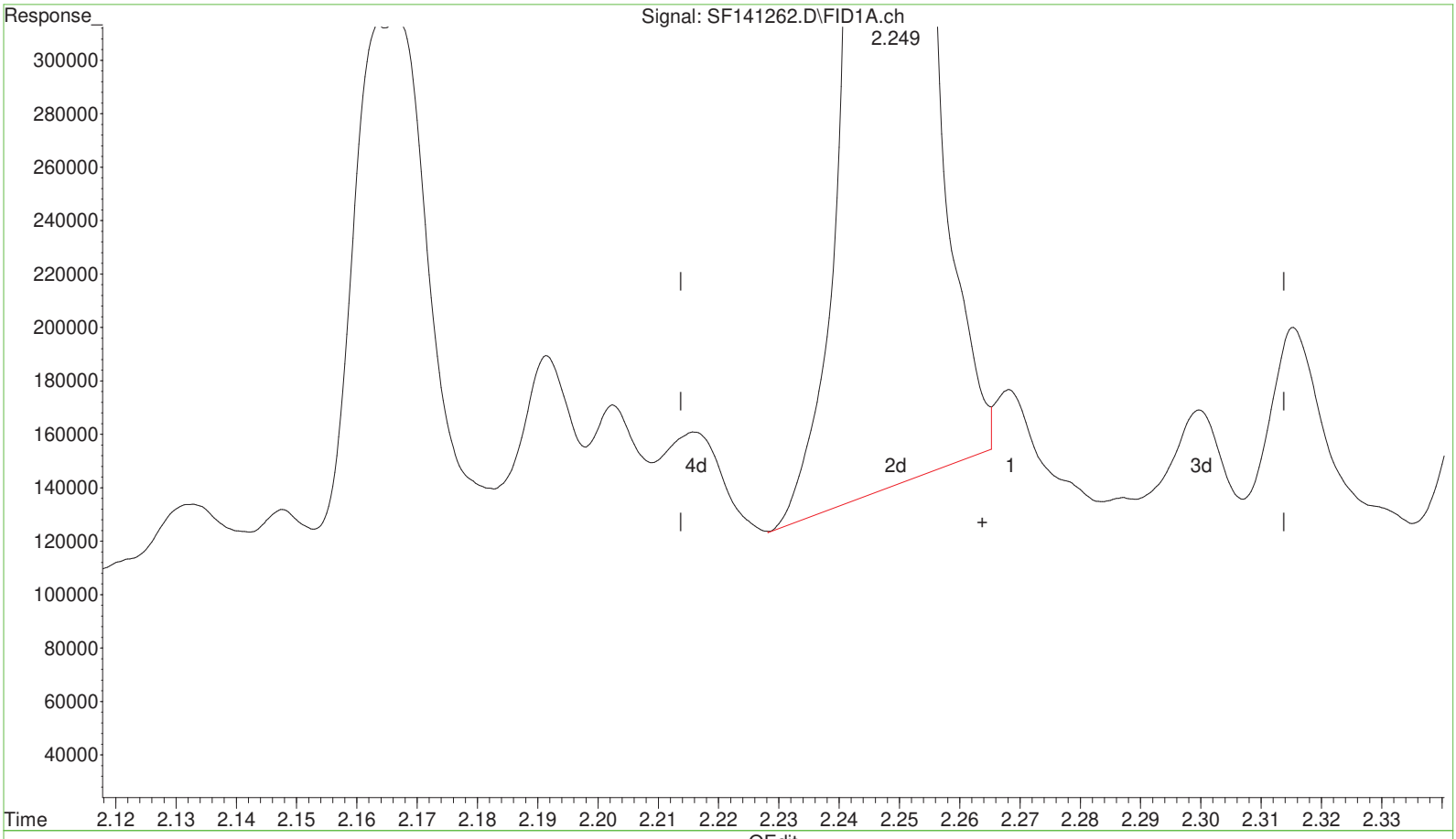
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:49:33 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.249min 153.216 µg/mL m

response 9638638

M-RP

Apr 30, 2024

Tashi Lhamu

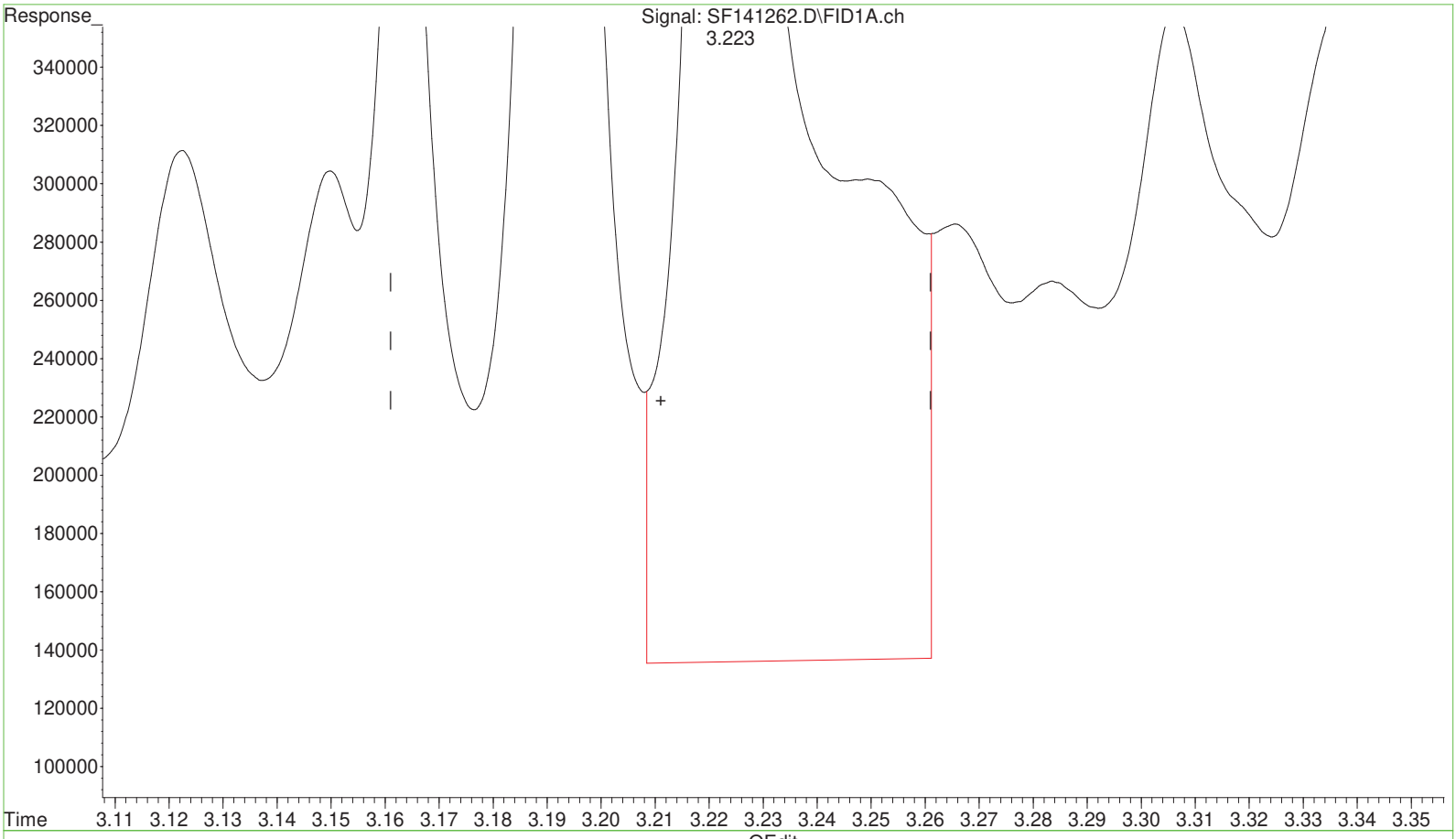
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:49:33 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 150.502 µg/mL

response 8272414

O-BLC

Apr 30, 2024

Tashi Lhamu

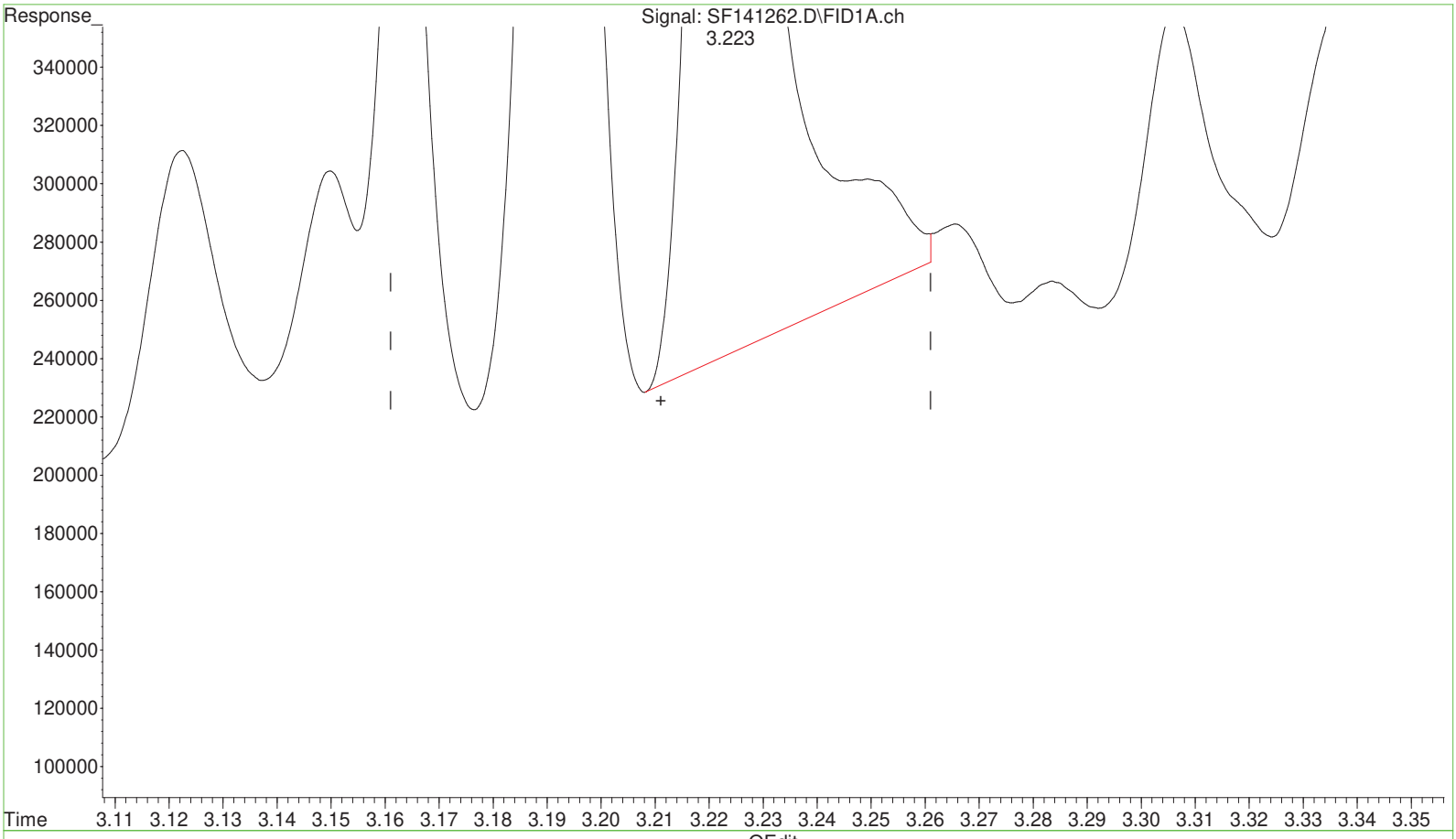
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141262.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:39
Operator : T.L
Sample : 1241732014
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 18:49:33 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.223min 84.779 µg/mL m

response 4659942

M-BLC
Apr 30, 2024

Zashid Khamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141264.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:49
Operator : T.L
Sample : 1241732015
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:07:46 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

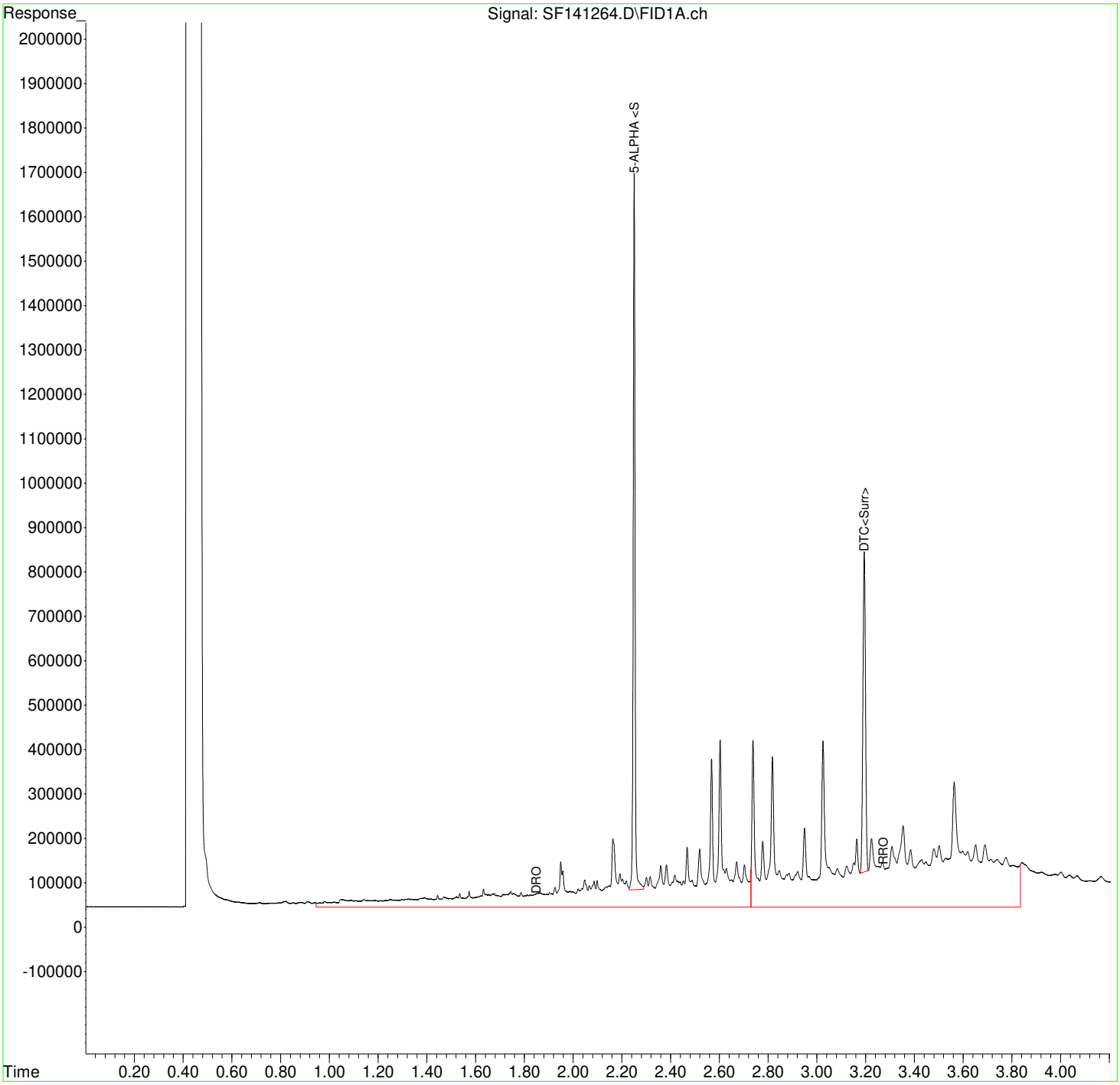
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.251	8387912	133.334	µg/mL
4) S	DTC<Surr>	3.194	5321657	96.818	µg/mLm
	Target Compounds				
1) H	DRO	1.838	42955143	673.068	µg/mL
3) H	RRO	3.282	70327273	2299.094	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141264.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:49
Operator : T.L
Sample : 1241732015
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:07:46 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

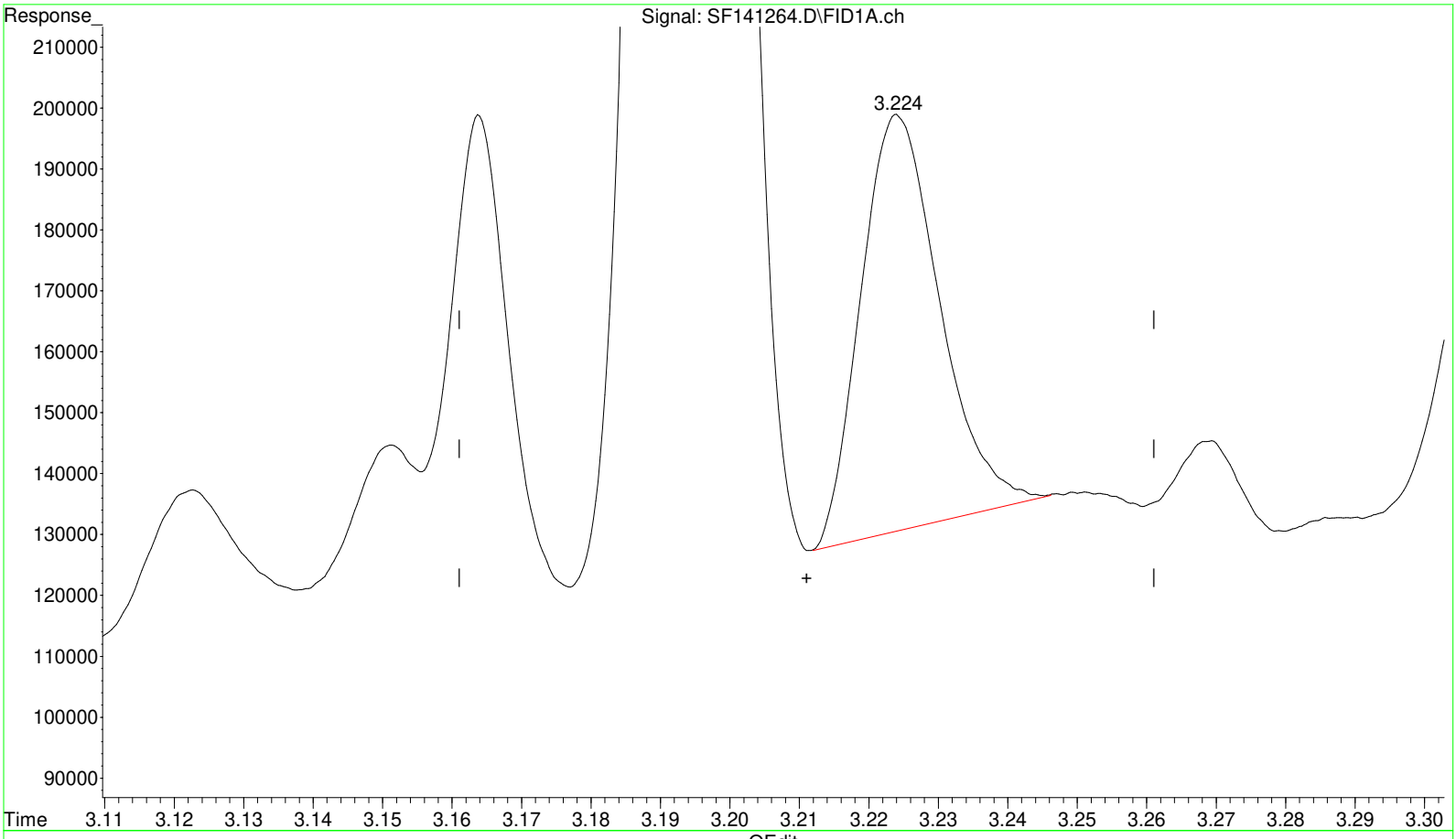


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141264.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:49
Operator : T.L
Sample : 1241732015
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:07:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.224min 9.791 µg/mL

response 538157

O-RP
Apr 30, 2024

Zashid Hamu

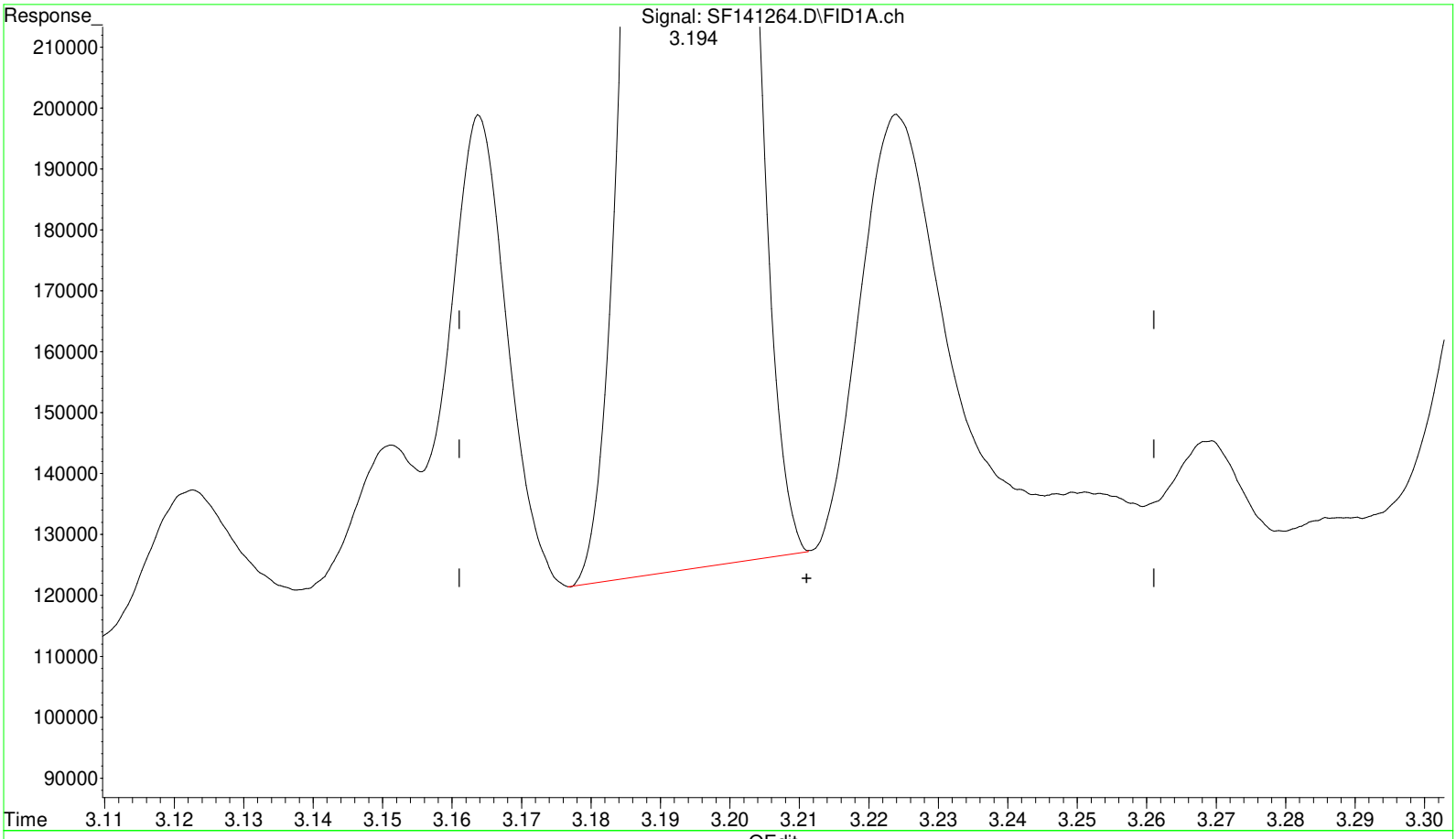
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141264.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:49
Operator : T.L
Sample : 1241732015
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:07:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.194min 96.818 µg/mL m

response 5321657

M-RP

Apr 30, 2024

Zashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:57 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

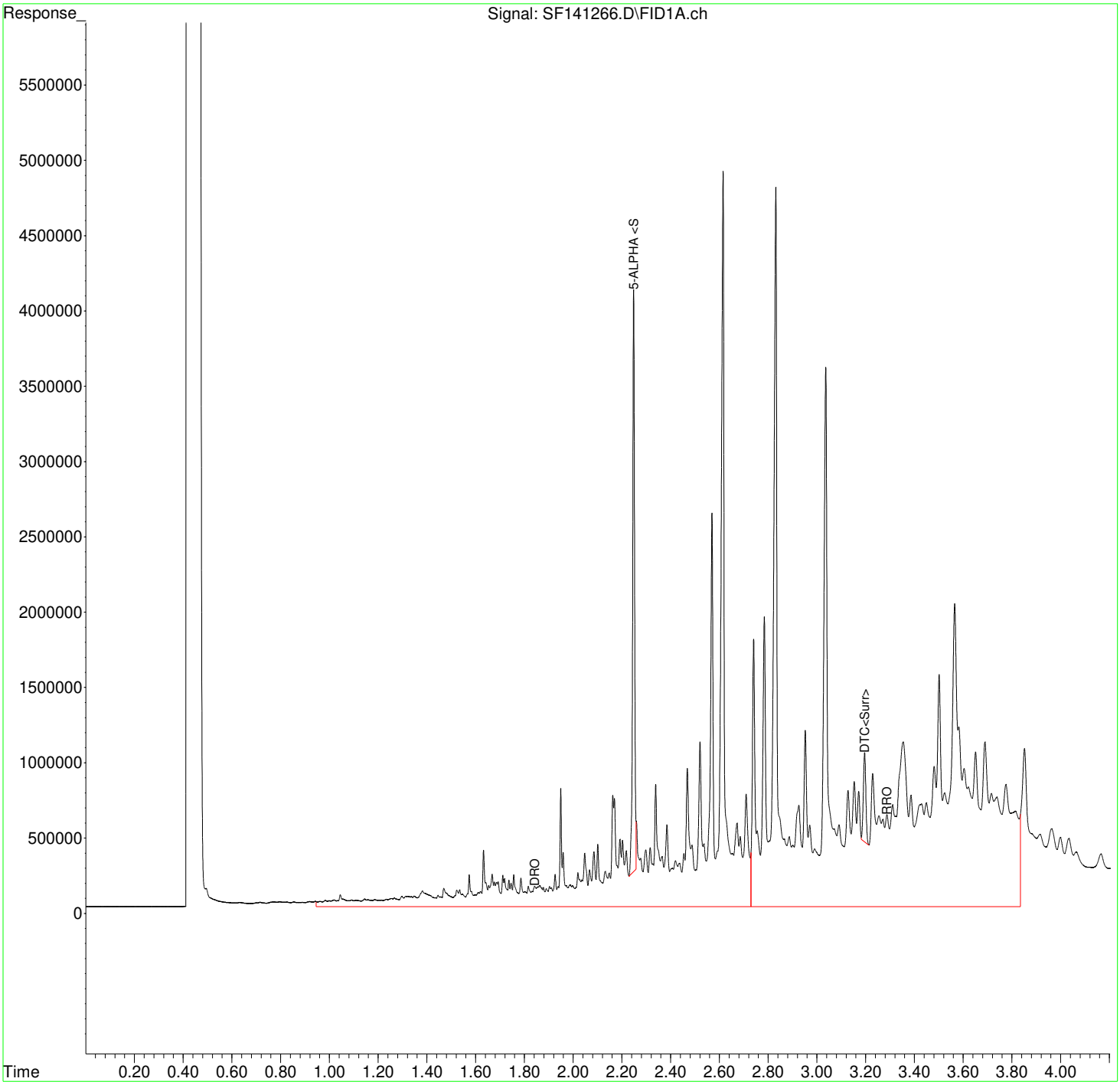
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.248	21252510	337.830	µg/mLm
4) S	DTC<Surr>	3.196	4332354	78.820	µg/mLm
	Target Compounds				
1) H	DRO	1.838	252635770	4709.178	µg/mL
3) H	RRO	3.282	499761516	17986.855	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:57 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

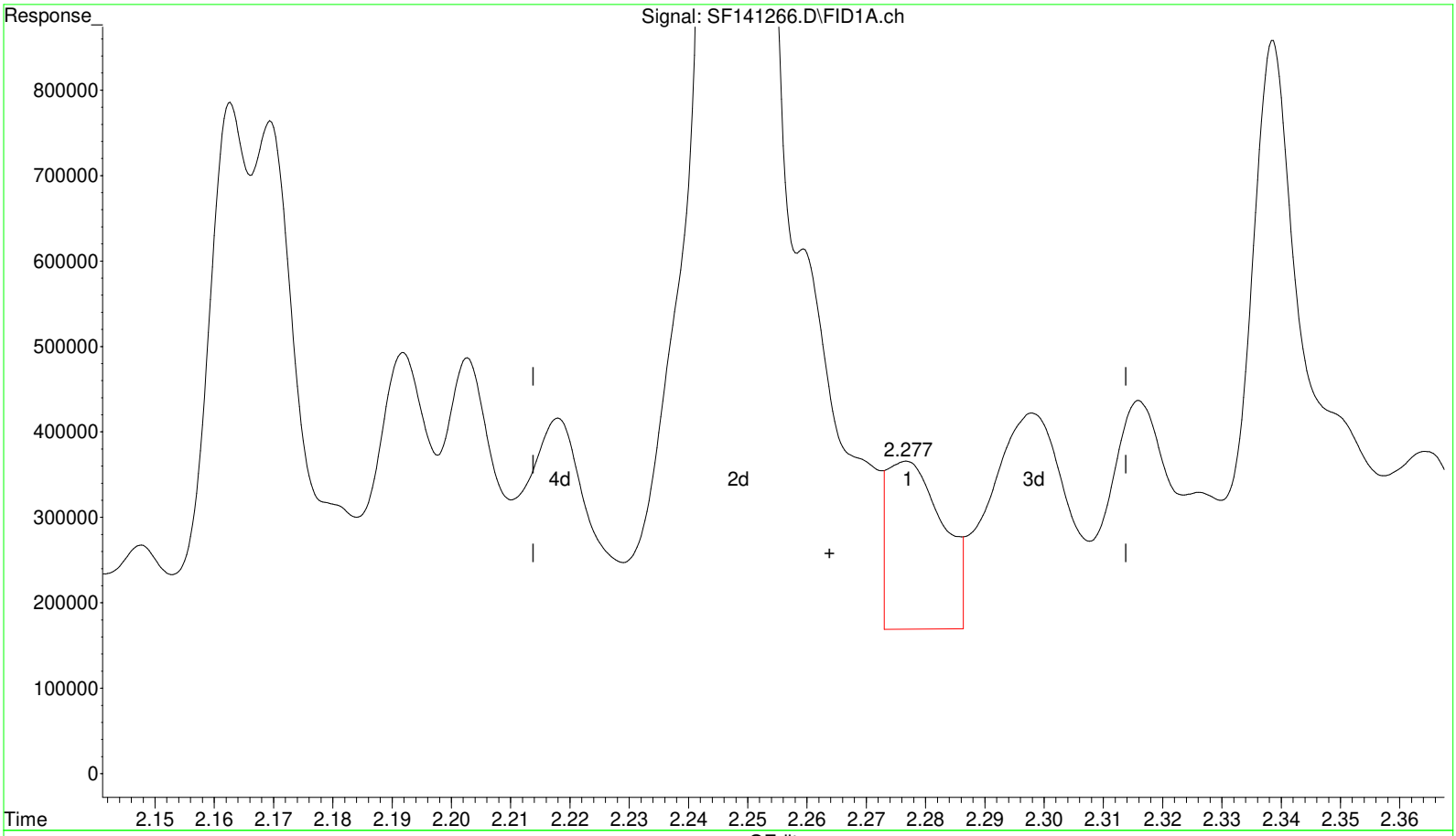


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:07 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.277min 20.604 µg/mL

response 1296146

O-RP

Apr 30, 2024

Zashi Lhamu

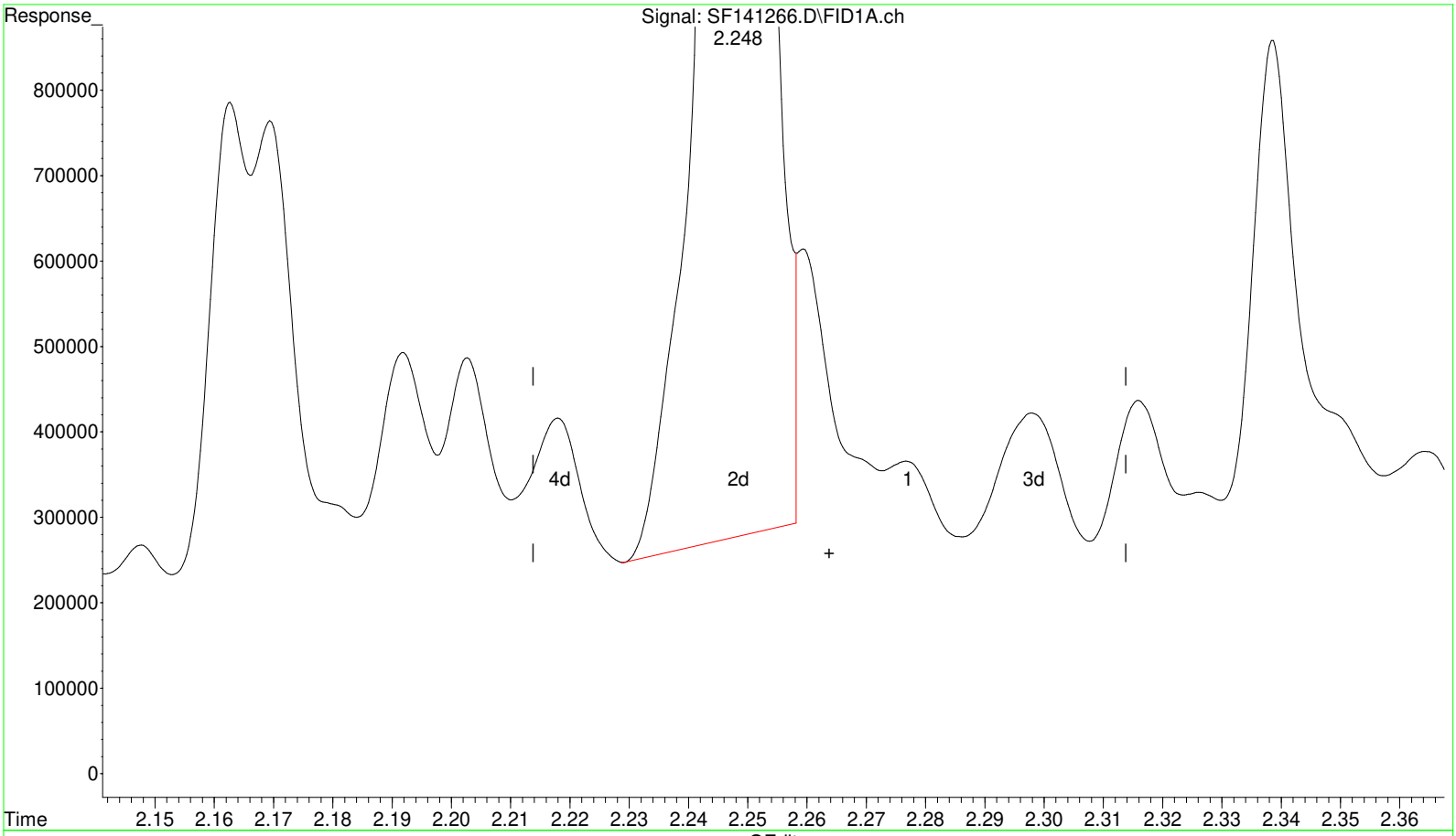
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:07 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.248min 337.830 µg/mL m

response 21252510

M-RP

Apr 30, 2024

Tashi Lhamu

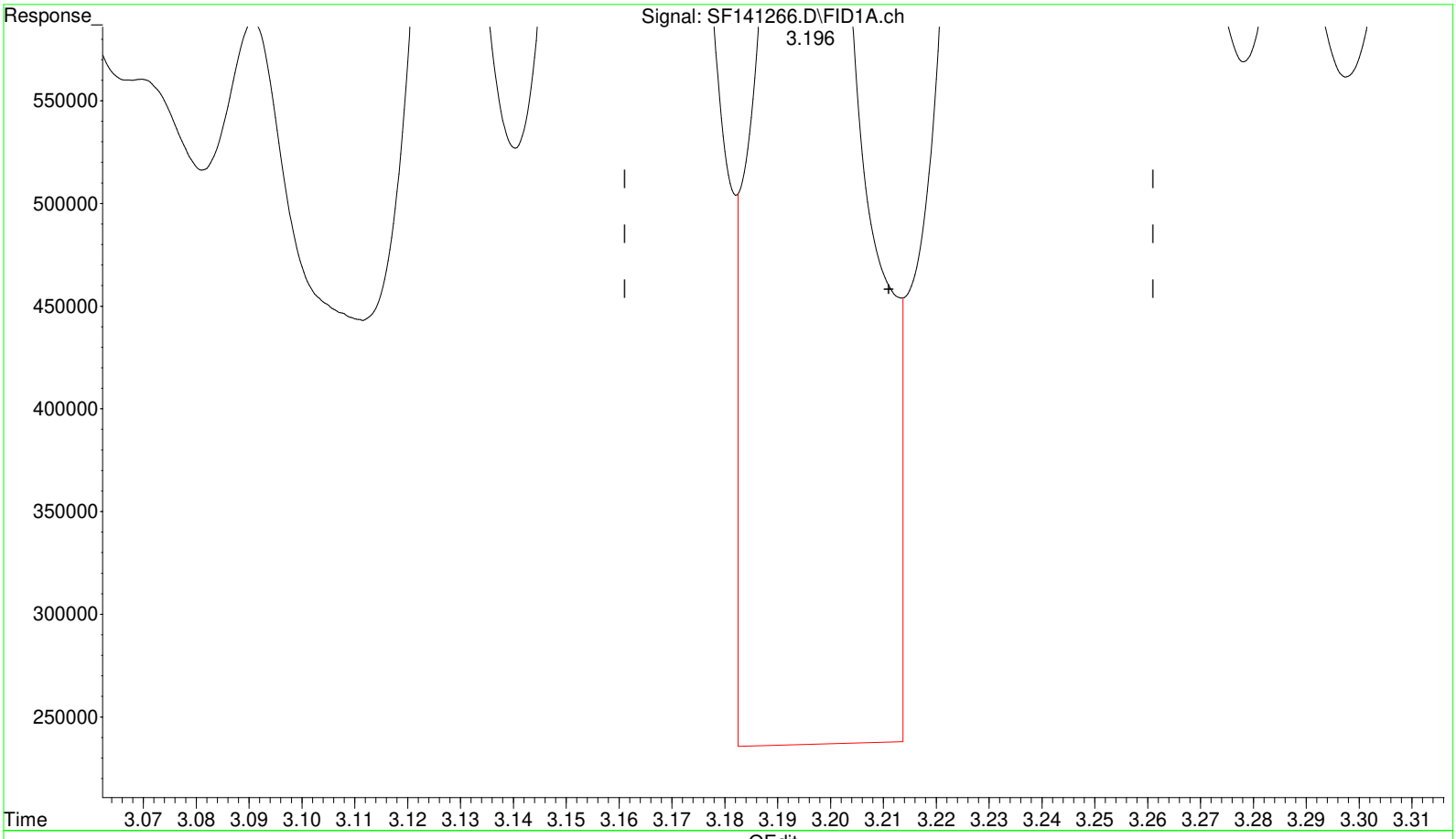
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:07 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.196min 159.109 µg/mL

response 8745479

O-BLC

Apr 30, 2024

Tashi Lhamu

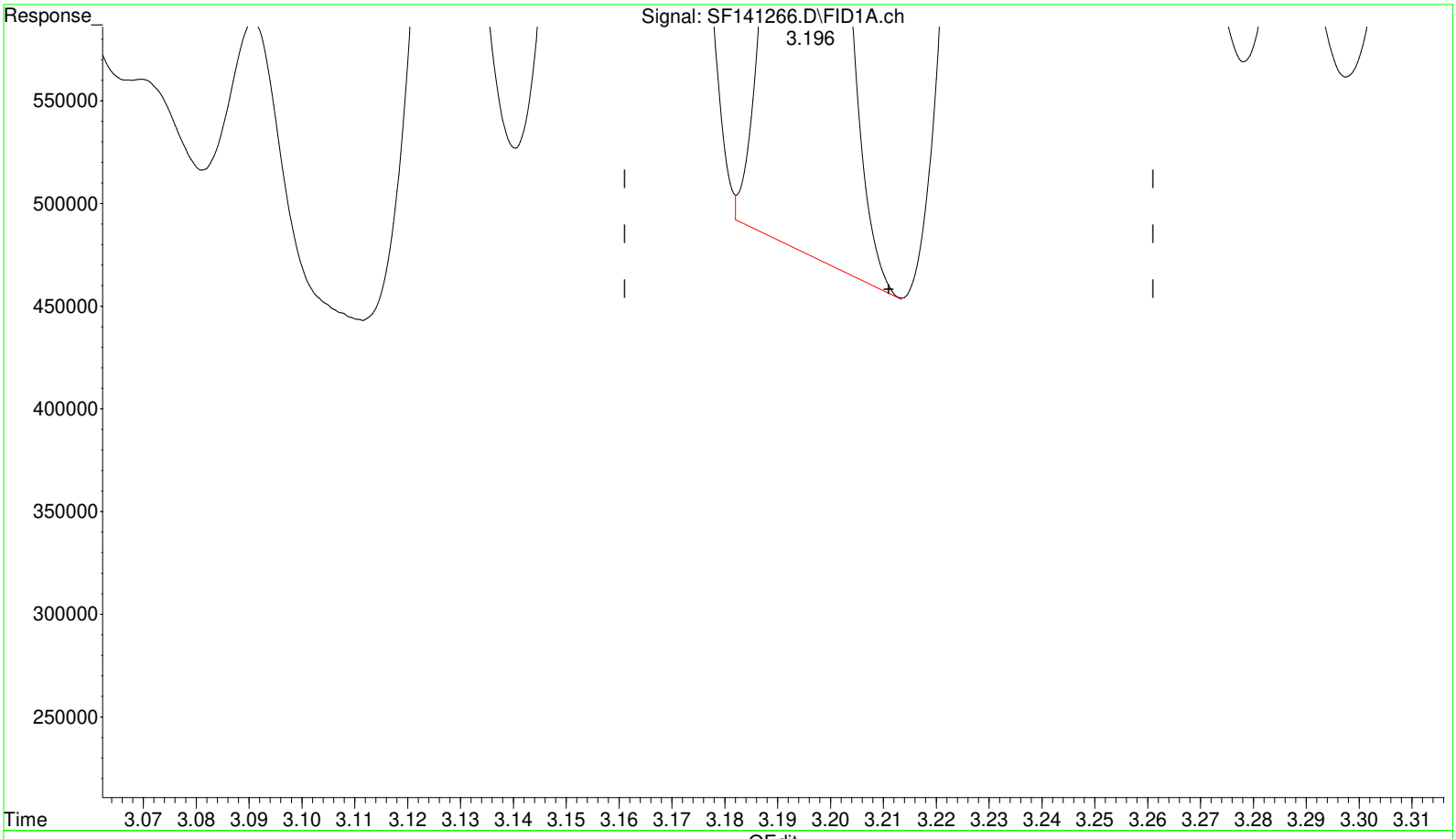
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141266.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 18:58
Operator : T.L
Sample : 1241732017
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:08:07 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.196min 78.820 µg/mL m

response 4332354

M-BLC
Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.249	13484364	214.348	µg/mLm
4) S	DTC<Surr>	3.195	4730406	86.061	µg/mLm
	Target Compounds				
1) H	DRO	1.838	160138124	2928.705	µg/mL
3) H	RRO	3.282	506472973	18232.033	µg/mL

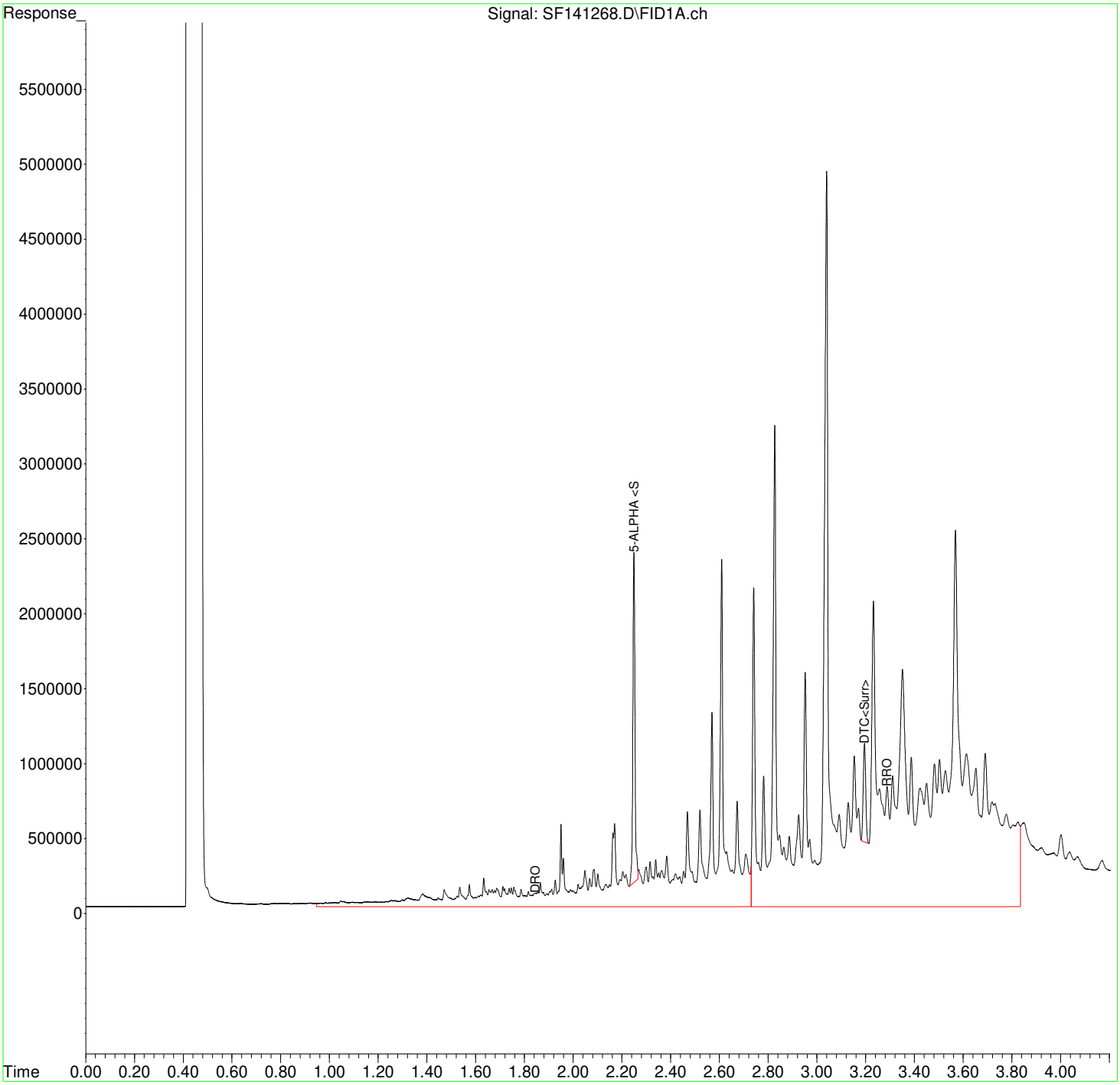
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:47 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

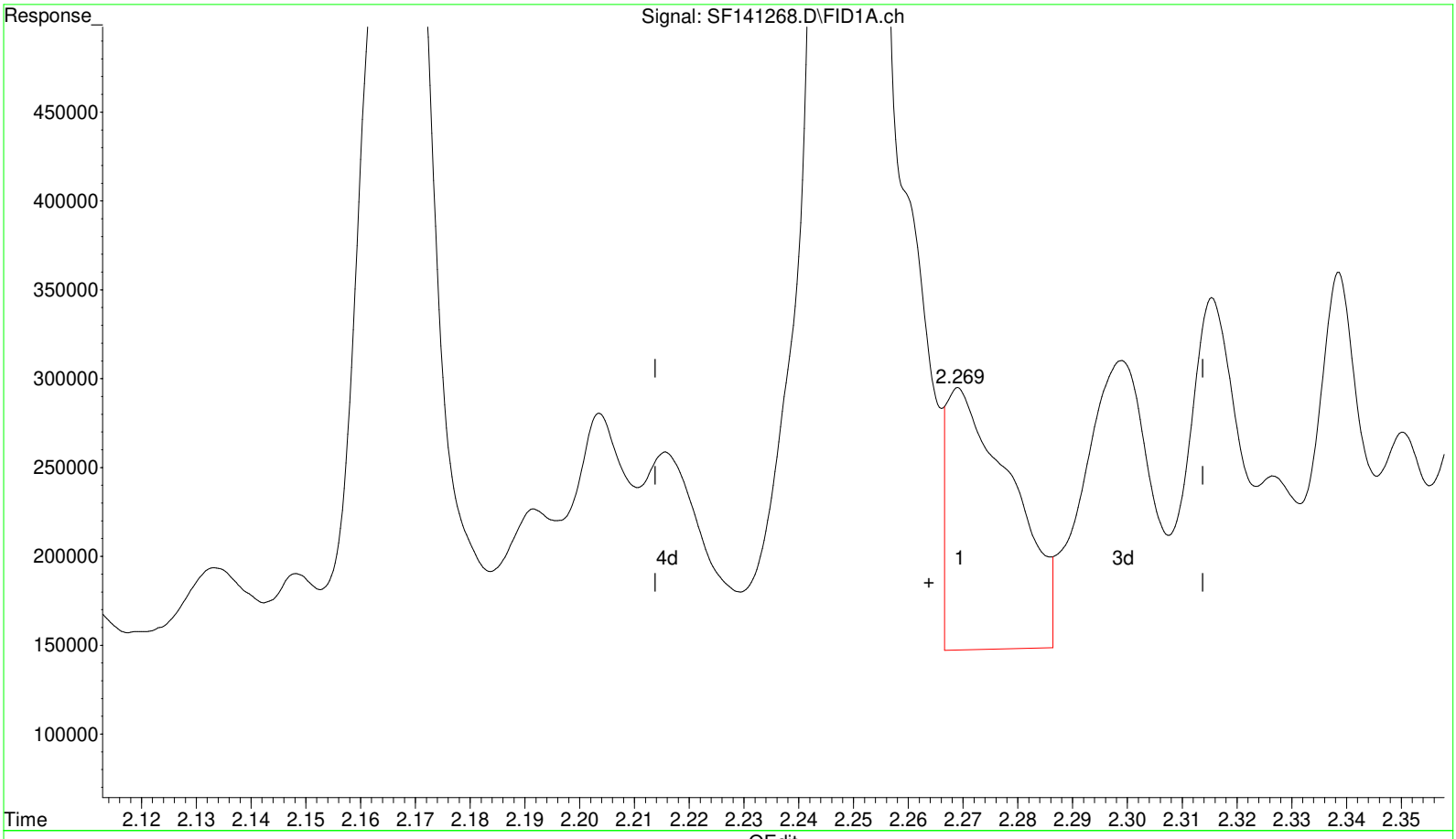


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.269min 19.686 µg/mL

response 1238436

O-RP
Apr 30, 2024

Zashid Hamu

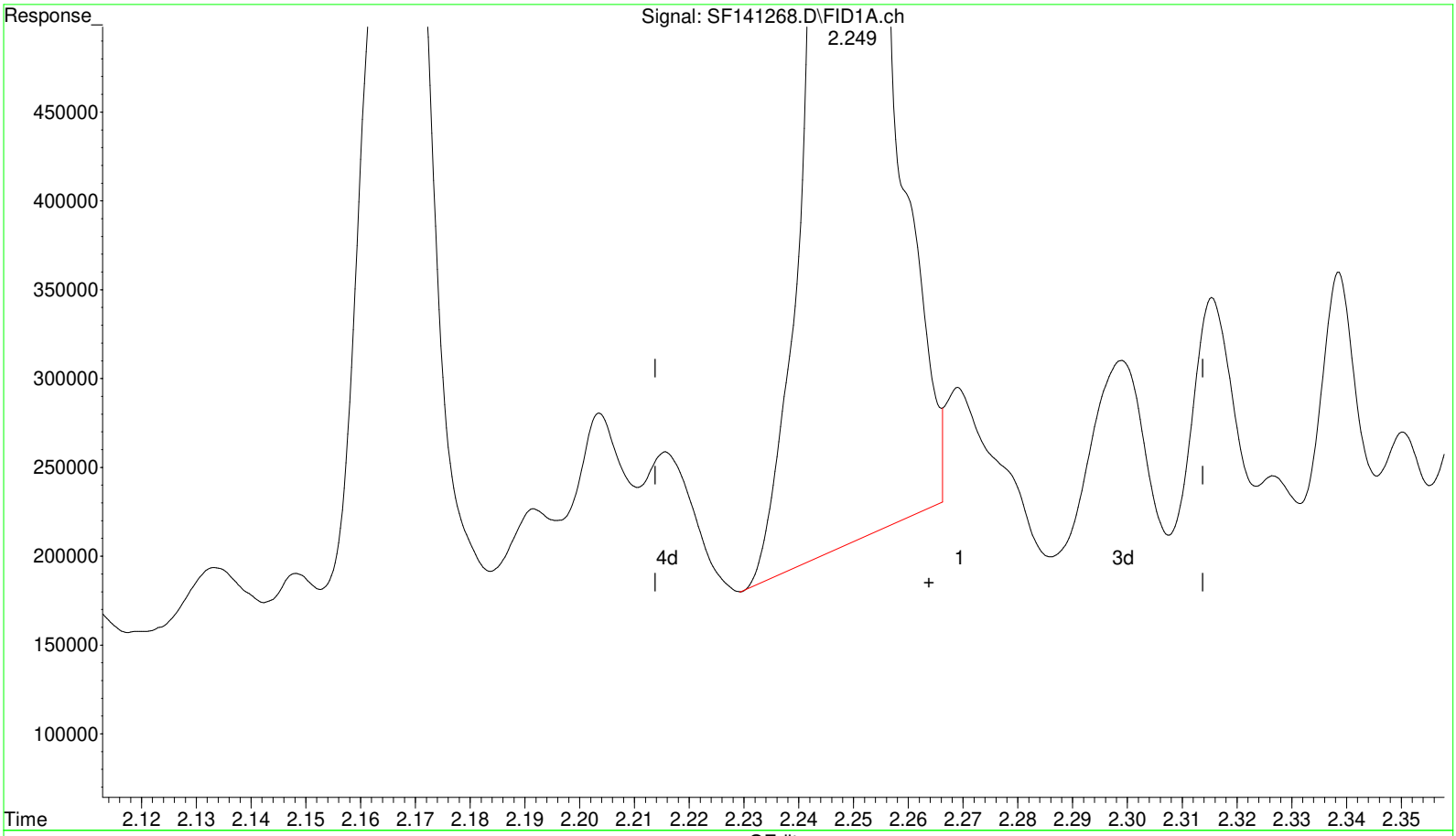
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.249min 214.348 µg/mL m

response 13484364

M-RP

Apr 30, 2024

Zashi Lhamu

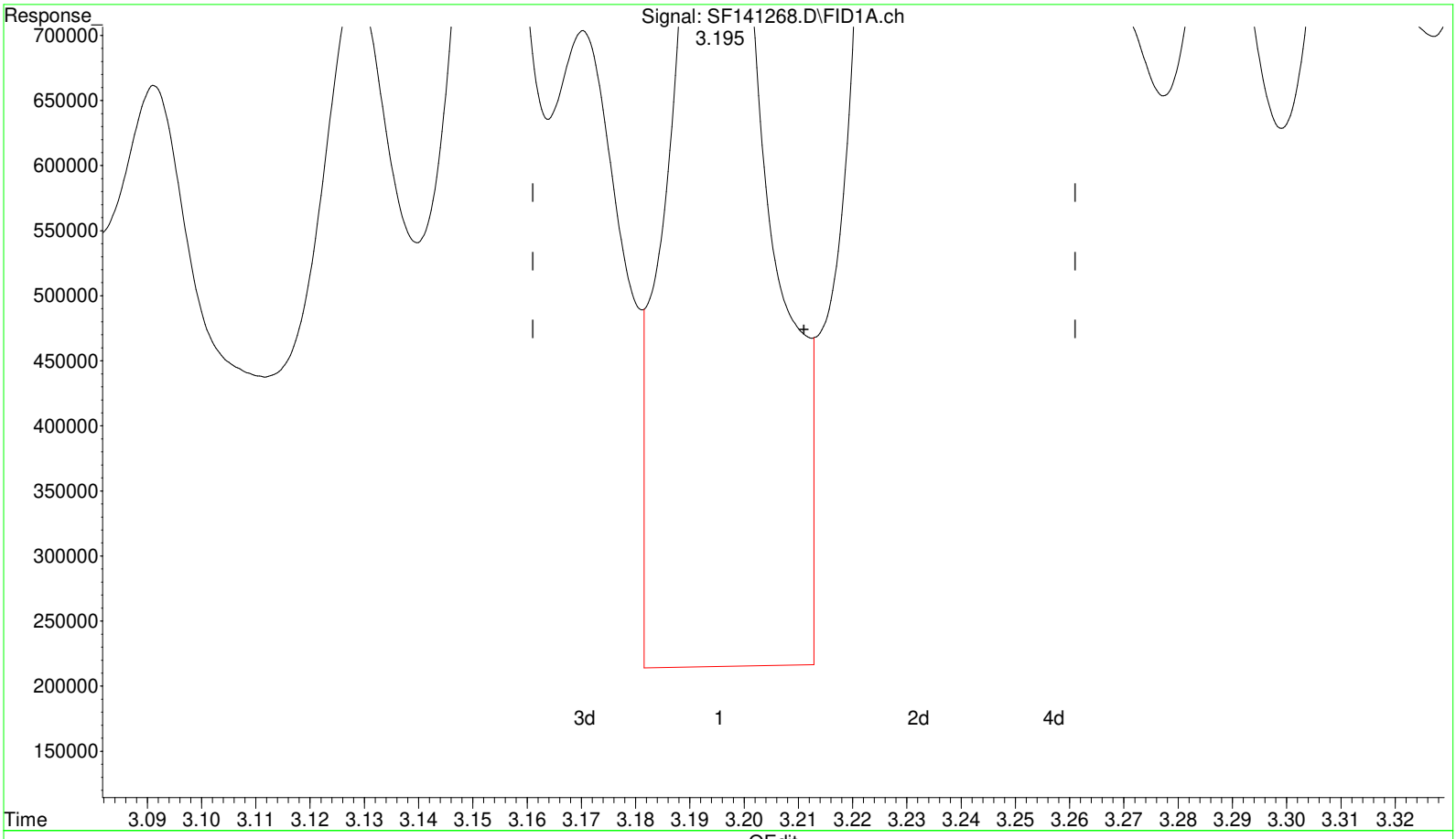
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.195min 175.374 µg/mL

response 9639487

O-BLC

Apr 30, 2024

Zashid Hamu

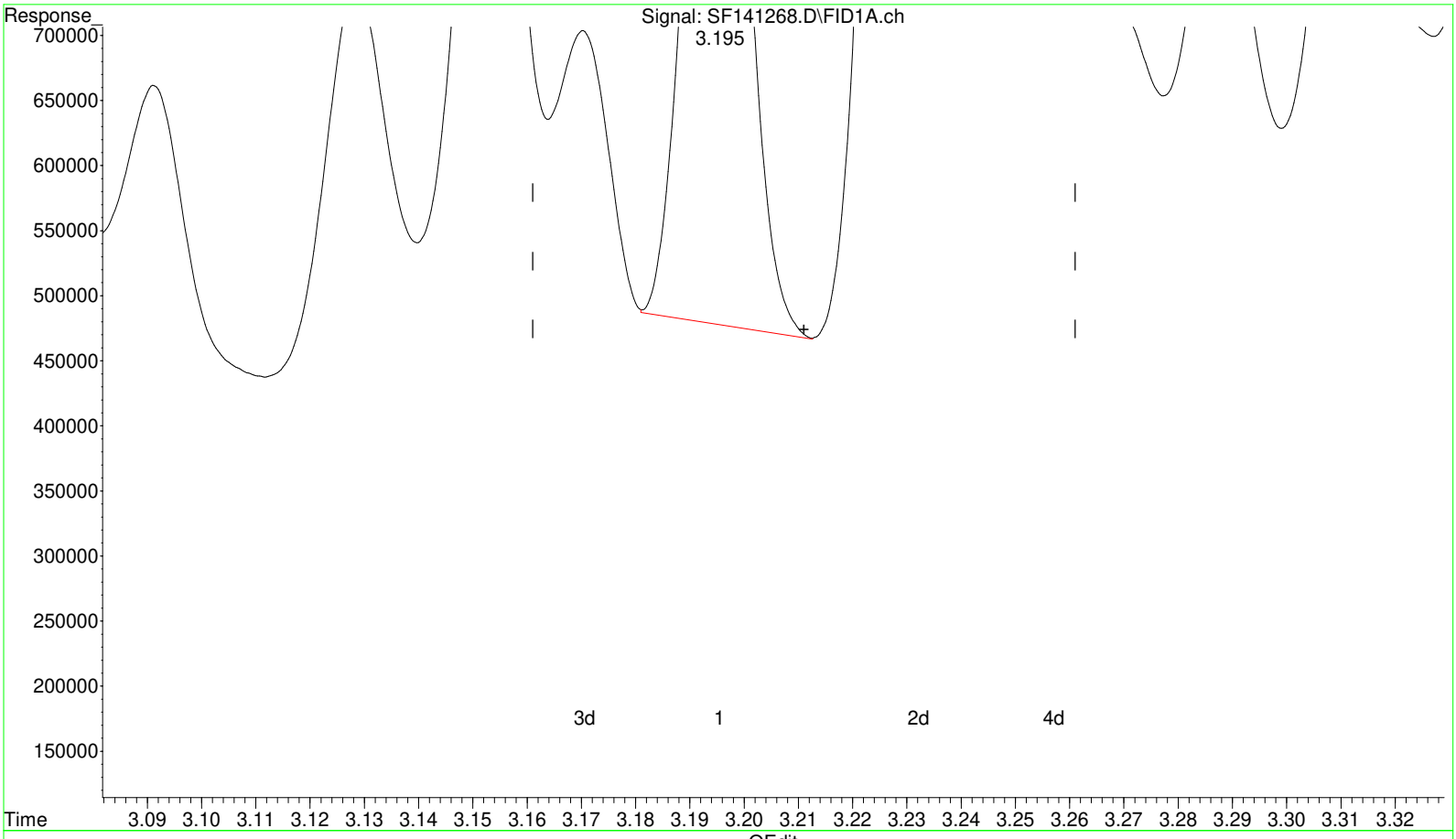
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141268.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:08
Operator : T.L
Sample : 1241732018
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 29 19:15:15 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.195min 86.061 µg/mL m

response 4730406

M-BLC
Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141270.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:18
Operator : T.L
Sample : 1241732019
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:38:23 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

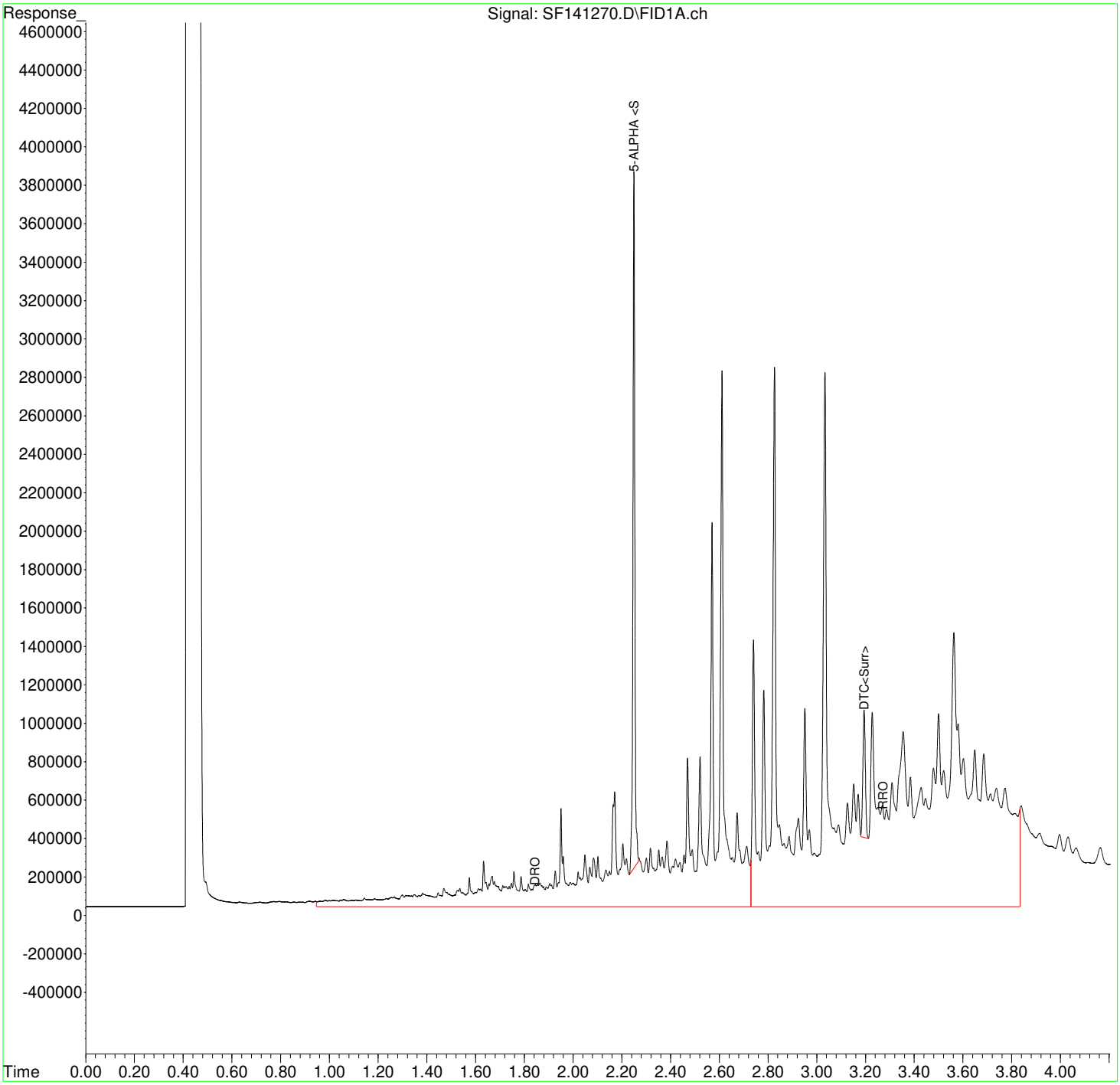
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.250	19857129	315.649	µg/mLm
4) S	DTC<Surr>	3.194	4785208	87.058	µg/mLm
	Target Compounds				
1) H	DRO	1.838	180579115	3322.171	µg/mL
3) H	RRO	3.282	386878485	13863.099	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141270.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:18
Operator : T.L
Sample : 1241732019
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:38:23 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141272.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:30
Operator : T.L
Sample : 1241732020
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

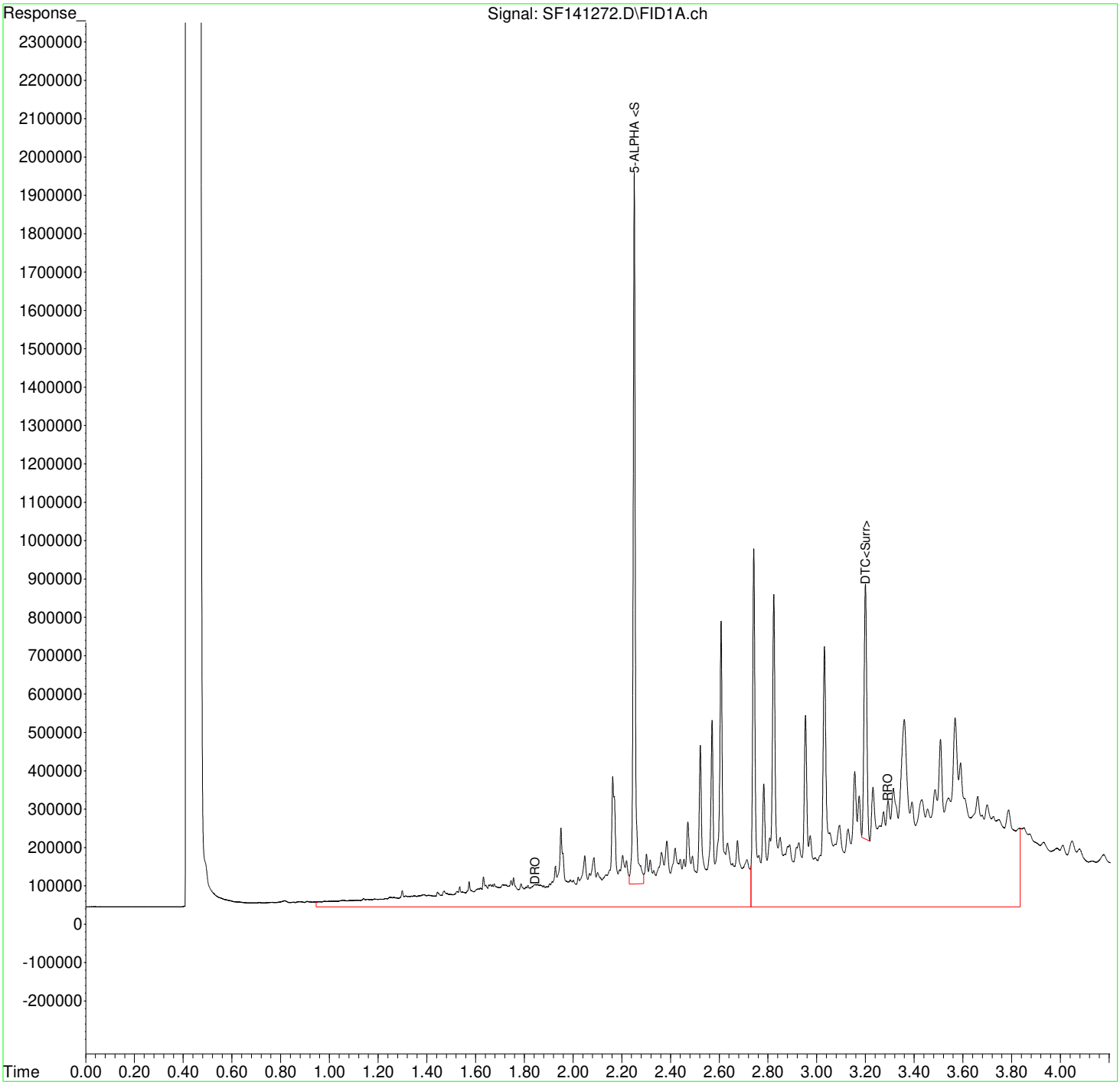
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.252	11264544	179.061	µg/mL
4) S	DTC<Surr>	3.200	5111881	93.002	µg/mLm
	Target Compounds				
1) H	DRO	1.838	80155826	1389.139	µg/mL
3) H	RRO	3.282	161386778	5625.610	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141272.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:30
Operator : T.L
Sample : 1241732020
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

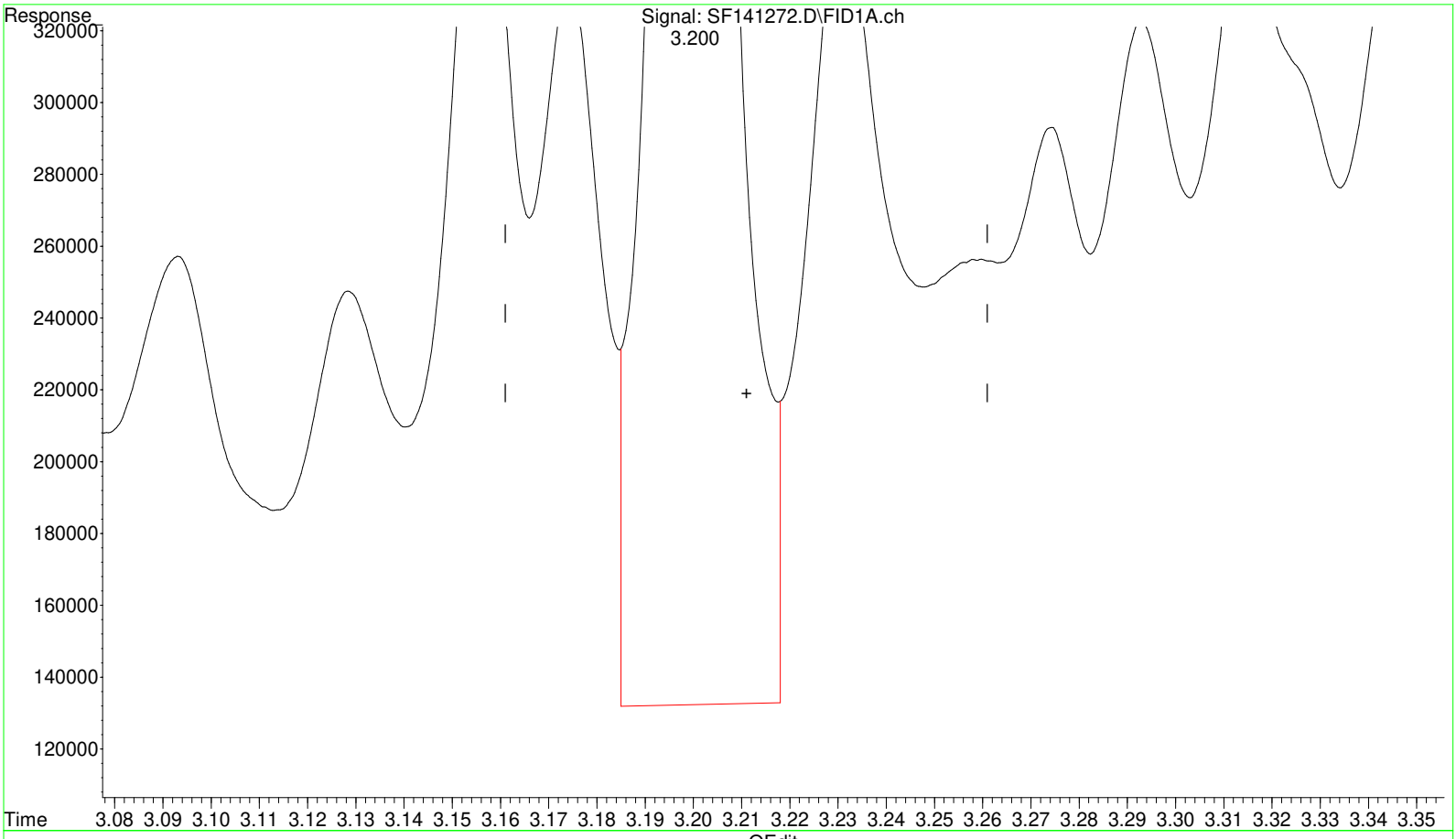


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141272.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:30
Operator : T.L
Sample : 1241732020
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:39:34 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.200min 125.258 µg/mL

response 6884864

O-BLC

Apr 30, 2024

Tashi Lhamu

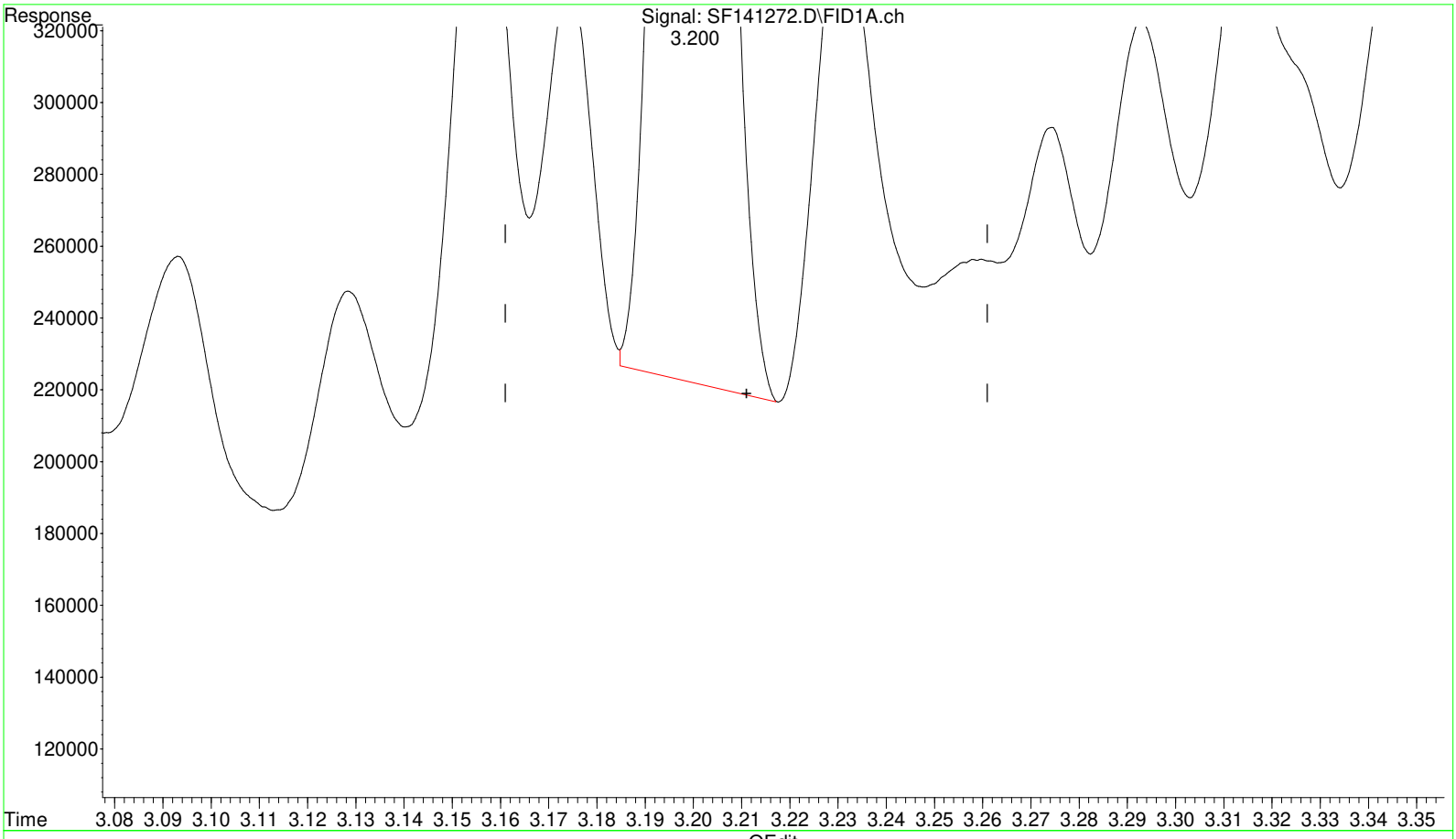
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141272.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:30
Operator : T.L
Sample : 1241732020
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:39:34 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.200min 93.002 µg/mL m

response 5111881

M-BLC
Apr 30, 2024

Tashi Lhamu

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:50:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

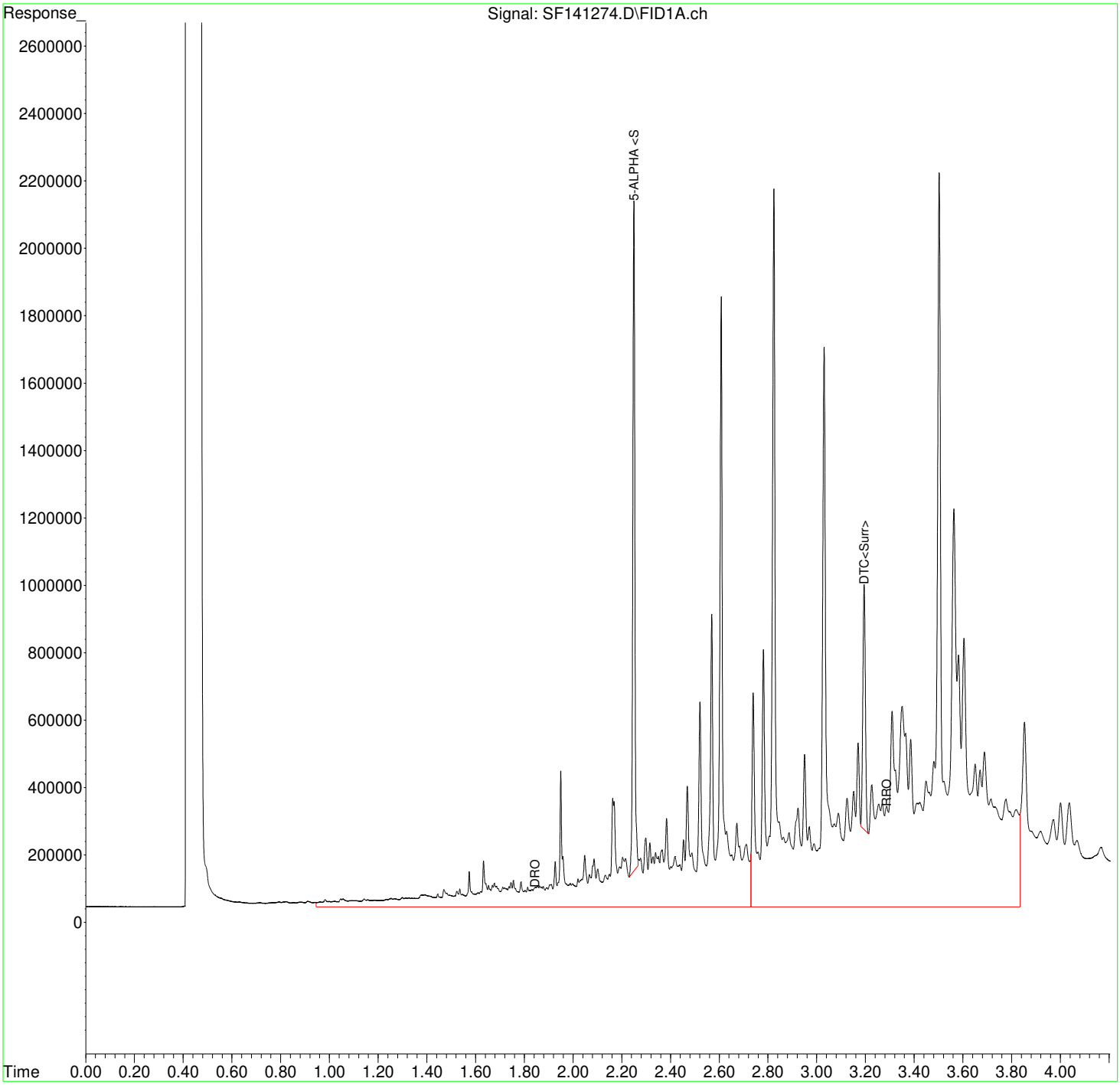
	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
2) S	5-ALPHA <Surr>	2.250	11748246	186.750	µg/mLm
4) S	DTC<Surr>	3.195	5270786	95.893	µg/mLm
	Target Compounds				
1) H	DRO	1.838	103331741	1835.248	µg/mL
3) H	RRO	3.282	251202409	8906.685	µg/mL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:50:00 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

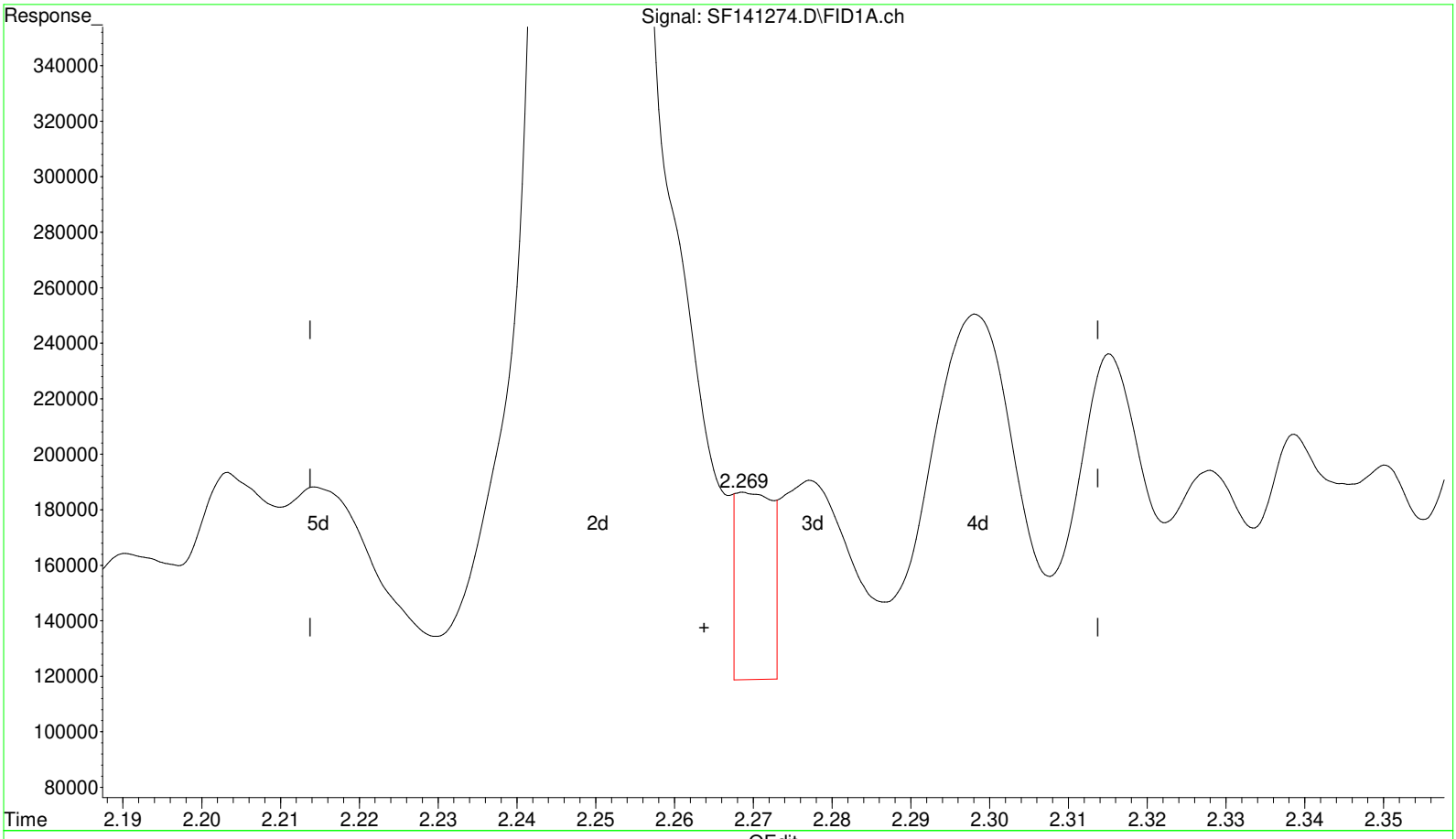


Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.269min 3.468 µg/mL

response 218188

O-RP
Apr 30, 2024

Zashid Hamu

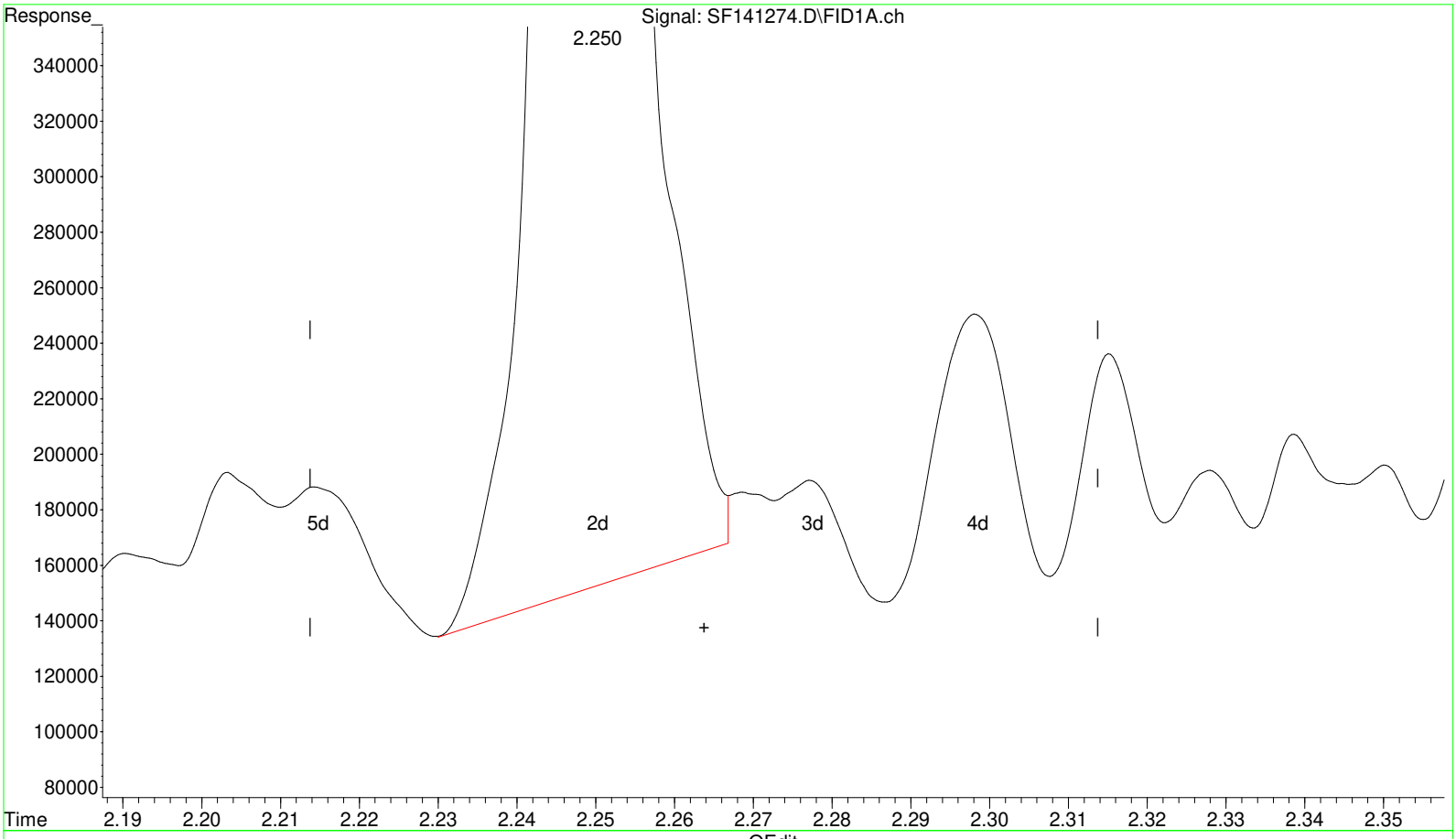
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) 5-ALPHA <Surr> (S)

2.250min 186.750 µg/mL m

response 11748246

M-RP

Apr 30, 2024

Tashidhamu

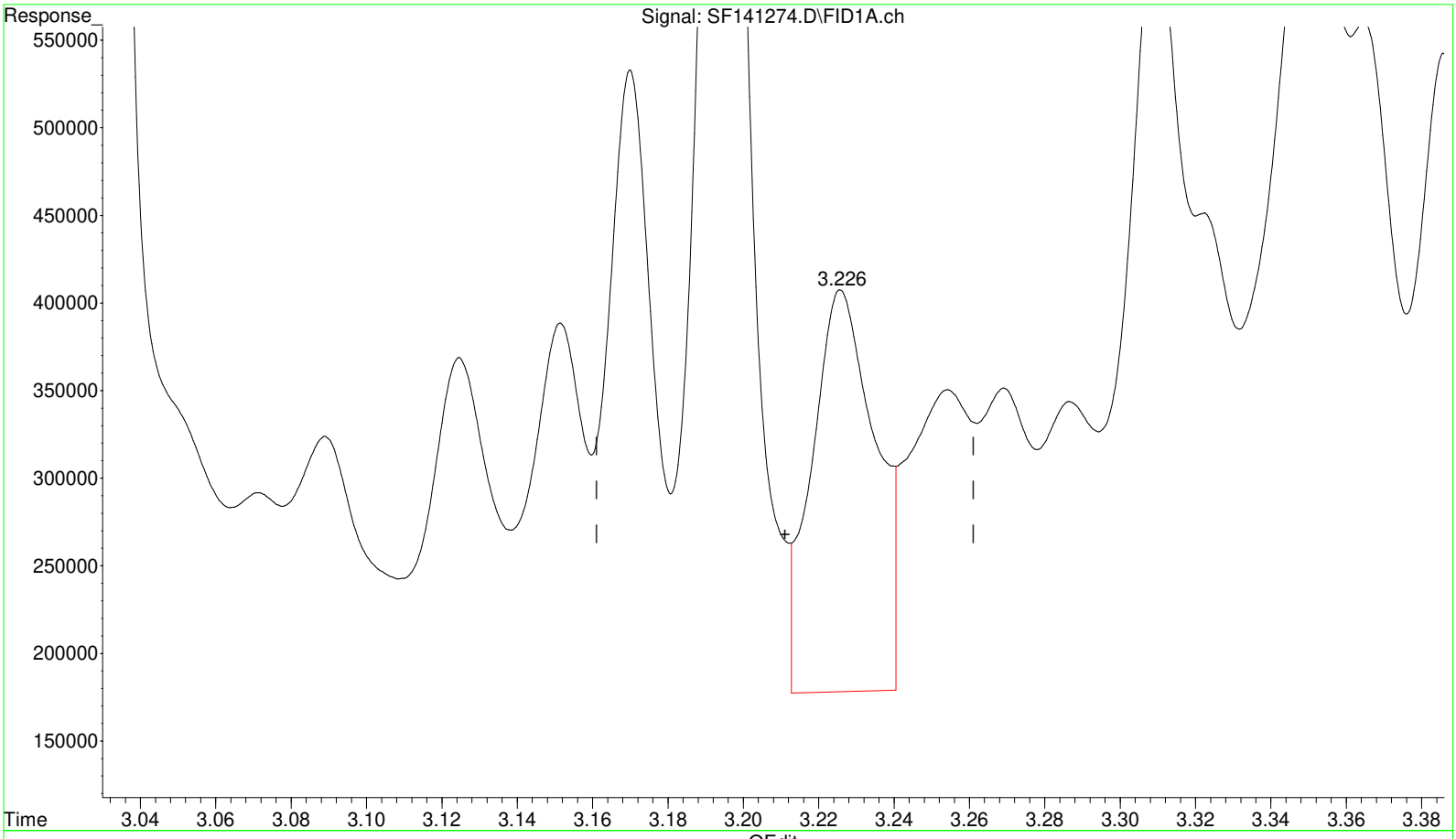
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.226min 48.623 µg/mL

response 2672578

O-RP
Apr 30, 2024

Zashid Hamu

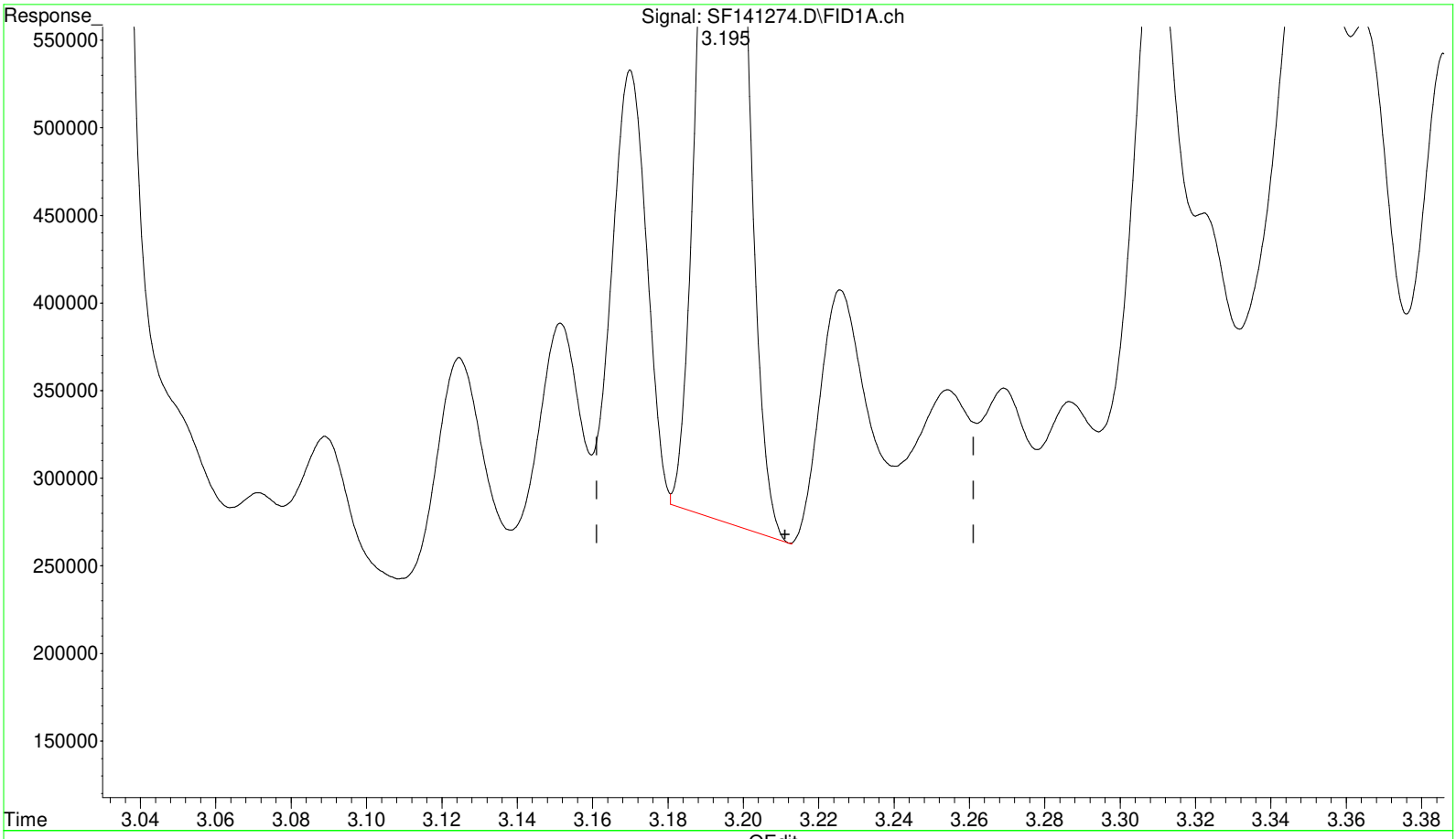
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : Z:\DATA\SF\Data\SF04292024\
Data File : SF141274.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2024 19:40
Operator : T.L
Sample : 1241732021
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 30 09:49:32 2024
Quant Method : Z:\DATA\SF\Method\SFF2024-0418F.M
Quant Title : DRO/RRO by Method AK 102/103
QLast Update : Thu Apr 18 16:01:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) DTC<Surr> (S)

3.195min 95.893 µg/mL m

response 5270786

M-RP

Apr 30, 2024

Zashid Hamu

(+) = Expected Retention Time

Laboratory Report of Analysis

To: TALCES JV, LLC
2710 Wesleyan Drive
Anchorage, AK 99508

Report Number: **1241880**

Client Project: **697DCK-24-C-00040 Ralston Is**

Dear Julie Dahl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

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Case Narrative

SGS Client: **TALCES JV, LLC**
SGS Project: **1241880**
Project Name/Site: **697DCK-24-C-00040 Ralston Is**
Project Contact: **Julie Dahl**

Refer to sample receipt form for information on sample condition.

RIR24MW001(1241880001BMSD) (1241880003) BMSD

AK102 - DRO recovery in BMSD does not meet QC criteria. Refer LCS/LCSD for accuracy requirements.

RIR24SW000SP7-1(1241880006BMS) (1241880007) BMS

AK102 - DRO recovery in BMS does not meet QC criteria. Refer LCS/LCSD for accuracy requirements.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RIR24MW001	1241880001	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW001(1241880001BMS)	1241880002	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW001(1241880001BMSD	1241880003	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW0019	1241880004	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000SP9-1	1241880005	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000SP7-1	1241880006	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000SP7-1(1241880006I	1241880007	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000S...(1241880006BM	1241880008	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000SP7-19	1241880009	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24SW000SP5-1	1241880010	04/28/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW002	1241880011	04/29/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW003	1241880012	04/29/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW004	1241880013	04/30/2024	05/03/2024	Water (Surface, Eff., Ground)
RIR24MW005	1241880014	05/02/2024	05/03/2024	Water (Surface, Eff., Ground)

Method	Method Description
AK102	DRO Low Volume (W)

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Detectable Results Summary

Client Sample ID: **RIR24MW001**
Lab Sample ID: 1241880001

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.228J	mg/L

Client Sample ID: **RIR24MW0019**
Lab Sample ID: 1241880004

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.336J	mg/L

Client Sample ID: **RIR24SW000SP9-1**
Lab Sample ID: 1241880005

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.608	mg/L

Client Sample ID: **RIR24SW000SP7-1**
Lab Sample ID: 1241880006

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.308J	mg/L

Client Sample ID: **RIR24SW000SP7-19**
Lab Sample ID: 1241880009

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.218J	mg/L

Client Sample ID: **RIR24SW000SP5-1**
Lab Sample ID: 1241880010

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.901	mg/L

Client Sample ID: **RIR24MW002**
Lab Sample ID: 1241880011

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.287J	mg/L

Client Sample ID: **RIR24MW003**
Lab Sample ID: 1241880012

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.327J	mg/L

Client Sample ID: **RIR24MW004**
Lab Sample ID: 1241880013

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.422J	mg/L

Client Sample ID: **RIR24MW005**
Lab Sample ID: 1241880014

Semivolatile Organic Fuels	Parameter	Result	Units
	Diesel Range Organics	0.276J	mg/L

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Results of **RIR24MW001**

Client Sample ID: **RIR24MW001**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880001
Lab Project ID: 1241880

Collection Date: 04/28/24 13:52
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.228	J	0.605	0.202	0.454	mg/L	1		05/07/24 20:22
Surrogates									
5a Androstane (surr)	66.4		50-150			%	1		05/07/24 20:22

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 20:22
Container ID: 1241880001-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 248 mL
Prep Extract Vol: 1 mL

Results of **RIR24MW0019**

Client Sample ID: **RIR24MW0019**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880004
Lab Project ID: 1241880

Collection Date: 04/28/24 13:53
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.336	J	0.610	0.203	0.458	mg/L	1		05/07/24 20:50
Surrogates									
5a Androstane (surr)	70.8		50-150			%	1		05/07/24 20:50

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 20:50
Container ID: 1241880004-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 246 mL
Prep Extract Vol: 1 mL

Results of **RIR24SW000SP9-1**

Client Sample ID: **RIR24SW000SP9-1**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880005
Lab Project ID: 1241880

Collection Date: 04/28/24 17:00
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.608		0.591	0.197	0.443	mg/L	1		05/07/24 21:00
Surrogates									
5a Androstane (surr)	91.4		50-150			%	1		05/07/24 21:00

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 21:00
Container ID: 1241880005-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 254 mL
Prep Extract Vol: 1 mL

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Results of **RIR24SW000SP7-1**

Client Sample ID: **RIR24SW000SP7-1**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880006
Lab Project ID: 1241880

Collection Date: 04/28/24 17:10
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.308	J	0.591	0.197	0.443	mg/L	1		05/07/24 21:09
Surrogates									
5a Androstane (surr)	63.1		50-150			%	1		05/07/24 21:09

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 21:09
Container ID: 1241880006-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 254 mL
Prep Extract Vol: 1 mL

Results of **RIR24SW000SP7-19**

Client Sample ID: **RIR24SW000SP7-19**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880009
Lab Project ID: 1241880

Collection Date: 04/28/24 17:11
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.218	J	0.566	0.189	0.424	mg/L	1		05/07/24 21:38
Surrogates									
5a Androstane (surr)	67.8		50-150			%	1		05/07/24 21:38

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 21:38
Container ID: 1241880009-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Results of **RIR24SW000SP5-1**

Client Sample ID: **RIR24SW000SP5-1**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880010
Lab Project ID: 1241880

Collection Date: 04/28/24 17:30
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.901		0.556	0.185	0.417	mg/L	1		05/07/24 21:47
Surrogates									
5a Androstane (surr)	80		50-150			%	1		05/07/24 21:47

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 21:47
Container ID: 1241880010-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

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Results of **RIR24MW002**

Client Sample ID: **RIR24MW002**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880011
Lab Project ID: 1241880

Collection Date: 04/29/24 13:18
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.287	J	0.564	0.188	0.423	mg/L	1		05/07/24 21:57
Surrogates									
5a Androstane (surr)	88.2		50-150			%	1		05/07/24 21:57

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 21:57
Container ID: 1241880011-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 266 mL
Prep Extract Vol: 1 mL

Results of **RIR24MW003**

Client Sample ID: **RIR24MW003**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880012
Lab Project ID: 1241880

Collection Date: 04/29/24 14:10
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.327	J	0.556	0.185	0.417	mg/L	1		05/07/24 22:06
Surrogates									
5a Androstane (surr)	77.2		50-150			%	1		05/07/24 22:06

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 22:06
Container ID: 1241880012-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Results of **RIR24MW004**

Client Sample ID: **RIR24MW004**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880013
Lab Project ID: 1241880

Collection Date: 04/30/24 10:02
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.422	J	0.577	0.192	0.433	mg/L	1		05/07/24 22:16
Surrogates									
5a Androstane (surr)	64.3		50-150			%	1		05/07/24 22:16

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 22:16
Container ID: 1241880013-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Results of **RIR24MW005**

Client Sample ID: **RIR24MW005**
Client Project ID: **697DCK-24-C-00040 Ralston Is**
Lab Sample ID: 1241880014
Lab Project ID: 1241880

Collection Date: 05/02/24 09:50
Received Date: 05/03/24 07:58
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.276	J	0.551	0.184	0.413	mg/L	1		05/07/24 22:26
Surrogates									
5a Androstane (surr)	81.2		50-150			%	1		05/07/24 22:26

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Analyst: T.L
Analytical Date/Time: 05/07/24 22:26
Container ID: 1241880014-A

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 05/06/24 17:15
Prep Initial Wt./Vol.: 272 mL
Prep Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1878334 [XXX/49420]
Blank Lab ID: 1762269

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1241880001, 1241880004, 1241880005, 1241880006, 1241880009, 1241880010, 1241880011, 1241880012, 1241880013, 1241880014

Results by **AK102**

Parameter	Results	LOQ/CL	DL	LOD	Units
Diesel Range Organics	0.450U	0.600	0.200	0.450	mg/L
Surrogates					
5a Androstane (surr)	81.4	60-120		0	%

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: NGG
Analytical Date/Time: 5/7/2024 3:17:00PM

Prep Batch: XXX49420
Prep Method: SW3520C
Prep Date/Time: 5/6/2024 5:15:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 05/29/2024 10:11:29AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1241880 [XXX49420]
Blank Spike Lab ID: 1762270
Date Analyzed: 05/07/2024 15:26

Spike Duplicate ID: LCSD for HBN 1241880 [XXX49420]
Spike Duplicate Lab ID: 1762271
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1241880001, 1241880004, 1241880005, 1241880006, 1241880009, 1241880010, 1241880011, 1241880012, 1241880013, 1241880014

Results by **AK102**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	20	19.2	96	20	19.4	97	(75-125)	1.00	(< 20)
Surrogates									
5a Androstane (surr)	0.4		116	0.4		112	(60-120)	3.50	

Batch Information

Analytical Batch: **XFC16860**
Analytical Method: **AK102**
Instrument: **Agilent 7890B F**
Analyst: **NGG**

Prep Batch: **XXX49420**
Prep Method: **SW3520C**
Prep Date/Time: **05/06/2024 17:15**
Spike Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.4 mg/L Extract Vol: 1 mL

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Billable Matrix Spike Summary

Original Sample ID: 1241880001
MS Sample ID: 1241880002 BMS
MSD Sample ID: 1241880003 BMSD

Analysis Date: 05/07/2024 20:22
Analysis Date: 05/07/2024 20:31
Analysis Date: 05/07/2024 20:41
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	0.228J	20.2	17.8	87	20.0	14.9	73 *	75-125	17.40	(< 30)
Surrogates										
5a Androstane (surr)		0.403	.429	106	0.400	0.383	96	50-150	11.20	

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 5/7/2024 8:31:00PM

Prep Batch: XXX49420
Prep Method: Cont. Liq/Liq Ext. for AK102 Low Volume
Prep Date/Time: 5/6/2024 5:15:00PM
Prep Initial Wt./Vol.: 248.00mL
Prep Extract Vol: 1.00mL

Print Date: 05/29/2024 10:11:35AM

Billable Matrix Spike Summary

Original Sample ID: 1241880006
MS Sample ID: 1241880007 BMS
MSD Sample ID: 1241880008 BMSD

Analysis Date: 05/07/2024 21:09
Analysis Date: 05/07/2024 21:19
Analysis Date: 05/07/2024 21:28
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **AK102**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Diesel Range Organics	0.308J	19.8	14.8	73	*	19.8	17.6	87	75-125	17.00	(< 30)
Surrogates											
5a Androstane (surr)		0.397	.361	91		0.397	0.402	101	50-150	10.80	

Batch Information

Analytical Batch: XFC16860
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: T.L
Analytical Date/Time: 5/7/2024 9:19:00PM

Prep Batch: XXX49420
Prep Method: Cont. Liq/Liq Ext. for AK102 Low Volume
Prep Date/Time: 5/6/2024 5:15:00PM
Prep Initial Wt./Vol.: 252.00mL
Prep Extract Vol: 1.00mL

Print Date: 05/29/2024 10:11:35AM

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CHAIN OF CUSTODY RECORD

1241880

Profile #409567

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Section 1

CLIENT: TALCES JV, LLC

CONTACT: Greg DuBois — PHONE #: 1 (907) 830-8360

PROJECT NAME: Ralston Island RI — PROJECT/ PWSID/ PERMIT#: 697DCK-24-C-00040

REPORTS TO: Julie Dahl — E-MAIL: jdahl@alaskapeninsulacorp.com — Profile #:

INVOICE TO: TALCES JV, LLC — QUOTE #: — P.O. #: Ralston Is.

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* 4°C / HCL: AK102	Analysis* 4°C: DRO-SG	REMARKS/LOC ID
1RB	RIR24 MW001	4/28/24	1352	GW	6	Grab	X		MS/MSD
4RB	RIR24 MW0019	4/28/24	1353	GW	2	Grab	X		
5RB	RIR24 SW000SP9-1	4/28/24	1700	SW	2	Grab	X		
6RB	RIR24 SW000SP7-1	4/28/24	1710	SW	6	Grab	X		MS/MSD
9RB	RIR24 SW000SP7-19	4/28/24	1711	SW	2	Grab	X		
10RB	RIR24 SW000 SP5-1	4/28/24	1730	SW	2	Grab	X		
11RB	RIR24 MW002	4/29/24	1318	GW	2	Grab	X		
12RB	RIR24 MW003	4/29/24	1410	GW	2	Grab	X		
13RB	RIR24 MW004	4/30/24	1002	GW	2	Grab	X		High Turbidity 100-150
14RB	RIR24 MW005	5/2/24	0950	GW	2	Grab	X		" " 100-150

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

	Date	Time	
Relinquished By: (1) Robert Melrose	5/2/24	1800	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 5/3/24	Time 0758	Received For Laboratory By:

Section 4 — DOD Project? Yes No — Data Deliverable Requirements:

Cooler ID: RIR006

Requested Turnaround Time and/or Special Instructions: ~~24 Hour TAT~~ STANDARD Rm.

Temp Blank °C: 4.0° #021 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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1241880

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SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	SPIKE
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials:

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

F102B_SRF_10202022

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1241880001-A	HCL to pH < 2	OK			
1241880001-B	HCL to pH < 2	OK			
1241880002-A	HCL to pH < 2	OK			
1241880002-B	HCL to pH < 2	OK			
1241880003-A	HCL to pH < 2	OK			
1241880003-B	HCL to pH < 2	OK			
1241880004-A	HCL to pH < 2	OK			
1241880004-B	HCL to pH < 2	OK			
1241880005-A	HCL to pH < 2	OK			
1241880005-B	HCL to pH < 2	OK			
1241880006-A	HCL to pH < 2	OK			
1241880006-B	HCL to pH < 2	OK			
1241880007-A	HCL to pH < 2	OK			
1241880007-B	HCL to pH < 2	OK			
1241880008-A	HCL to pH < 2	OK			
1241880008-B	HCL to pH < 2	OK			
1241880009-A	HCL to pH < 2	OK			
1241880009-B	HCL to pH < 2	OK			
1241880010-A	HCL to pH < 2	OK			
1241880010-B	HCL to pH < 2	OK			
1241880011-A	HCL to pH < 2	OK			
1241880011-B	HCL to pH < 2	OK			
1241880012-A	HCL to pH < 2	OK			
1241880012-B	HCL to pH < 2	OK			
1241880013-A	HCL to pH < 2	OK			
1241880013-B	HCL to pH < 2	OK			
1241880014-A	HCL to pH < 2	OK			
1241880014-B	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jody Dillon
TALCES JV, LLC
2710 Wesleyan Drive
Anchorage AK 99508

Generated 10/29/2024 11:55 AM

JOB DESCRIPTION

Ralston Island RI / 697DCK-24-C-00040
SP9 & Background

JOB NUMBER

580-144975-1

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424

See page two for job notes and contact information.

my EOL

Eurofins Seattle

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

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Authorized for release by
Laura Schick, Project Manager
Laura.Schick@et.eurofinsus.com

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
580-144975-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2024 3:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
Client provided a revised COC via email to the laboratory. Sample IDs for samples 1 through 7 were missing a 9 following the "SP" on the original COC. Both COC's have been included in the final report: RIR24SS219SP902 (580-144975-1), RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS222SP903 (580-144975-5), RIR24SS223SP903.5 (580-144975-6) and RIR24SS224SP904.5 (580-144975-7).

Method AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)
Samples RIR24SS219SP902 (580-144975-1), RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS222SP903 (580-144975-5), RIR24SS223SP903.5 (580-144975-6), RIR24SS224SP904.5 (580-144975-7), RIR24SS225BKG02 (580-144975-8), RIR24SS226BKG04.5 (580-144975-9), RIR24SS227BKG01.5 (580-144975-10), RIR24SS227BKG01.5 (580-144975-10MS), RIR24SS227BKG01.5 (580-144975-10MSD) and RIR24SS228BKG03.5 (580-144975-11) were analyzed for Alaska - Diesel Range Organics & Residual Range Organics (GC). The samples were prepared on 10/21/2024 and analyzed on 10/22/2024 and 10/23/2024.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The sample absorbed the entire volume of initial solvent added during microwave process. An additional 40mL of DCM was added after microwaving to allow for extraction.

The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern is not the typical diesel fuel pattern used by the laboratory for quantitative purposes: RIR24SS219SP902 (580-144975-1), RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS222SP903 (580-144975-5), RIR24SS223SP903.5 (580-144975-6), RIR24SS224SP904.5 (580-144975-7), RIR24SS225BKG02 (580-144975-8), RIR24SS226BKG04.5 (580-144975-9), RIR24SS227BKG01.5 (580-144975-10) and RIR24SS228BKG03.5 (580-144975-11).

Method AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up
Samples RIR24SS219SP902 (580-144975-1), RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS222SP903 (580-144975-5), RIR24SS223SP903.5 (580-144975-6), RIR24SS224SP904.5 (580-144975-7), RIR24SS225BKG02 (580-144975-8), RIR24SS226BKG04.5 (580-144975-9), RIR24SS227BKG01.5 (580-144975-10), RIR24SS227BKG01.5 (580-144975-10MS), RIR24SS227BKG01.5 (580-144975-10MSD) and RIR24SS228BKG03.5 (580-144975-11) were analyzed for Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up. The samples were prepared on 10/21/2024 and analyzed on 10/23/2024.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The sample absorbed the entire volume of initial solvent added during microwave process. An additional 40mL of DCM was added after microwaving to allow for extraction.

The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern is not the typical diesel fuel pattern used by the laboratory for quantitative purposes: RIR24SS219SP902 (580-144975-1),

RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS225BKG02 (580-144975-8) and RIR24SS228BKG03.5 (580-144975-11).

Interpretation of Chromatographic Pattern

Client ID	Lab Sample ID	AK102 Pre-SG (mg/Kg)	AK102 Post-SG (mg/Kg)	Pattern
RIR24SS219SP902	580-144975-1	520	170	Both
RIR24SS219SP9029	580-144975-2	360	51	Biogenic
RIR24SS220SP902	580-144975-3	430	95	Biogenic
RIR24SS221SP903	580-144975-4	440	61	Biogenic
RIR24SS222SP903	580-144975-5	180	18	Biogenic
RIR24SS223SP903.5	580-144975-6	470	33	Biogenic
RIR24SS224SP904.5	580-144975-7	420	41	Biogenic
RIR24SS225BKG02	580-144975-8	340	44	Biogenic
RIR24SS226BKG04.5	580-144975-9	250	23	Biogenic
RIR24SS227BKG01.5	580-144975-10	150	16	Biogenic
RIR24SS228BKG03.5	580-144975-11	640	100	Biogenic

Method 2540G - SM 2540G

Samples RIR24SS219SP902 (580-144975-1), RIR24SS219SP9029 (580-144975-2), RIR24SS220SP902 (580-144975-3), RIR24SS221SP903 (580-144975-4), RIR24SS222SP903 (580-144975-5), RIR24SS223SP903.5 (580-144975-6), RIR24SS224SP904.5 (580-144975-7), RIR24SS225BKG02 (580-144975-8), RIR24SS226BKG04.5 (580-144975-9), RIR24SS227BKG01.5 (580-144975-10) and RIR24SS228BKG03.5 (580-144975-11) were analyzed for SM 2540G. The samples were analyzed on 10/21/2024.

Detection Summary

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Client Sample ID: RIR24SS219SP902 — Lab Sample ID: 580-144975-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	520		25	11	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	170		25	11	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS219SP9029 — Lab Sample ID: 580-144975-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	360		27	12	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	51		27	12	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS220SP902 — Lab Sample ID: 580-144975-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	430		27	12	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	95		27	12	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS221SP903 — Lab Sample ID: 580-144975-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	440		34	15	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	61		34	15	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS222SP903 — Lab Sample ID: 580-144975-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	180		28	13	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	18	J	28	13	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS223SP903.5 — Lab Sample ID: 580-144975-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	470		39	17	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	33	J	39	17	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS224SP904.5 — Lab Sample ID: 580-144975-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	420		67	30	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	41	J	67	30	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS225BKG02 — Lab Sample ID: 580-144975-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	340		30	13	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	44		30	13	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS226BKG04.5 — Lab Sample ID: 580-144975-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	250		30	13	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	23	J	30	13	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS227BKG01.5 — Lab Sample ID: 580-144975-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	150		32	14	mg/Kg	1	☼	AK102 & 103	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RIR24SS227BKG01.5 (Continued) — Lab Sample ID: 580-144975-10

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	16	J	32	14	mg/Kg	1	☼	AK102/103	Total/NA

Client Sample ID: RIR24SS228BKG03.5 — Lab Sample ID: 580-144975-11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
DRO (nC10-<nC25)	640		39	17	mg/Kg	1	☼	AK102 & 103	Total/NA
DRO (nC10-<nC25)	100		39	17	mg/Kg	1	☼	AK102/103	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RIR24SS219SP902

Lab Sample ID: 580-144975-1
Date Collected: 10/17/24 10:00
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 79.7

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	520		25	11	mg/Kg	☼	10/21/24 12:59	10/22/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*10/21/24 12:59*	*10/22/24 21:51*	*1*
n-Triacontane-d62	*131*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 21:51*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	170		25	11	mg/Kg	☼	10/21/24 12:59	10/23/24 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*50 - 150*	*10/21/24 12:59*	*10/23/24 03:10*	*1*
n-Triacontane-d62	*139*	*M*	*50 - 150*	*10/21/24 12:59*	*10/23/24 03:10*	*1*

Client Sample ID: RIR24SS219SP9029

Lab Sample ID: 580-144975-2
Date Collected: 10/17/24 10:01
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 72.7

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	360		27	12	mg/Kg	☼	10/21/24 12:59	10/22/24 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*112*		*50 - 150*	*10/21/24 12:59*	*10/22/24 22:11*	*1*
n-Triacontane-d62	*80*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 22:11*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	51		27	12	mg/Kg	☼	10/21/24 12:59	10/23/24 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*50 - 150*	*10/21/24 12:59*	*10/23/24 03:30*	*1*
n-Triacontane-d62	*105*		*50 - 150*	*10/21/24 12:59*	*10/23/24 03:30*	*1*

Client Sample ID: RIR24SS220SP902

Lab Sample ID: 580-144975-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 66.4

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	430		27	12	mg/Kg	☼	10/21/24 12:59	10/22/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*50 - 150*	*10/21/24 12:59*	*10/22/24 22:31*	*1*
n-Triacontane-d62	*84*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 22:31*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	95		27	12	mg/Kg	☼	10/21/24 12:59	10/23/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*50 - 150*	*10/21/24 12:59*	*10/23/24 03:50*	*1*
n-Triacontane-d62	*87*		*50 - 150*	*10/21/24 12:59*	*10/23/24 03:50*	*1*

Client Sample ID: RIR24SS221SP903

Lab Sample ID: 580-144975-4

Date Collected: 10/17/24 11:00
Date Received: 10/18/24 15:24

Matrix: Solid
Percent Solids: 56.6

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	440		34	15	mg/Kg	☼	10/21/24 12:59	10/22/24 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*10/21/24 12:59*	*10/22/24 22:51*	*1*
n-Triacontane-d62	*90*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 22:51*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	61		34	15	mg/Kg	☼	10/21/24 12:59	10/23/24 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*10/21/24 12:59*	*10/23/24 04:30*	*1*
n-Triacontane-d62	*94*		*50 - 150*	*10/21/24 12:59*	*10/23/24 04:30*	*1*

Client Sample ID: RIR24SS222SP903

Lab Sample ID: 580-144975-5

Date Collected: 10/17/24 11:30
Date Received: 10/18/24 15:24

Matrix: Solid
Percent Solids: 66.8

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	180		28	13	mg/Kg	☼	10/21/24 12:59	10/22/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*109*		*50 - 150*	*10/21/24 12:59*	*10/22/24 23:11*	*1*
n-Triacontane-d62	*78*		*50 - 150*	*10/21/24 12:59*	*10/22/24 23:11*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	18	J	28	13	mg/Kg	☼	10/21/24 12:59	10/23/24 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*50 - 150*	*10/21/24 12:59*	*10/23/24 04:50*	*1*
n-Triacontane-d62	*96*		*50 - 150*	*10/21/24 12:59*	*10/23/24 04:50*	*1*

Client Sample ID: RIR24SS223SP903.5

Lab Sample ID: 580-144975-6

Date Collected: 10/17/24 12:00
Date Received: 10/18/24 15:24

Matrix: Solid
Percent Solids: 49.1

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	470		39	17	mg/Kg	☼	10/21/24 12:59	10/22/24 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*10/21/24 12:59*	*10/22/24 23:51*	*1*
n-Triacontane-d62	*73*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 23:51*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	33	J	39	17	mg/Kg	☼	10/21/24 12:59	10/23/24 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:10*	*1*
n-Triacontane-d62	*96*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:10*	*1*

Client Sample ID: RIR24SS224SP904.5

Lab Sample ID: 580-144975-7

Date Collected: 10/17/24 12:30
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 29.8

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	420		67	30	mg/Kg	☼	10/21/24 12:59	10/23/24 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*10/21/24 12:59*	*10/23/24 00:11*	*1*
n-Triacontane-d62	*75*	*M*	*50 - 150*	*10/21/24 12:59*	*10/23/24 00:11*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	41	J	67	30	mg/Kg	☼	10/21/24 12:59	10/23/24 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:30*	*1*
n-Triacontane-d62	*93*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:30*	*1*

Client Sample ID: RIR24SS225BKG02

Lab Sample ID: 580-144975-8

Date Collected: 10/17/24 13:00
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 63.6

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	340		30	13	mg/Kg	☼	10/21/24 12:59	10/23/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*10/21/24 12:59*	*10/23/24 00:31*	*1*
n-Triacontane-d62	*60*	*M*	*50 - 150*	*10/21/24 12:59*	*10/23/24 00:31*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	44		30	13	mg/Kg	☼	10/21/24 12:59	10/23/24 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:50*	*1*
n-Triacontane-d62	*86*		*50 - 150*	*10/21/24 12:59*	*10/23/24 05:50*	*1*

Client Sample ID: RIR24SS226BKG04.5

Lab Sample ID: 580-144975-9

Date Collected: 10/17/24 13:02
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 66.2

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	250		30	13	mg/Kg	☼	10/21/24 12:59	10/23/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*10/21/24 12:59*	*10/23/24 00:51*	*1*
n-Triacontane-d62	*65*	*M*	*50 - 150*	*10/21/24 12:59*	*10/23/24 00:51*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	23	J	30	13	mg/Kg	☼	10/21/24 12:59	10/23/24 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*10/21/24 12:59*	*10/23/24 06:10*	*1*
n-Triacontane-d62	*99*		*50 - 150*	*10/21/24 12:59*	*10/23/24 06:10*	*1*

Client Sample ID: RIR24SS227BKG01.5
Lab Sample ID: 580-144975-10

Date Collected: 10/17/24 13:30
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 63.0

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	150		32	14	mg/Kg	☼	10/21/24 12:59	10/22/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*10/21/24 12:59*	*10/22/24 20:51*	*1*
n-Triacontane-d62	*67*	*M*	*50 - 150*	*10/21/24 12:59*	*10/22/24 20:51*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	16	J	32	14	mg/Kg	☼	10/21/24 12:59	10/23/24 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*50 - 150*	*10/21/24 12:59*	*10/23/24 02:11*	*1*
n-Triacontane-d62	*92*		*50 - 150*	*10/21/24 12:59*	*10/23/24 02:11*	*1*

Client Sample ID: RIR24SS228BKG03.5
Lab Sample ID: 580-144975-11

Date Collected: 10/17/24 13:32
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 48.7

Method: ADEC AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	640		39	17	mg/Kg	☼	10/21/24 12:59	10/23/24 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*10/21/24 12:59*	*10/23/24 01:11*	*1*
n-Triacontane-d62	*70*	*M*	*50 - 150*	*10/21/24 12:59*	*10/23/24 01:11*	*1*

Method: ADEC AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	100		39	17	mg/Kg	☼	10/21/24 12:59	10/23/24 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*50 - 150*	*10/21/24 12:59*	*10/23/24 06:30*	*1*
n-Triacontane-d62	*90*		*50 - 150*	*10/21/24 12:59*	*10/23/24 06:30*	*1*

Default Detection Limits

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Prep: 3546

Analyte	LOQ	DL	Units
DRO (nC10-<nC25)	20	8.9	mg/Kg

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Prep: 3546

Analyte	LOQ	DL	Units
DRO (nC10-<nC25)	20	8.9	mg/Kg

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-150)	NTC (50-150)
580-144975-1	RIR24SS219SP902	103	131 M
580-144975-2	RIR24SS219SP9029	112	80 M
580-144975-3	RIR24SS220SP902	118	84 M
580-144975-4	RIR24SS221SP903	91	90 M
580-144975-5	RIR24SS222SP903	109	78
580-144975-6	RIR24SS223SP903.5	106	73 M
580-144975-7	RIR24SS224SP904.5	97	75 M
580-144975-8	RIR24SS225BKG02	92	60 M
580-144975-9	RIR24SS226BKG04.5	93	65 M
580-144975-10	RIR24SS227BKG01.5	97	67 M
580-144975-10 MS	RIR24SS227BKG01.5	80 M	72 M
580-144975-10 MSD	RIR24SS227BKG01.5	82	69 M
580-144975-11	RIR24SS228BKG03.5	95	70 M

Surrogate Legend

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (60-120)	NTC (60-120)
LCS 580-475429/2-A	Lab Control Sample	97	81
MB 580-475429/1-A	Method Blank	109	86

Surrogate Legend

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (50-150)	NTC (50-150)
580-144975-1	RIR24SS219SP902	102	139 M
580-144975-2	RIR24SS219SP9029	107	105
580-144975-3	RIR24SS220SP902	111	87
580-144975-4	RIR24SS221SP903	95	94
580-144975-5	RIR24SS222SP903	113	96
580-144975-6	RIR24SS223SP903.5	106	96
580-144975-7	RIR24SS224SP904.5	102	93
580-144975-8	RIR24SS225BKG02	92	86
580-144975-9	RIR24SS226BKG04.5	97	99
580-144975-10	RIR24SS227BKG01.5	102	92
580-144975-10 MS	RIR24SS227BKG01.5	87	138
580-144975-10 MSD	RIR24SS227BKG01.5	89	138
580-144975-11	RIR24SS228BKG03.5	95	90

Surrogate Legend

Surrogate Summary

Client: TALCES JV, LLC
Job ID: 580-144975-1
Project/Site: Ralston Island RI / 697DCK-24-C-00040
SDG: SP9 & Background

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	**Client Sample ID**	**OTPH (60-120)**	**NTC (60-120)**								
LCS 580-475429/2-B	Lab Control Sample	96	86								
MB 580-475429/1-B	Method Blank	112	98								

Surrogate Legend

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-475429/1-A
Matrix: Solid
Analysis Batch: 475534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475429

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	15	U	20	8.9	mg/Kg		10/21/24 12:59	10/22/24 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*109*		*60 - 120*	*10/21/24 12:59*	*10/22/24 20:11*	*1*
n-Triacontane-d62	*86*		*60 - 120*	*10/21/24 12:59*	*10/22/24 20:11*	*1*

Lab Sample ID: LCS 580-475429/2-A
Matrix: Solid
Analysis Batch: 475534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (nC10-<nC25)	500	492		mg/Kg		98	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*97*		*60 - 120*
n-Triacontane-d62	*81*		*60 - 120*

Lab Sample ID: 580-144975-10 MS
Matrix: Solid
Analysis Batch: 475534

Client Sample ID: RIR24SS227BKG01.5
Prep Type: Total/NA
Prep Batch: 475429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (nC10-<nC25)	150		787	907		mg/Kg	☼	96	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*80*	*M*	*50 - 150*
n-Triacontane-d62	*72*	*M*	*50 - 150*

Lab Sample ID: 580-144975-10 MSD
Matrix: Solid
Analysis Batch: 475534

Client Sample ID: RIR24SS227BKG01.5
Prep Type: Total/NA
Prep Batch: 475429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (nC10-<nC25)	150		738	922		mg/Kg	☼	104	75 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*82*		*50 - 150*
n-Triacontane-d62	*69*	*M*	*50 - 150*

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up

Lab Sample ID: MB 580-475429/1-B
Matrix: Solid
Analysis Batch: 475531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475429

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	15	U	20	8.9	mg/Kg		10/21/24 12:59	10/23/24 01:31	1

Method: AK102/103 - Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up (Continued)

Lab Sample ID: MB 580-475429/1-B
Matrix: Solid
Analysis Batch: 475531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475429

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	112		60 - 120	10/21/24 12:59	10/23/24 01:31	1
n-Triacontane-d62	98		60 - 120	10/21/24 12:59	10/23/24 01:31	1

Lab Sample ID: LCS 580-475429/2-B
Matrix: Solid
Analysis Batch: 475531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475429

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (nC10-<nC25)			500	523		mg/Kg		105	75 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	96		60 - 120
n-Triacontane-d62	86		60 - 120

Lab Sample ID: 580-144975-10 MS
Matrix: Solid
Analysis Batch: 475531

Client Sample ID: RIR24SS227BKG01.5
Prep Type: Total/NA
Prep Batch: 475429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
DRO (nC10-<nC25)	16	J	787	818		mg/Kg	☼	102	75 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	87		50 - 150
n-Triacontane-d62	138		50 - 150

Lab Sample ID: 580-144975-10 MSD
Matrix: Solid
Analysis Batch: 475531

Client Sample ID: RIR24SS227BKG01.5
Prep Type: Total/NA
Prep Batch: 475429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (nC10-<nC25)	16	J	738	774		mg/Kg	☼	103	75 - 125	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	89		50 - 150
n-Triacontane-d62	138		50 - 150

GC Semi VOA

Prep Batch: 475429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-1	RIR24SS219SP902	Total/NA	Solid	3546	
580-144975-2	RIR24SS219SP9029	Total/NA	Solid	3546	
580-144975-3	RIR24SS220SP902	Total/NA	Solid	3546	
580-144975-4	RIR24SS221SP903	Total/NA	Solid	3546	
580-144975-5	RIR24SS222SP903	Total/NA	Solid	3546	
580-144975-6	RIR24SS223SP903.5	Total/NA	Solid	3546	
580-144975-7	RIR24SS224SP904.5	Total/NA	Solid	3546	
580-144975-8	RIR24SS225BKG02	Total/NA	Solid	3546	
580-144975-9	RIR24SS226BKG04.5	Total/NA	Solid	3546	
580-144975-10	RIR24SS227BKG01.5	Total/NA	Solid	3546	
580-144975-11	RIR24SS228BKG03.5	Total/NA	Solid	3546	
MB 580-475429/1-A	Method Blank	Total/NA	Solid	3546	
MB 580-475429/1-B	Method Blank	Total/NA	Solid	3546	
LCS 580-475429/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 580-475429/2-B	Lab Control Sample	Total/NA	Solid	3546	
580-144975-10 MS	RIR24SS227BKG01.5	Total/NA	Solid	3546	
580-144975-10 MSD	RIR24SS227BKG01.5	Total/NA	Solid	3546	

Cleanup Batch: 475474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-1	RIR24SS219SP902	Total/NA	Solid	3630C	475429
580-144975-2	RIR24SS219SP9029	Total/NA	Solid	3630C	475429
580-144975-3	RIR24SS220SP902	Total/NA	Solid	3630C	475429
580-144975-4	RIR24SS221SP903	Total/NA	Solid	3630C	475429
580-144975-5	RIR24SS222SP903	Total/NA	Solid	3630C	475429
580-144975-6	RIR24SS223SP903.5	Total/NA	Solid	3630C	475429
580-144975-7	RIR24SS224SP904.5	Total/NA	Solid	3630C	475429
580-144975-8	RIR24SS225BKG02	Total/NA	Solid	3630C	475429
580-144975-9	RIR24SS226BKG04.5	Total/NA	Solid	3630C	475429
580-144975-10	RIR24SS227BKG01.5	Total/NA	Solid	3630C	475429
580-144975-11	RIR24SS228BKG03.5	Total/NA	Solid	3630C	475429
MB 580-475429/1-B	Method Blank	Total/NA	Solid	3630C	475429
LCS 580-475429/2-B	Lab Control Sample	Total/NA	Solid	3630C	475429
580-144975-10 MS	RIR24SS227BKG01.5	Total/NA	Solid	3630C	475429
580-144975-10 MSD	RIR24SS227BKG01.5	Total/NA	Solid	3630C	475429

Analysis Batch: 475531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-1	RIR24SS219SP902	Total/NA	Solid	AK102/103	475474
580-144975-2	RIR24SS219SP9029	Total/NA	Solid	AK102/103	475474
580-144975-3	RIR24SS220SP902	Total/NA	Solid	AK102/103	475474
580-144975-4	RIR24SS221SP903	Total/NA	Solid	AK102/103	475474
580-144975-5	RIR24SS222SP903	Total/NA	Solid	AK102/103	475474
580-144975-6	RIR24SS223SP903.5	Total/NA	Solid	AK102/103	475474
580-144975-7	RIR24SS224SP904.5	Total/NA	Solid	AK102/103	475474
580-144975-8	RIR24SS225BKG02	Total/NA	Solid	AK102/103	475474
580-144975-9	RIR24SS226BKG04.5	Total/NA	Solid	AK102/103	475474
580-144975-10	RIR24SS227BKG01.5	Total/NA	Solid	AK102/103	475474
580-144975-11	RIR24SS228BKG03.5	Total/NA	Solid	AK102/103	475474
MB 580-475429/1-B	Method Blank	Total/NA	Solid	AK102/103	475474
LCS 580-475429/2-B	Lab Control Sample	Total/NA	Solid	AK102/103	475474

GC Semi VOA (Continued)

Analysis Batch: 475531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-10 MS	RIR24SS227BKG01.5	Total/NA	Solid	AK102/103	475474
580-144975-10 MSD	RIR24SS227BKG01.5	Total/NA	Solid	AK102/103	475474

Analysis Batch: 475534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-1	RIR24SS219SP902	Total/NA	Solid	AK102 & 103	475429
580-144975-2	RIR24SS219SP9029	Total/NA	Solid	AK102 & 103	475429
580-144975-3	RIR24SS220SP902	Total/NA	Solid	AK102 & 103	475429
580-144975-4	RIR24SS221SP903	Total/NA	Solid	AK102 & 103	475429
580-144975-5	RIR24SS222SP903	Total/NA	Solid	AK102 & 103	475429
580-144975-6	RIR24SS223SP903.5	Total/NA	Solid	AK102 & 103	475429
580-144975-7	RIR24SS224SP904.5	Total/NA	Solid	AK102 & 103	475429
580-144975-8	RIR24SS225BKG02	Total/NA	Solid	AK102 & 103	475429
580-144975-9	RIR24SS226BKG04.5	Total/NA	Solid	AK102 & 103	475429
580-144975-10	RIR24SS227BKG01.5	Total/NA	Solid	AK102 & 103	475429
580-144975-11	RIR24SS228BKG03.5	Total/NA	Solid	AK102 & 103	475429
MB 580-475429/1-A	Method Blank	Total/NA	Solid	AK102 & 103	475429
LCS 580-475429/2-A	Lab Control Sample	Total/NA	Solid	AK102 & 103	475429
580-144975-10 MS	RIR24SS227BKG01.5	Total/NA	Solid	AK102 & 103	475429
580-144975-10 MSD	RIR24SS227BKG01.5	Total/NA	Solid	AK102 & 103	475429

General Chemistry

Analysis Batch: 475449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-1	RIR24SS219SP902	Total/NA	Solid	2540G	
580-144975-2	RIR24SS219SP9029	Total/NA	Solid	2540G	
580-144975-3	RIR24SS220SP902	Total/NA	Solid	2540G	
580-144975-4	RIR24SS221SP903	Total/NA	Solid	2540G	
580-144975-5	RIR24SS222SP903	Total/NA	Solid	2540G	

Analysis Batch: 475460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-144975-6	RIR24SS223SP903.5	Total/NA	Solid	2540G	
580-144975-7	RIR24SS224SP904.5	Total/NA	Solid	2540G	
580-144975-8	RIR24SS225BKG02	Total/NA	Solid	2540G	
580-144975-9	RIR24SS226BKG04.5	Total/NA	Solid	2540G	
580-144975-10	RIR24SS227BKG01.5	Total/NA	Solid	2540G	
580-144975-11	RIR24SS228BKG03.5	Total/NA	Solid	2540G	
580-144975-6 DU	RIR24SS223SP903.5	Total/NA	Solid	2540G	

Client Sample ID: RIR24SS219SP902
Date Collected: 10/17/24 10:00
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475449	SCS	EET SEA	10/21/24 16:03

Client Sample ID: RIR24SS219SP902
Date Collected: 10/17/24 10:00
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-1
Matrix: Solid
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 21:51
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 03:10

Client Sample ID: RIR24SS219SP9029
Date Collected: 10/17/24 10:01
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475449	SCS	EET SEA	10/21/24 16:03

Client Sample ID: RIR24SS219SP9029
Date Collected: 10/17/24 10:01
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-2
Matrix: Solid
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 22:11
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 03:30

Client Sample ID: RIR24SS220SP902
Date Collected: 10/17/24 10:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475449	SCS	EET SEA	10/21/24 16:03

Client Sample ID: RIR24SS220SP902
Date Collected: 10/17/24 10:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-3
Matrix: Solid
Percent Solids: 66.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 22:31

Client Sample ID: RIR24SS220SP902
Lab Sample ID: 580-144975-3
Date Collected: 10/17/24 10:30
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 66.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 03:50

Client Sample ID: RIR24SS221SP903
Lab Sample ID: 580-144975-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475449	SCS	EET SEA	10/21/24 16:03

Client Sample ID: RIR24SS221SP903
Lab Sample ID: 580-144975-4
Date Collected: 10/17/24 11:00
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 56.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 22:51
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 04:30

Client Sample ID: RIR24SS222SP903
Lab Sample ID: 580-144975-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475449	SCS	EET SEA	10/21/24 16:03

Client Sample ID: RIR24SS222SP903
Lab Sample ID: 580-144975-5
Date Collected: 10/17/24 11:30
Matrix: Solid
Date Received: 10/18/24 15:24
Percent Solids: 66.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 23:11
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 04:50

Client Sample ID: RIR24SS223SP903.5
Lab Sample ID: 580-144975-6
Date Collected: 10/17/24 12:00
Matrix: Solid
Date Received: 10/18/24 15:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS223SP903.5
Date Collected: 10/17/24 12:00
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-6
Matrix: Solid
Percent Solids: 49.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 23:51
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 05:10

Client Sample ID: RIR24SS224SP904.5
Date Collected: 10/17/24 12:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS224SP904.5
Date Collected: 10/17/24 12:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-7
Matrix: Solid
Percent Solids: 29.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/23/24 00:11
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 05:30

Client Sample ID: RIR24SS225BKG02
Date Collected: 10/17/24 13:00
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS225BKG02
Date Collected: 10/17/24 13:00
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-8
Matrix: Solid
Percent Solids: 63.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/23/24 00:31
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 05:50

Client Sample ID: RIR24SS226BKG04.5
Date Collected: 10/17/24 13:02
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS226BKG04.5
Date Collected: 10/17/24 13:02
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-9
Matrix: Solid
Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/23/24 00:51
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 06:10

Client Sample ID: RIR24SS227BKG01.5
Date Collected: 10/17/24 13:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS227BKG01.5
Date Collected: 10/17/24 13:30
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-10
Matrix: Solid
Percent Solids: 63.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/22/24 20:51
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 02:11

Client Sample ID: RIR24SS228BKG03.5
Date Collected: 10/17/24 13:32
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540G		1	475460	SCS	EET SEA	10/21/24 17:45

Client Sample ID: RIR24SS228BKG03.5
Date Collected: 10/17/24 13:32
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-11
Matrix: Solid
Percent Solids: 48.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Analysis	AK102 & 103		1	475534	SW	EET SEA	10/23/24 01:11

Lab Chronicle

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Client Sample ID: RIR24SS228BKG03.5

Date Collected: 10/17/24 13:32
Date Received: 10/18/24 15:24

Lab Sample ID: 580-144975-11

Matrix: Solid
Percent Solids: 48.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			475429	TOA	EET SEA	10/21/24 12:59
Total/NA	Cleanup	3630C			475474	ER	EET SEA	10/21/24 20:57
Total/NA	Analysis	AK102/103		1	475531	SW	EET SEA	10/23/24 06:30

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-25

The following analytes are included in this report, but the laboratory is not certified by Alaska (UST) State 20-004. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

ANAB	Dept. of Defense ELAP	L2236	01-19-25

The following analytes are included in this report, but the laboratory is not certified by ANAB Dept. of Defense ELAP L2236. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Method Summary

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Method	Method Description	Protocol	Laboratory
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	EET SEA
AK102/103	Diesel Range Organics & Residual Range Organics with Silica Gel Clean-Up	ADEC	EET SEA
2540G	SM 2540G	SM22	EET SEA
3546	Microwave Extraction	SW846	EET SEA
3630C	Silica Gel Cleanup	SW846	EET SEA

Protocol References:

ADEC = Alaska Department of Environmental Conservation

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: TALCES JV, LLC
Project/Site: Ralston Island RI / 697DCK-24-C-00040

Job ID: 580-144975-1
SDG: SP9 & Background

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-144975-1	RIR24SS219SP902	Solid	10/17/24 10:00	10/18/24 15:24
580-144975-2	RIR24SS219SP9029	Solid	10/17/24 10:01	10/18/24 15:24
580-144975-3	RIR24SS220SP902	Solid	10/17/24 10:30	10/18/24 15:24
580-144975-4	RIR24SS221SP903	Solid	10/17/24 11:00	10/18/24 15:24
580-144975-5	RIR24SS222SP903	Solid	10/17/24 11:30	10/18/24 15:24
580-144975-6	RIR24SS223SP903.5	Solid	10/17/24 12:00	10/18/24 15:24
580-144975-7	RIR24SS224SP904.5	Solid	10/17/24 12:30	10/18/24 15:24
580-144975-8	RIR24SS225BKG02	Solid	10/17/24 13:00	10/18/24 15:24
580-144975-9	RIR24SS226BKG04.5	Solid	10/17/24 13:02	10/18/24 15:24
580-144975-10	RIR24SS227BKG01.5	Solid	10/17/24 13:30	10/18/24 15:24
580-144975-11	RIR24SS228BKG03.5	Solid	10/17/24 13:32	10/18/24 15:24

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129 Analysis Batch Number: 472407

Lab Sample ID: IC 580-472407/12 Client Sample ID:

Date Analyzed: 09/23/24 12:46 Lab File ID: 09232024a024.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Incomplete Integration	S6XW	09/23/24 14:00

Lab Sample ID: IC 580-472407/13 Client Sample ID:

Date Analyzed: 09/23/24 13:06 Lab File ID: 09232024a026.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.40	Split Peak	S6XW	09/23/24 14:01
n-Triacontane-d62	7.99	Incomplete Integration	S6XW	09/23/24 14:01

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 472180

Lab Sample ID: IC 580-472180/3 Client Sample ID:

Date Analyzed: 09/20/24 14:16 Lab File ID: 09202024a013.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:45

Lab Sample ID: IC 580-472180/4 Client Sample ID:

Date Analyzed: 09/20/24 14:35 Lab File ID: 09202024a015.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:46

Lab Sample ID: IC 580-472180/5 Client Sample ID:

Date Analyzed: 09/20/24 14:55 Lab File ID: 09202024a017.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.50	Shouldering	S6XW	09/23/24 07:46

Lab Sample ID: IC 580-472180/6 Client Sample ID:

Date Analyzed: 09/20/24 15:15 Lab File ID: 09202024a019.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.50	Shouldering	S6XW	09/23/24 07:47

Lab Sample ID: IC 580-472180/7 Client Sample ID:

Date Analyzed: 09/20/24 15:34 Lab File ID: 09202024a021.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:47

AK102 & 103

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 472180

Lab Sample ID: IC 580-472180/8 Client Sample ID:

Date Analyzed: 09/20/24 15:54 Lab File ID: 09202024a023.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:47

Lab Sample ID: ICRT 580-472180/9 Client Sample ID:

Date Analyzed: 09/20/24 16:14 Lab File ID: 09202024a025.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:48

Lab Sample ID: IC 580-472180/10 Client Sample ID:

Date Analyzed: 09/20/24 16:34 Lab File ID: 09202024a027.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:48

Lab Sample ID: IC 580-472180/11 Client Sample ID:

Date Analyzed: 09/20/24 17:19 Lab File ID: 09202024a029.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.52	Shouldering	S6XW	09/23/24 07:48

Lab Sample ID: IC 580-472180/12 Client Sample ID:

Date Analyzed: 09/20/24 17:39 Lab File ID: 09202024a031.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.53	Shouldering	S6XW	09/23/24 07:49

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 472180

Lab Sample ID: IC 580-472180/13 Client Sample ID:

Date Analyzed: 09/20/24 17:59 Lab File ID: 09202024a033.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.55	Shouldering	S6XW	09/23/24 07:49

Lab Sample ID: ICV 580-472180/14 Client Sample ID:

Date Analyzed: 09/20/24 18:19 Lab File ID: 09202024a035.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.51	Shouldering	S6XW	09/23/24 07:57

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 475534

Lab Sample ID: RTC 580-475534/2 Client Sample ID:

Date Analyzed: 10/22/24 11:39 Lab File ID: 10222024a003.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.39	Shouldering	S6XW	10/22/24 12:11

Lab Sample ID: CCVRT 580-475534/3 Client Sample ID:

Date Analyzed: 10/22/24 11:59 Lab File ID: 10222024a005.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.39	Shouldering	S6XW	10/22/24 12:18

Lab Sample ID: 580-144975-10 Client Sample ID: RIR24SS227BKG01.5

Date Analyzed: 10/22/24 20:51 Lab File ID: 10222024a057.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:50

Lab Sample ID: 580-144975-10 MS Client Sample ID: RIR24SS227BKG01.5 MS

Date Analyzed: 10/22/24 21:11 Lab File ID: 10222024a059.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.40	Shouldering	S6XW	10/23/24 16:51
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:51

Lab Sample ID: 580-144975-10 MSD Client Sample ID: RIR24SS227BKG01.5 MSD

Date Analyzed: 10/22/24 21:31 Lab File ID: 10222024a061.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:51

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 475534

Lab Sample ID: 580-144975-1 Client Sample ID: RIR24SS219SP902

Date Analyzed: 10/22/24 21:51 Lab File ID: 10222024a063.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:51

Lab Sample ID: 580-144975-2 Client Sample ID: RIR24SS219SP9029

Date Analyzed: 10/22/24 22:11 Lab File ID: 10222024a065.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:52

Lab Sample ID: 580-144975-3 Client Sample ID: RIR24SS220SP902

Date Analyzed: 10/22/24 22:31 Lab File ID: 10222024a067.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:52

Lab Sample ID: 580-144975-4 Client Sample ID: RIR24SS221SP903

Date Analyzed: 10/22/24 22:51 Lab File ID: 10222024a069.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:52

Lab Sample ID: CCV 580-475534/34 Client Sample ID:

Date Analyzed: 10/22/24 23:31 Lab File ID: 10222024a073.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.40	Shouldering	S6XW	10/23/24 08:33

AK102 & 103

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 475534

Lab Sample ID: 580-144975-6 Client Sample ID: RIR24SS223SP903.5

Date Analyzed: 10/22/24 23:51 Lab File ID: 10222024a075.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:53

Lab Sample ID: 580-144975-7 Client Sample ID: RIR24SS224SP904.5

Date Analyzed: 10/23/24 00:11 Lab File ID: 10222024a077.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:53

Lab Sample ID: 580-144975-8 Client Sample ID: RIR24SS225BKG02

Date Analyzed: 10/23/24 00:31 Lab File ID: 10222024a079.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:53

Lab Sample ID: 580-144975-9 Client Sample ID: RIR24SS226BKG04.5

Date Analyzed: 10/23/24 00:51 Lab File ID: 10222024a081.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:53

Lab Sample ID: 580-144975-11 Client Sample ID: RIR24SS228BKG03.5

Date Analyzed: 10/23/24 01:11 Lab File ID: 10222024a083.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.95	Wrong Peak	S6XW	10/23/24 16:53

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Analysis Batch Number: 475534

Lab Sample ID: CCV 580-475534/46 Client Sample ID:

Date Analyzed: 10/23/24 03:10 Lab File ID: 10222024a095.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.40	Shouldering	S6XW	10/23/24 08:34

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129 Analysis Batch Number: 472407

Lab Sample ID: ICV 580-472407/14 Client Sample ID:

Date Analyzed: 09/23/24 13:26 Lab File ID: 09232024a028.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.36	Incomplete Integration	S6XW	09/23/24 14:19

AK102/103

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129 Analysis Batch Number: 475531

Lab Sample ID: 580-144975-1 Client Sample ID: RIR24SS219SP902

Date Analyzed: 10/23/24 03:10 Lab File ID: 10222024a096.D GC Column: ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Triacontane-d62	7.78	Wrong Peak	S6XW	10/23/24 14:54

AK102/103

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TPH Spike_RZ_00140	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		#2 Diesel Fuel	50000 ug/mL
							C10-C15	50000 ug/mL
							C10-C24	50000 ug/mL
							C10-C28	50000 ug/mL
							C10-C36	50000 ug/mL
							C12-C24	50000 ug/mL
							C15-C24	50000 ug/mL
							C16-C36	50000 ug/mL
							C18-C36	50000 ug/mL
							C24-C32	50000 ug/mL
							C24-C36	50000 ug/mL
							C24-C40	50000 ug/mL
							C25-C36	50000 ug/mL
							C28-C40	50000 ug/mL
							C9-C25	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
							Motor Oil	50000 ug/mL
TPH-CCV_500_00142	04/22/25	09/20/24	DCM, Lot CT#272	10 mL	TPH-IC_10000_00120	500 uL	C25-C36	500 mg/L
							DRO (nC10-<nC25)	500 mg/L
							n-Triacontane-d62	7.25 mg/L
							o-Terphenyl	10.4 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-CCV_500_00148	04/22/25	10/21/24	DCM, Lot CT#272	10 mL	TPH-IC_10000_00120	500 uL	n-Triacontane-d62	7.25 mg/L
							o-Terphenyl	10.4 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-CCV_500_00148	04/22/25	10/21/24	DCM, Lot CT#272	10 mL	TPH-IC_10000_00120	500 uL	DRO (nC10-<nC25)	500 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	DRO (nC10-<nC25)	10000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		DRO (nC10-<nC25)	50000 ug/mL
TPH-IC_10_00017	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	10 uL	C25-C36	10 mg/L
							DRO (nC10-<nC25)	10 mg/L
							n-Triacontane-d62	0.145 mg/L
							o-Terphenyl	0.208 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_100_00028	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	100 uL	C25-C36	100 mg/L
							DRO (nC10-<nC25)	100 mg/L
							n-Triacontane-d62	1.45 mg/L
							o-Terphenyl	2.08 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_1000_00025	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	1 mL	C25-C36	1000 mg/L
							DRO (nC10-<nC25)	1000 mg/L
							n-Triacontane-d62	14.5 mg/L
							o-Terphenyl	20.8 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
.TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
.TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
..nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_20_00030	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	20 uL	C25-C36	20 mg/L
							DRO (nC10-<nC25)	20 mg/L
							n-Triacontane-d62	0.29 mg/L
							o-Terphenyl	0.416 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_200_00011	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	200 uL	C25-C36	200 mg/L
							DRO (nC10-<nC25)	200 mg/L
							n-Triacontane-d62	2.9 mg/L
							o-Terphenyl	4.16 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28	Spectrum Chemical, Lot 2DG0543			(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_2000_00012	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	2 mL	C25-C36	2000 mg/L
							DRO (nC10-<nC25)	2000 mg/L
							n-Triacontane-d62	29 mg/L
							o-Terphenyl	41.6 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31	Restek, Lot A0210936			(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28	Spectrum Chemical, Lot 2DG0543			(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_5_00010	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	5 uL	C25-C36	5 mg/L
							DRO (nC10-<nC25)	5 mg/L
							n-Triacontane-d62	0.0725 mg/L
							o-Terphenyl	0.104 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31	Restek, Lot A0210936			(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28	Spectrum Chemical, Lot 2DG0543			(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_50_00027	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	50 uL	C25-C36	50 mg/L
							DRO (nC10-<nC25)	50 mg/L
							n-Triacontane-d62	0.725 mg/L
							o-Terphenyl	1.04 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-IC_5000_00024	04/22/25	09/20/24	DCM, Lot CT#268	10 mL	TPH-IC_10000_00120	5 mL	C25-C36	5000 mg/L
							DRO (nC10-<nC25)	5000 mg/L
							n-Triacontane-d62	72.5 mg/L
							o-Terphenyl	104 mg/L
.TPH-IC_10000_00120	04/22/25	09/20/24	DCM, Lot CT#268	25 mL	TPH Spike_RZ_00127	5 mL	C25-C36	10000 mg/L
							DRO (nC10-<nC25)	10000 mg/L
					TPH_SURR_00090	5 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
..TPH Spike_RZ_00127	05/30/31		Restek, Lot A0210936		(Purchased Reagent)		C25-C36	50000 ug/mL
							DRO (nC10-<nC25)	50000 ug/mL
..TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
...nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
...oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-ICV_10000_00020	04/22/25	09/20/24	DCM, Lot #268	5 mL	TPH_SURR_00090	1 mL	n-Triacontane-d62	145 mg/L
							o-Terphenyl	208 mg/L
.TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
..nC30d62_00033	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..nC30d62_00034	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %
TPH-ICV_10000_00020	04/22/25	09/20/24	DCM, Lot #268	5 mL	TPH Spike_RZ_00126	1 mL	DRO (nC10-<nC25)	10000 mg/L
.TPH Spike_RZ_00126	06/30/31		Restek, Lot A0210963		(Purchased Reagent)		DRO (nC10-<nC25)	50000 ug/mL
TPH-RTC_00078	02/22/25	07/16/24	DCM, Lot CT #271	25 mL	TPH_SURR_00088	1 mL	n-Triacontane-d62	30.92 ug/mL
							o-Terphenyl	39.3 ug/mL
.TPH_SURR_00088	02/22/25	04/22/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	nC30d62_00029	0.0773 g	n-Triacontane-d62	773 mg/L
					nC30d62_00030	0.0773 g	n-Triacontane-d62	773 mg/L
					oterphenyl_00015	0.1965 g	o-Terphenyl	982.5 mg/L
..nC30d62_00029	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..nC30d62_00030	04/22/25		Aldrich, Lot MBBD3816		(Purchased Reagent)		n-Triacontane-d62	100 %
..oterphenyl_00015	01/23/28		Spectrum Chemical, Lot 2DG0543		(Purchased Reagent)		o-Terphenyl	100 %

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TPH_SURR_00090	04/22/25	09/17/24	Acetone/DCM, Lot 1:1 DCM:Acenton 72	200 mL	BFBNeat_00019	0.212 g	4-Bromofluorobenzene (Surr)	1060 mg/L
					nC30d62_00033	0.0725 g	n-Triacontane-d62	725 mg/L
					nC30d62_00034	0.0725 g	n-Triacontane-d62	725 mg/L
					oterphenyl_00015	0.208 g	o-Terphenyl	1040 mg/L
.BFBNeat_00019	09/09/26	ThermoFisher Scientific, Lot 10228567			(Purchased Reagent)		4-Bromofluorobenzene (Surr)	1000000 ug/mL
.nC30d62_00033	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
.nC30d62_00034	04/22/25	Aldrich, Lot MBBD3816			(Purchased Reagent)		n-Triacontane-d62	100 %
.oterphenyl_00015	01/23/28	Spectrum Chemical, Lot 2DG0543			(Purchased Reagent)		o-Terphenyl	100 %

Reagent

BFBNeat_00019

ThermoFisher SCIENTIFIC

Certificate of Analysis

Product No.:	A11630
Product:	1-Bromo-4-fluorobenzene, 99%
Lot No.:	10228567

Appearance:	Clear colourless liquid
Refractive index:	1.5260 @20°C
Assay (GC):	99.6%
Identification (FTIR):	Conforms

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This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

Reagent

nC30d62_00029

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d_{62} - 98 atom % D

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBD3816**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	08 JUN 2022

Test	Specification	Result
Purity	≥ 98 %	98 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	98.8 %
Initial Melting Point		62 °C
Final Melting Point		64 °C

Laura E. Baird, Manager
Quality Assurance & Control
Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

nC30d62_00030

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d_{62} - 98 atom % D

Product Number:	**451789**
Batch Number:	**MBBD3816**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	08 JUN 2022

$CD_3(CD_2)_{28}CD_3$

Test	Specification	Result
Purity	≥ 98 %	98 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	98.8 %
Initial Melting Point		62 °C
Final Melting Point		64 °C

Laura E. Baird, Manager
Quality Assurance & Control
Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

nC30d62_00033

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d_{62} - 98 atom % D

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBD3816**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	08 JUN 2022

Test	Specification	Result
Purity	≥ 98 %	98 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	98.8 %
Initial Melting Point		62 °C
Final Melting Point		64 °C

Laura E. Baird, Manager
Quality Assurance & Control
Miamisburg, Ohio US

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Reagent

nC30d62_00034

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d_{62} - 98 atom % D

$CD_3(CD_2)_{28}CD_3$

Product Number:	**451789**
Batch Number:	**MBBD3816**
Brand:	ALDRICH
CAS Number:	93952-07-9
MDL Number:	MFCD00209794
Formula:	C30D62
Formula Weight:	485.20 g/mol
Quality Release Date:	08 JUN 2022

Test	Specification	Result
Purity	≥ 98 %	98 %
Proton NMR Spectrum	Conforms to Structure	Conforms
D Enrichment	≥ 98.0 %	98.8 %
Initial Melting Point		62 °C
Final Melting Point		64 °C

Laura E. Baird, Manager
Quality Assurance & Control
Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

oterphenyl_00015

Certificate Of Analysis

Item Number	T1416	Lot Number	2DG0543
Item	o-Terphenyl	CAS Number	84-15-1
Molecular Formula	C18H14	Molecular Weight	230.31

TEST	SPECIFICATION		RESULT
	MIN	MAX	
PURITY (GC)	99.0 %		99.9 %
MELTING POINT	56.0 - 59.0 C		57.9°C
APPEARANCE			WHITE CRYSTALLINE POWDER
DATE OF MANUFACTURE			31-JUL-2014

Certificate of Analysis Results Entered By:

HBERMUDEZ
Hernan Bermudez
24-JAN-23 05:09:21

Certificate of Analysis Results Approved By:

JAMAYA
Javier Amaya
26-JAN-23 10:05:57

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

Reagent

TPH Spike_RZ_00126

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 581535 **Lot No.:** A0210963

Description : Custom Fuels Composite

Custom Fuels Composite 50,000µg/mL, Methylene chloride, 25mL/ampul

Container Size : 50 mL **Pkg Amt:** > 25 mL

Expiration Date : June 30, 2031 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diesel Fuel #2 Composite	68334-30-5.A	230410DFB	----%	50,352.2 µg/mL	+/- 1,499.1433
2	Motor Oil SAE30 & SAE40 Blend (Pennzoil)	64742-65-0	A0126386	----%	50,320.4 µg/mL	+/- 1,498.1965

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

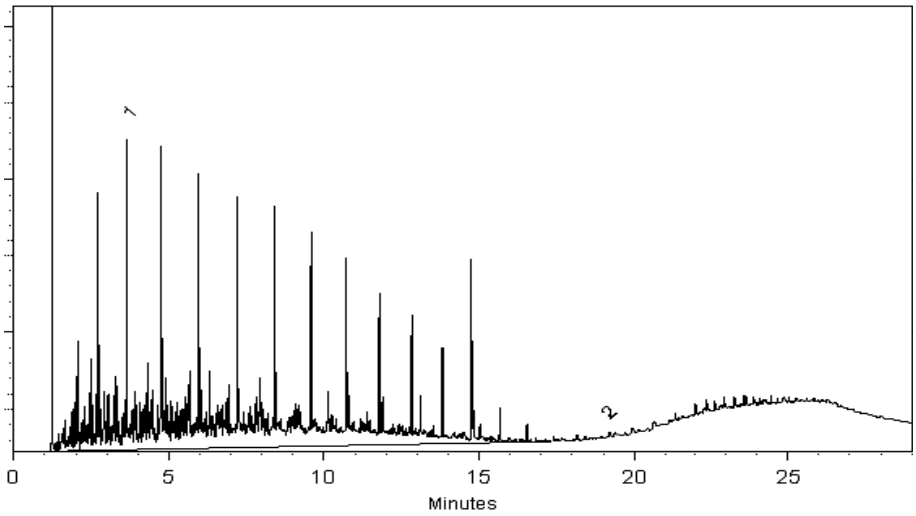
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 01-May-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

TPH Spike_RZ_00127

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 581535 **Lot No.:** A0210936

Description : Custom Fuels Composite

Custom Fuels Composite 50,000µg/mL, Methylene chloride, 25mL/ampul

Container Size : 50 mL **Pkg Amt:** > 25 mL

Expiration Date : May 31, 2031 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diesel Fuel #2 Composite	68334-30-5.A	231213DFB	----%	50,086.8 µg/mL	+/- 1,491.2415
2	Motor Oil SAE30 & SAE40 Blend (Pennzoil)	64742-65-0	A0126386	----%	50,196.8 µg/mL	+/- 1,494.5165

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

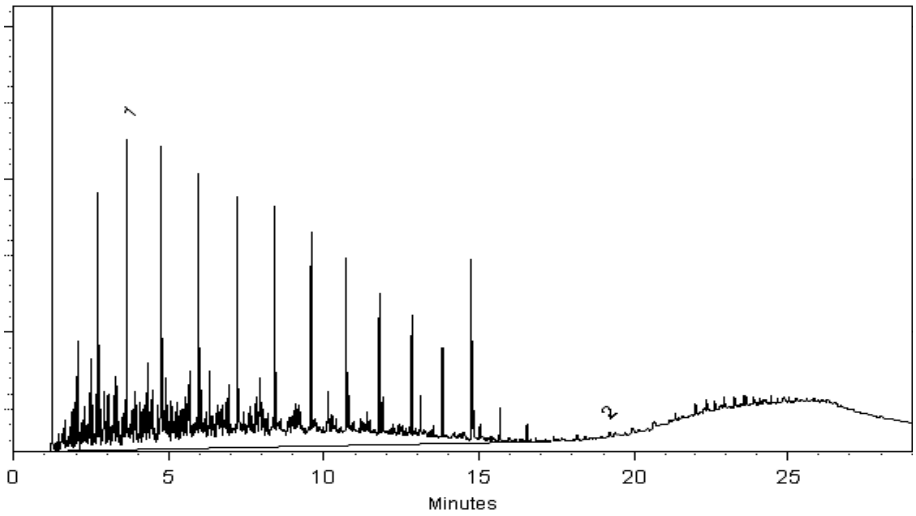
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Wilner Torres - Operation Tech I

Date Mixed: 30-Apr-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

TPH Spike_RZ_00140

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 581535 **Lot No.:** A0210936

Description : Custom Fuels Composite

Custom Fuels Composite 50,000µg/mL, Methylene chloride, 25mL/ampul

Container Size : 50 mL **Pkg Amt:** > 25 mL

Expiration Date : May 31, 2031 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Diesel Fuel #2 Composite	68334-30-5.A	231213DFB	----%	50,086.8 µg/mL	+/- 1,491.2415
2	Motor Oil SAE30 & SAE40 Blend (Pennzoil)	64742-65-0	A0126386	----%	50,196.8 µg/mL	+/- 1,494.5165

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

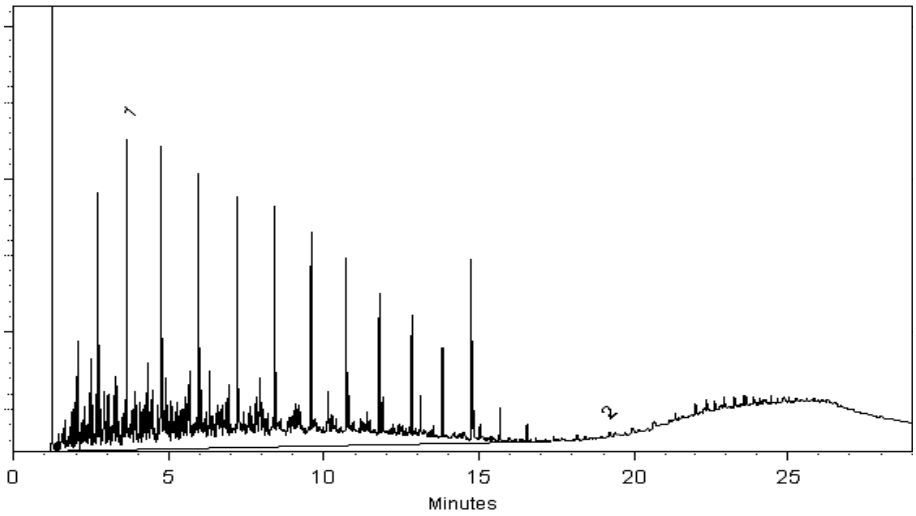
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Wilner Torres - Operation Tech I

Date Mixed: 30-Apr-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

TPH-CCV_500_00148

Preliminary Report

Eurofins Seattle

CCVRT, Cal Verification & RT Calib Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241021-96704.b\10212024a006.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 21-Oct-2024 09:38:39 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241021-96704.b\TPH-TAC129Front.m
Limit Group: 8015B-D DRO ICAL CA and HW ranges
Last Update: 21-Oct-2024 11:23:04 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1677

Start Cal Date: 23-Sep-2024 09:44:20
End Cal Date: 23-Sep-2024 13:06:28

Compound	Standard RRF/Amt	DLT RT	Ccal Amt	Ccal RF	Min. RRF	%D	Max. %D	%Rec
A 10 C9-C25	500.0	0.0	542.4	184728	0.000	8.5	20	108
A 12 C10-C24	500.0	0.0	542.4	174378	0.000	8.5	20	108
A 14 C12-C24	500.0	0.0	544.5	145799	0.000	8.9	20	109
A 15 C10-C28	500.0	0.0	542.9	193987	0.000	8.6	20	109
$ 17 o-Terphenyl	161005	0.0		153575	0.000	-4.6	20	95
A 25 C24-C32	500.0	0.0	546.0	58905	0.000	9.2	20	109
E 26 n-Triacontane-d62	135932	0.0		113683	0.010	-16.4	20	84
A 27 C24-C36	500.0	0.0	531.8	96263	0.000	6.4	20	106
A 31 C24-C40	500.0	0.0	525.0	122454	0.000	5.0	20	105
A 33 C28-C40	500.0	0.0	521.5	102613	0.000	4.3	20	104

Reagent

TPH-RTC_00078

Report Date: 19-Jul-2024 14:16:38 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Preliminary Report

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240716-94854.b\07162024b002.D

Injection Date: 16-Jul-2024 14:45:10 Instrument ID: TAC129

Lims ID: TPH-RTC_00078 Test

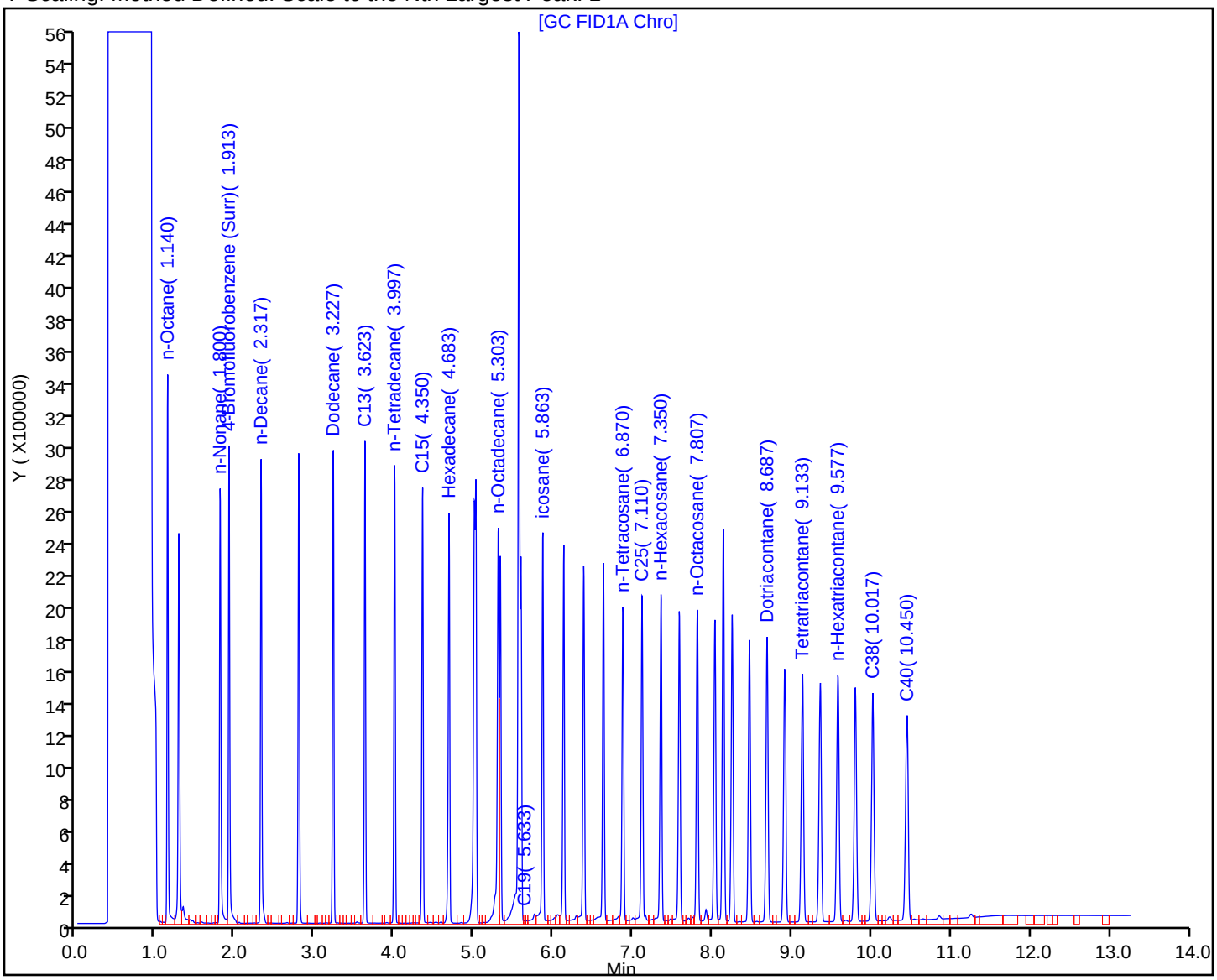
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 19-Jul-2024 14:16:38 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Preliminary Report

Eurofins Seattle

Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240716-94854.b\07162024b002.D
Lims ID: TPH-RTC_00078 Test
Client ID:
Sample Type: RTC
Inject. Date: 16-Jul-2024 14:45:10 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: TPH-RTC_00078 Test
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20240716-94854.b\TPH-TAC129Front.m
Limit Group: 8015B-D DRO ICAL CA and HW ranges
Last Update: 17-Jul-2024 07:50:49 Calib Date: 09-May-2024 18:45:23
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240509-93864.b\05092024b042.D

Column 1 : Det: GC FID1A
Process Host: CTX1607

First Level Reviewer: S6XW Date: 19-Jul-2024 14:16:27

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.140	1.140	0.000	3592109	NC	NC	g
	2 n-Nonane	1.800	1.800	0.000	3358211	NC	NC	g
	39 4-Bromofluorobenzene (Surr)	1.913	1.907	0.006	3335416	NC	NC	g
	3 n-Decane	2.317	2.317	0.000	3396751	NC	NC	g
	4 Dodecane	3.227	3.227	0.000	3366655	NC	NC	g
	6 C13	3.623	3.623	0.000	3368847	NC	NC	g
	8 n-Tetradecane	3.997	3.997	0.000	3396109	NC	NC	g
	9 C15	4.350	4.350	0.000	3355707	NC	NC	ig
	11 Hexadecane	4.683	4.683	0.000	3387280	NC	NC	ig
	16 n-Octadecane	5.303	5.303	0.000	4050219	NC	NC	ig
$	17 o-Terphenyl	5.560	5.553	0.007	10847116	39.3	42.8	
	18 C19	5.633	5.633	0.000	23383	NC	NC	g
	19 icosane	5.863	5.863	0.000	3358217	NC	NC	ig
	21 n-Tetracosane	6.870	6.870	0.000	3003728	NC	NC	g
	22 C25	7.110	7.110	0.000	3283953	NC	NC	g
	23 n-Hexacosane	7.350	7.350	0.000	3290988	NC	NC	g
	24 n-Octacosane	7.807	7.807	0.000	3253754	NC	NC	ig
E	26 n-Triacontane-d62	8.137	8.127	0.010	4247890	30.9	26.4	
	30 Dotriacontane	8.687	8.687	0.000	3372767	NC	NC	ig
	32 Tetratriacontane	9.133	9.133	0.000	3195587	NC	NC	ig
	34 n-Hexatriacontane	9.577	9.577	0.000	3386954	NC	NC	g
	35 C38	10.017	10.017	0.000	3186596	NC	NC	g
	36 C40	10.450	10.450	0.000	3206045	NC	NC	ig

Preliminary Report

QC Flag Legend

Processing Flags

NC - Not Calibrated

i - Failed Initial Calibration Limits

g - Not in Limit Group or Failed to Calibrate

Reagents:

TPH-RTC_00078	Amount Added:	1.00	Units: mL	
	Amount Added:	1.00	Units: mL	Run Reagent

Reagent

TPH_SURR_00088

Report Date: 23-Apr-2024 08:05:55 Chrom Revision: 2.3 09-Apr-2024 17:43:44

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240422-93561.b\04222024a124.D
Lims ID: TPH-SURR_00088 Ver
Client ID:
Sample Type: LCS
Inject. Date: 23-Apr-2024 05:26:05 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: TPH-SURR_00088 Ver
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20240422-93561.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Apr-2024 08:05:25 Calib Date: 11-Jan-2024 19:06:47
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240111-92065.b\011124B026.D

Column 1 : Det: GC FID1A
Process Host: CTX1681

First Level Reviewer: S6XW Date: 23-Apr-2024 07:58:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	9.83	10.9	110.64
E 26 n-Triacontane-d62	7.73	8.73	112.99

Reagent

TPH_SURR_00090

Preliminary Report

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC020\20240917-96042.b\091724a010.D
Lims ID: TPH_Surr_00090 Test
Client ID:
Sample Type: Client
Inject. Date: 17-Sep-2024 15:38:30 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: TPH_Surr_00090 Test
Operator ID: SW Instrument ID: TAC020

Method: \\chromfs\Seattle\ChromData\TAC020\20240917-96042.b\TPH-Front_TAC020.m
Limit Group: 8015B-D DRO ICAL CA and HW ranges
Last Update: 17-Sep-2024 16:13:10 Calib Date: 27-Aug-2024 16:40:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC020\20240827-95647.b\082724a015.D

Column 1 : ZB-1 High Temp. Inferno (0.25 mm) Det: GC FID1A
Process Host: CTX1640

Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	9.71	93.34
$ 28 n-Triacontane-d62	7.25	6.14	84.70

Method AK102 and 103

Alaska - Diesel Range Organics & Residual Range Organics (GC) by Method AK102 and AK103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	OTPH	#	NTC	#
RIR24SS219SP902	580-144975-1	103		131	M
RIR24SS219SP9029	580-144975-2	112		80	M
RIR24SS220SP902	580-144975-3	118		84	M
RIR24SS221SP903	580-144975-4	91		90	M
RIR24SS222SP903	580-144975-5	109		78	
RIR24SS223SP903.5	580-144975-6	106		73	M
RIR24SS224SP904.5	580-144975-7	97		75	M
RIR24SS225BKG02	580-144975-8	92		60	M
RIR24SS226BKG04.5	580-144975-9	93		65	M
RIR24SS227BKG01.5	580-144975-10	97		67	M
RIR24SS228BKG03.5	580-144975-11	95		70	M
RIR24SS227BKG01.5 MS	580-144975-10 MS	80	M	72	M
RIR24SS227BKG01.5 MSD	580-144975-10 MSD	82		69	M

	QC LIMITS
OTPH = o-Terphenyl	50-150
NTC = n-Triacontane-d62	50-150

Column to be used to flag recovery values

FORM II AK102 & 103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	OTPH #	NTC #
	MB 580-475429/1-A	109	86
	LCS 580-475429/2-A	97	81

	QC LIMITS
OTPH = o-Terphenyl	60-120
NTC = n-Triacontane-d62	60-120

Column to be used to flag recovery values

FORM II AK102 & 103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	OTPH #	NTC #
RIR24SS219SP902	580-144975-1	102	139 M
RIR24SS219SP9029	580-144975-2	107	105
RIR24SS220SP902	580-144975-3	111	87
RIR24SS221SP903	580-144975-4	95	94
RIR24SS222SP903	580-144975-5	113	96
RIR24SS223SP903.5	580-144975-6	106	96
RIR24SS224SP904.5	580-144975-7	102	93
RIR24SS225BKG02	580-144975-8	92	86
RIR24SS226BKG04.5	580-144975-9	97	99
RIR24SS227BKG01.5	580-144975-10	102	92
RIR24SS228BKG03.5	580-144975-11	95	90
RIR24SS227BKG01.5 MS	580-144975-10 MS	87	138
RIR24SS227BKG01.5 MSD	580-144975-10 MSD	89	138

	QC LIMITS
OTPH = o-Terphenyl	50-150
NTC = n-Triacontane-d62	50-150

Column to be used to flag recovery values

FORM II AK102/103

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low

GC Column (1): ID:

Client Sample ID	Lab Sample ID	OTPH #	NTC #
	MB 580-475429/1-B	112	98
	LCS 580-475429/2-B	96	86

	QC LIMITS
OTPH = o-Terphenyl	60-120
NTC = n-Triacontane-d62	60-120

Column to be used to flag recovery values

FORM II AK102/103

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a055.D

Lab ID: LCS 580-475429/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	500	492	98	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a059.D

Lab ID: 580-144975-10 MS Client ID: RIR24SS227BKG01.5 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	787	150	907	96	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a061.D

Lab ID: 580-144975-10 MSD Client ID: RIR24SS227BKG01.5 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
DRO (nC10-<nC25)	738	922	104	2	20	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102 & 103

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a088.D

Lab ID: LCS 580-475429/2-B Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	500	523	105	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102/103

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a092.D

Lab ID: 580-144975-10 MS Client ID: RIR24SS227BKG01.5 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
DRO (nC10-<nC25)	787	16 J	818	102	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102/103

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Matrix: Solid Level: Low Lab File ID: 10222024a094.D

Lab ID: 580-144975-10 MSD Client ID: RIR24SS227BKG01.5 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
DRO (nC10-<nC25)	738	774	103	6	20	75-125	

Column to be used to flag recovery and RPD values

FORM III AK102/103

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab File ID: 10222024a053.D Lab Sample ID: MB 580-475429/1-A

Matrix: Solid Date Extracted: 10/21/2024 12:59

Instrument ID: TAC129_R Date Analyzed: 10/22/2024 20:11

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-475429/2-A	10222024a055.D	10/22/2024 20:31
RIR24SS227BKG01.5	580-144975-10	10222024a057.D	10/22/2024 20:51
RIR24SS227BKG01.5 MS	580-144975-10 MS	10222024a059.D	10/22/2024 21:11
RIR24SS227BKG01.5 MSD	580-144975-10 MSD	10222024a061.D	10/22/2024 21:31
RIR24SS219SP902	580-144975-1	10222024a063.D	10/22/2024 21:51
RIR24SS219SP9029	580-144975-2	10222024a065.D	10/22/2024 22:11
RIR24SS220SP902	580-144975-3	10222024a067.D	10/22/2024 22:31
RIR24SS221SP903	580-144975-4	10222024a069.D	10/22/2024 22:51
RIR24SS222SP903	580-144975-5	10222024a071.D	10/22/2024 23:11
RIR24SS223SP903.5	580-144975-6	10222024a075.D	10/22/2024 23:51
RIR24SS224SP904.5	580-144975-7	10222024a077.D	10/23/2024 00:11
RIR24SS225BKG02	580-144975-8	10222024a079.D	10/23/2024 00:31
RIR24SS226BKG04.5	580-144975-9	10222024a081.D	10/23/2024 00:51
RIR24SS228BKG03.5	580-144975-11	10222024a083.D	10/23/2024 01:11

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab File ID: 10222024a086.D Lab Sample ID: MB 580-475429/1-B

Matrix: Solid Date Extracted: 10/21/2024 12:59

Instrument ID: TAC129 Date Analyzed: 10/23/2024 01:31

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-475429/2-B	10222024a088.D	10/23/2024 01:51
RIR24SS227BKG01.5	580-144975-10	10222024a090.D	10/23/2024 02:11
RIR24SS227BKG01.5 MS	580-144975-10 MS	10222024a092.D	10/23/2024 02:30
RIR24SS227BKG01.5 MSD	580-144975-10 MSD	10222024a094.D	10/23/2024 02:51
RIR24SS219SP902	580-144975-1	10222024a096.D	10/23/2024 03:10
RIR24SS219SP9029	580-144975-2	10222024a098.D	10/23/2024 03:30
RIR24SS220SP902	580-144975-3	10222024a100.D	10/23/2024 03:50
RIR24SS221SP903	580-144975-4	10222024a104.D	10/23/2024 04:30
RIR24SS222SP903	580-144975-5	10222024a106.D	10/23/2024 04:50
RIR24SS223SP903.5	580-144975-6	10222024a108.D	10/23/2024 05:10
RIR24SS224SP904.5	580-144975-7	10222024a110.D	10/23/2024 05:30
RIR24SS225BKG02	580-144975-8	10222024a112.D	10/23/2024 05:50
RIR24SS226BKG04.5	580-144975-9	10222024a114.D	10/23/2024 06:10
RIR24SS228BKG03.5	580-144975-11	10222024a116.D	10/23/2024 06:30

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: ICRT 580-472180/9 Date Analyzed: 09/20/2024 16:14

Instrument ID: TAC129_R GC Column: ID: ()

Lab File ID (Standard): 09202024a025.D Heated Purge: (Y/N) N

Calibration ID: 39564

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.51	8.07	
UPPER LIMIT				5.56	8.12	
LOWER LIMIT				5.46	8.02	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-472180/9		09/20/2024 16:14	09202024a025.D	5.51	8.07	
ICV 580-472180/14		09/20/2024 18:19	09202024a035.D	5.51	8.07	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: CCVRT 580-475534/3 Date Analyzed: 10/22/2024 11:59

Instrument ID: TAC129_R GC Column: ID: ()

Lab File ID (Standard): 10222024a005.D Heated Purge: (Y/N) N

Calibration ID: 39564

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				5.39	7.93	
UPPER LIMIT				5.44	7.98	
LOWER LIMIT				5.34	7.88	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-475534/3		10/22/2024 11:59	10222024a005.D	5.39	7.93	
CCV 580-475534/22		10/22/2024 19:51	10222024a051.D	5.40	7.95	
MB 580-475429/1-A		10/22/2024 20:11	10222024a053.D	5.40	7.94	
LCS 580-475429/2-A		10/22/2024 20:31	10222024a055.D	5.40	7.95	
580-144975-10	RIR24SS227BKG01.5	10/22/2024 20:51	10222024a057.D	5.40	7.95	
580-144975-10 MS	RIR24SS227BKG01.5 MS	10/22/2024 21:11	10222024a059.D	5.40	7.95	
580-144975-10 MSD	RIR24SS227BKG01.5 MSD	10/22/2024 21:31	10222024a061.D	5.40	7.95	
580-144975-1	RIR24SS219SP902	10/22/2024 21:51	10222024a063.D	5.40	7.95	
580-144975-2	RIR24SS219SP9029	10/22/2024 22:11	10222024a065.D	5.40	7.95	
580-144975-3	RIR24SS220SP902	10/22/2024 22:31	10222024a067.D	5.40	7.95	
580-144975-4	RIR24SS221SP903	10/22/2024 22:51	10222024a069.D	5.40	7.95	
580-144975-5	RIR24SS222SP903	10/22/2024 23:11	10222024a071.D	5.40	7.95	
CCV 580-475534/34		10/22/2024 23:31	10222024a073.D	5.40	7.95	
580-144975-6	RIR24SS223SP903.5	10/22/2024 23:51	10222024a075.D	5.40	7.95	
580-144975-7	RIR24SS224SP904.5	10/23/2024 00:11	10222024a077.D	5.40	7.95	
580-144975-8	RIR24SS225BKG02	10/23/2024 00:31	10222024a079.D	5.40	7.95	
580-144975-9	RIR24SS226BKG04.5	10/23/2024 00:51	10222024a081.D	5.40	7.95	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: CCVRT 580-475534/3 Date Analyzed: 10/22/2024 11:59

Instrument ID: TAC129_R GC Column: ID: ()

Lab File ID (Standard): 10222024a005.D Heated Purge: (Y/N) N

Calibration ID: 39564

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				5.39	7.93	
UPPER LIMIT				5.44	7.98	
LOWER LIMIT				5.34	7.88	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
580-144975-11	RIR24SS228BKG03.5	10/23/2024 01:11	10222024a083.D	5.40	7.95	
CCV 580-475534/46		10/23/2024 03:10	10222024a095.D	5.40	7.95	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: ICRT 580-472407/9 Date Analyzed: 09/23/2024 11:45

Instrument ID: TAC129 GC Column: ID: ()

Lab File ID (Standard): 09232024a018.D Heated Purge: (Y/N) N

Calibration ID: 39572

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				5.36	7.91	
UPPER LIMIT				5.41	7.96	
LOWER LIMIT				5.31	7.86	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-472407/9		09/23/2024 11:45	09232024a018.D	5.36	7.91	
ICV 580-472407/14		09/23/2024 13:26	09232024a028.D	5.36	7.92	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: CCVRT 580-475531/3 Date Analyzed: 10/22/2024 11:59

Instrument ID: TAC129 GC Column: ID: ()

Lab File ID (Standard): 10222024a006.D Heated Purge: (Y/N) N

Calibration ID: 39572

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				5.27	7.78	
UPPER LIMIT				5.32	7.83	
LOWER LIMIT				5.22	7.73	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-475531/3		10/22/2024 11:59	10222024a006.D	5.27	7.78	
CCV 580-475531/13		10/22/2024 15:02	10222024a024.D	5.26	7.78	
CCV 580-475531/25		10/22/2024 20:11	10222024a054.D	5.27	7.78	
CCV 580-475531/38		10/23/2024 00:11	10222024a078.D	5.26	7.78	
MB 580-475429/1-B		10/23/2024 01:31	10222024a086.D	5.26	7.77	
LCS 580-475429/2-B		10/23/2024 01:51	10222024a088.D	5.26	7.77	
580-144975-10	RIR24SS227BKG01.5	10/23/2024 02:11	10222024a090.D	5.26	7.77	
580-144975-10 MS	RIR24SS227BKG01.5 MS	10/23/2024 02:30	10222024a092.D	5.26	7.78	
580-144975-10 MSD	RIR24SS227BKG01.5 MSD	10/23/2024 02:51	10222024a094.D	5.26	7.78	
580-144975-1	RIR24SS219SP902	10/23/2024 03:10	10222024a096.D	5.26	7.78	
580-144975-2	RIR24SS219SP9029	10/23/2024 03:30	10222024a098.D	5.26	7.77	
580-144975-3	RIR24SS220SP902	10/23/2024 03:50	10222024a100.D	5.26	7.77	
CCV 580-475531/51		10/23/2024 04:10	10222024a102.D	5.26	7.78	
580-144975-4	RIR24SS221SP903	10/23/2024 04:30	10222024a104.D	5.26	7.83 *	
580-144975-5	RIR24SS222SP903	10/23/2024 04:50	10222024a106.D	5.26	7.77	
580-144975-6	RIR24SS223SP903.5	10/23/2024 05:10	10222024a108.D	5.26	7.77	
580-144975-7	RIR24SS224SP904.5	10/23/2024 05:30	10222024a110.D	5.26	7.77	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII
DIESEL RANGE ORGANICS ANALYTICAL SEQUENCE

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Sample No.: CCVRT 580-475531/3 Date Analyzed: 10/22/2024 11:59

Instrument ID: TAC129 GC Column: ID: ()

Lab File ID (Standard): 10222024a006.D Heated Purge: (Y/N) N

Calibration ID: 39572

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				OTPH	NTC	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				5.27	7.78	
UPPER LIMIT				5.32	7.83	
LOWER LIMIT				5.22	7.73	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
580-144975-8	RIR24SS225BKG02	10/23/2024 05:50	10222024a112.D	5.26	7.77	
580-144975-9	RIR24SS226BKG04.5	10/23/2024 06:10	10222024a114.D	5.26	7.77	
580-144975-11	RIR24SS228BKG03.5	10/23/2024 06:30	10222024a116.D	5.26	7.77	
CCV 580-475531/60		10/23/2024 06:50	10222024a118.D	5.26	7.78	

OTPH = o-Terphenyl
NTC = n-Triacontane-d62

OTPH RT Limit = ± 0.05 minutes of surrogate RT
NTC RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS219SP902 | Lab Sample ID: 580-144975-1

Matrix: Solid | Lab File ID: 10222024a063.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 10:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.11(g) | Date Analyzed: 10/22/2024 21:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 20.3 % Solids: 79.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	520		25	19	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		50-150
93952-07-9	n-Triacontane-d62	131	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D
Lims ID: 580-144975-A-1-A
Client ID: RIR24SS219SP902
Sample Type: Client
Inject. Date: 22-Oct-2024 21:51:13 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-1-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:58

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		65193632	417.0	
$	19 o-Terphenyl	5.397	5.397	0.000	1654593	10.7	
E	28 n-Triacontane-d62	7.953	7.947	0.006	1392115	9.50	a

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

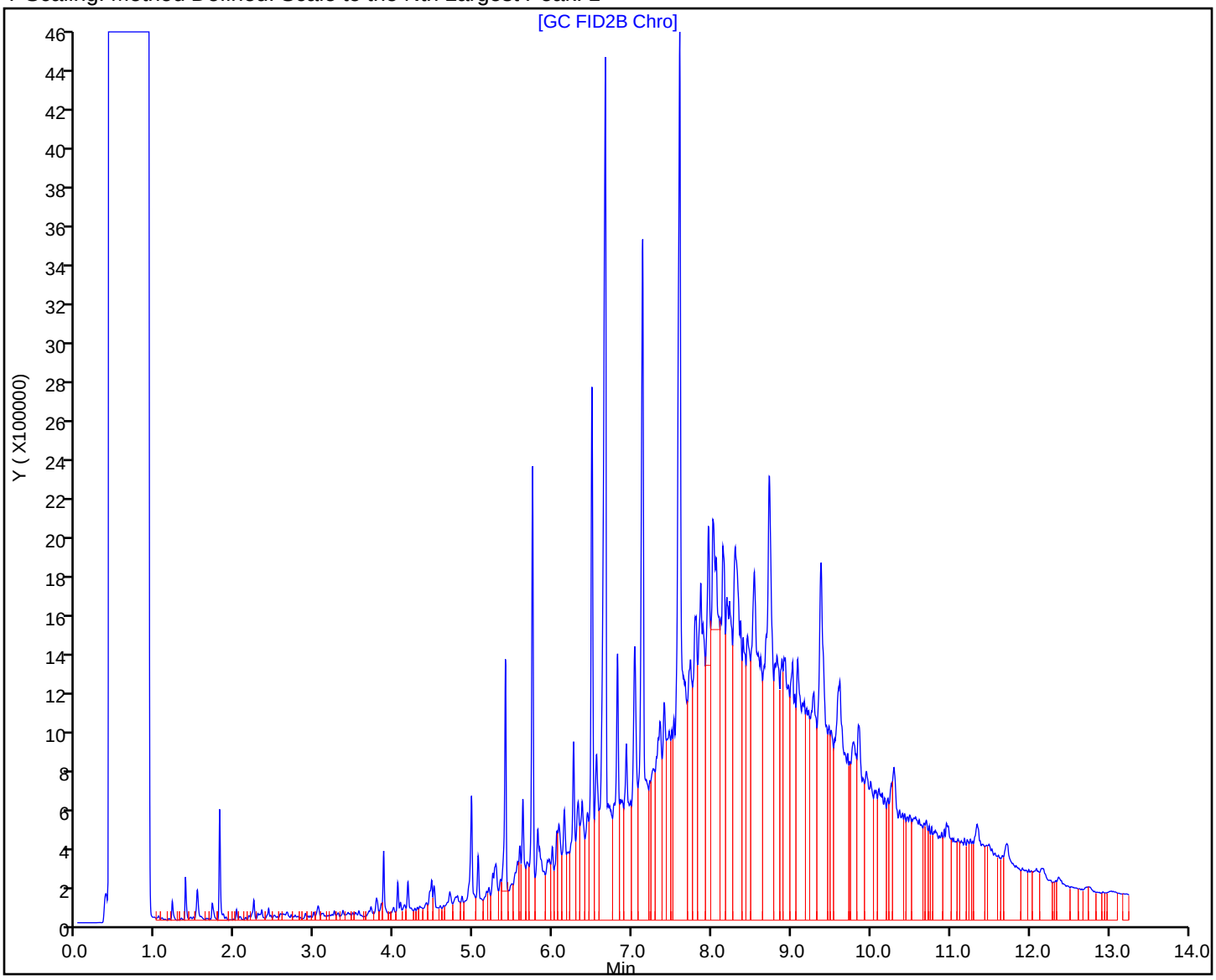
Report Date: 23-Oct-2024 16:55:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D

Injection Date:	22-Oct-2024 21:51:13	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-1-A	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D
Lims ID: 580-144975-A-1-A
Client ID: RIR24SS219SP902
Sample Type: Client
Inject. Date: 22-Oct-2024 21:51:13 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-1-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:58

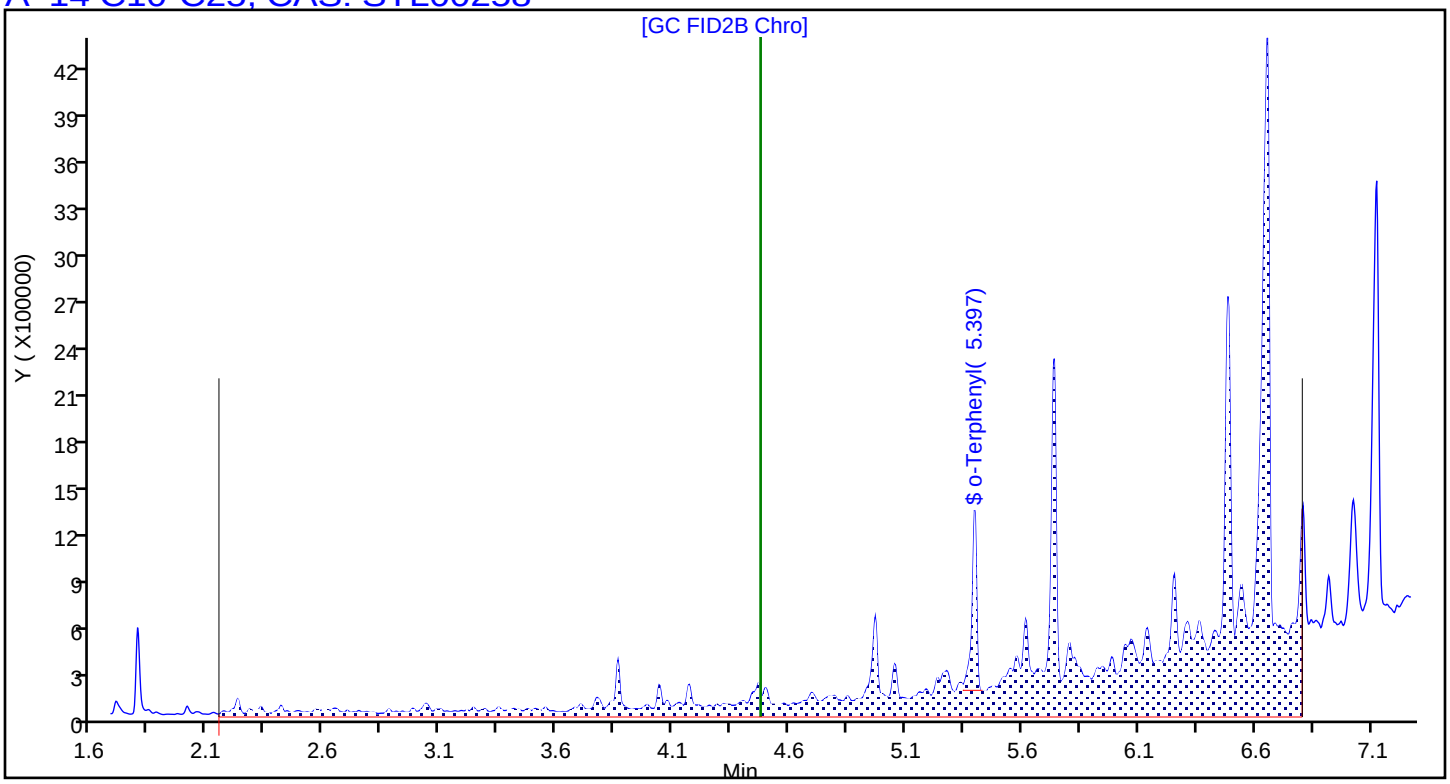
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	10.7	102.57
E 28 n-Triacontane-d62	7.25	9.50	131.10

Report Date: 23-Oct-2024 16:55:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D				
Injection Date:	22-Oct-2024 21:51:13	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-1-A	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

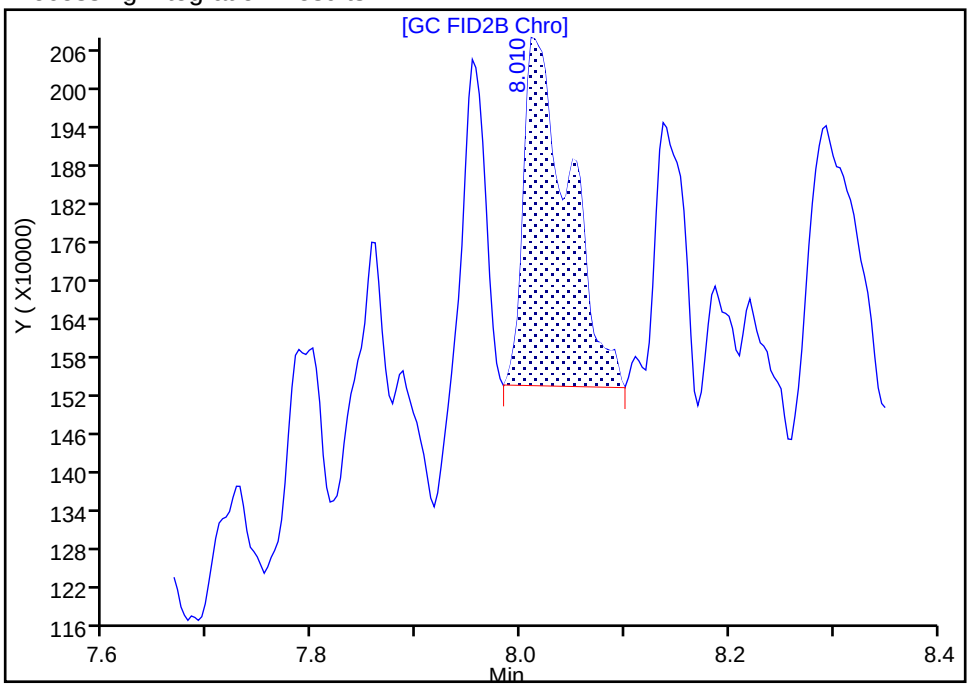
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D				
Injection Date:	22-Oct-2024 21:51:13	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-1-A	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

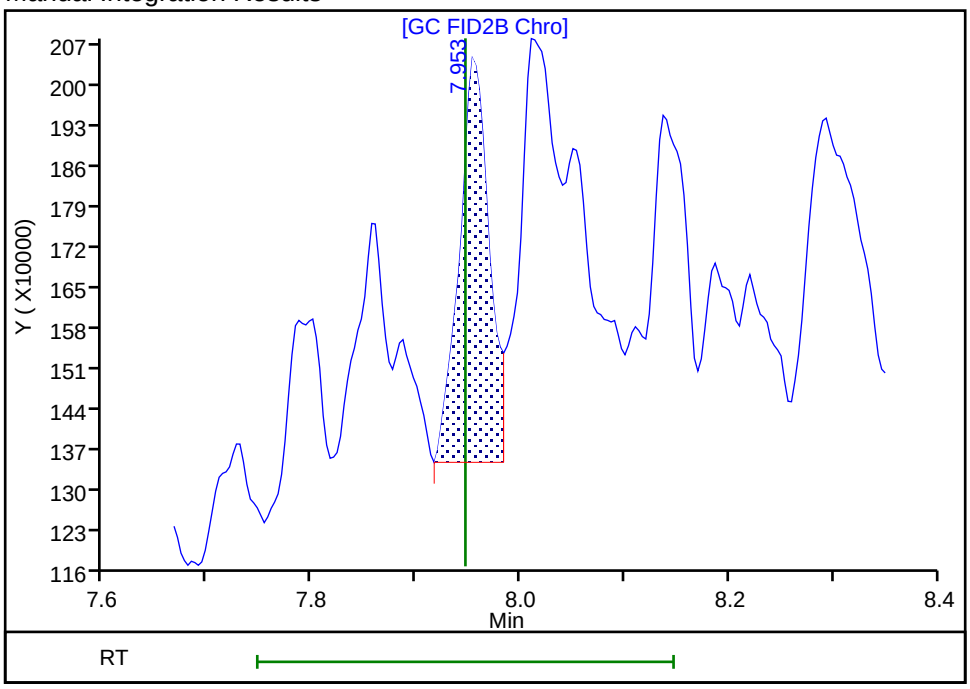
Processing Integration Results

RT: 8.01
Area: 1666753
Amount: 11.379660
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 1392115
Amount: 9.504584
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:51:53 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS219SP902 | Lab Sample ID: 580-144975-1

Matrix: Solid | Lab File ID: 10222024a096.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 10:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.11(g) | Date Analyzed: 10/23/2024 03:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 20.3 % Solids: 79.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	170		25	19	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		50-150
93952-07-9	n-Triacontane-d62	139	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D				
Lims ID:	580-144975-A-1-B				
Client ID:	RIR24SS219SP902				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 03:10:53	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-1-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:56:56	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:54:56		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		22576244	138.3	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1711753	10.6	
E 26 n-Triacontane-d62	7.783	7.777	0.006	1370283	10.1	a

QC Flag Legend

Processing Flags

Review Flags

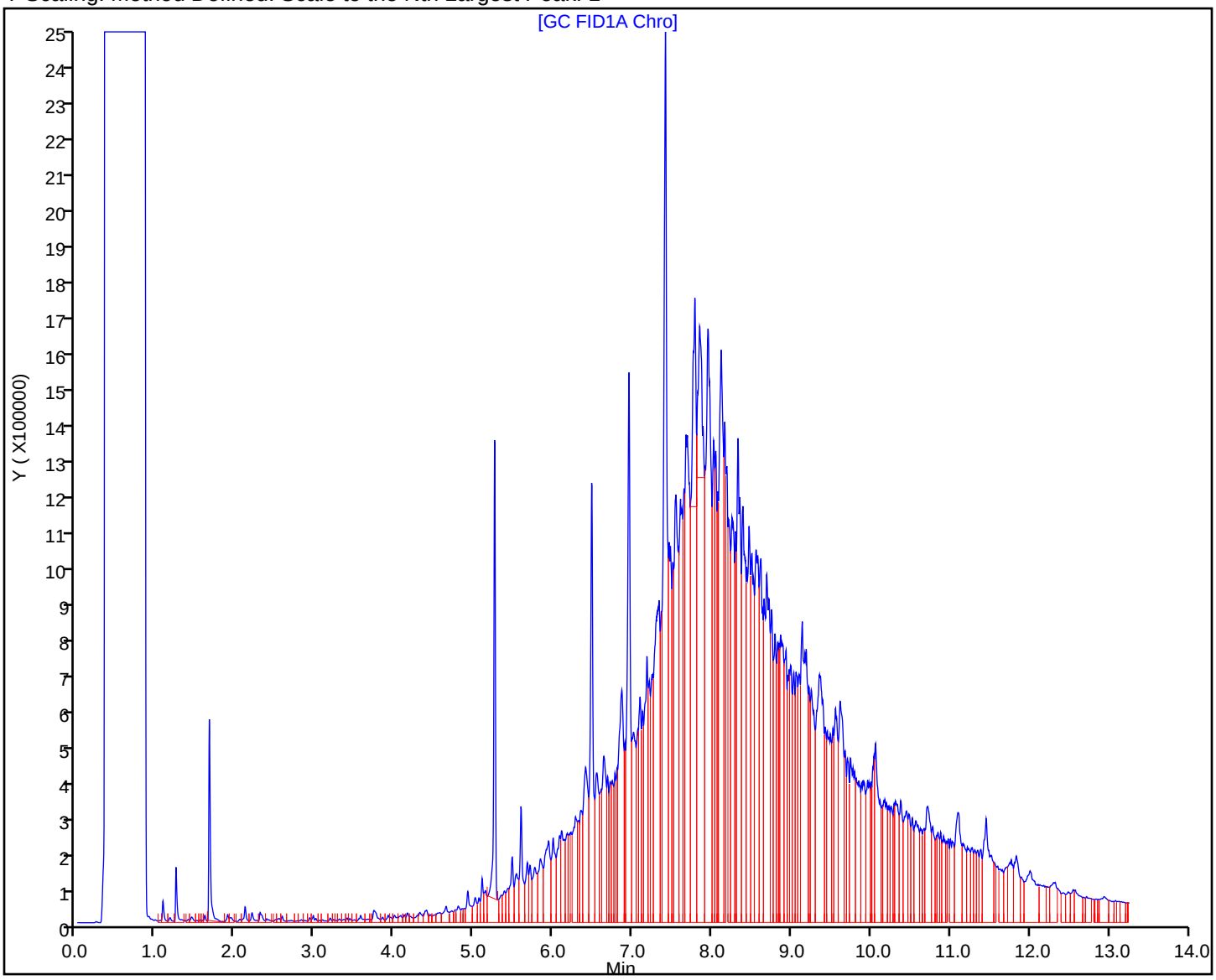
a - User Assigned ID

Report Date: 23-Oct-2024 14:57:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-1-B	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D
Lims ID: 580-144975-A-1-B
Client ID: RIR24SS219SP902
Sample Type: Client
Inject. Date: 23-Oct-2024 03:10:53 ALS Bottle#: 0 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-1-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:56

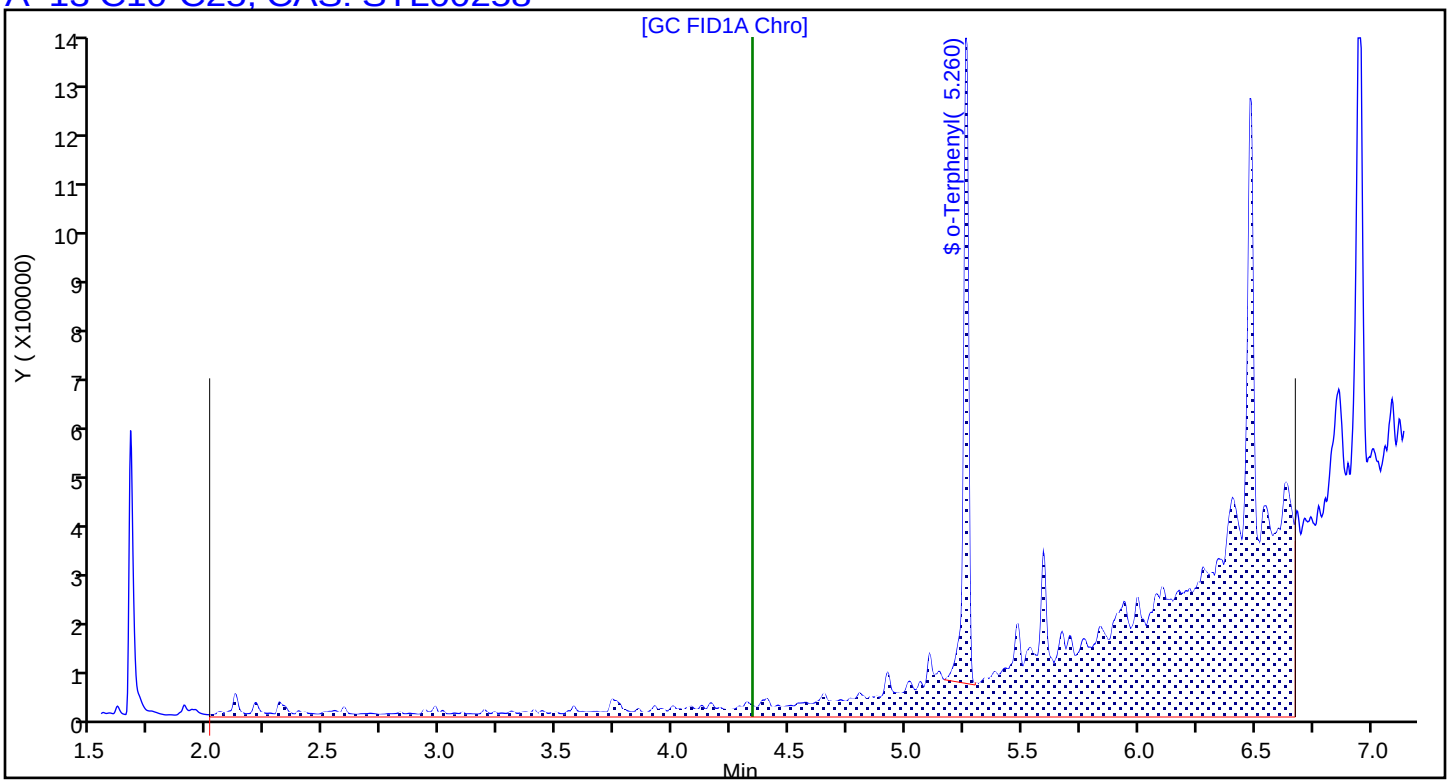
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	10.6	102.23
E 26 n-Triacontane-d62	7.25	10.1	139.04

Report Date: 23-Oct-2024 14:57:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-1-B	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

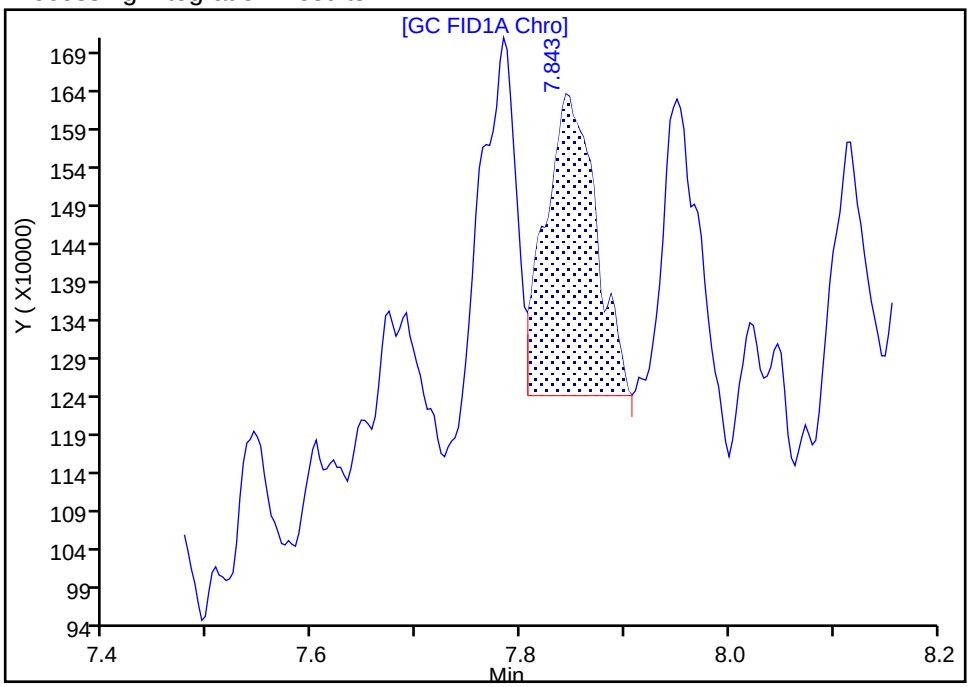
Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-1-B	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 26 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

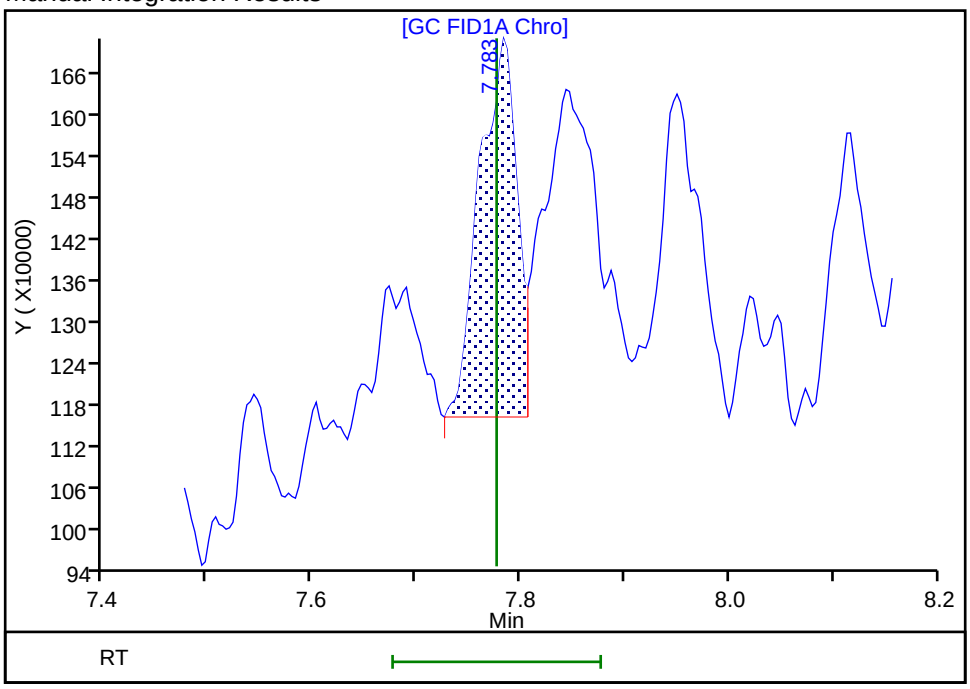
Processing Integration Results

RT: 7.84
Area: 1319609
Amount: 9.707848
Amount Units: ng/uL



Manual Integration Results

RT: 7.78
Area: 1370283
Amount: 10.080637
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 14:54:50 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS219SP9029 | Lab Sample ID: 580-144975-2

Matrix: Solid | Lab File ID: 10222024a065.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 10:01

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.27(g) | Date Analyzed: 10/22/2024 22:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 27.3 % Solids: 72.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	360		27	20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		50-150
93952-07-9	n-Triacontane-d62	80	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D
Lims ID: 580-144975-A-2-A
Client ID: RIR24SS219SP9029
Sample Type: Client
Inject. Date: 22-Oct-2024 22:11:25 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-2-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		42338693	270.1	
$	19 o-Terphenyl	5.397	5.397	0.000	1800168	11.6	
E	28 n-Triacontane-d62	7.947	7.947	0.000	846600	5.78	a

QC Flag Legend

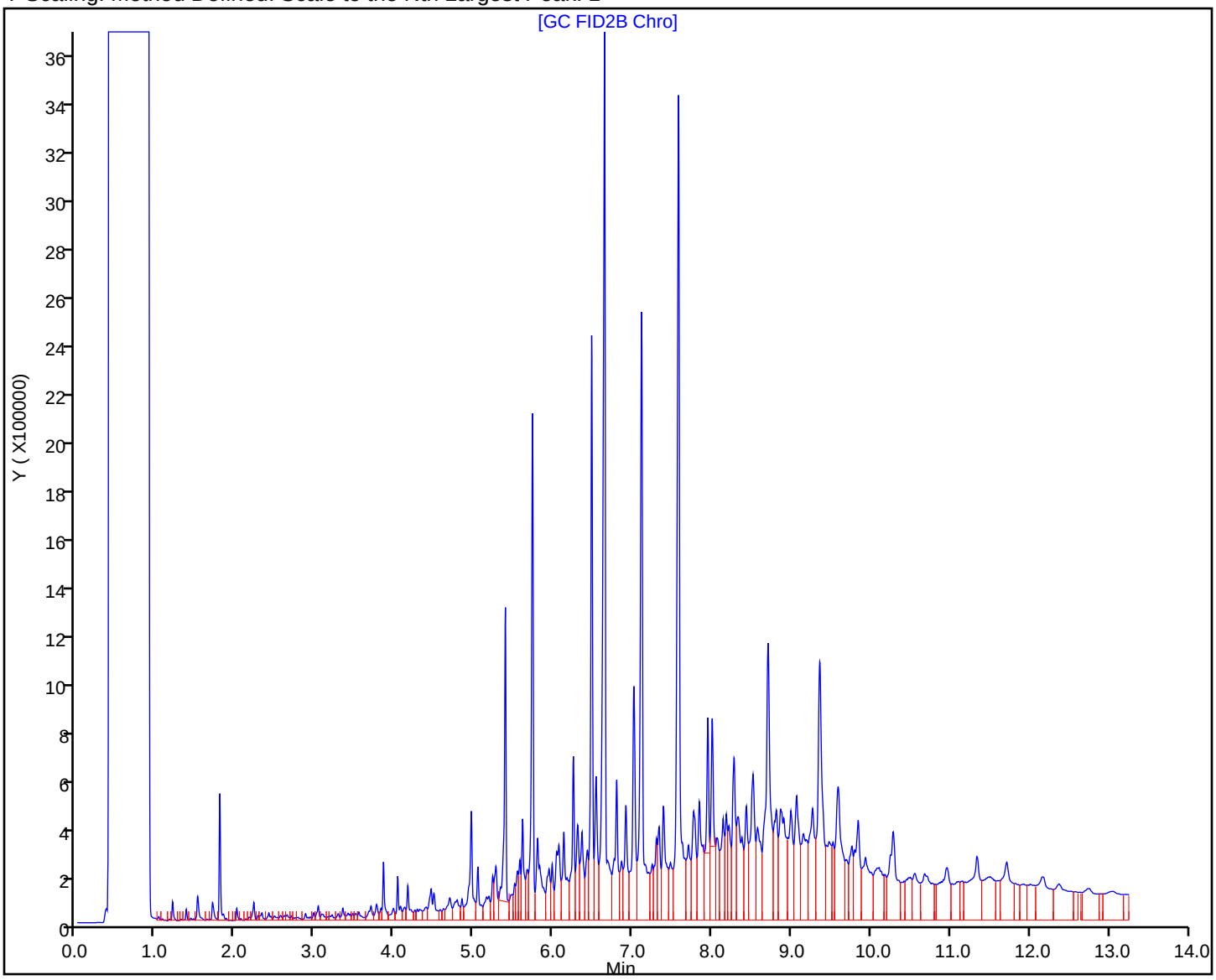
Processing Flags
Review Flags
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D				
Injection Date:	22-Oct-2024 22:11:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-2-A	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D
Lims ID: 580-144975-A-2-A
Client ID: RIR24SS219SP9029
Sample Type: Client
Inject. Date: 22-Oct-2024 22:11:25 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-2-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:12

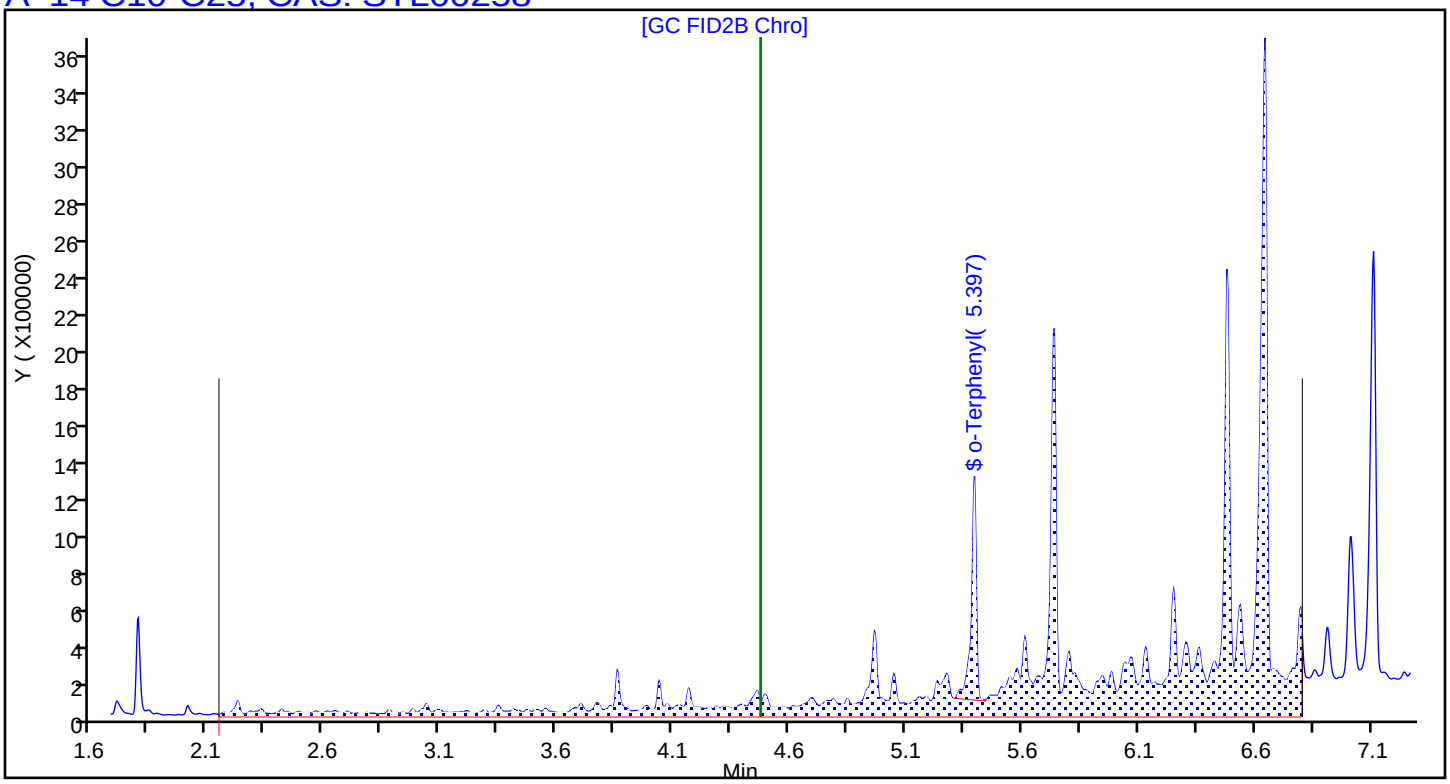
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	11.6	111.59
E 28 n-Triacontane-d62	7.25	5.78	79.73

Report Date: 23-Oct-2024 16:55:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D				
Injection Date:	22-Oct-2024 22:11:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-2-A	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

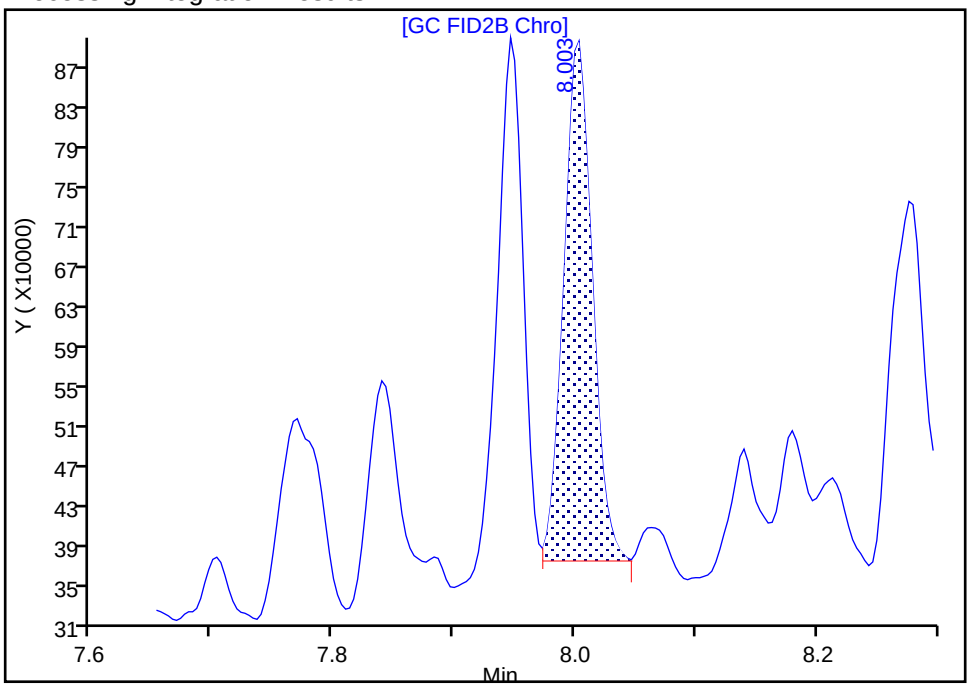
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D				
Injection Date:	22-Oct-2024 22:11:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-2-A	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

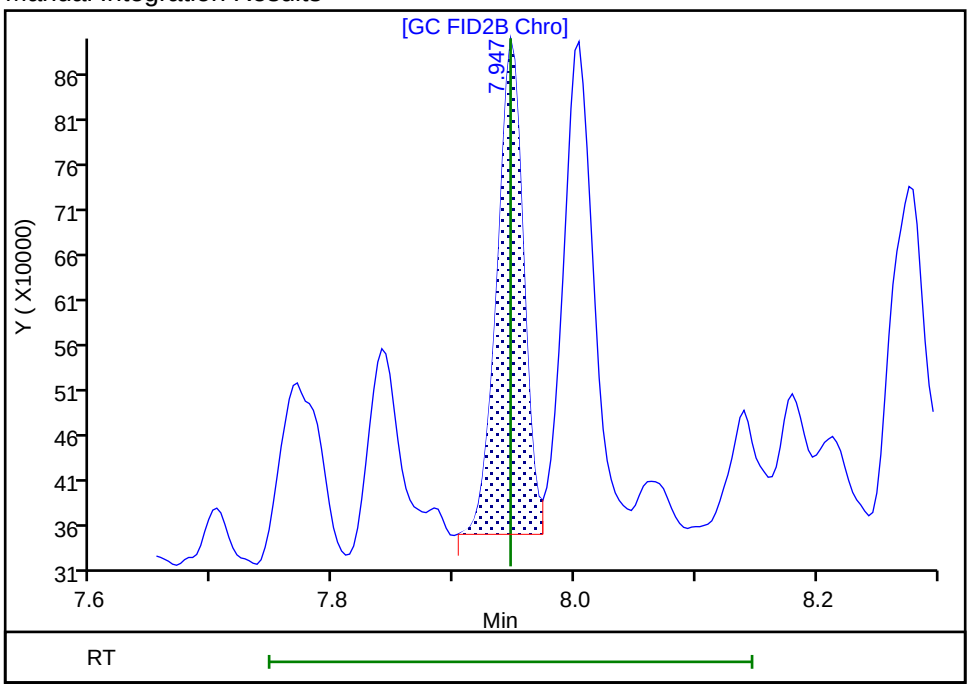
Processing Integration Results

RT: 8.00
Area: 846255
Amount: 5.777757
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 846600
Amount: 5.780112
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:52:09 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS219SP9029 | Lab Sample ID: 580-144975-2

Matrix: Solid | Lab File ID: 10222024a098.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 10:01

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.27(g) | Date Analyzed: 10/23/2024 03:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 27.3 % Solids: 72.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	51		27	20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		50-150
93952-07-9	n-Triacontane-d62	105		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a098.D				
Lims ID:	580-144975-A-2-B				
Client ID:	RIR24SS219SP9029				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 03:30:56	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-2-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:56:56	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:55:03		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		6270335	37.7	
$ 17 o-Terphenyl	5.263	5.263	0.000	1795221	11.2	
E 26 n-Triacontane-d62	7.773	7.777	-0.004	1037960	7.64	

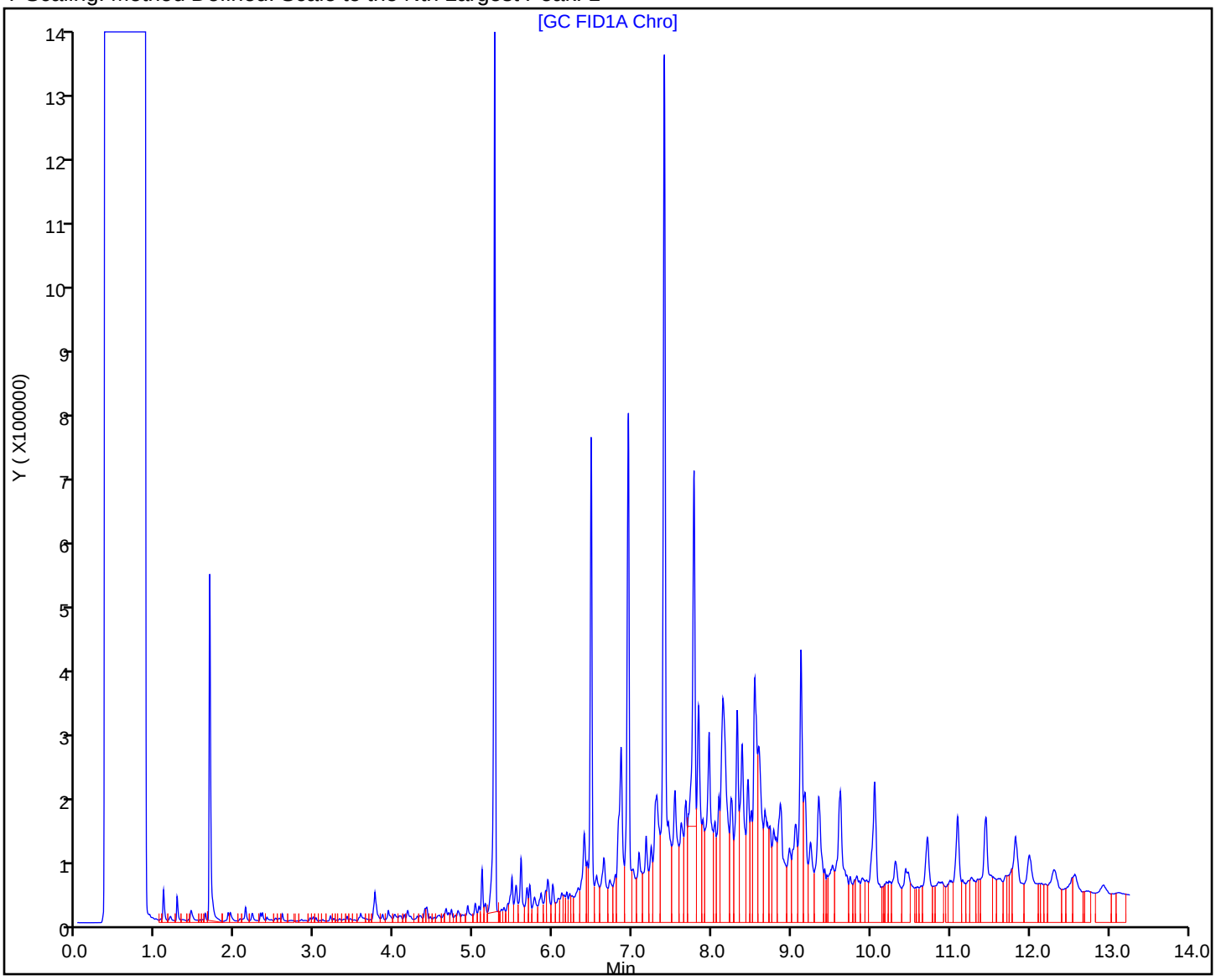
QC Flag Legend
Processing Flags

Report Date: 23-Oct-2024 14:57:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a098.D				
Injection Date:	23-Oct-2024 03:30:56	Instrument ID:	TAC129		
Lims ID:	580-144975-A-2-B	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a098.D
Lims ID: 580-144975-A-2-B
Client ID: RIR24SS219SP9029
Sample Type: Client
Inject. Date: 23-Oct-2024 03:30:56 ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-2-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:03

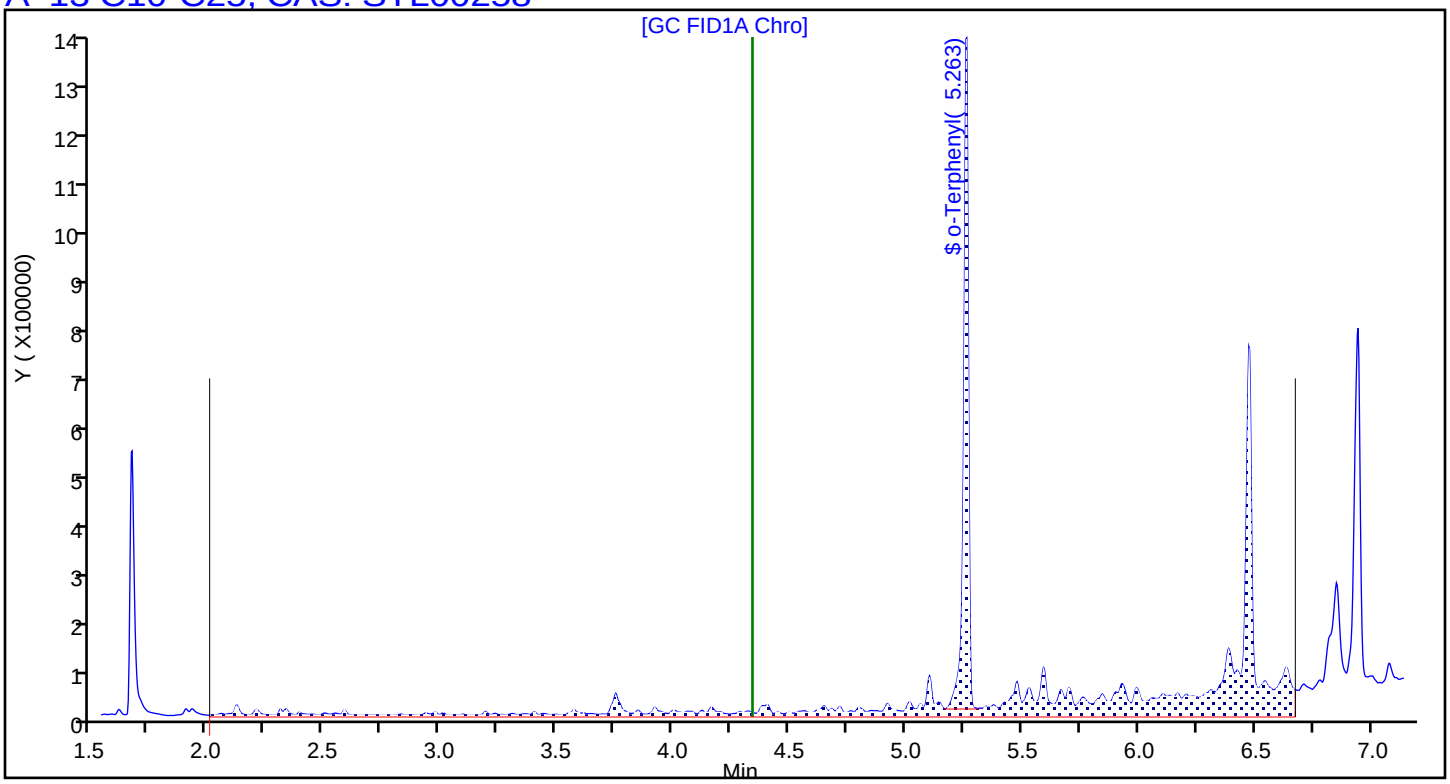
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	11.2	107.21
E 26 n-Triacontane-d62	7.25	7.64	105.32

Report Date: 23-Oct-2024 14:57:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a098.D				
Injection Date:	23-Oct-2024 03:30:56	Instrument ID:	TAC129		
Lims ID:	580-144975-A-2-B	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS220SP902 | Lab Sample ID: 580-144975-3

Matrix: Solid | Lab File ID: 10222024a067.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 10:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.97(g) | Date Analyzed: 10/22/2024 22:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 33.6 % Solids: 66.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	430		27	21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	118		50-150
93952-07-9	n-Triacontane-d62	84	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D
Lims ID: 580-144975-A-3-A
Client ID: RIR24SS220SP902
Sample Type: Client
Inject. Date: 22-Oct-2024 22:31:26 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-3-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:24

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		48982151	312.8	
$	19 o-Terphenyl	5.397	5.397	0.000	1907833	12.3	
E	28 n-Triacontane-d62	7.947	7.947	0.000	890417	6.08	a

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

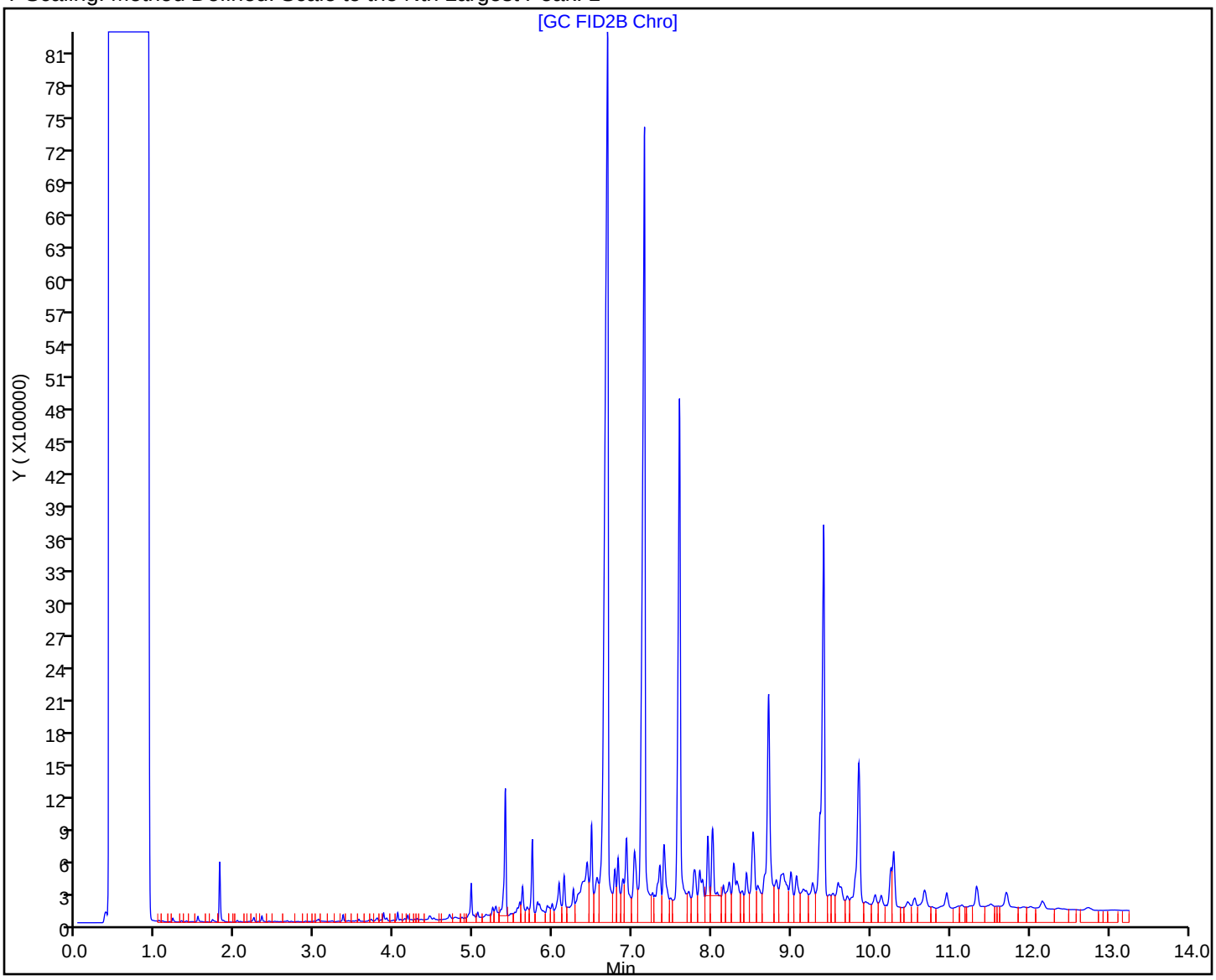
Report Date: 23-Oct-2024 16:55:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D

Injection Date:	22-Oct-2024 22:31:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-3-A	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D
Lims ID: 580-144975-A-3-A
Client ID: RIR24SS220SP902
Sample Type: Client
Inject. Date: 22-Oct-2024 22:31:26 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-3-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:24

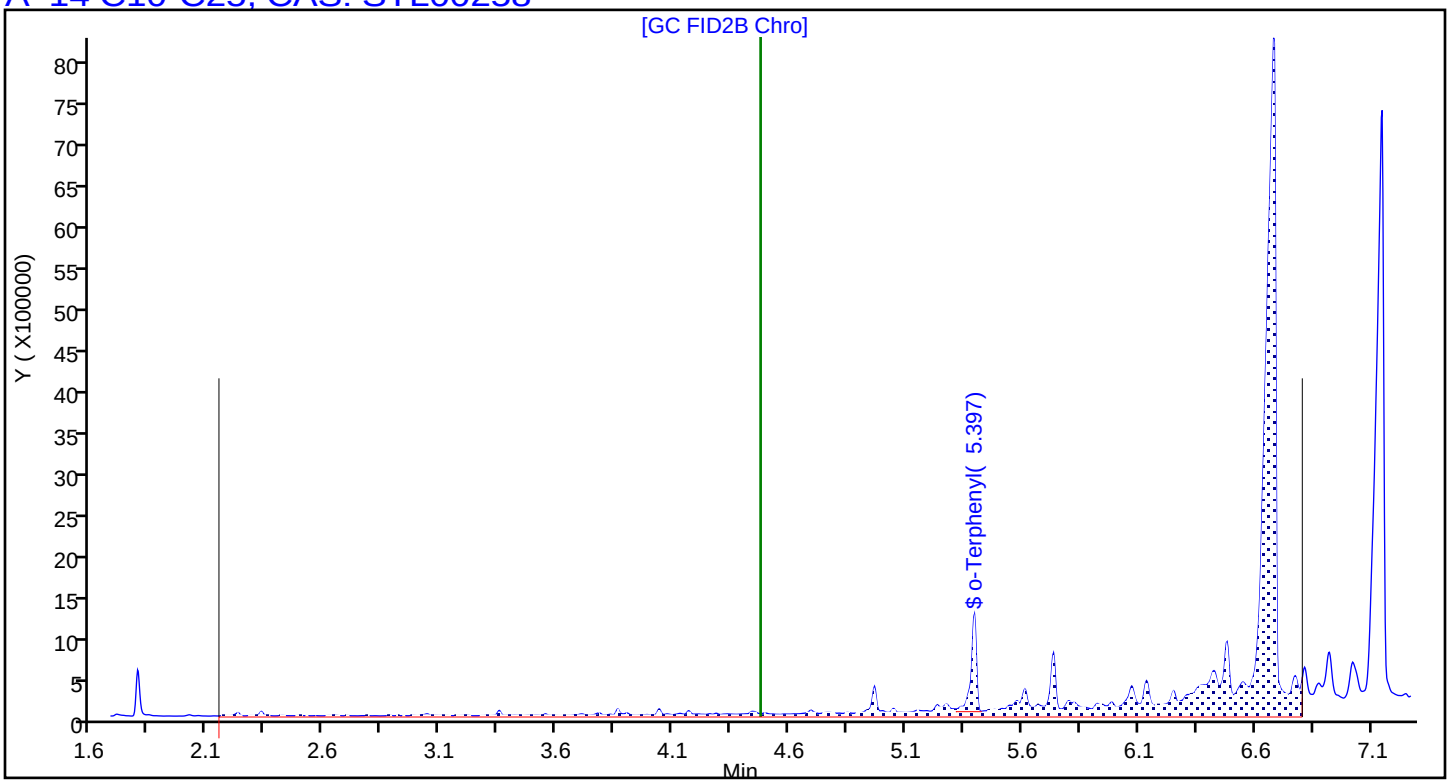
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	12.3	118.26
E 28 n-Triacontane-d62	7.25	6.08	83.85

Report Date: 23-Oct-2024 16:55:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D				
Injection Date:	22-Oct-2024 22:31:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-3-A	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

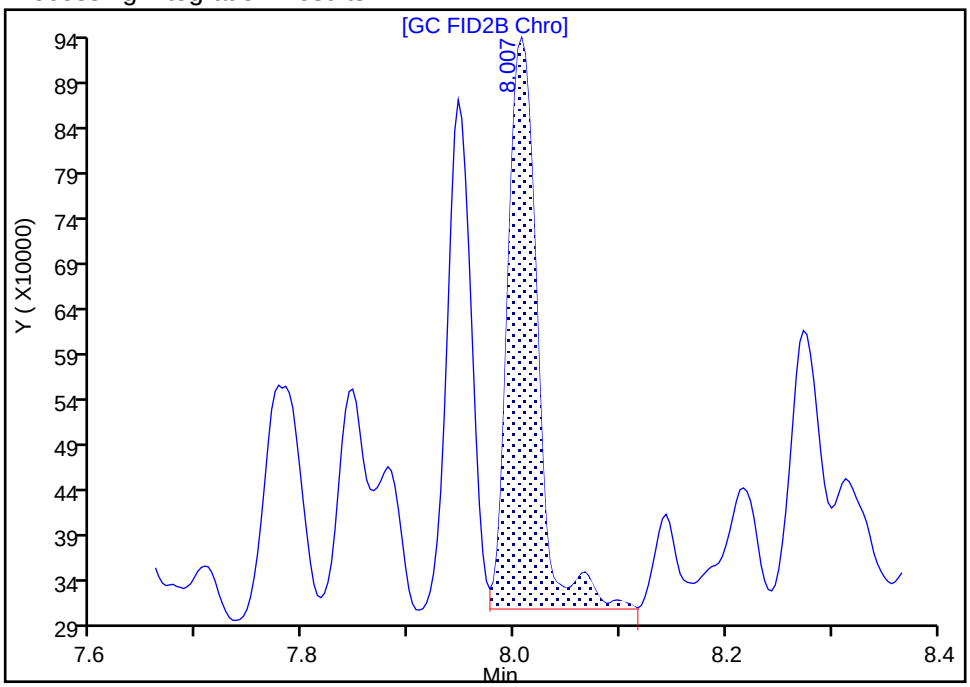
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D				
Injection Date:	22-Oct-2024 22:31:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-3-A	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

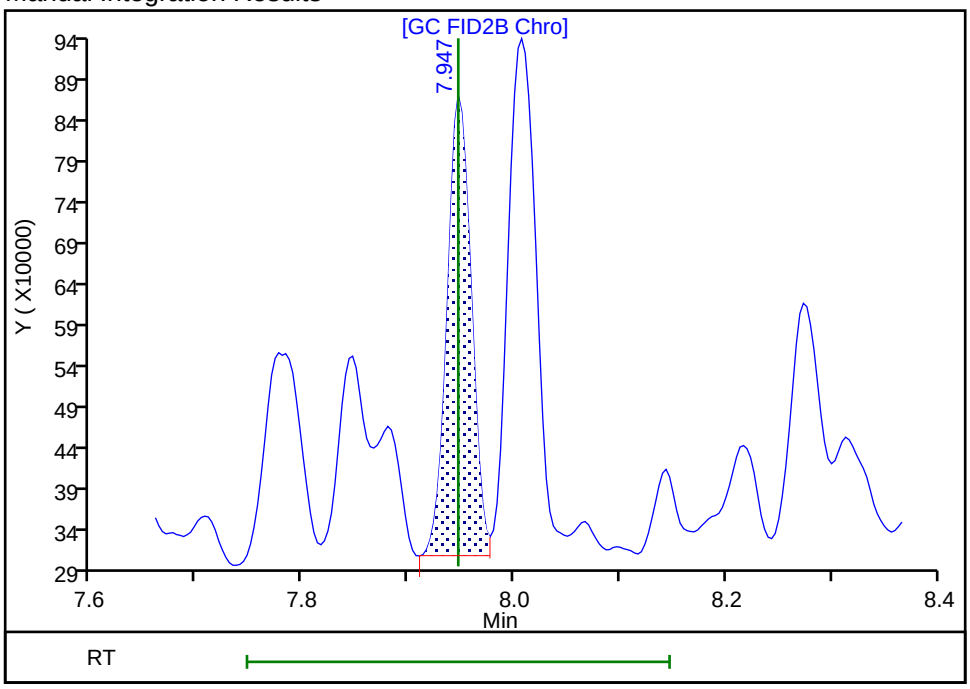
Processing Integration Results

RT: 8.01
Area: 1222042
Amount: 8.343421
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 890417
Amount: 6.079270
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:52:22 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS220SP902 | Lab Sample ID: 580-144975-3

Matrix: Solid | Lab File ID: 10222024a100.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 10:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.97(g) | Date Analyzed: 10/23/2024 03:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 33.6 % Solids: 66.4 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	95		27	21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	111		50-150
93952-07-9	n-Triacontane-d62	87		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a100.D
Lims ID: 580-144975-A-3-B
Client ID: RIR24SS220SP902
Sample Type: Client
Inject. Date: 23-Oct-2024 03:50:51 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-3-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		11386475	69.3	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1863247	11.6	
E 26 n-Triacontane-d62	7.773	7.777	-0.004	858154	6.31	

QC Flag Legend
Processing Flags

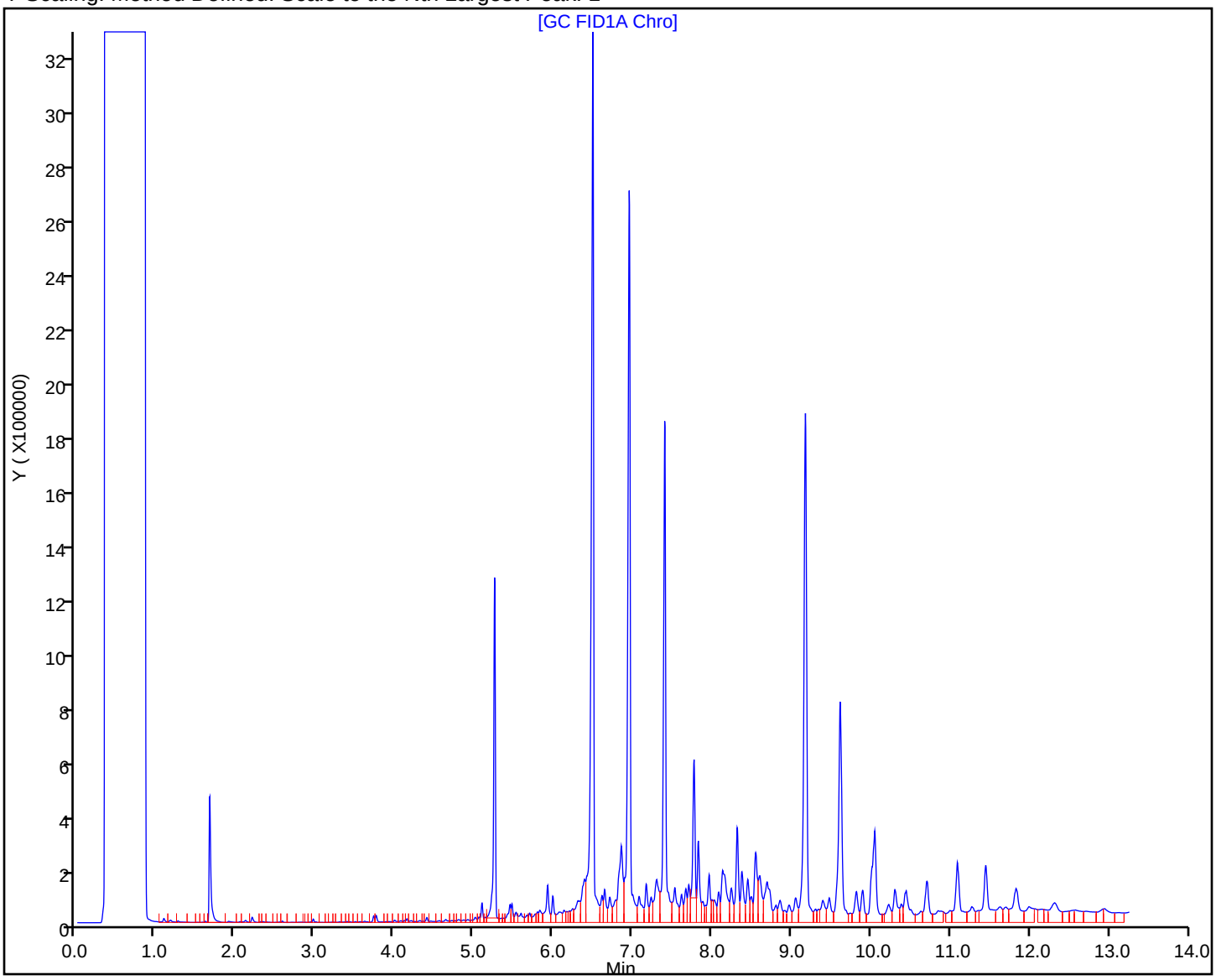
Report Date: 23-Oct-2024 14:57:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a100.D

Injection Date:	23-Oct-2024 03:50:51	Instrument ID:	TAC129		
Lims ID:	580-144975-A-3-B	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a100.D
Lims ID: 580-144975-A-3-B
Client ID: RIR24SS220SP902
Sample Type: Client
Inject. Date: 23-Oct-2024 03:50:51 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-3-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:08

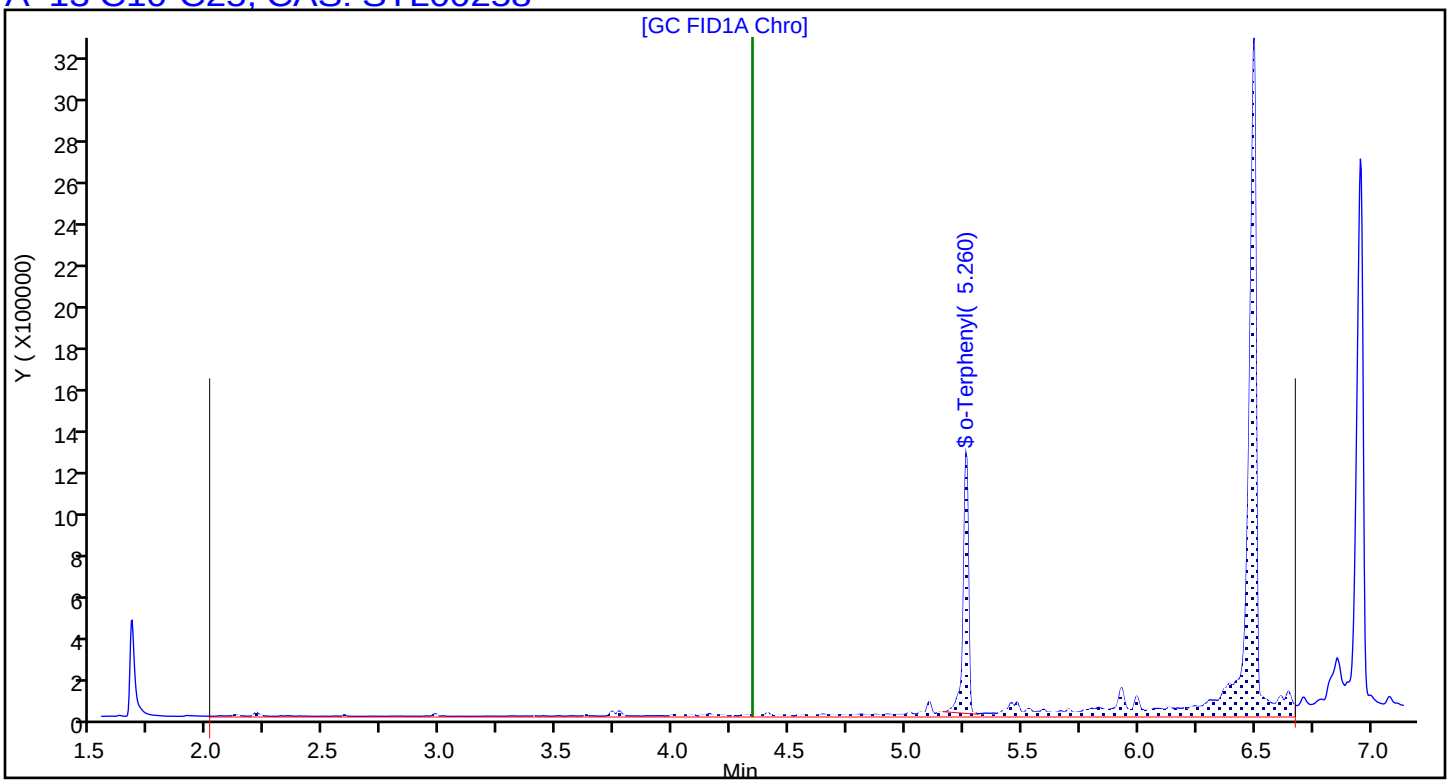
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	11.6	111.28
E 26 n-Triacontane-d62	7.25	6.31	87.08

Report Date: 23-Oct-2024 14:57:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a100.D				
Injection Date:	23-Oct-2024 03:50:51	Instrument ID:	TAC129		
Lims ID:	580-144975-A-3-B	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS221SP903 | Lab Sample ID: 580-144975-4

Matrix: Solid | Lab File ID: 10222024a069.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 11:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.30(g) | Date Analyzed: 10/22/2024 22:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 43.4 % Solids: 56.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	440		34	26	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		50-150
93952-07-9	n-Triacontane-d62	90	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D
Lims ID: 580-144975-A-4-A
Client ID: RIR24SS221SP903
Sample Type: Client
Inject. Date: 22-Oct-2024 22:51:17 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-4-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:40

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		40639763	259.1	
$	19 o-Terphenyl	5.397	5.397	0.000	1460805	9.42	
E	28 n-Triacontane-d62	7.953	7.947	0.006	950898	6.49	a

QC Flag Legend

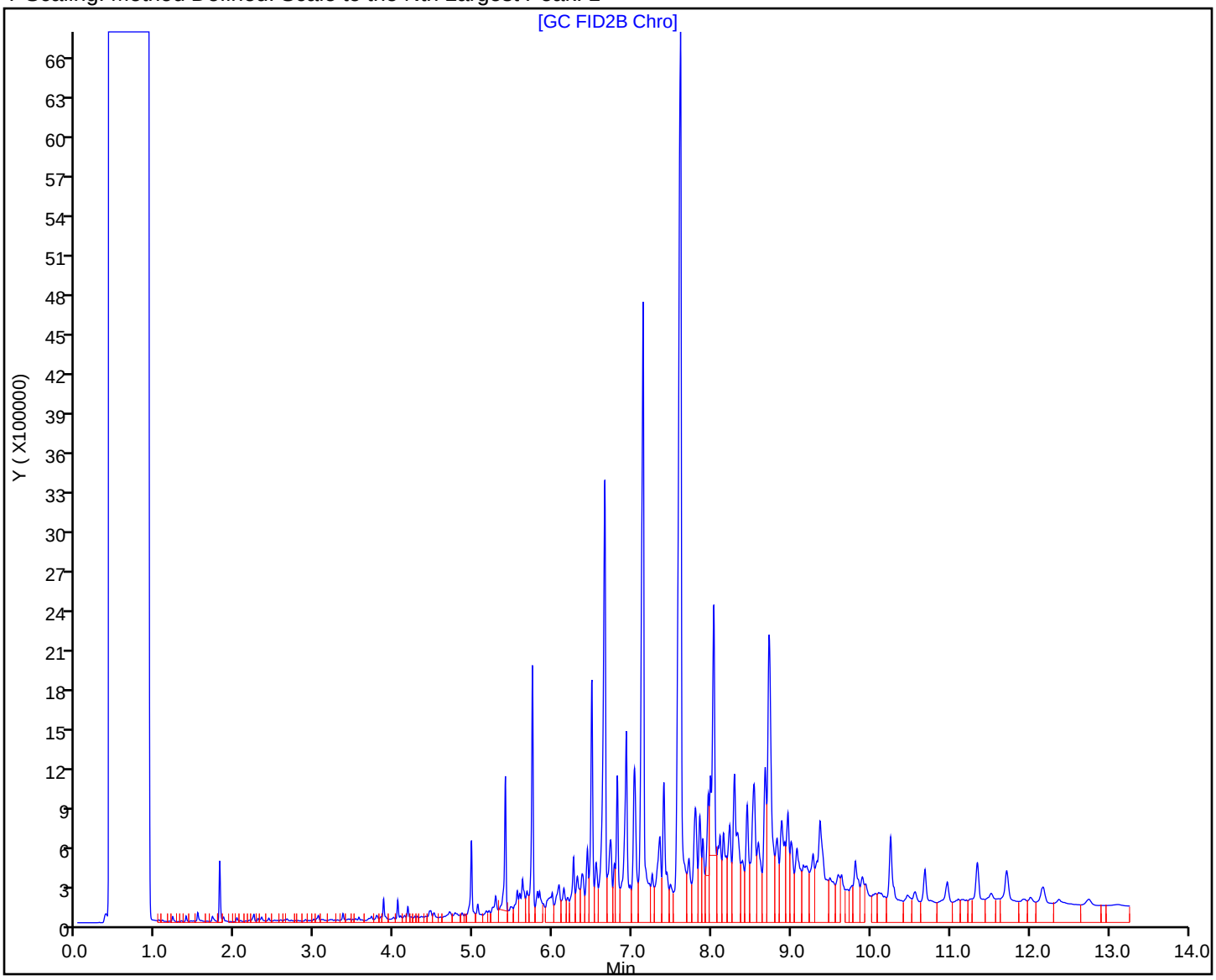
Processing Flags
Review Flags
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D				
Injection Date:	22-Oct-2024 22:51:17	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-4-A	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D
Lims ID: 580-144975-A-4-A
Client ID: RIR24SS221SP903
Sample Type: Client
Inject. Date: 22-Oct-2024 22:51:17 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-4-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:40

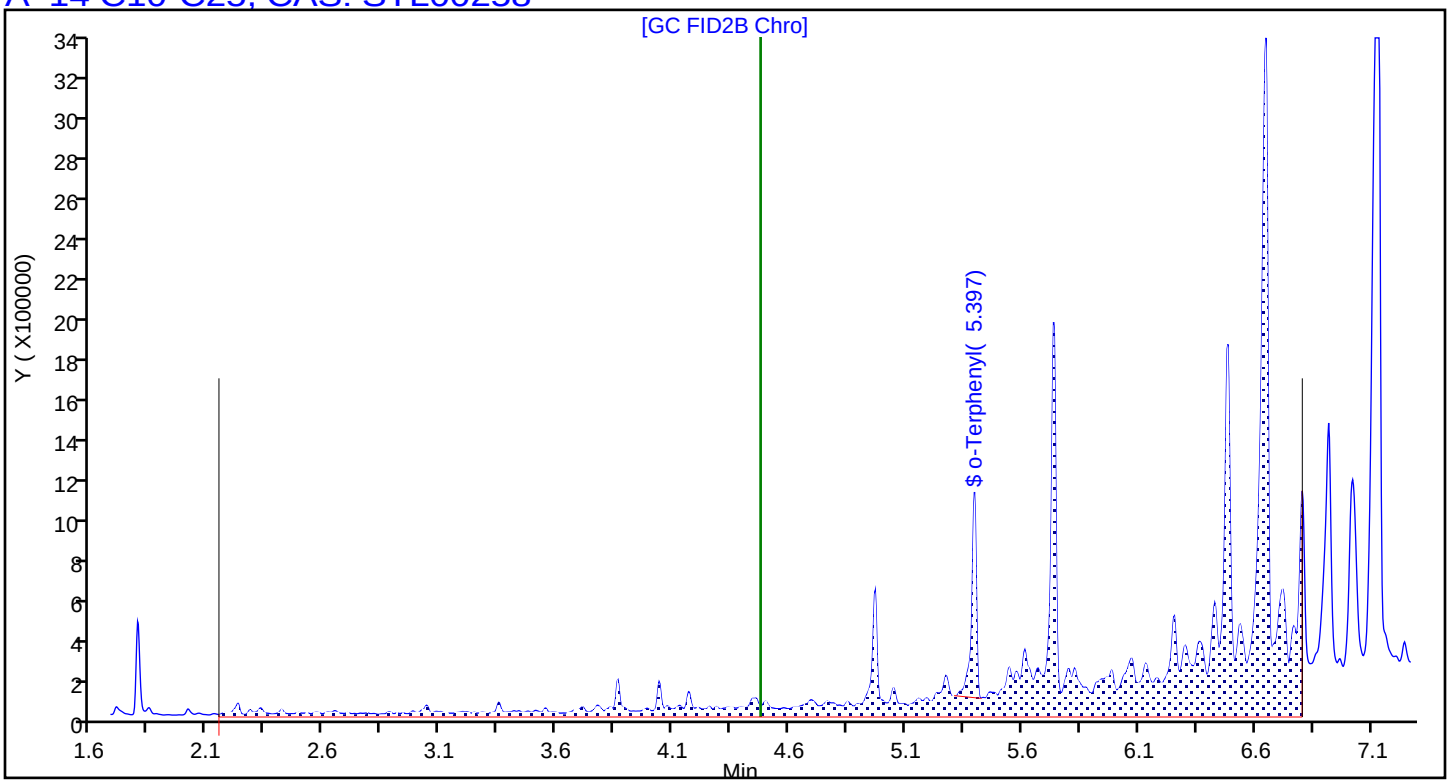
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	9.42	90.55
E 28 n-Triacontane-d62	7.25	6.49	89.55

Report Date: 23-Oct-2024 16:55:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D				
Injection Date:	22-Oct-2024 22:51:17	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-4-A	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

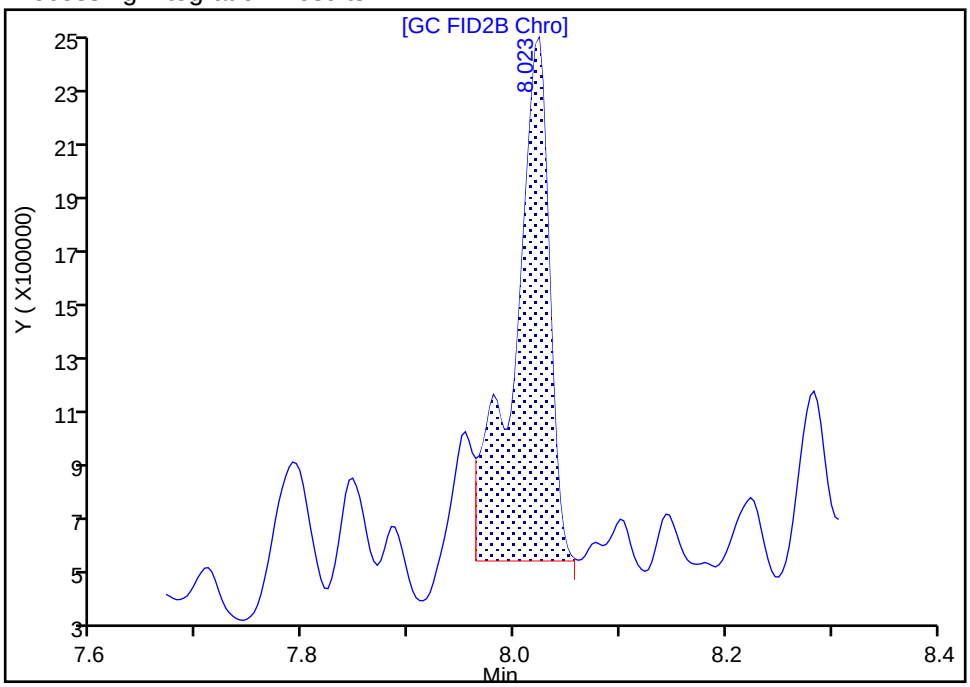
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D				
Injection Date:	22-Oct-2024 22:51:17	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-4-A	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

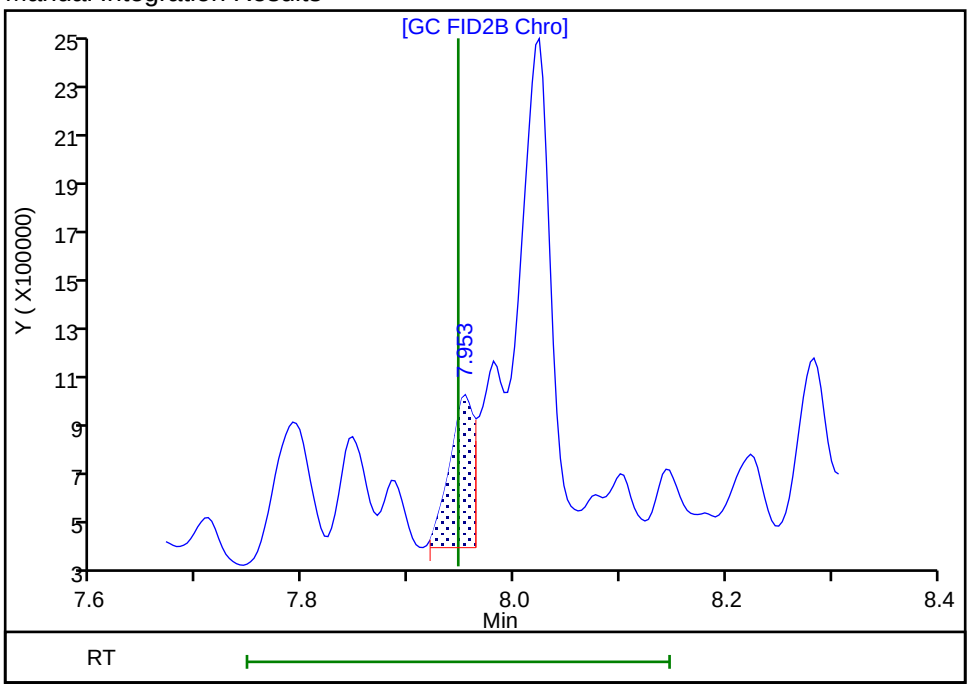
Processing Integration Results

RT: 8.02
Area: 4291750
Amount: 29.301674
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 950898
Amount: 6.492201
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:52:34 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS221SP903 | Lab Sample ID: 580-144975-4

Matrix: Solid | Lab File ID: 10222024a104.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 11:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.30(g) | Date Analyzed: 10/23/2024 04:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 43.4 % Solids: 56.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	61		34	26	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		50-150
93952-07-9	n-Triacontane-d62	94		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a104.D				
Lims ID:	580-144975-A-4-B				
Client ID:	RIR24SS221SP903				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 04:30:40	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-4-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:55:20		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		5961296	35.8	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1585994	9.85	
E 26 n-Triacontane-d62	7.833	7.777	0.056	925545	6.81	

QC Flag Legend

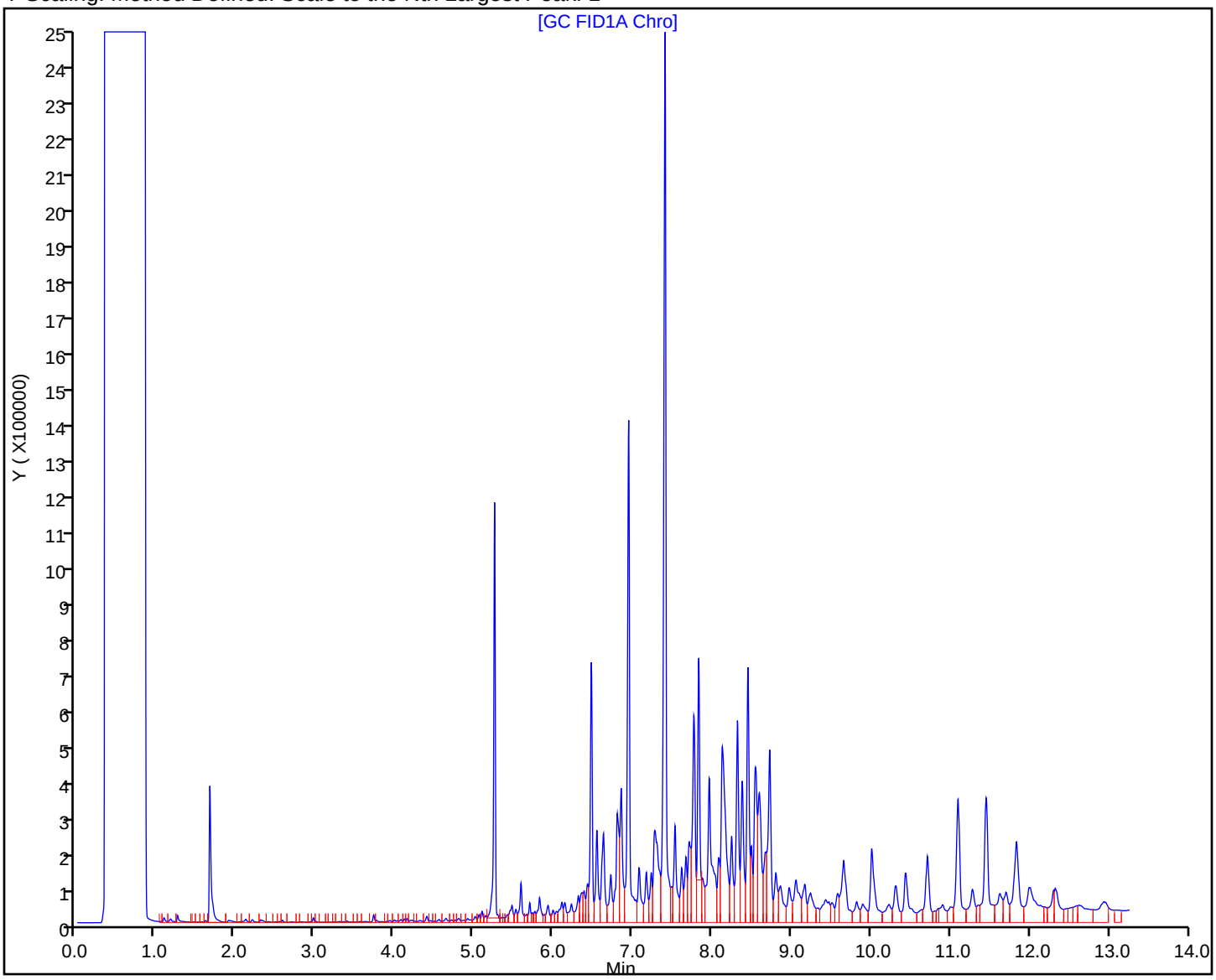
Processing Flags

Report Date: 23-Oct-2024 14:57:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a104.D				
Injection Date:	23-Oct-2024 04:30:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-4-B	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a104.D
Lims ID: 580-144975-A-4-B
Client ID: RIR24SS221SP903
Sample Type: Client
Inject. Date: 23-Oct-2024 04:30:40 ALS Bottle#: 0 Worklist Smp#: 52
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-4-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:20

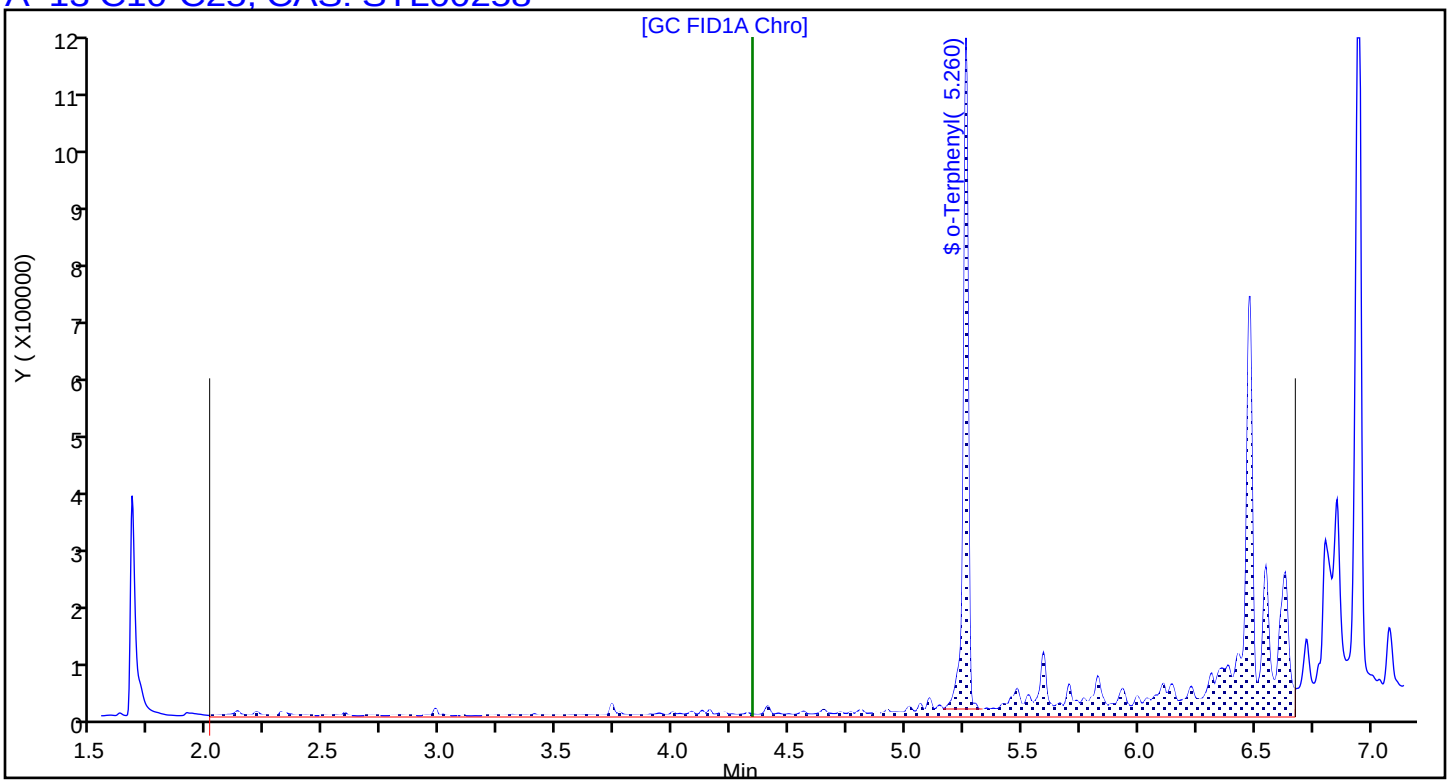
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.85	94.72
E 26 n-Triacontane-d62	7.25	6.81	93.92

Report Date: 23-Oct-2024 14:57:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a104.D				
Injection Date:	23-Oct-2024 04:30:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-4-B	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS222SP903 | Lab Sample ID: 580-144975-5

Matrix: Solid | Lab File ID: 10222024a071.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 11:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.57(g) | Date Analyzed: 10/22/2024 23:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 33.2 % Solids: 66.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	180		28	21	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	109		50-150
93952-07-9	n-Triacontane-d62	78		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a071.D				
Lims ID:	580-144975-A-5-A				
Client ID:	RIR24SS222SP903				
Sample Type:	Client				
Inject. Date:	22-Oct-2024 23:11:11	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-5-A				
Operator ID:	SW	Instrument ID:	TAC129_R		
Method:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 16:55:05	Calib Date:	20-Sep-2024 17:59:07		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 16:52:48		

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		20597195	130.3	
$	19 o-Terphenyl	5.397	5.397	0.000	1765745	11.4	
E	28 n-Triacontane-d62	7.947	7.947	0.000	831924	5.68	

QC Flag Legend

Processing Flags

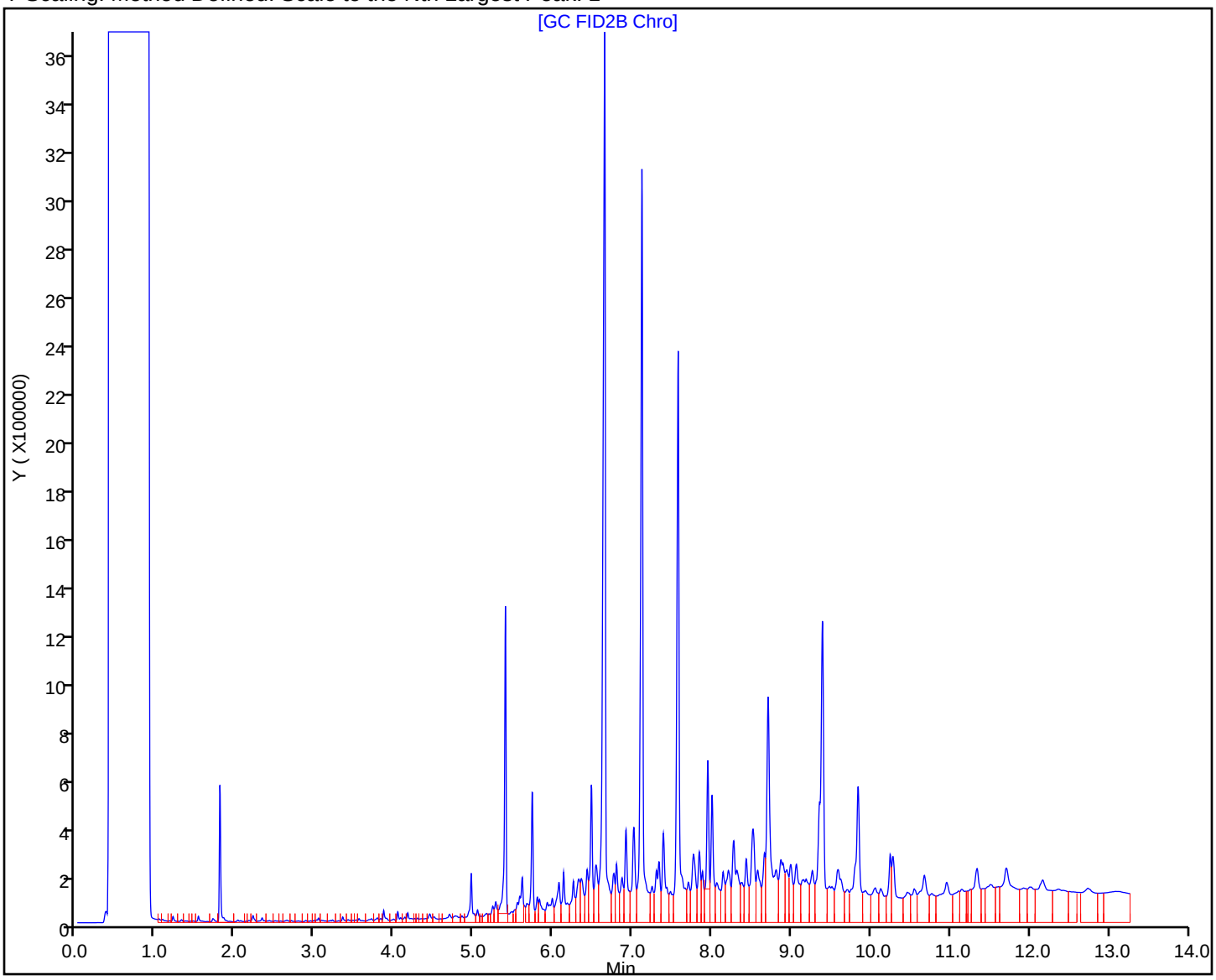
Report Date: 23-Oct-2024 16:55:17 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a071.D

Injection Date:	22-Oct-2024 23:11:11	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-5-A	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:17 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a071.D
Lims ID: 580-144975-A-5-A
Client ID: RIR24SS222SP903
Sample Type: Client
Inject. Date: 22-Oct-2024 23:11:11 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-5-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:52:48

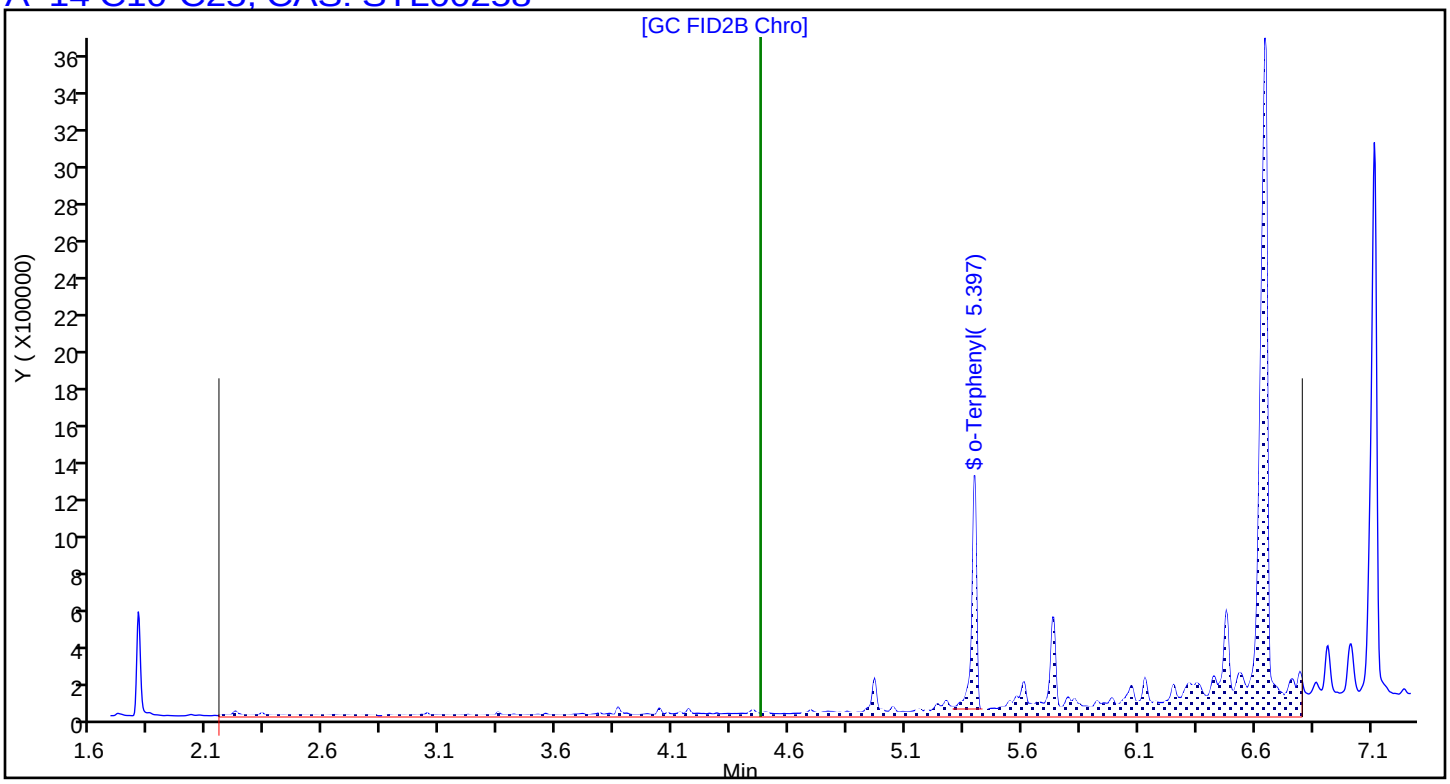
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	11.4	109.46
E 28 n-Triacontane-d62	7.25	5.68	78.34

Report Date: 23-Oct-2024 16:55:17 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a071.D				
Injection Date:	22-Oct-2024 23:11:11	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-5-A	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS222SP903 | Lab Sample ID: 580-144975-5

Matrix: Solid | Lab File ID: 10222024a106.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 11:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.57(g) | Date Analyzed: 10/23/2024 04:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 33.2 % Solids: 66.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	18	J	28	21	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	113		50-150
93952-07-9	n-Triacontane-d62	96		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a106.D				
Lims ID:	580-144975-A-5-B				
Client ID:	RIR24SS222SP903				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 04:50:48	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-5-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:55:24		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		2229116	12.8	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1888532	11.7	
E 26 n-Triacontane-d62	7.767	7.777	-0.010	944668	6.95	

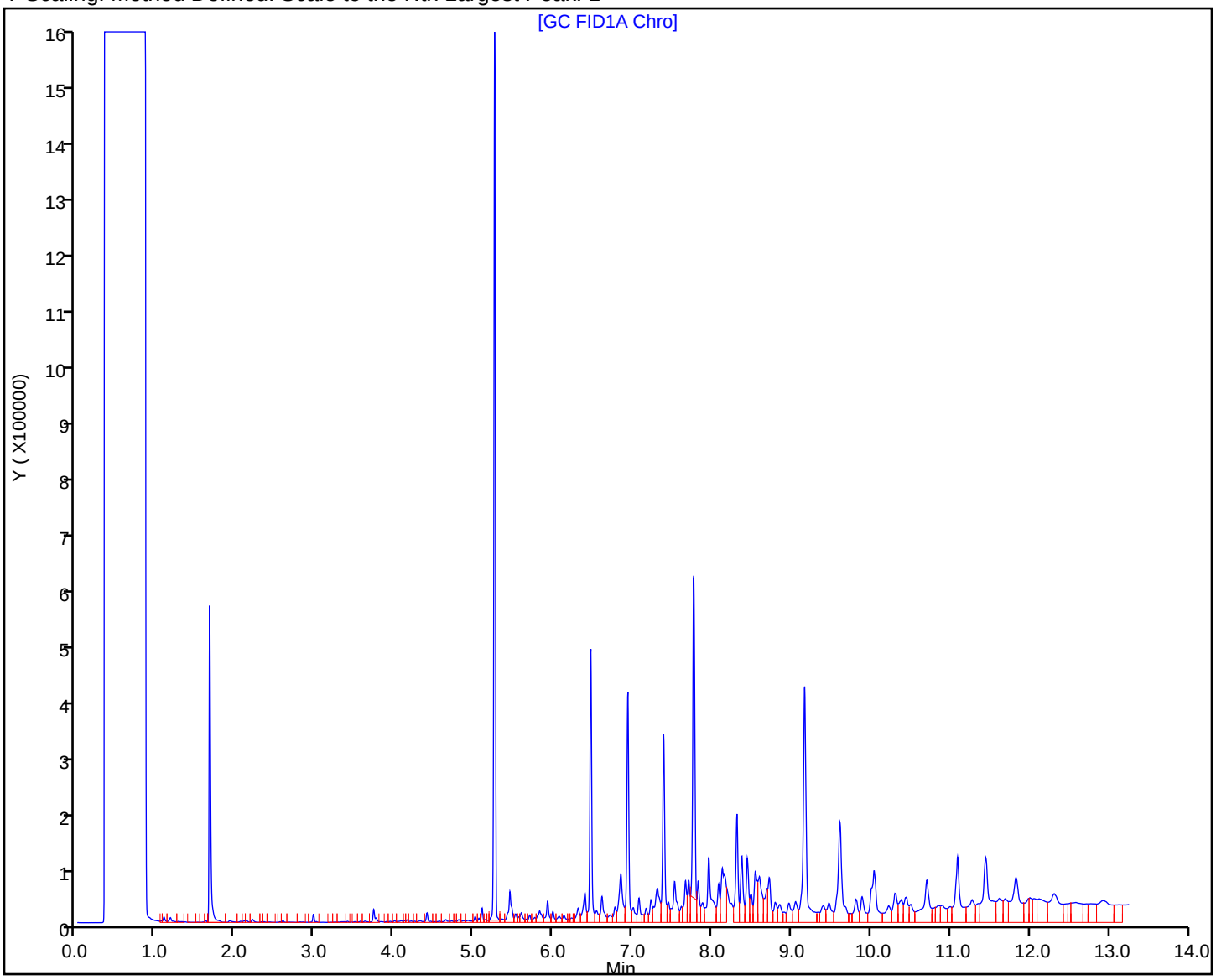
QC Flag Legend
Processing Flags

Report Date: 23-Oct-2024 14:57:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a106.D				
Injection Date:	23-Oct-2024 04:50:48	Instrument ID:	TAC129		
Lims ID:	580-144975-A-5-B	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a106.D
Lims ID: 580-144975-A-5-B
Client ID: RIR24SS222SP903
Sample Type: Client
Inject. Date: 23-Oct-2024 04:50:48 ALS Bottle#: 0 Worklist Smp#: 53
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-5-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:24

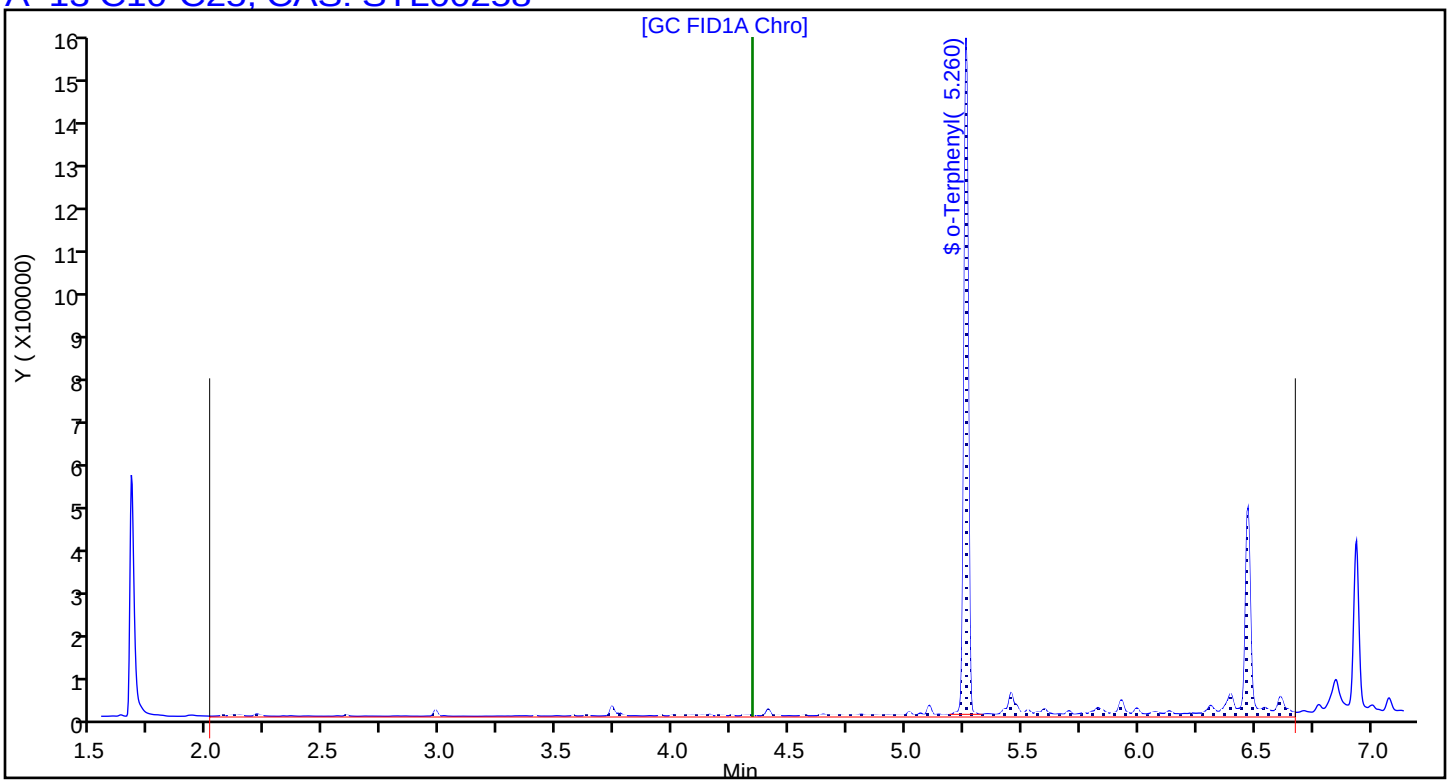
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	11.7	112.79
E 26 n-Triacontane-d62	7.25	6.95	95.86

Report Date: 23-Oct-2024 14:57:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a106.D				
Injection Date:	23-Oct-2024 04:50:48	Instrument ID:	TAC129		
Lims ID:	580-144975-A-5-B	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS223SP903.5 | Lab Sample ID: 580-144975-6

Matrix: Solid | Lab File ID: 10222024a075.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 12:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.38(g) | Date Analyzed: 10/22/2024 23:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 50.9 % Solids: 49.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	470		39	29	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		50-150
93952-07-9	n-Triacontane-d62	73	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D
Lims ID: 580-144975-A-6-A
Client ID: RIR24SS223SP903.5
Sample Type: Client
Inject. Date: 22-Oct-2024 23:51:26 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-6-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:09

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		37306603	237.7	
$	19 o-Terphenyl	5.397	5.400	-0.003	1702217	11.0	
E	28 n-Triacontane-d62	7.950	7.950	0.000	780292	5.33	a

QC Flag Legend

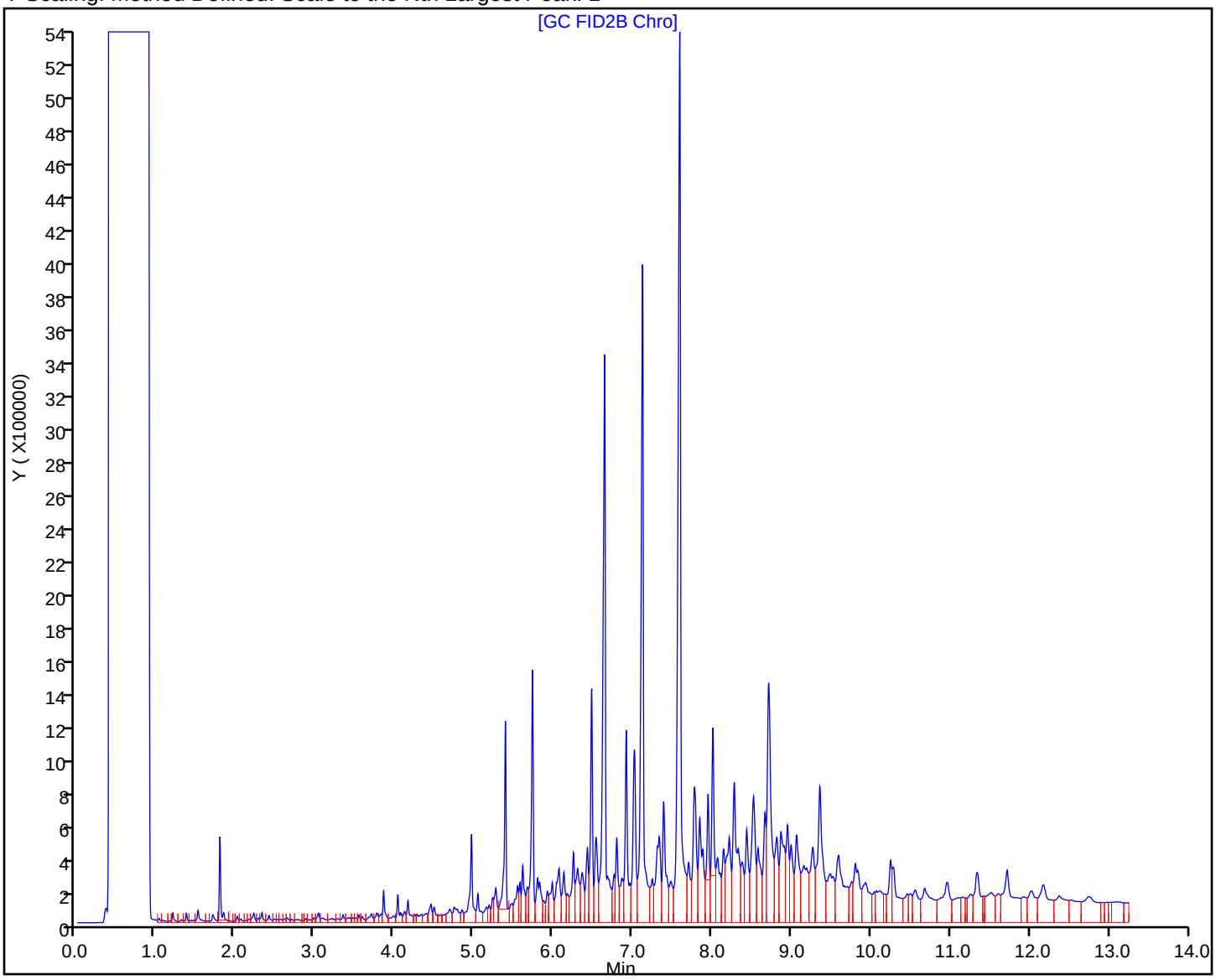
Processing Flags
Review Flags
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D				
Injection Date:	22-Oct-2024 23:51:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-6-A	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D
Lims ID: 580-144975-A-6-A
Client ID: RIR24SS223SP903.5
Sample Type: Client
Inject. Date: 22-Oct-2024 23:51:26 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-6-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:09

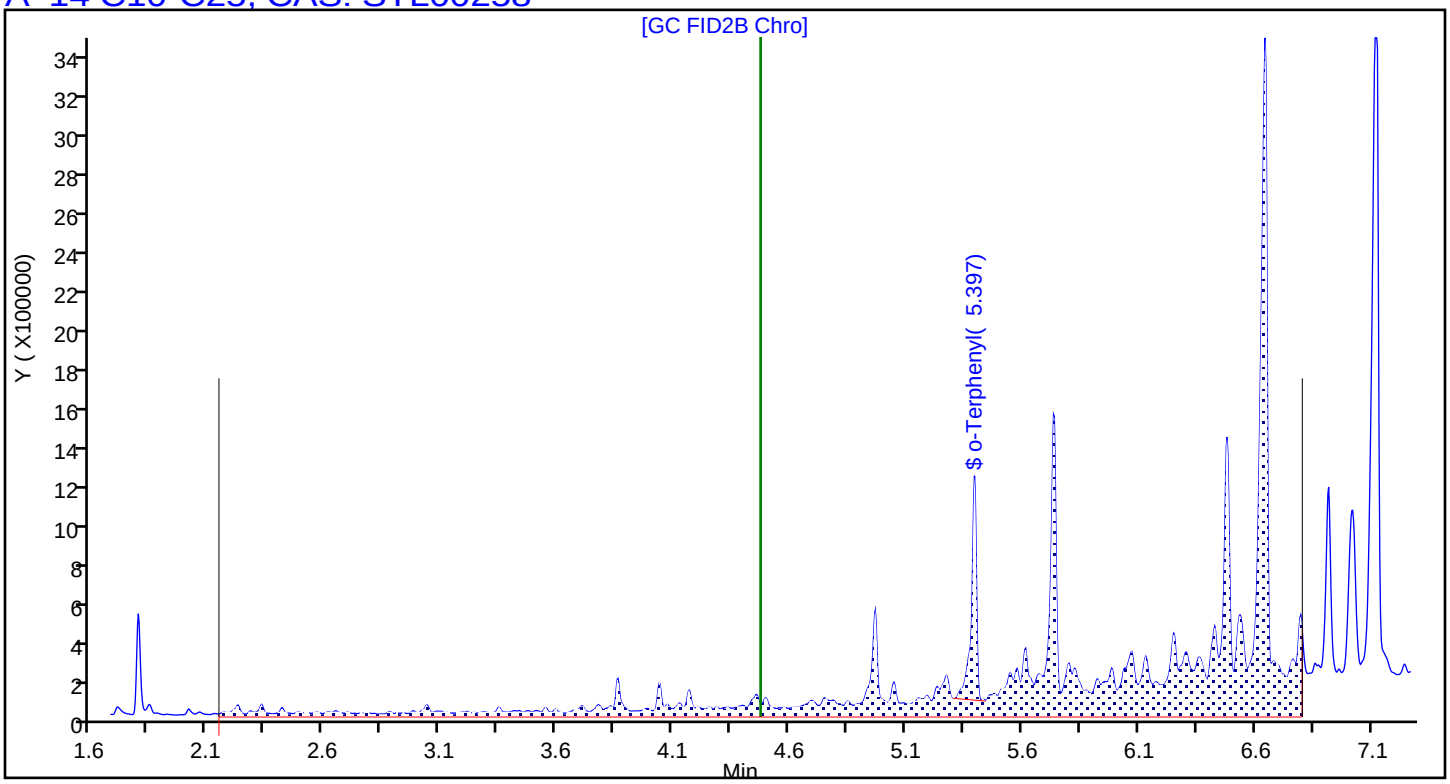
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	11.0	105.52
E 28 n-Triacontane-d62	7.25	5.33	73.48

Report Date: 23-Oct-2024 16:55:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D				
Injection Date:	22-Oct-2024 23:51:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-6-A	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

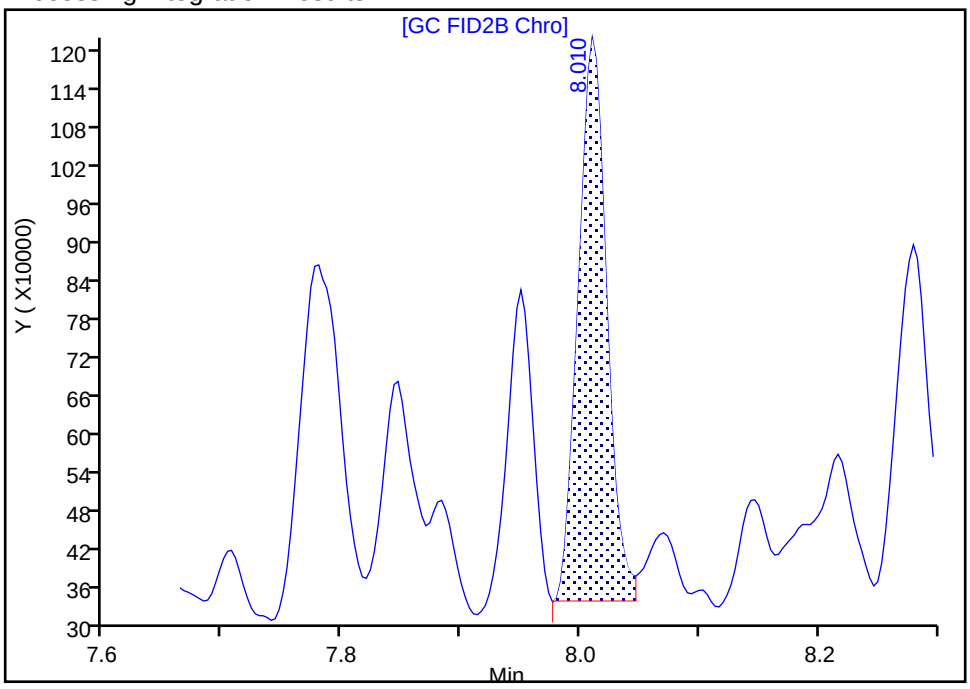
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D				
Injection Date:	22-Oct-2024 23:51:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-6-A	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

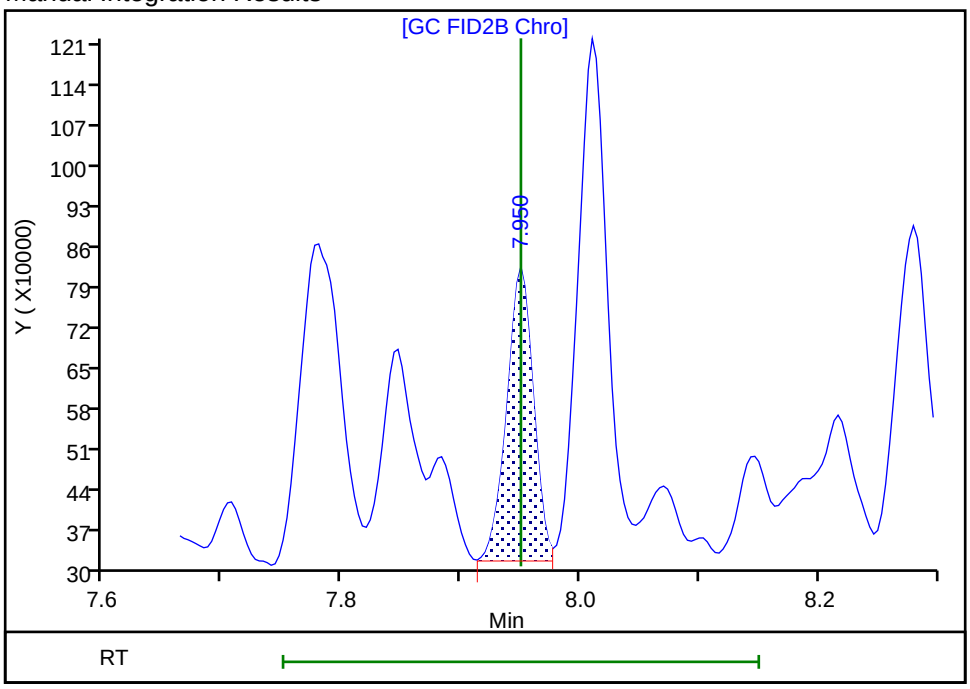
Processing Integration Results

RT: 8.01
Area: 1462992
Amount: 9.988493
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 780292
Amount: 5.327398
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:53:06 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS223SP903.5 | Lab Sample ID: 580-144975-6

Matrix: Solid | Lab File ID: 10222024a108.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 12:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.38(g) | Date Analyzed: 10/23/2024 05:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 50.9 % Solids: 49.1 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	33	J	39	29	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		50-150
93952-07-9	n-Triacontane-d62	96		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a108.D				
Lims ID:	580-144975-A-6-B				
Client ID:	RIR24SS223SP903.5				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 05:10:40	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-6-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:55:29		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		2904581	17.0	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1774601	11.0	
E 26 n-Triacontane-d62	7.770	7.777	-0.007	944838	6.95	

QC Flag Legend
Processing Flags

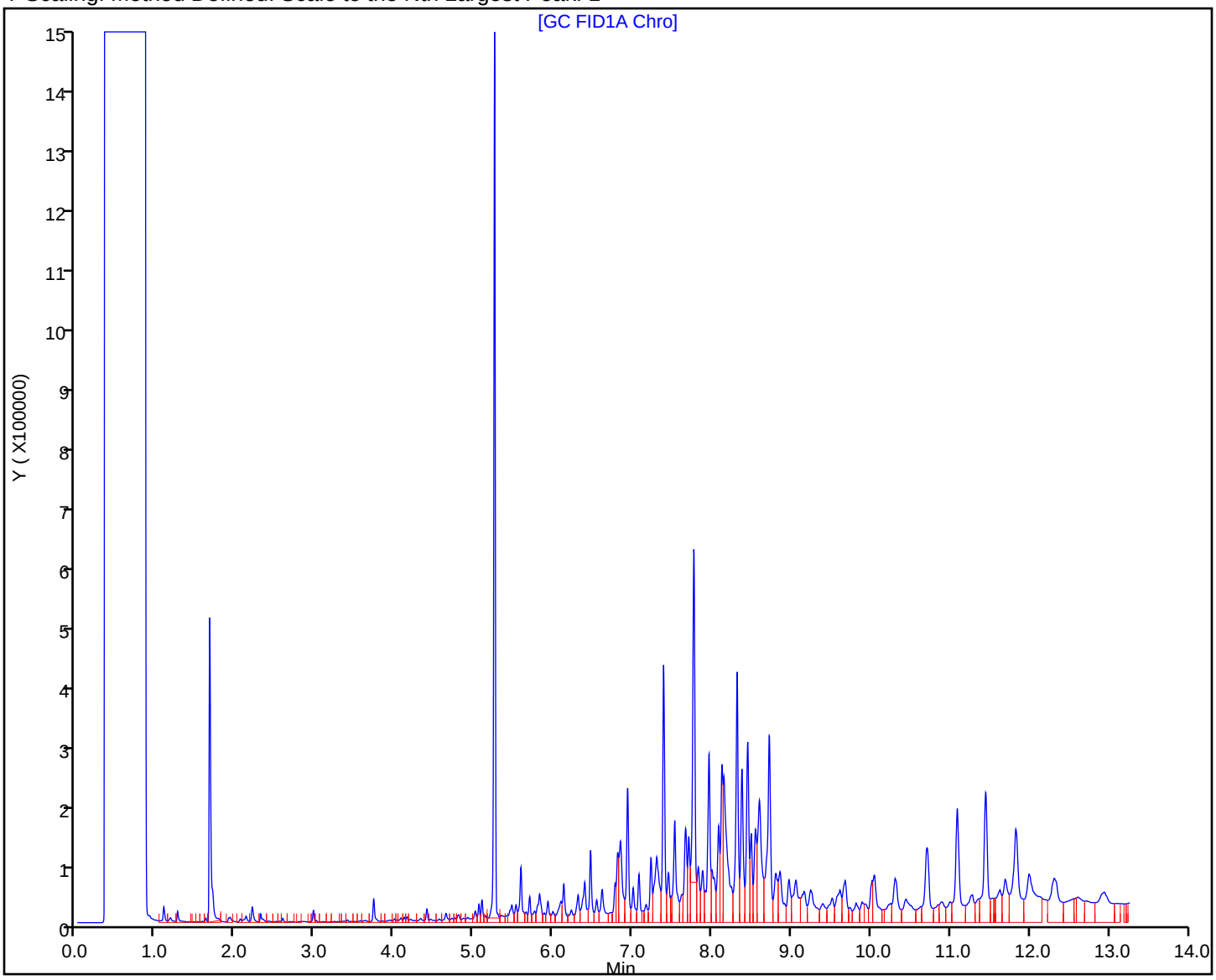
Report Date: 23-Oct-2024 14:57:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a108.D

Injection Date:	23-Oct-2024 05:10:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-6-B	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a108.D
Lims ID: 580-144975-A-6-B
Client ID: RIR24SS223SP903.5
Sample Type: Client
Inject. Date: 23-Oct-2024 05:10:40 ALS Bottle#: 0 Worklist Smp#: 54
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-6-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:29

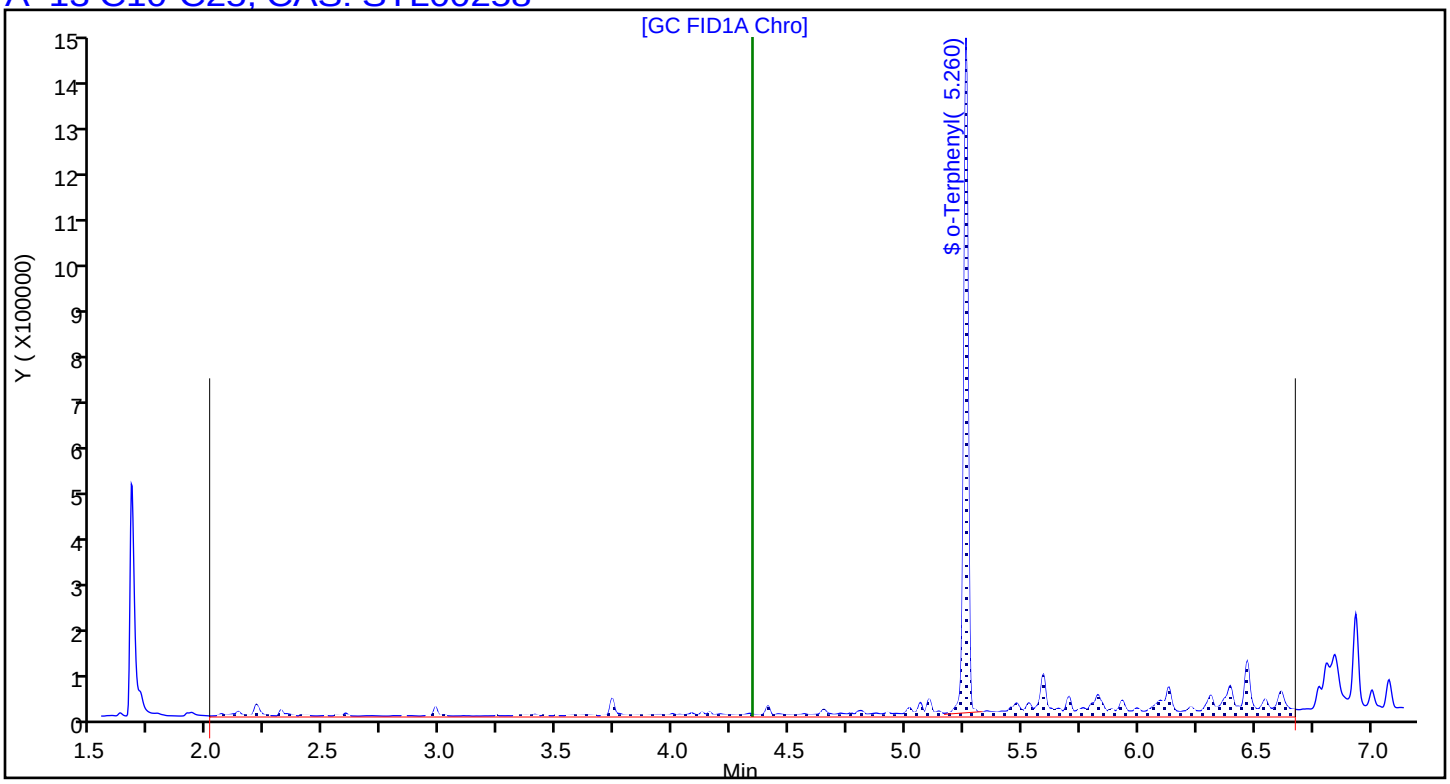
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	11.0	105.98
E 26 n-Triacontane-d62	7.25	6.95	95.87

Report Date: 23-Oct-2024 14:57:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a108.D				
Injection Date:	23-Oct-2024 05:10:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-6-B	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS224SP904.5 | Lab Sample ID: 580-144975-7

Matrix: Solid | Lab File ID: 10222024a077.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 12:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.08(g) | Date Analyzed: 10/23/2024 00:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 70.2 % Solids: 29.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	420		67	50	30

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150
93952-07-9	n-Triacontane-d62	75	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D
Lims ID: 580-144975-A-7-A
Client ID: RIR24SS224SP904.5
Sample Type: Client
Inject. Date: 23-Oct-2024 00:11:19 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-7-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 14 C10-C25	4.477	(2.147-6.807)		19801022	125.2	
$ 19 o-Terphenyl	5.397	5.400	-0.003	1558478	10.0	
E 28 n-Triacontane-d62	7.947	7.950	-0.003	793023	5.41	a

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

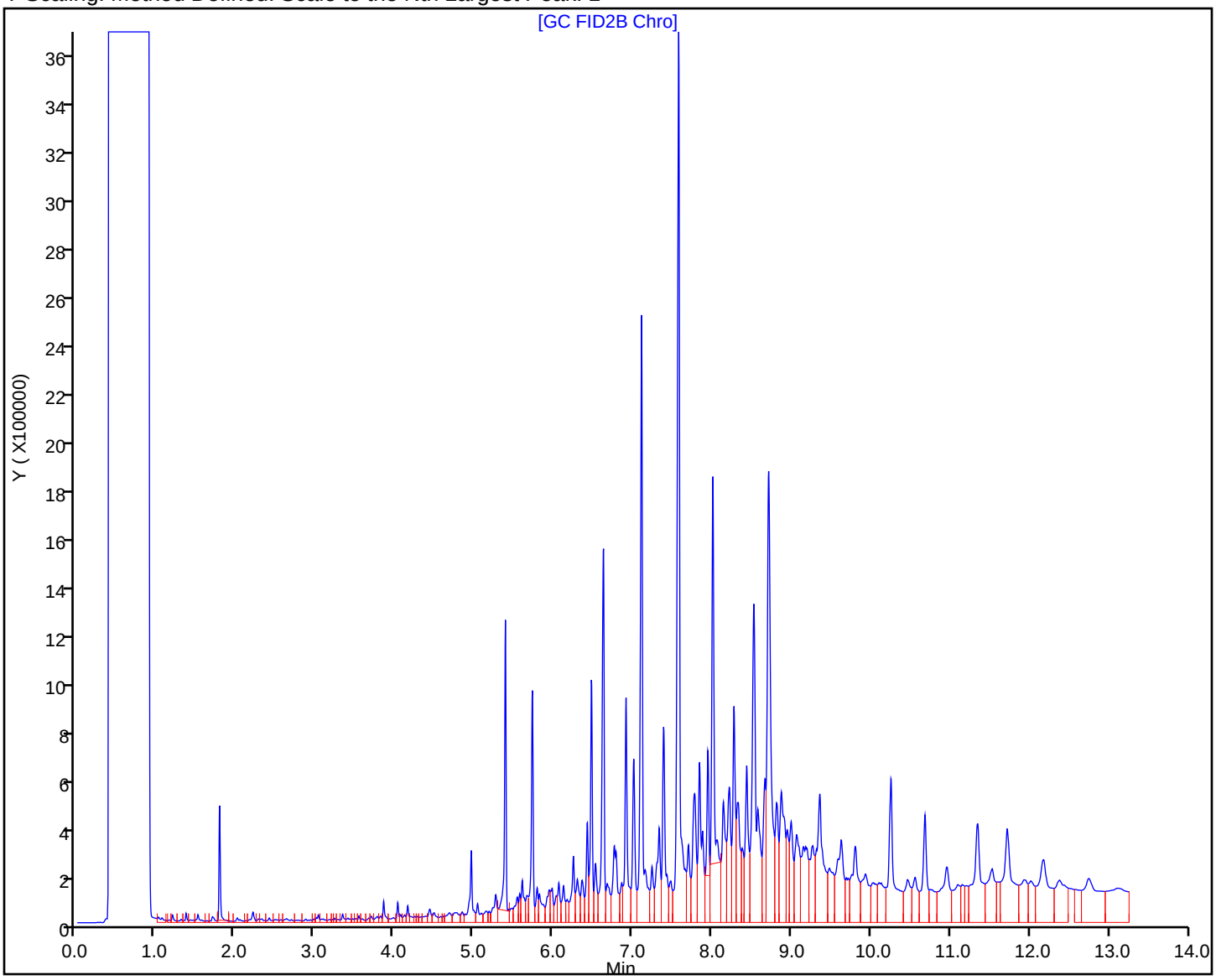
Report Date: 23-Oct-2024 16:55:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D

Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-7-A	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D
Lims ID: 580-144975-A-7-A
Client ID: RIR24SS224SP904.5
Sample Type: Client
Inject. Date: 23-Oct-2024 00:11:19 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-7-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:18

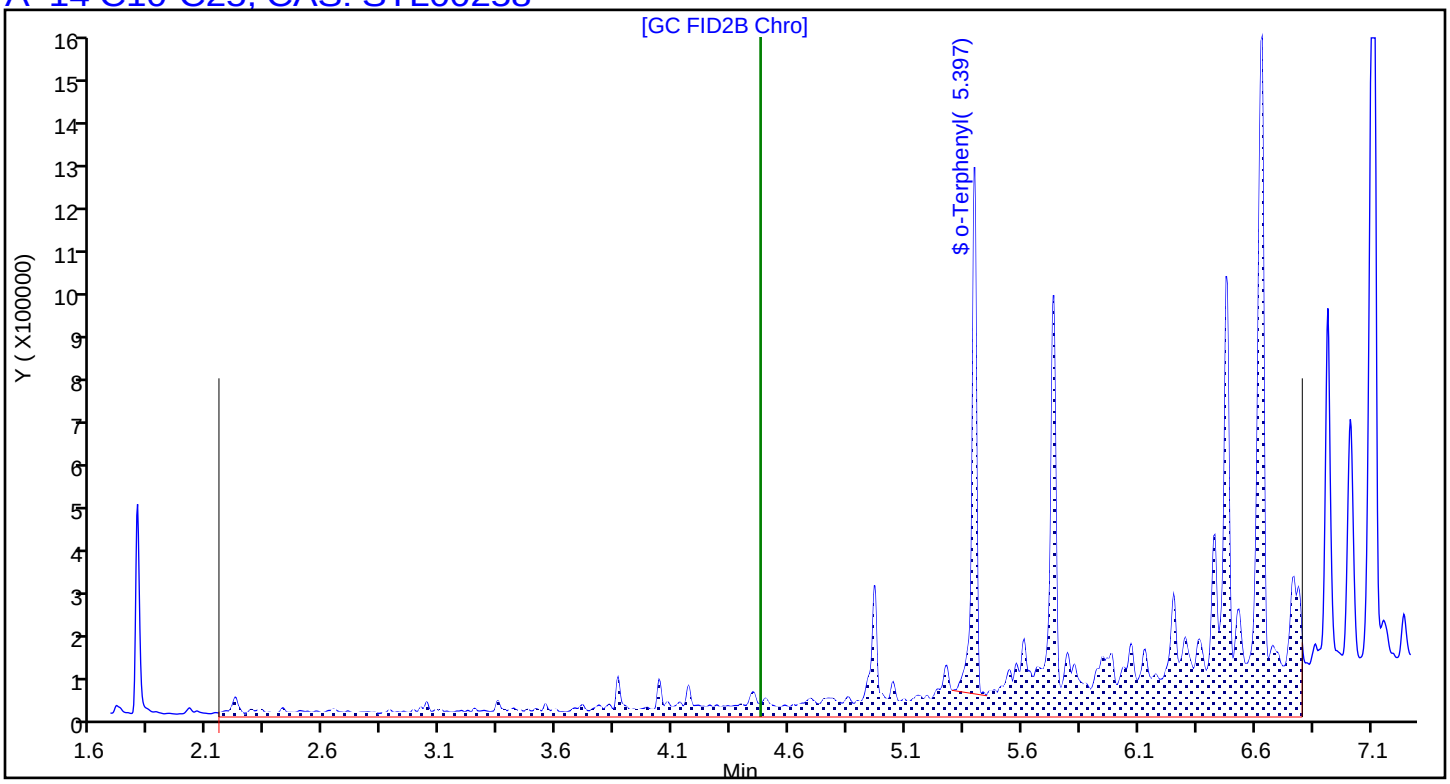
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	10.0	96.61
E 28 n-Triacontane-d62	7.25	5.41	74.68

Report Date: 23-Oct-2024 16:55:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D				
Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-7-A	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

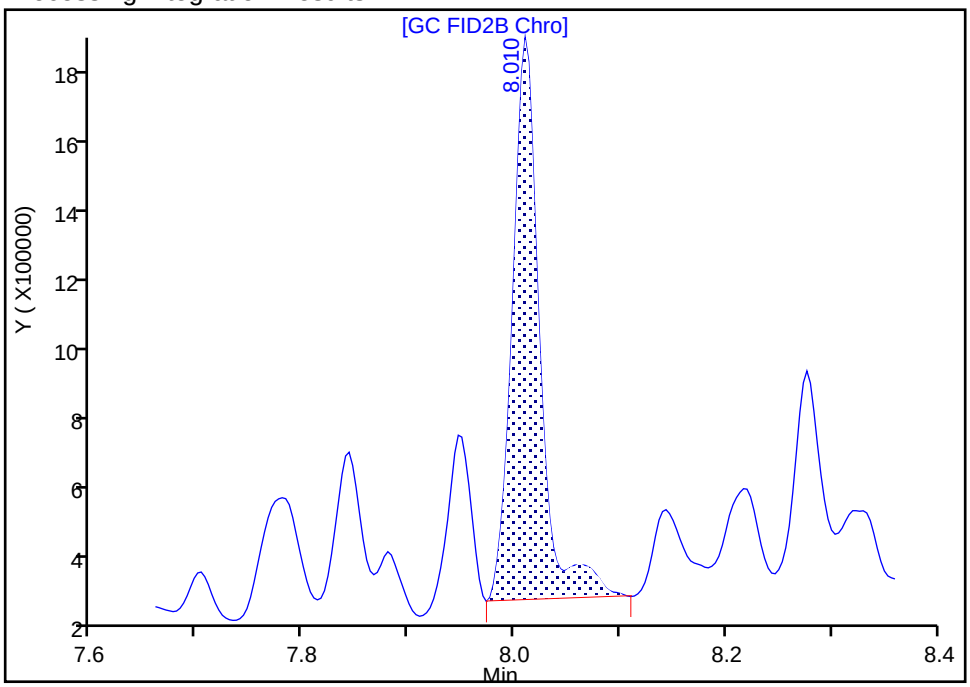
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D				
Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-7-A	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

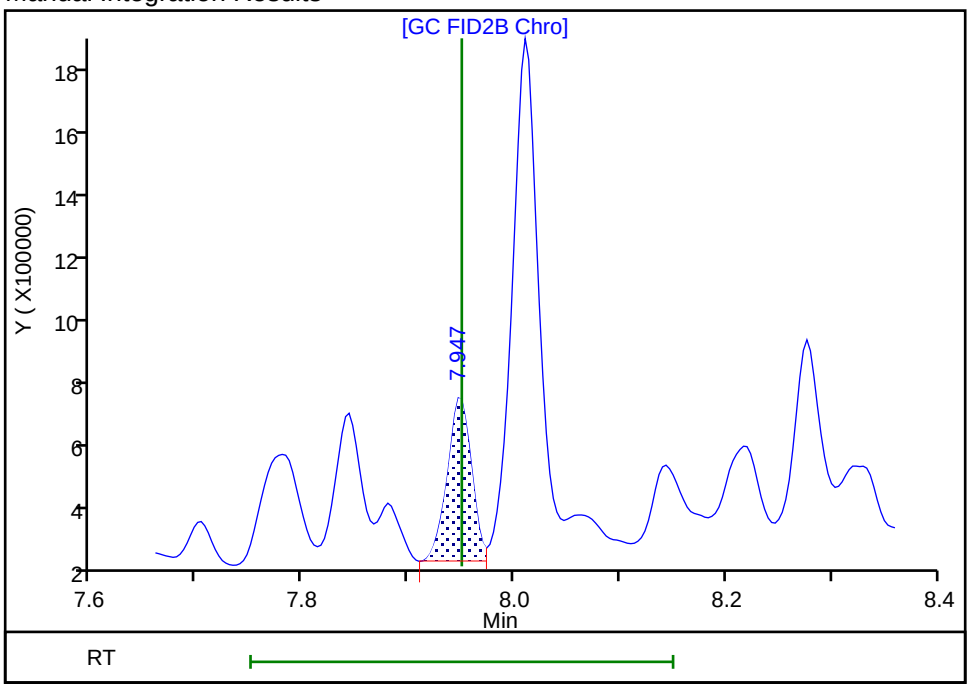
Processing Integration Results

RT: 8.01
Area: 2790687
Amount: 19.053254
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 793023
Amount: 5.414319
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:53:15 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS224SP904.5 | Lab Sample ID: 580-144975-7

Matrix: Solid | Lab File ID: 10222024a110.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 12:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.08(g) | Date Analyzed: 10/23/2024 05:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 70.2 % Solids: 29.8 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	41	J	67	50	30

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		50-150
93952-07-9	n-Triacontane-d62	93		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a110.D				
Lims ID:	580-144975-A-7-B				
Client ID:	RIR24SS224SP904.5				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 05:30:38	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-7-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 14:55:33		

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		2142882	12.3	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1715504	10.7	
E 26 n-Triacontane-d62	7.770	7.777	-0.007	917934	6.75	

QC Flag Legend

Processing Flags

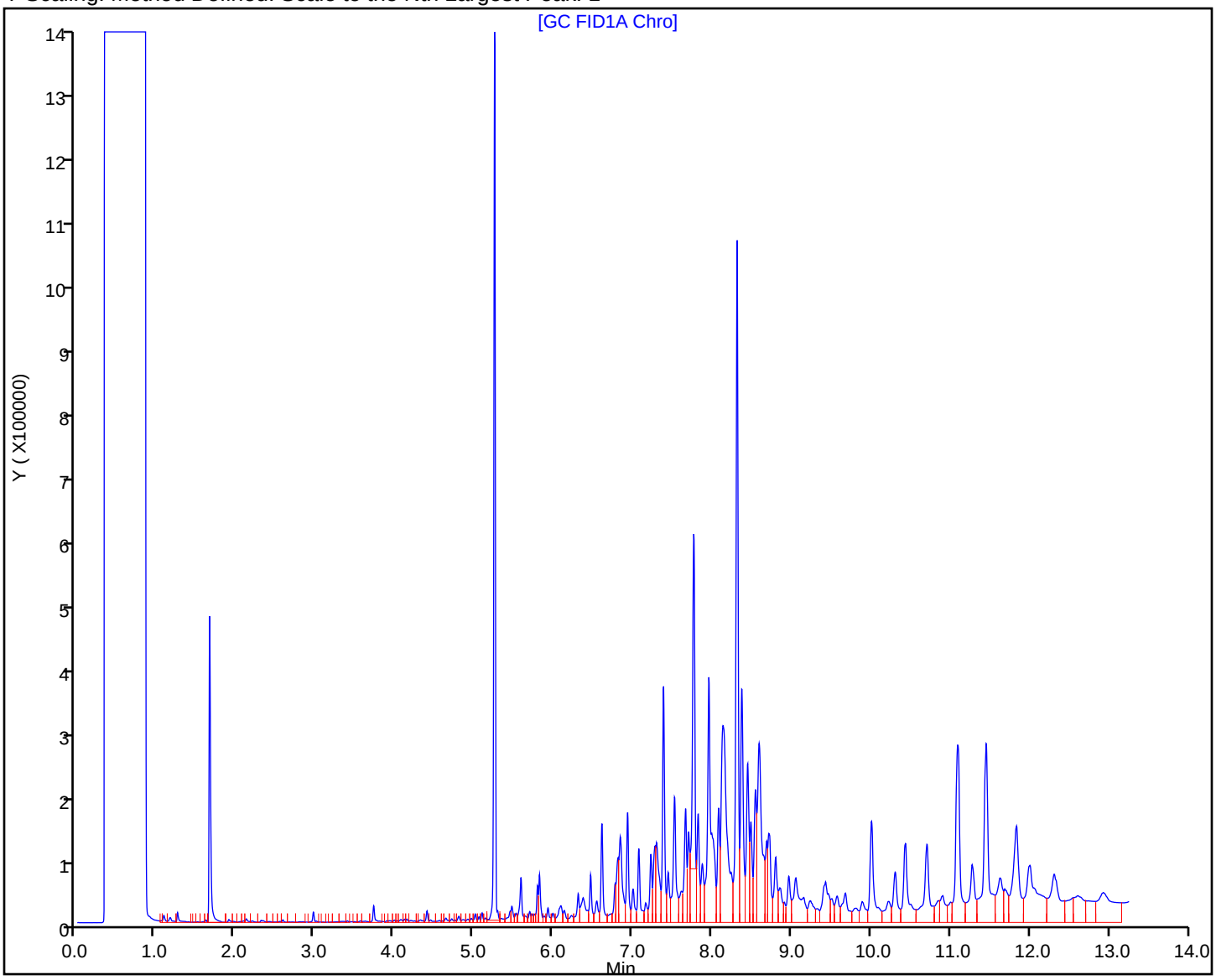
Report Date: 23-Oct-2024 14:57:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a110.D

Injection Date:	23-Oct-2024 05:30:38	Instrument ID:	TAC129		
Lims ID:	580-144975-A-7-B	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a110.D
Lims ID: 580-144975-A-7-B
Client ID: RIR24SS224SP904.5
Sample Type: Client
Inject. Date: 23-Oct-2024 05:30:38 ALS Bottle#: 0 Worklist Smp#: 55
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-7-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:33

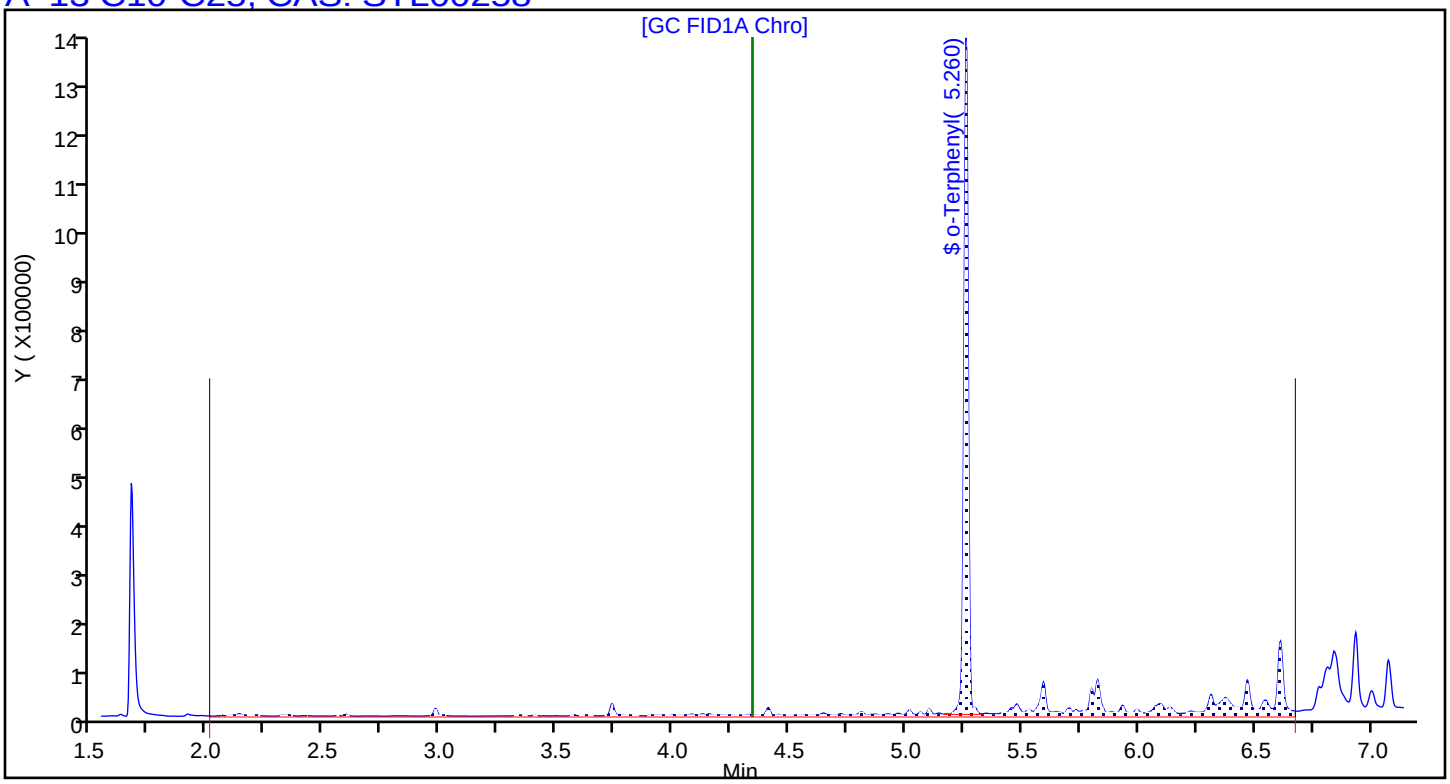
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	10.7	102.45
E 26 n-Triacontane-d62	7.25	6.75	93.14

Report Date: 23-Oct-2024 14:57:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a110.D				
Injection Date:	23-Oct-2024 05:30:38	Instrument ID:	TAC129		
Lims ID:	580-144975-A-7-B	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS225BKG02 | Lab Sample ID: 580-144975-8

Matrix: Solid | Lab File ID: 10222024a079.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.60(g) | Date Analyzed: 10/23/2024 00:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: 36.4 % Solids: 63.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	340		30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		50-150
93952-07-9	n-Triacontane-d62	60	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D				
Lims ID:	580-144975-A-8-A				
Client ID:	RIR24SS225BKG02				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 00:31:28	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-8-A				
Operator ID:	SW	Instrument ID:	TAC129_R		
Method:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 16:55:18	Calib Date:	20-Sep-2024 17:59:07		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				
First Level Reviewer: S6XW		Date:	23-Oct-2024 16:53:27		

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		35771652	227.8	
$	19 o-Terphenyl	5.397	5.400	-0.003	1488613	9.60	
E	28 n-Triacontane-d62	7.950	7.950	0.000	636038	4.34	a

QC Flag Legend

Processing Flags

Review Flags

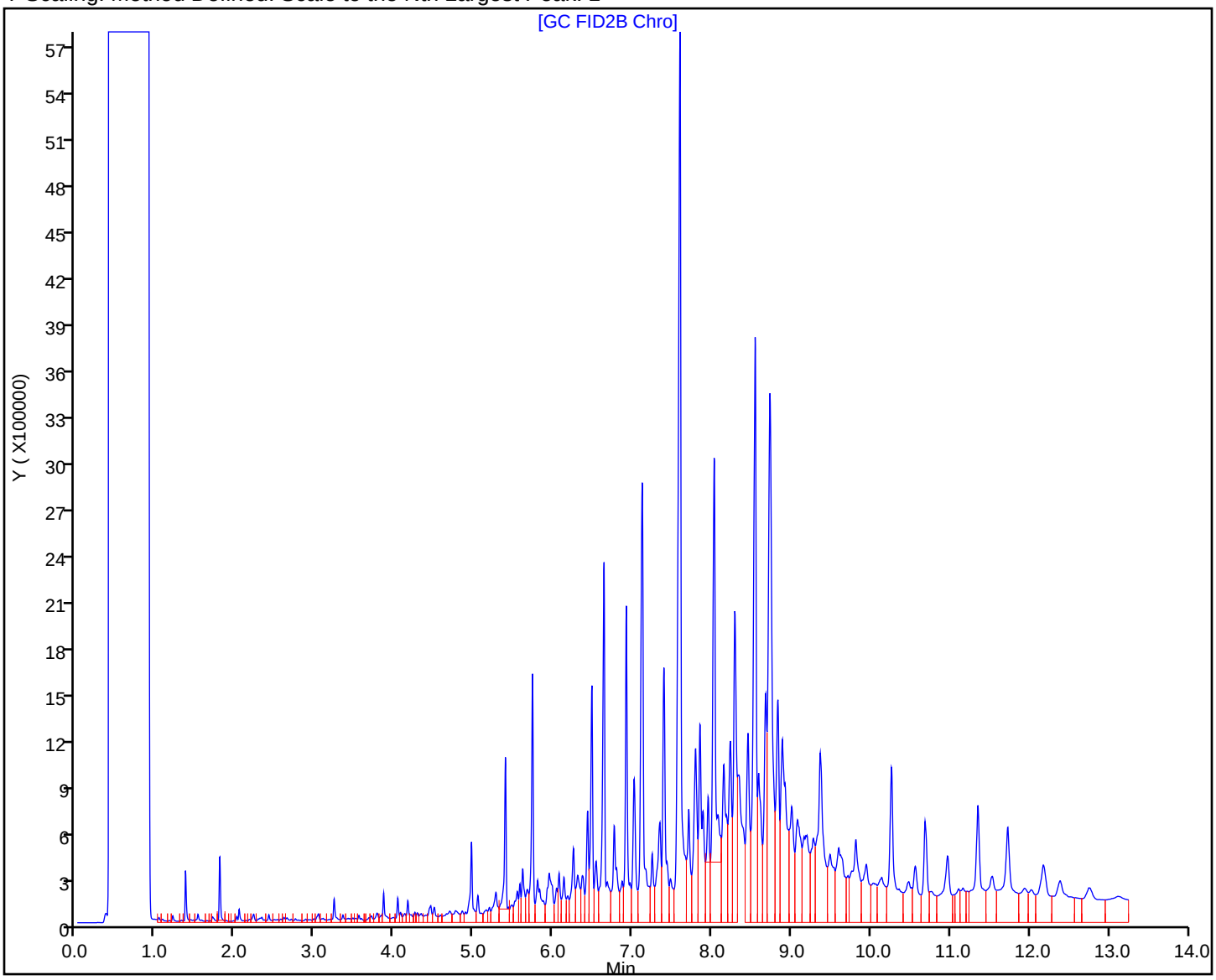
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D				
Injection Date:	23-Oct-2024 00:31:28	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-8-A	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D
Lims ID: 580-144975-A-8-A
Client ID: RIR24SS225BKG02
Sample Type: Client
Inject. Date: 23-Oct-2024 00:31:28 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-8-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:27

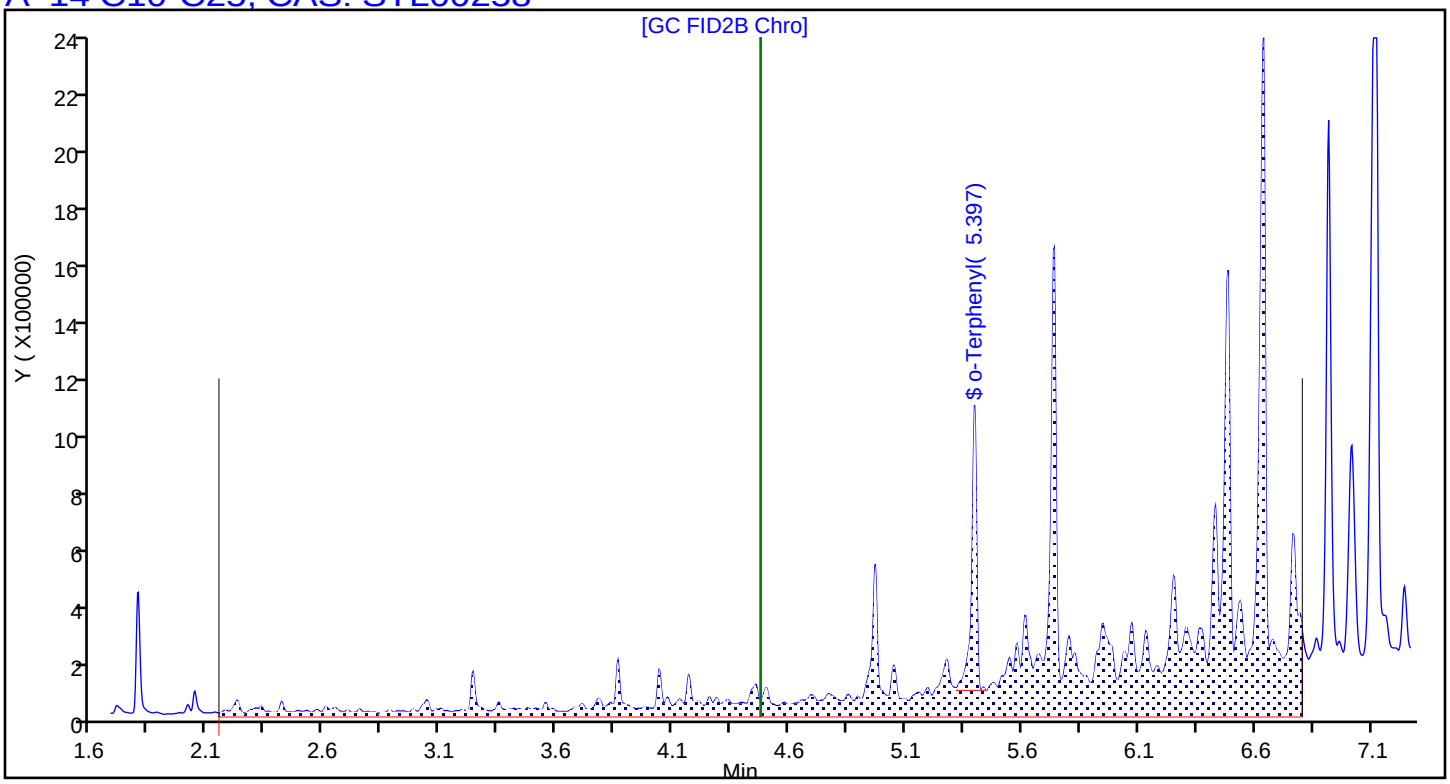
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	9.60	92.28
E 28 n-Triacontane-d62	7.25	4.34	59.90

Report Date: 23-Oct-2024 16:55:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D				
Injection Date:	23-Oct-2024 00:31:28	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-8-A	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

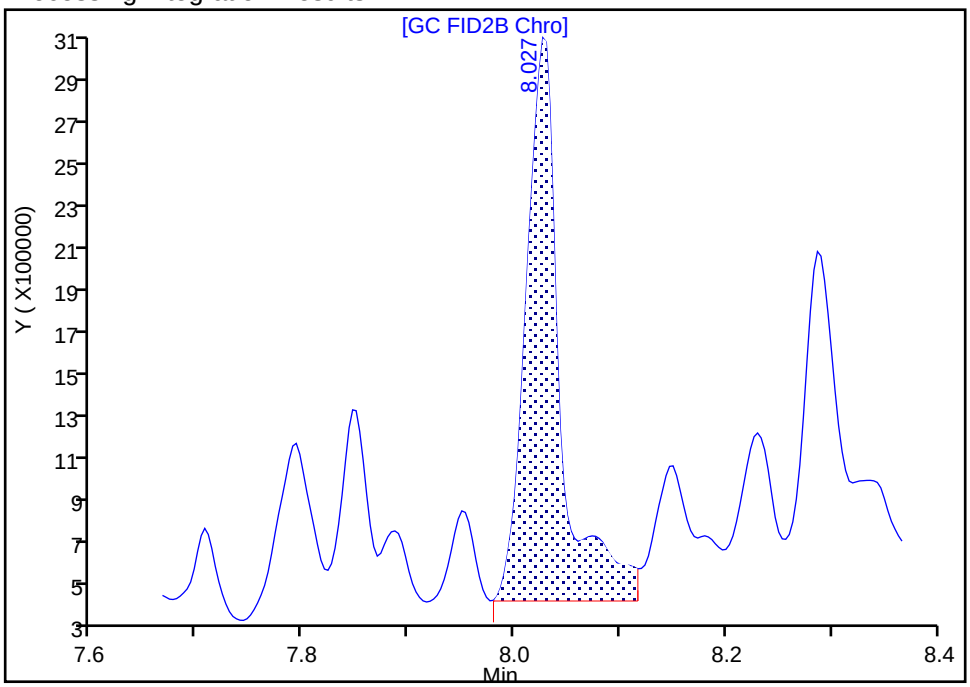
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D				
Injection Date:	23-Oct-2024 00:31:28	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-8-A	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

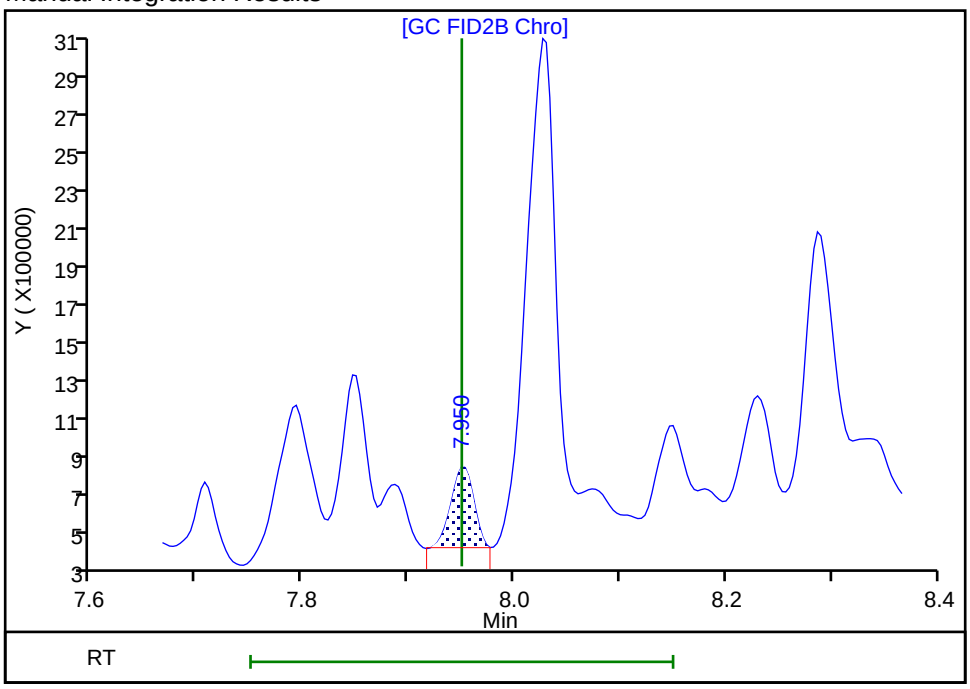
Processing Integration Results

RT: 8.03
Area: 5840464
Amount: 39.875429
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 636038
Amount: 4.342513
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:53:25 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS225BKG02 | Lab Sample ID: 580-144975-8

Matrix: Solid | Lab File ID: 10222024a112.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:00

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.60(g) | Date Analyzed: 10/23/2024 05:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 36.4 % Solids: 63.6 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	44		30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		50-150
93952-07-9	n-Triacontane-d62	86		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a112.D				
Lims ID:	580-144975-A-8-B				
Client ID:	RIR24SS225BKG02				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 05:50:53	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-8-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				

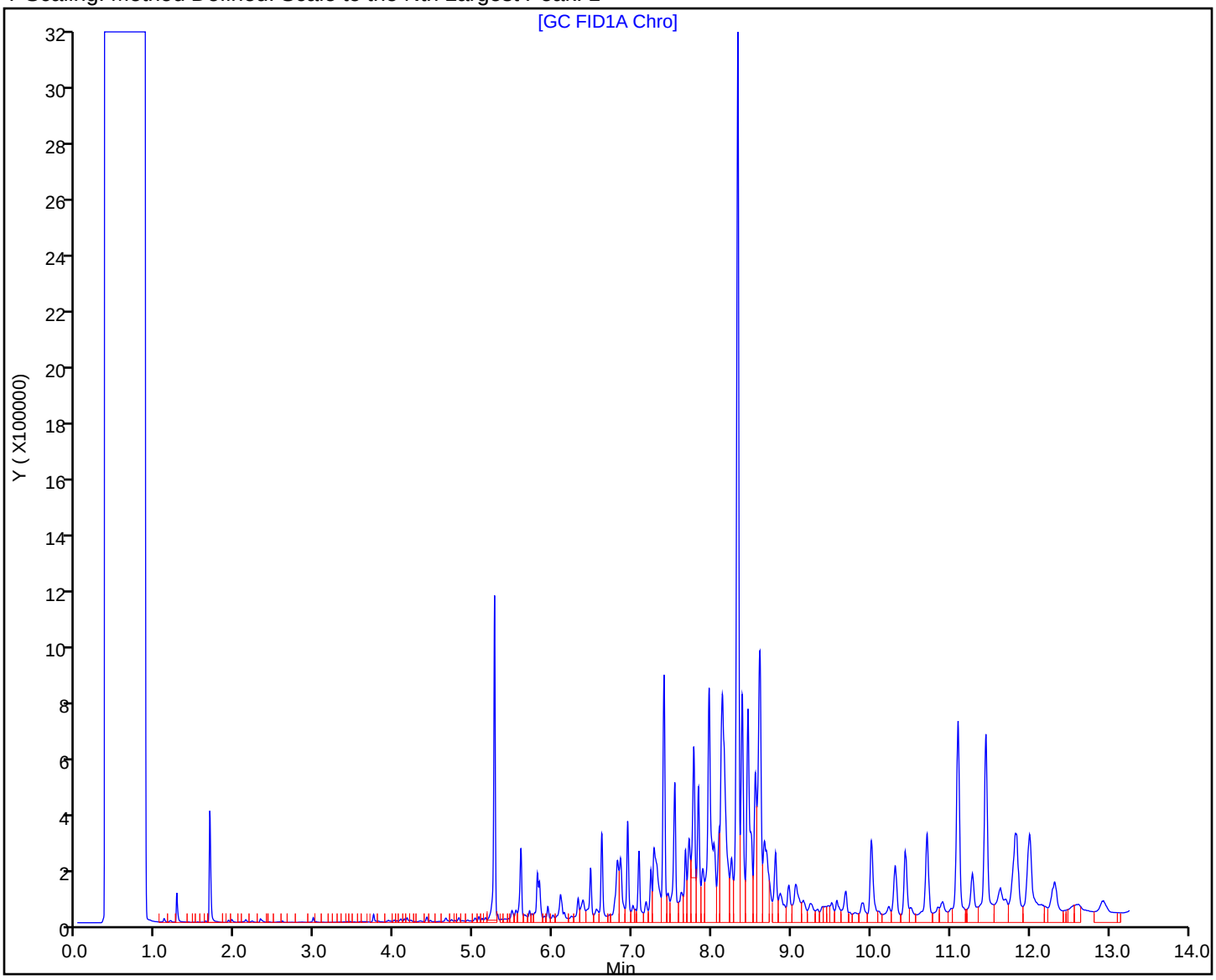
	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	13 C10-C25	4.342	(2.007-6.677)		4976122	29.8	
$	17 o-Terphenyl	5.260	5.263	-0.003	1541740	9.58	
E	26 n-Triacontane-d62	7.770	7.777	-0.007	846205	6.23	

Report Date: 23-Oct-2024 14:57:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a112.D				
Injection Date:	23-Oct-2024 05:50:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-8-B	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a112.D
Lims ID: 580-144975-A-8-B
Client ID: RIR24SS225BKG02
Sample Type: Client
Inject. Date: 23-Oct-2024 05:50:53 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-8-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

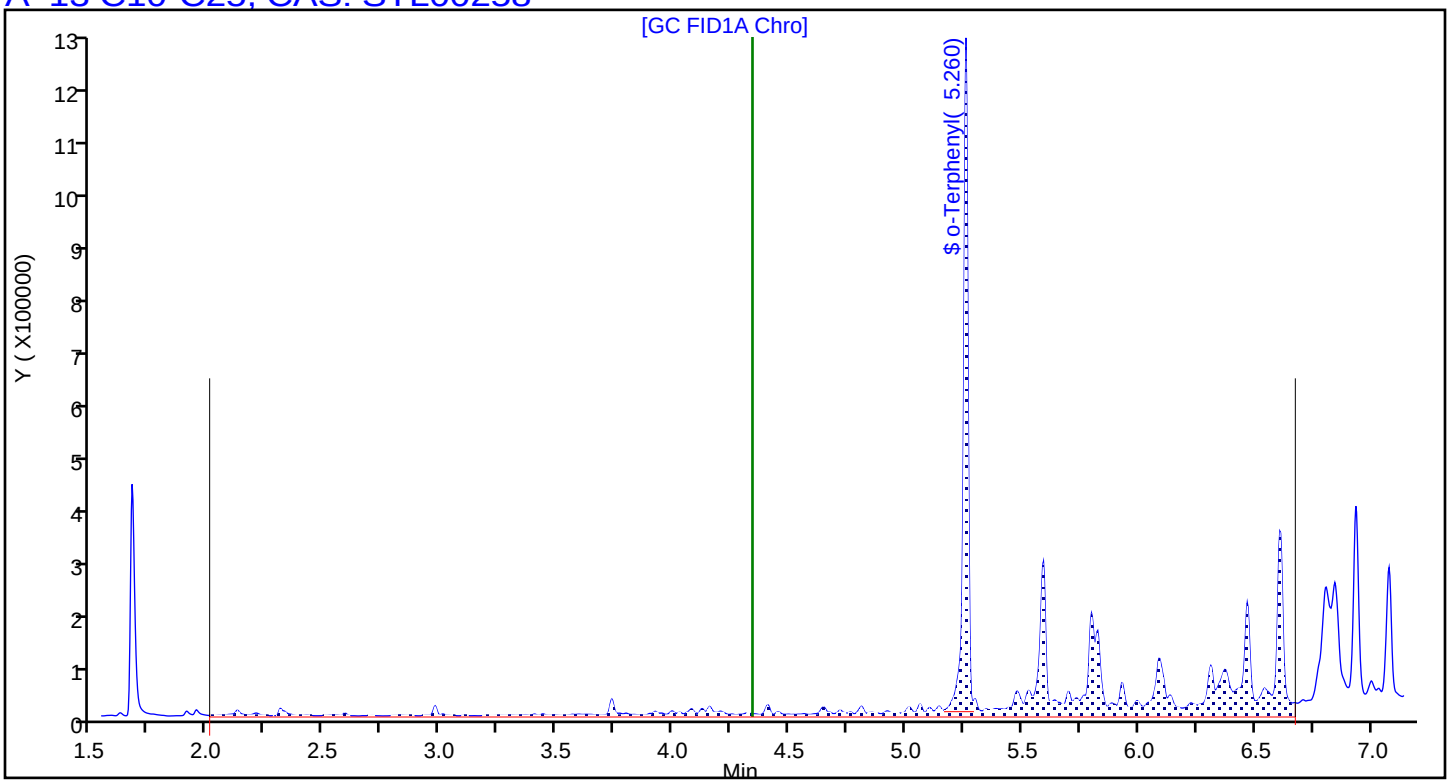
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.58	92.07
E 26 n-Triacontane-d62	7.25	6.23	85.86

Report Date: 23-Oct-2024 14:57:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a112.D				
Injection Date:	23-Oct-2024 05:50:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-8-B	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS226BKG04.5 | Lab Sample ID: 580-144975-9

Matrix: Solid | Lab File ID: 10222024a081.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:02

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.13(g) | Date Analyzed: 10/23/2024 00:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 33.8 % Solids: 66.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	250		30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		50-150
93952-07-9	n-Triacontane-d62	65	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D
Lims ID: 580-144975-A-9-A
Client ID: RIR24SS226BKG04.5
Sample Type: Client
Inject. Date: 23-Oct-2024 00:51:24 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-9-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:36

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 14 C10-C25	4.477	(2.147-6.807)		26736446	169.7	
$ 19 o-Terphenyl	5.397	5.400	-0.003	1499236	9.67	
E 28 n-Triacontane-d62	7.947	7.950	-0.003	688870	4.70	a

QC Flag Legend

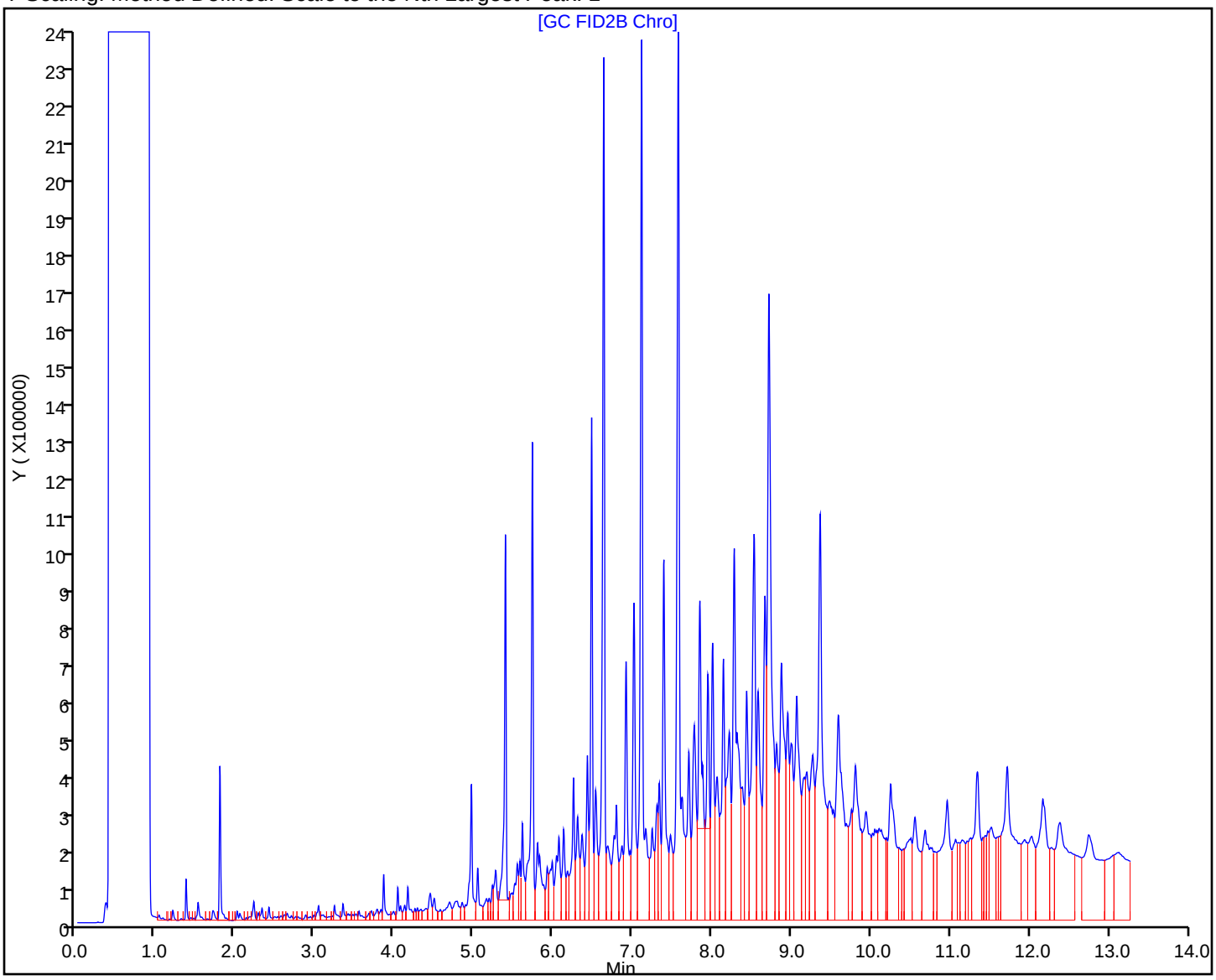
Processing Flags
Review Flags
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D				
Injection Date:	23-Oct-2024 00:51:24	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-9-A	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D
Lims ID: 580-144975-A-9-A
Client ID: RIR24SS226BKG04.5
Sample Type: Client
Inject. Date: 23-Oct-2024 00:51:24 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-9-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:36

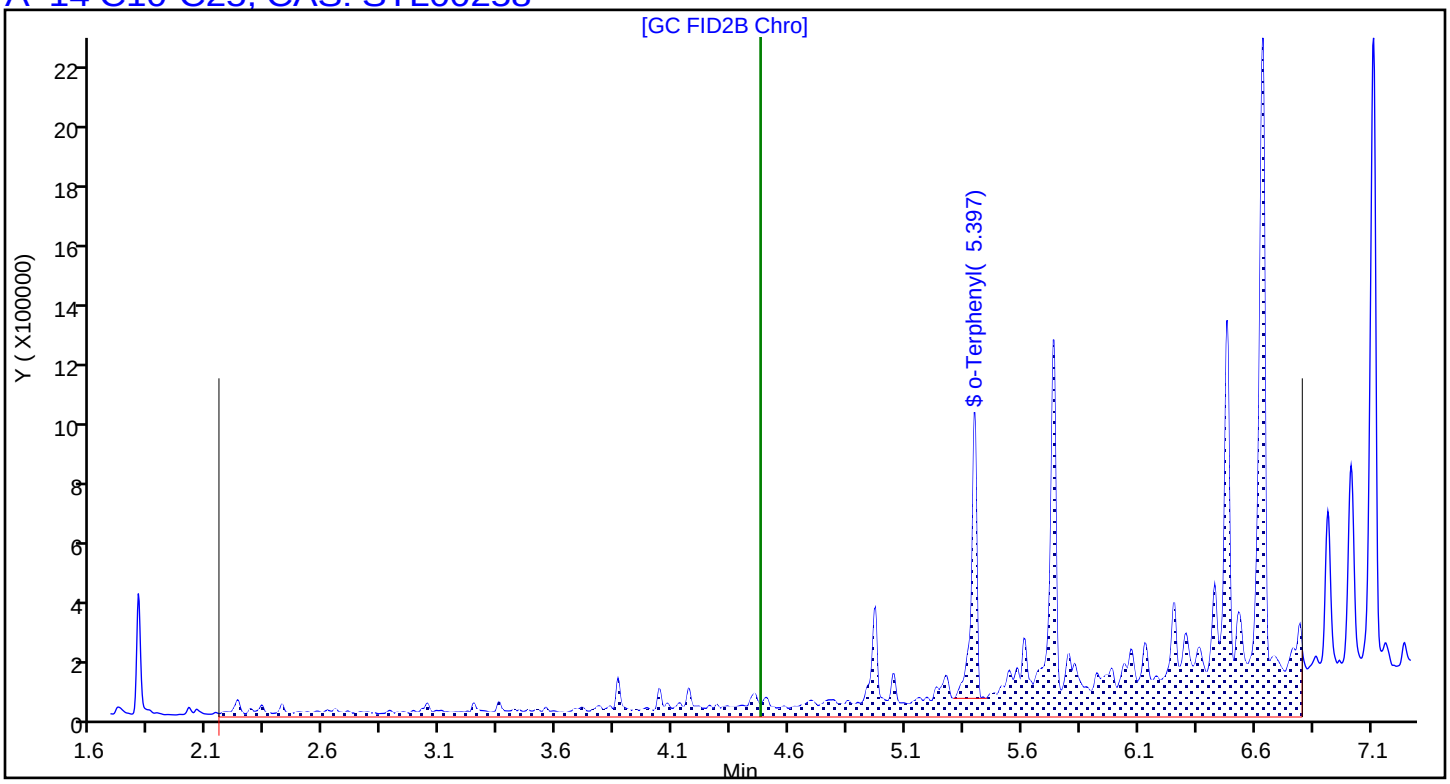
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	9.67	92.94
E 28 n-Triacontane-d62	7.25	4.70	64.87

Report Date: 23-Oct-2024 16:55:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D				
Injection Date:	23-Oct-2024 00:51:24	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-9-A	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

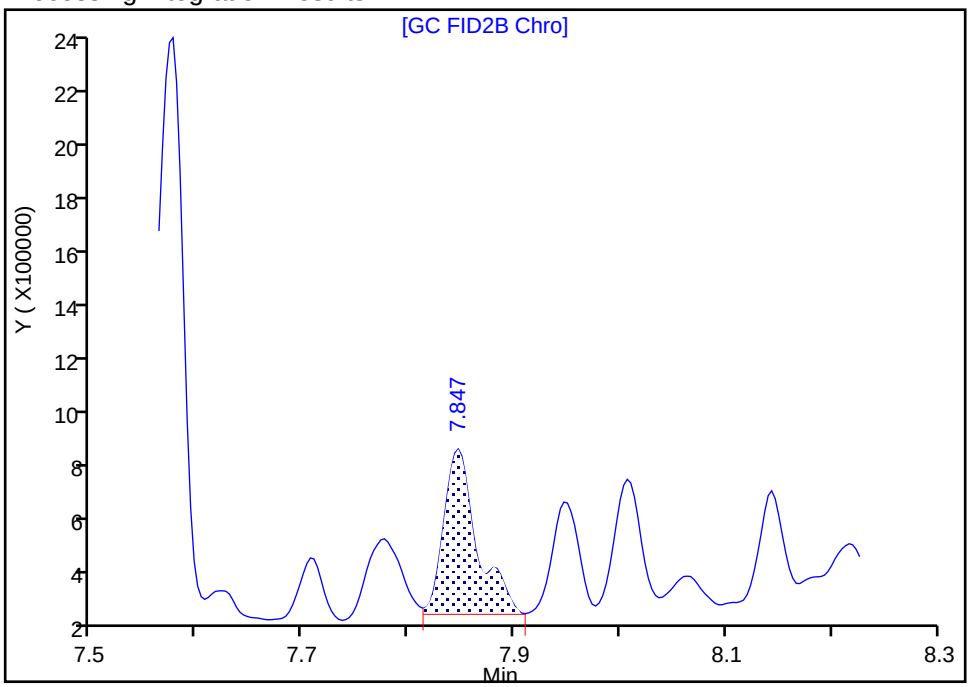
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D				
Injection Date:	23-Oct-2024 00:51:24	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-9-A	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

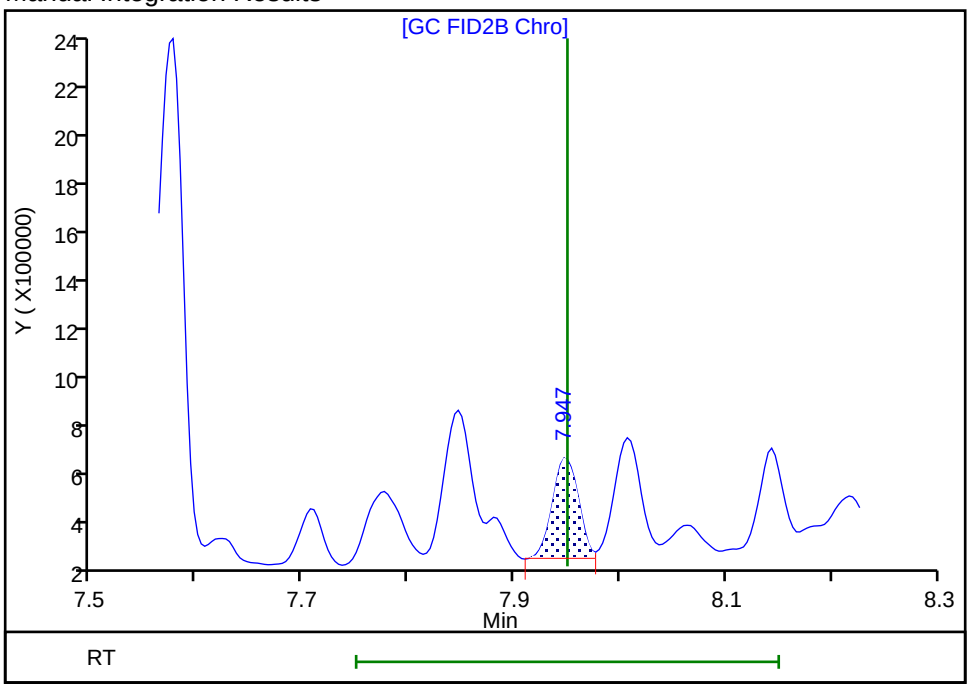
Processing Integration Results

RT: 7.85
Area: 1265776
Amount: 8.642012
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 688870
Amount: 4.703220
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:53:34 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS226BKG04.5 | Lab Sample ID: 580-144975-9

Matrix: Solid | Lab File ID: 10222024a114.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:02

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.13(g) | Date Analyzed: 10/23/2024 06:10

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 33.8 % Solids: 66.2 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	23	J	30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150
93952-07-9	n-Triacontane-d62	99		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a114.D				
Lims ID:	580-144975-A-9-B				
Client ID:	RIR24SS226BKG04.5				
Sample Type:	Client				
Inject. Date:	23-Oct-2024 06:10:51	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	580-144975-A-9-B				
Operator ID:	SW	Instrument ID:	TAC129		
Method:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m				
Limit Group:	Ak 102 DRO AK103 RRO				
Last Update:	23-Oct-2024 14:57:13	Calib Date:	23-Sep-2024 13:06:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Column 1 :			Det: GC FID1A		
Process Host:	CTX1611				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		2687624	15.6	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1618598	10.1	
E 26 n-Triacontane-d62	7.770	7.777	-0.007	977277	7.19	

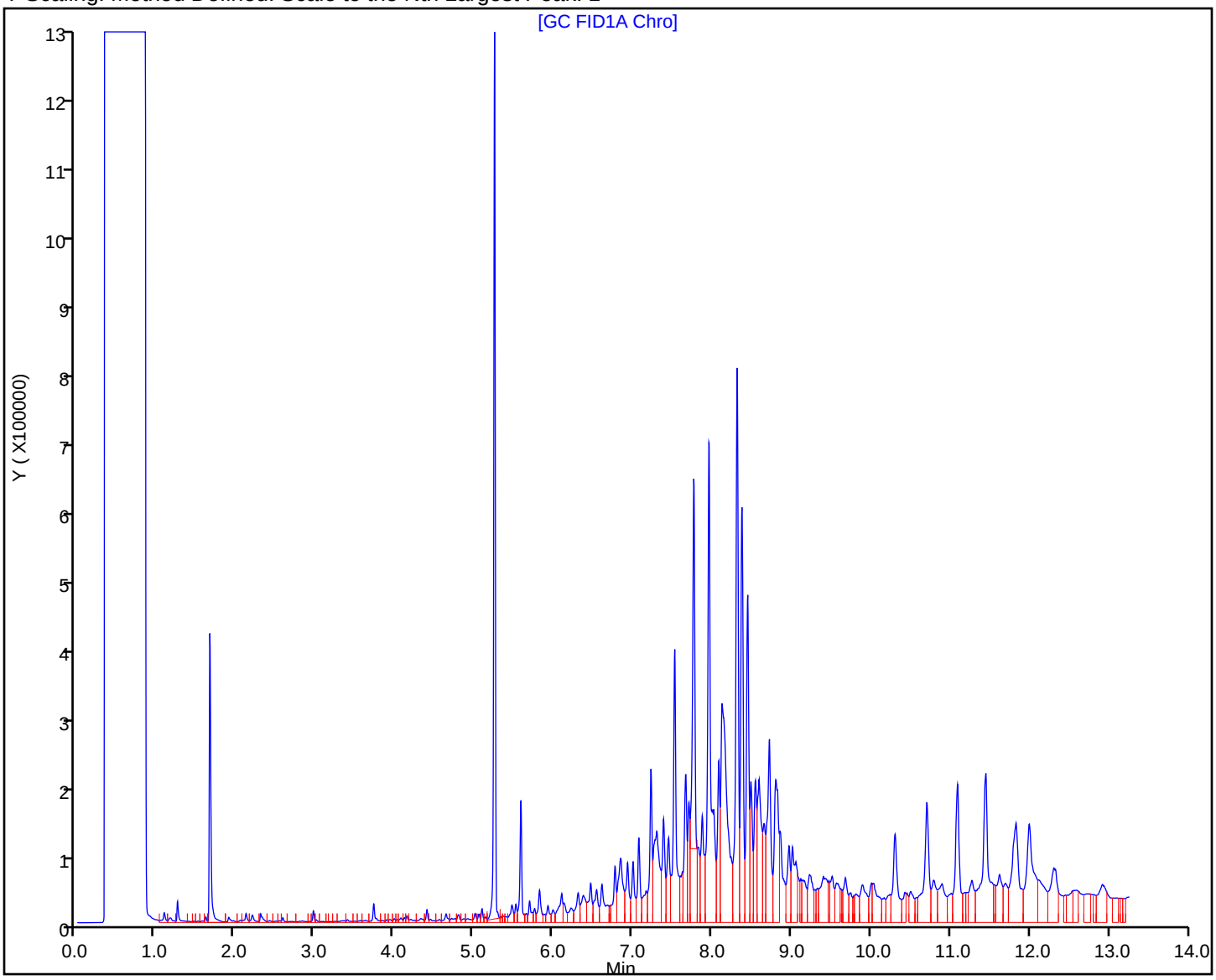
Report Date: 23-Oct-2024 14:57:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a114.D

Injection Date:	23-Oct-2024 06:10:51	Instrument ID:	TAC129		
Lims ID:	580-144975-A-9-B	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a114.D
Lims ID: 580-144975-A-9-B
Client ID: RIR24SS226BKG04.5
Sample Type: Client
Inject. Date: 23-Oct-2024 06:10:51 ALS Bottle#: 0 Worklist Smp#: 57
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-9-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

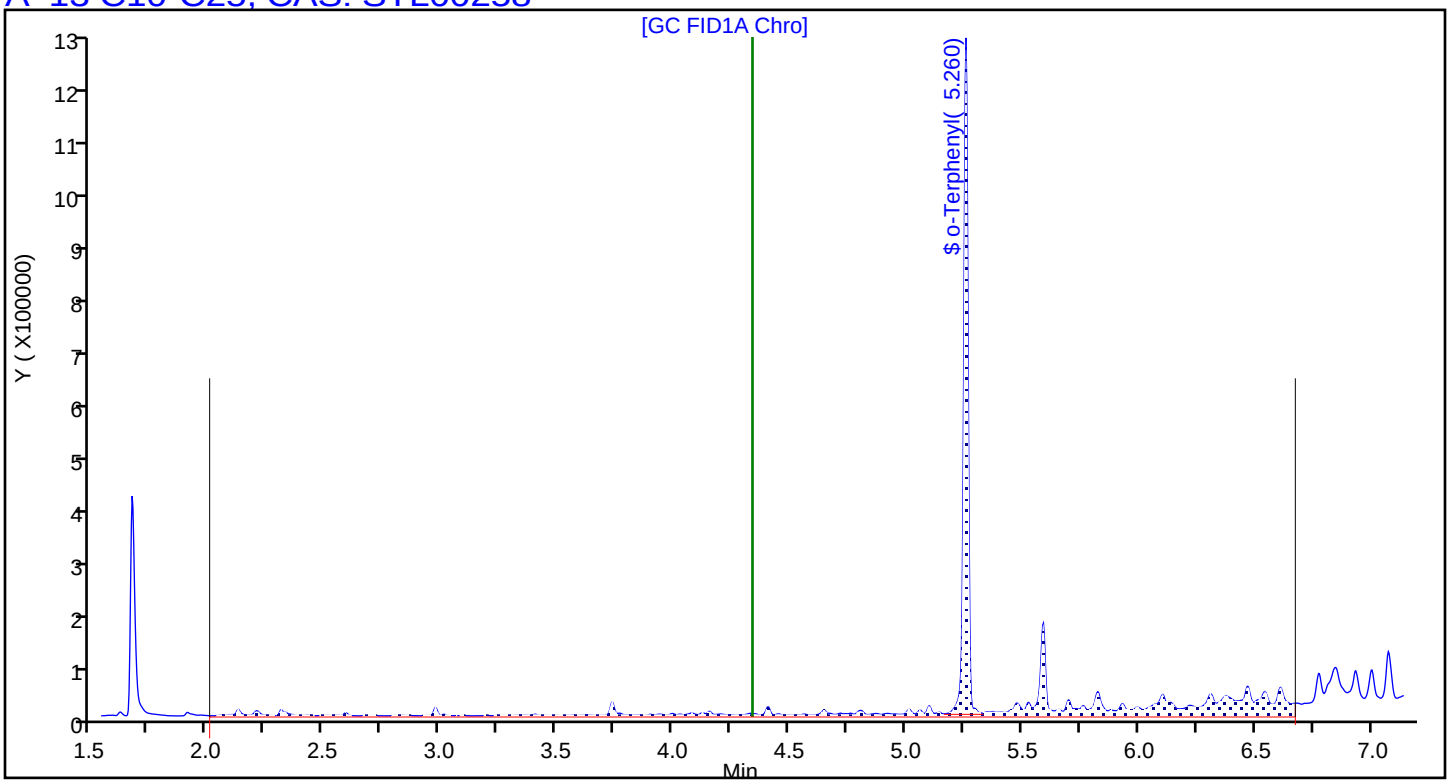
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	10.1	96.66
E 26 n-Triacontane-d62	7.25	7.19	99.16

Report Date: 23-Oct-2024 14:57:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a114.D				
Injection Date:	23-Oct-2024 06:10:51	Instrument ID:	TAC129		
Lims ID:	580-144975-A-9-B	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 | Lab Sample ID: 580-144975-10

Matrix: Solid | Lab File ID: 10222024a057.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.01(g) | Date Analyzed: 10/22/2024 20:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	150		32	24	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		50-150
93952-07-9	n-Triacontane-d62	67	M	50-150

Report Date: 23-Oct-2024 16:55:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a057.D
Lims ID: 580-144975-A-10-A
Client ID: RIR24SS227BKG01.5
Sample Type: Client
Inject. Date: 22-Oct-2024 20:51:25 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:00

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
	1 n-Octane	1.030	1.063	-0.033	26762	NC	
	2 n-Nonane	1.707	1.703	0.004	38027	NC	
	3 4-Bromofluorobenzene (Surr)	1.797	1.800	-0.003	567937	NC	
A	5 Jet fuel	2.772	(0.980-4.563)		3371869	NC	
A	8 C8-C20	3.373	(0.980-5.767)		7843298	NC	
	9 C13	3.470	3.493	-0.023	20141	NC	
	10 n-Tetradecane	3.860	3.860	0.000	169585	NC	
$	7 n-Decanoic Acid (Surr)	4.040	4.037	0.003	66039	NC	
	11 C15	4.163	4.207	-0.044	145615	NC	
A	12 C9-C25	4.298	(1.673-6.923)		16691024	NC	
A	13 C10-C24	4.433	(2.147-6.720)		14721730	NC	
A	14 C10-C25	4.477	(2.147-6.807)		15372818	96.7	
	15 Hexadecane	4.493	4.533	-0.040	96224	NC	
A	16 C12-C24	4.863	(3.007-6.720)		14114756	NC	
A	17 C10-C28	4.892	(2.147-7.637)		27282619	NC	
	18 n-Octadecane	5.153	5.143	0.010	123174	NC	
$	19 o-Terphenyl	5.397	5.397	0.000	1568083	10.1	
	20 C19	5.507	5.427	0.080	253907	NC	
	21 icosane	5.673	5.700	-0.027	182780	NC	
A	22 Mineral oil	6.002	(3.007-8.997)		49019053	NC	
	24 C25	6.917	6.923	-0.006	1110162	NC	
	25 n-Hexacosane	7.157	7.157	0.000	471502	NC	
	26 n-Octacosane	7.623	7.607	0.016	433451	NC	
A	27 C24-C32	7.642	(6.720-8.563)		27308827	NC	
E	28 n-Triacontane-d62	7.947	7.947	0.000	713564	4.87	a
A	30 C24-C36	8.068	(6.720-9.417)		40839899	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		40839899	NC	
E	31 C25-C36	8.112	(6.807-9.417)		40188811	467.0	
	32 Dotriacontane	8.430	8.460	-0.030	1304528	NC	
A	33 C24-C40	8.562	(6.790-10.333)		48045294	NC	
	34 Tetratriacontane	8.863	8.893	-0.030	1653216	NC	
A	35 C28-C40	8.953	(7.637-10.270)		35608630	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
37 C38	9.757	9.760	-0.003	649985	NC	
38 C40	10.127	10.183	-0.056	581958	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

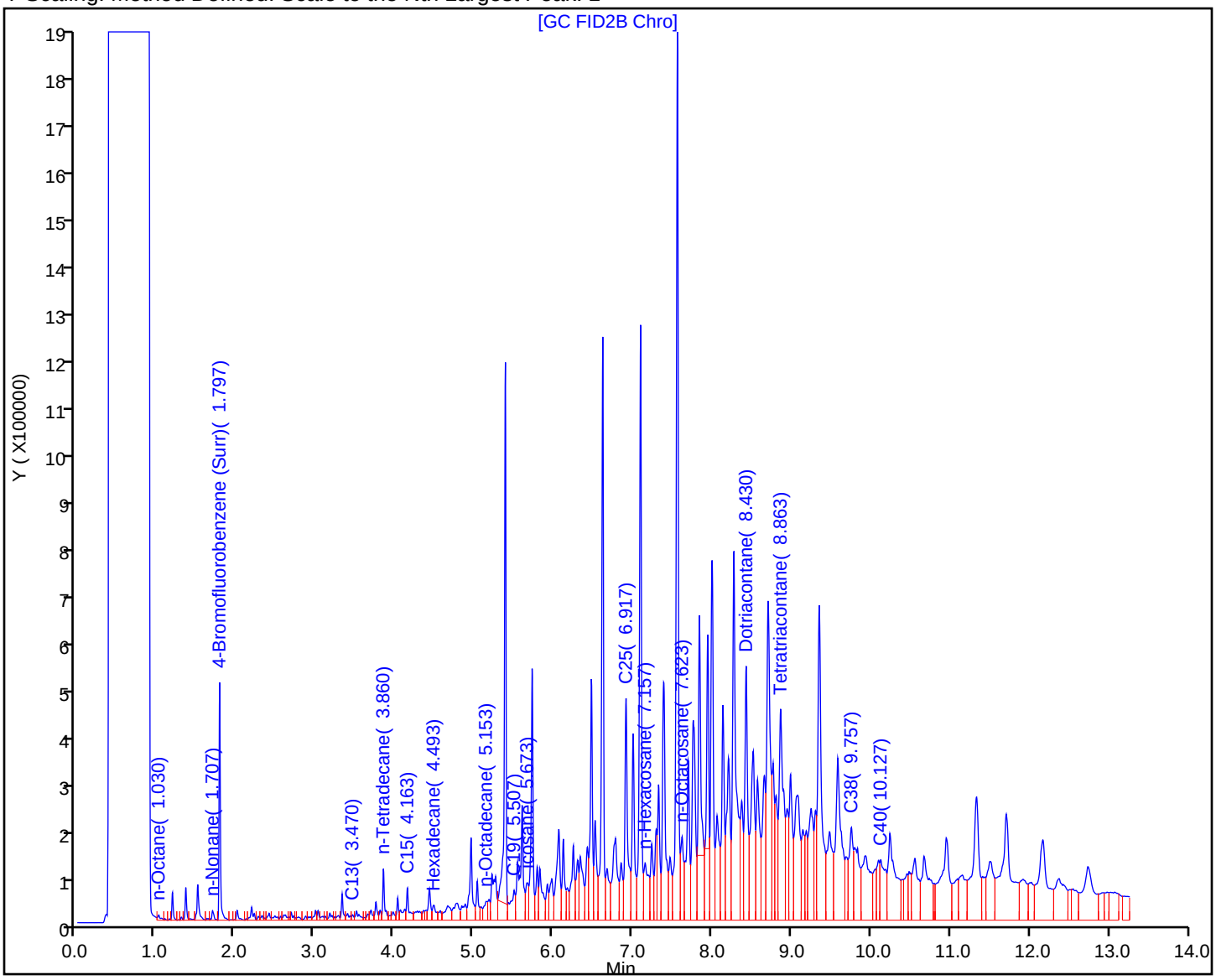
Report Date: 23-Oct-2024 16:55:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a057.D

Injection Date:	22-Oct-2024 20:51:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-A	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a057.D
Lims ID: 580-144975-A-10-A
Client ID: RIR24SS227BKG01.5
Sample Type: Client
Inject. Date: 22-Oct-2024 20:51:25 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:00

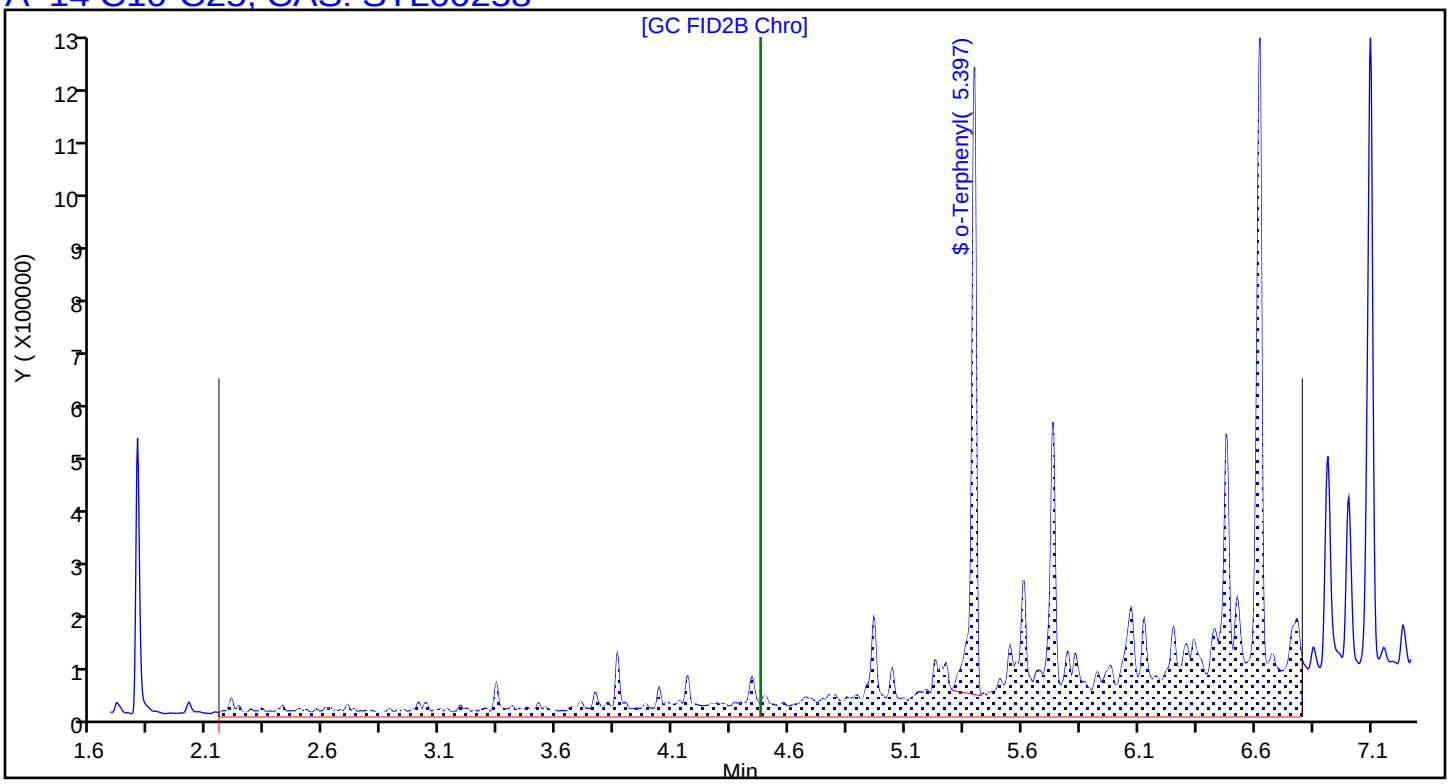
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	10.1	97.20
E 28 n-Triacontane-d62	7.25	4.87	67.20

Report Date: 23-Oct-2024 16:55:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a057.D				
Injection Date:	22-Oct-2024 20:51:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-A	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

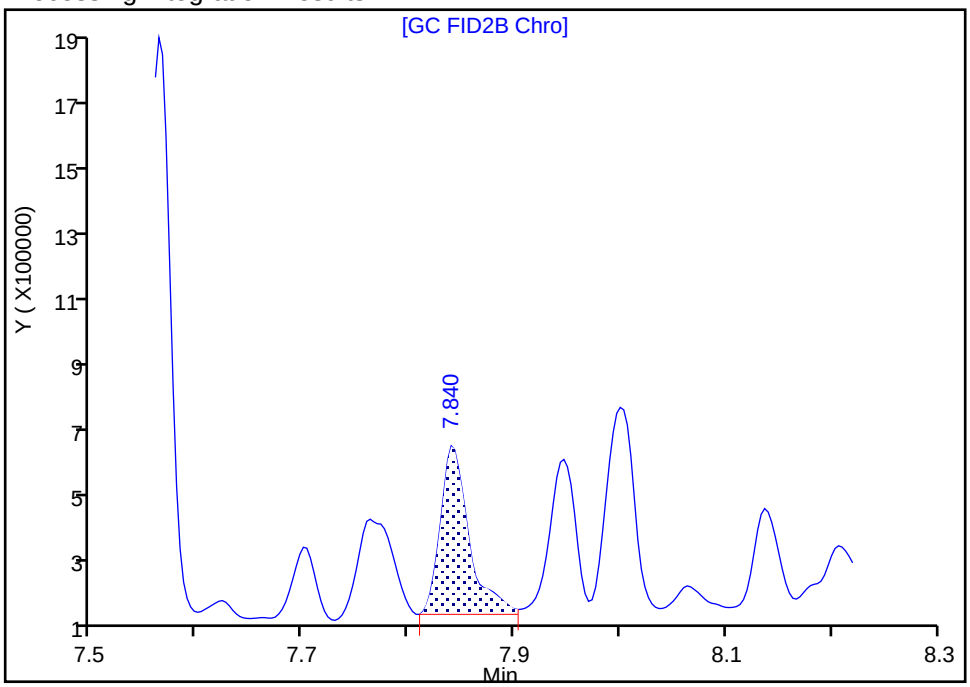
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a057.D				
Injection Date:	22-Oct-2024 20:51:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-A	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

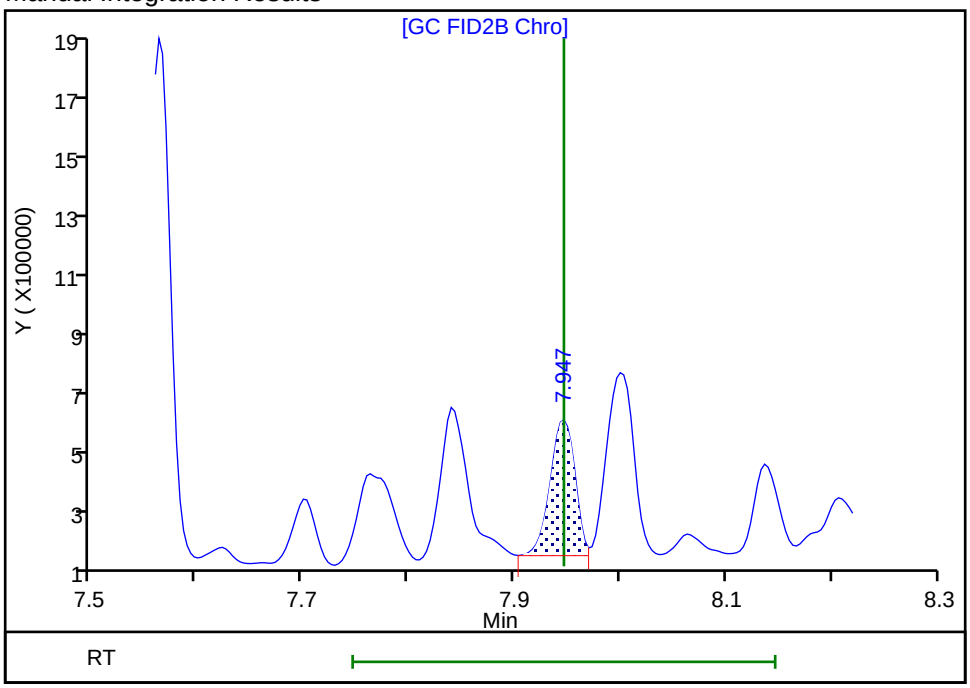
Processing Integration Results

RT: 7.84
Area: 924393
Amount: 6.311240
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 713564
Amount: 4.871817
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:50:36 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 | Lab Sample ID: 580-144975-10

Matrix: Solid | Lab File ID: 10222024a090.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.01(g) | Date Analyzed: 10/23/2024 02:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	16	J	32	24	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		50-150
93952-07-9	n-Triacontane-d62	92		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a090.D
Lims ID: 580-144975-A-10-D
Client ID: RIR24SS227BKG01.5
Sample Type: Client
Inject. Date: 23-Oct-2024 02:11:02 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-D
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:23

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
	1 n-Octane	1.093	1.053	0.040	37097	NC	
	2 n-Nonane	1.560	1.563	-0.003	5165	NC	
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	617211	NC	
A	5 Jet fuel	2.693	(0.943-4.443)		616819	NC	
A	7 C8-C20	3.292	(0.943-5.640)		1075824	NC	
	6 C13	3.373	3.373	0.000	4433	NC	
	8 n-Tetradecane	3.740	3.740	0.000	37595	NC	
	9 C15	4.080	4.087	-0.007	7902	NC	
A	10 C9-C25	4.160	(1.533-6.787)		2000607	NC	
A	12 C10-C24	4.297	(2.007-6.587)		1645774	NC	
A	13 C10-C25	4.342	(2.007-6.677)		1802066	10.2	
	11 Hexadecane	4.410	4.413	-0.003	22377	NC	
A	14 C12-C24	4.742	(2.897-6.587)		1528825	NC	
A	15 C10-C28	4.750	(2.007-7.493)		4269213	NC	
	16 n-Octadecane	5.017	5.023	-0.006	19526	NC	
$	17 o-Terphenyl	5.260	5.263	-0.003	1710559	10.6	
	18 C19	5.350	5.303	0.047	19788	NC	
	19 icosane	5.593	5.573	0.020	78572	NC	
A	20 Mineral oil	5.855	(2.897-8.813)		11439554	NC	
	22 C25	6.800	6.787	0.013	325986	NC	
	23 n-Hexacosane	7.007	7.017	-0.010	77219	NC	
	24 n-Octacosane	7.450	7.463	-0.013	111355	NC	
A	25 C24-C32	7.490	(6.587-8.393)		7854382	NC	
E	26 n-Triacontane-d62	7.770	7.777	-0.007	904495	6.65	
A	27 C24-C36	7.905	(6.587-9.223)		11043511	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		11043511	NC	
E	29 C25-C36	7.950	(6.677-9.223)		10887219	119.1	
	30 Dotriacontane	8.317	8.297	0.020	404909	NC	
A	31 C24-C40	8.392	(6.657-10.127)		12429623	NC	
	32 Tetratriacontane	8.720	8.713	0.007	304332	NC	
A	33 C28-C40	8.778	(7.493-10.063)		9863117	NC	
	35 C38	9.597	9.560	0.037	147277	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
36 C40	10.017	9.977	0.040	283440	NC	

QC Flag Legend

Processing Flags

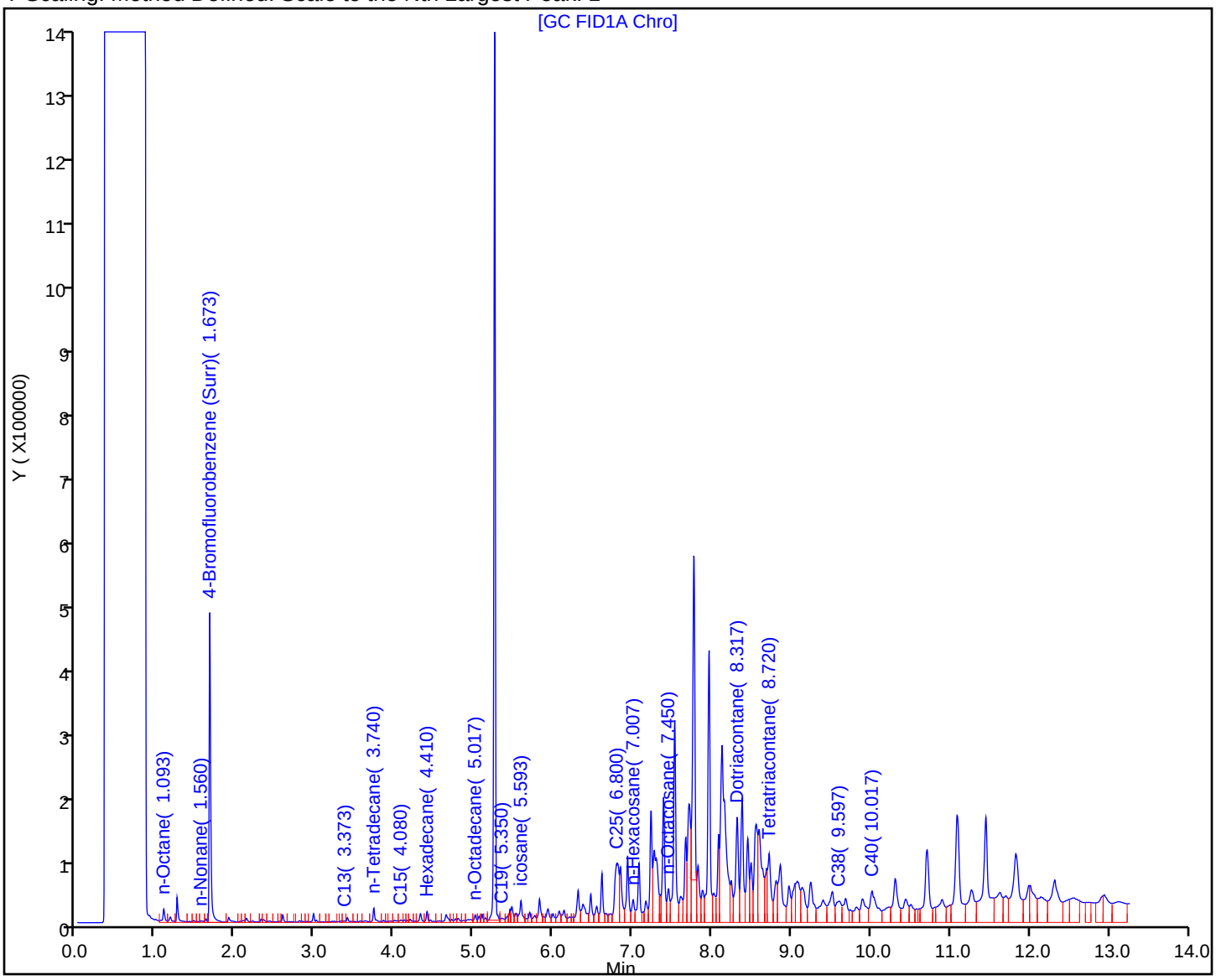
NC - Not Calibrated

Report Date: 23-Oct-2024 14:57:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a090.D				
Injection Date:	23-Oct-2024 02:11:02	Instrument ID:	TAC129		
Lims ID:	580-144975-A-10-D	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a090.D
Lims ID: 580-144975-A-10-D
Client ID: RIR24SS227BKG01.5
Sample Type: Client
Inject. Date: 23-Oct-2024 02:11:02 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-D
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:23

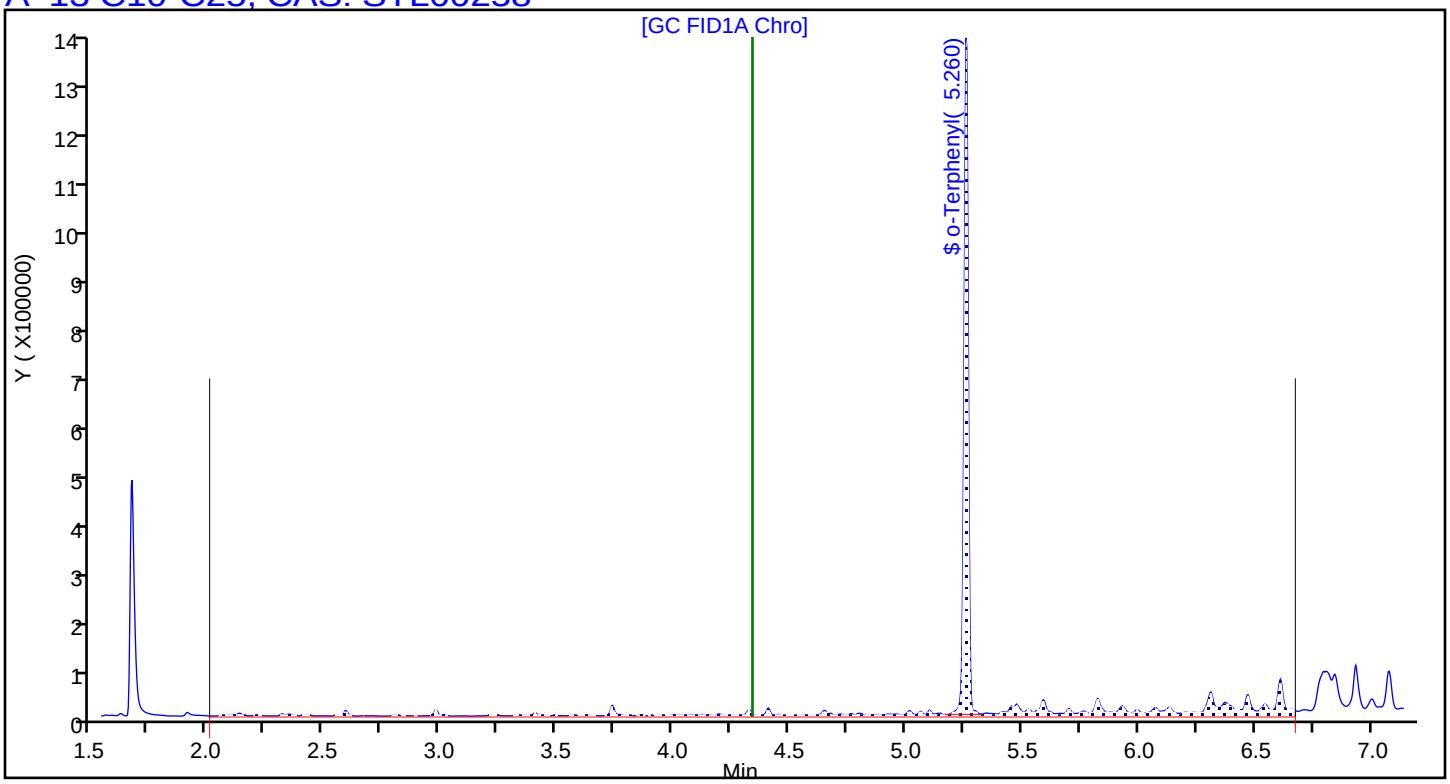
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	10.6	102.16
E 26 n-Triacontane-d62	7.25	6.65	91.78

Report Date: 23-Oct-2024 14:57:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a090.D				
Injection Date:	23-Oct-2024 02:11:02	Instrument ID:	TAC129		
Lims ID:	580-144975-A-10-D	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS228BKG03.5 | Lab Sample ID: 580-144975-11

Matrix: Solid | Lab File ID: 10222024a083.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:32

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.61(g) | Date Analyzed: 10/23/2024 01:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 51.3 % Solids: 48.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	640		39	29	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		50-150
93952-07-9	n-Triacontane-d62	70	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a083.D
Lims ID: 580-144975-A-11-A
Client ID: RIR24SS228BKG03.5
Sample Type: Client
Inject. Date: 23-Oct-2024 01:11:09 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-11-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:45

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A	14 C10-C25	4.477	(2.147-6.807)		51452381	328.7	
$	19 o-Terphenyl	5.400	5.400	0.000	1527191	9.85	
E	28 n-Triacontane-d62	7.950	7.950	0.000	740158	5.05	a

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

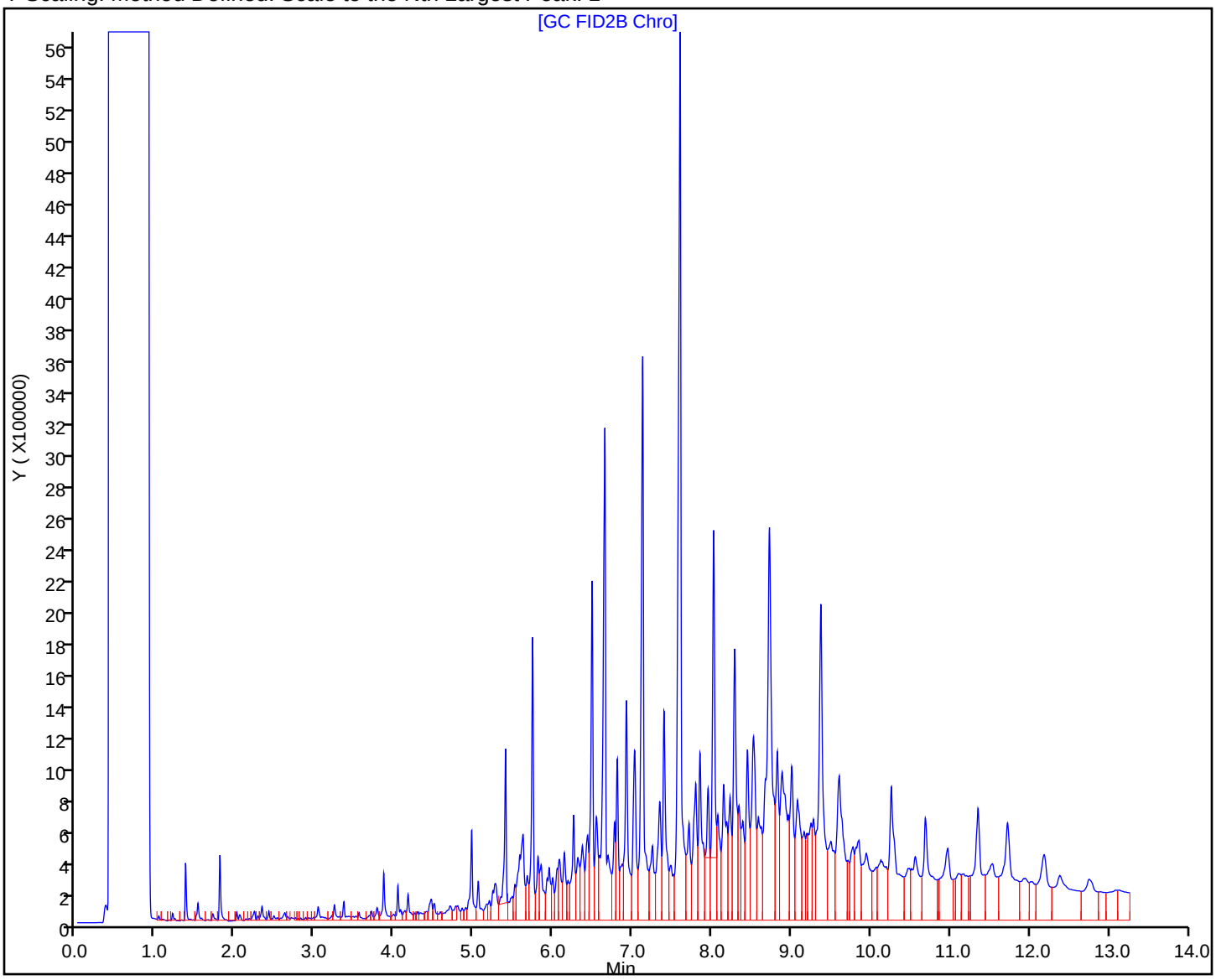
Report Date: 23-Oct-2024 16:55:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a083.D

Injection Date:	23-Oct-2024 01:11:09	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-11-A	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a083.D
Lims ID: 580-144975-A-11-A
Client ID: RIR24SS228BKG03.5
Sample Type: Client
Inject. Date: 23-Oct-2024 01:11:09 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-11-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:53:45

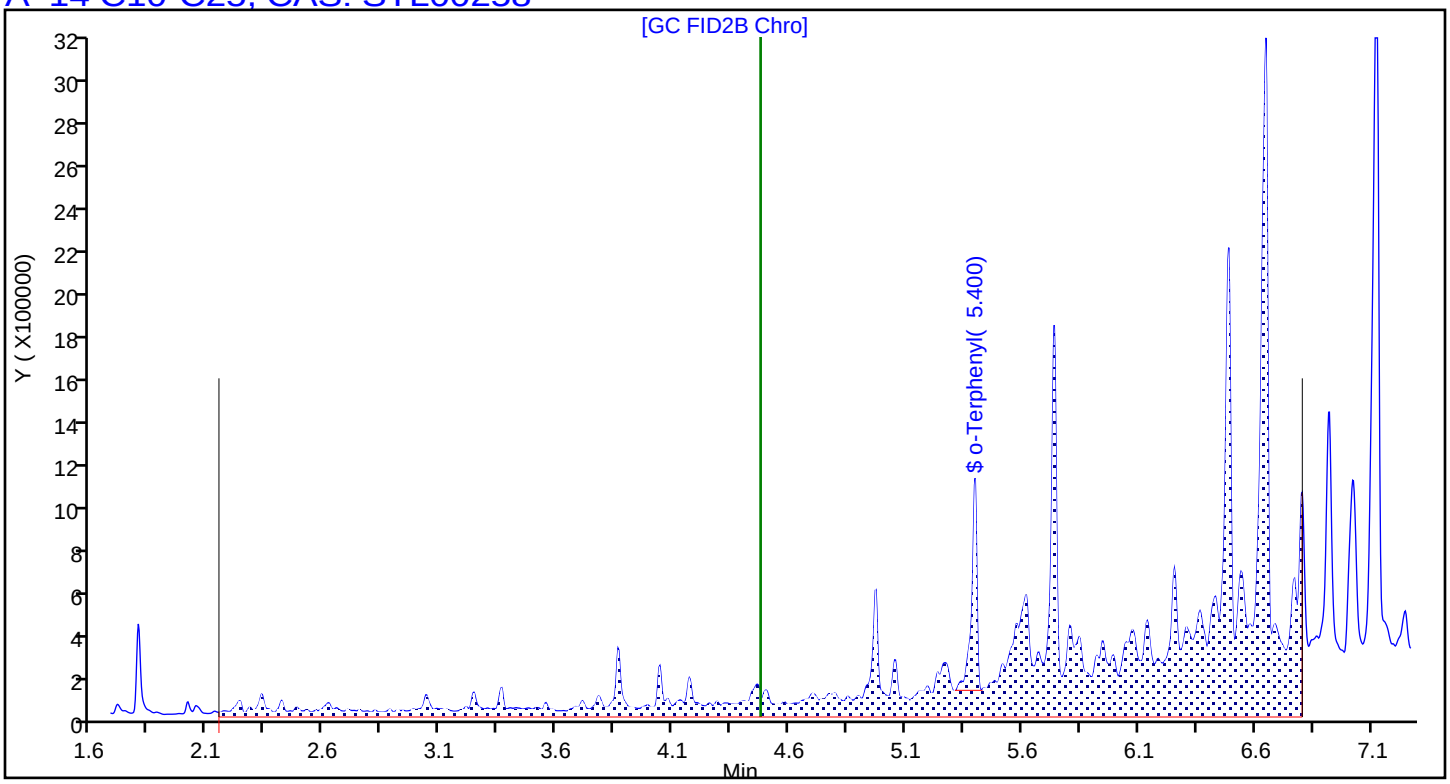
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	9.85	94.67
E 28 n-Triacontane-d62	7.25	5.05	69.70

Report Date: 23-Oct-2024 16:55:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a083.D				
Injection Date:	23-Oct-2024 01:11:09	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-11-A	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

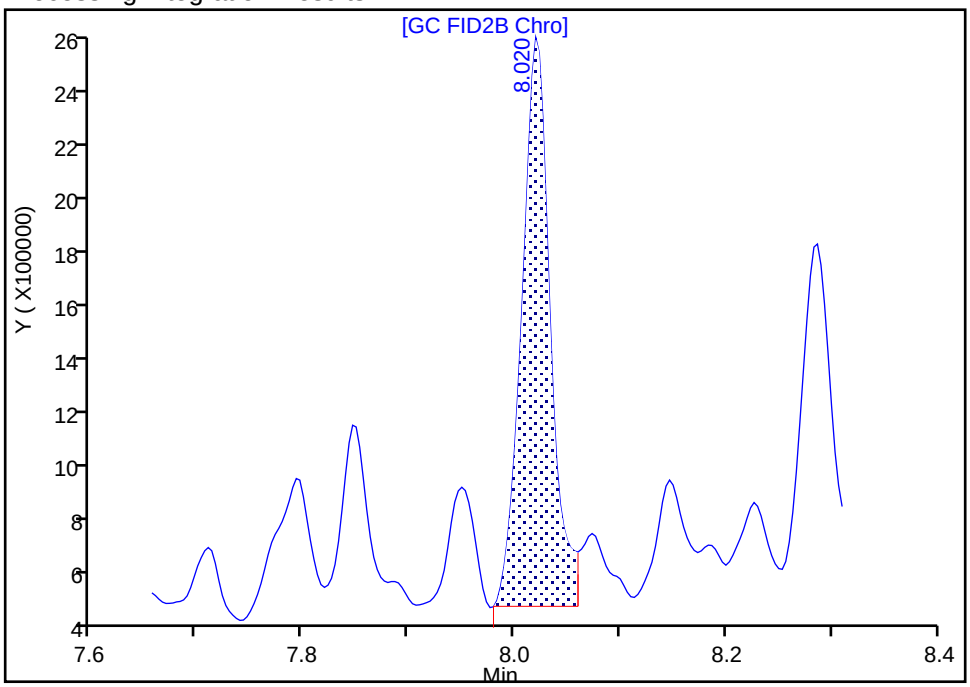
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a083.D				
Injection Date:	23-Oct-2024 01:11:09	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-11-A	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

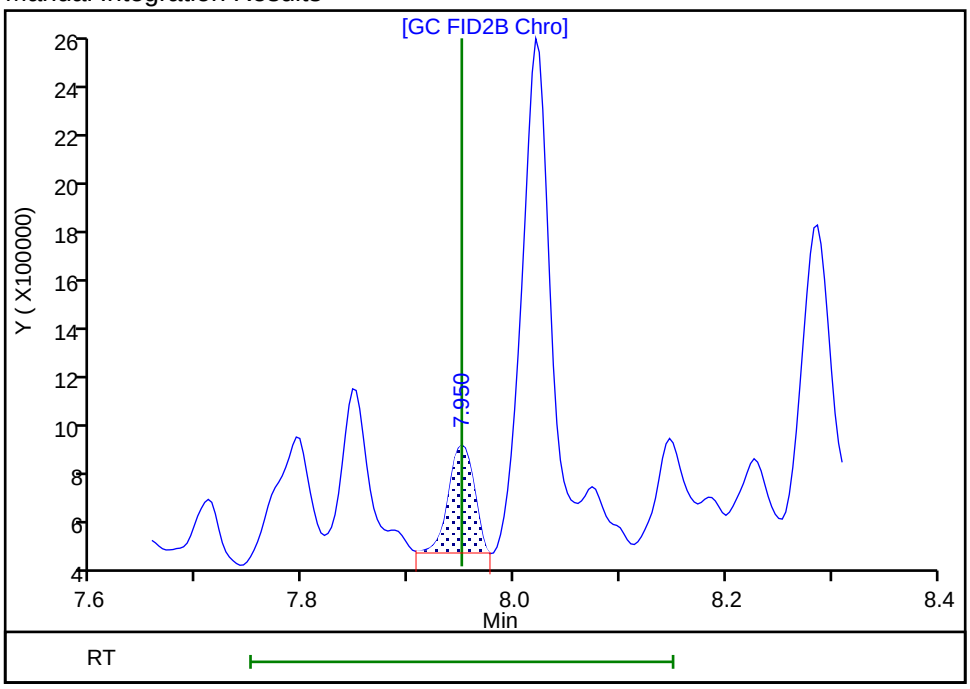
Processing Integration Results

RT: 8.02
Area: 3848539
Amount: 26.275677
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 740158
Amount: 5.053386
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:53:41 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS228BKG03.5 | Lab Sample ID: 580-144975-11

Matrix: Solid | Lab File ID: 10222024a116.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:32

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.61(g) | Date Analyzed: 10/23/2024 06:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 51.3 % Solids: 48.7 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	100		39	29	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		50-150
93952-07-9	n-Triacontane-d62	90		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a116.D
Lims ID: 580-144975-A-11-B
Client ID: RIR24SS228BKG03.5
Sample Type: Client
Inject. Date: 23-Oct-2024 06:30:57 ALS Bottle#: 0 Worklist Smp#: 58
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-11-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 13 C10-C25	4.342	(2.007-6.677)		8797158	53.3	
$ 17 o-Terphenyl	5.260	5.263	-0.003	1590056	9.88	
E 26 n-Triacontane-d62	7.773	7.777	-0.004	886201	6.52	

QC Flag Legend
Processing Flags

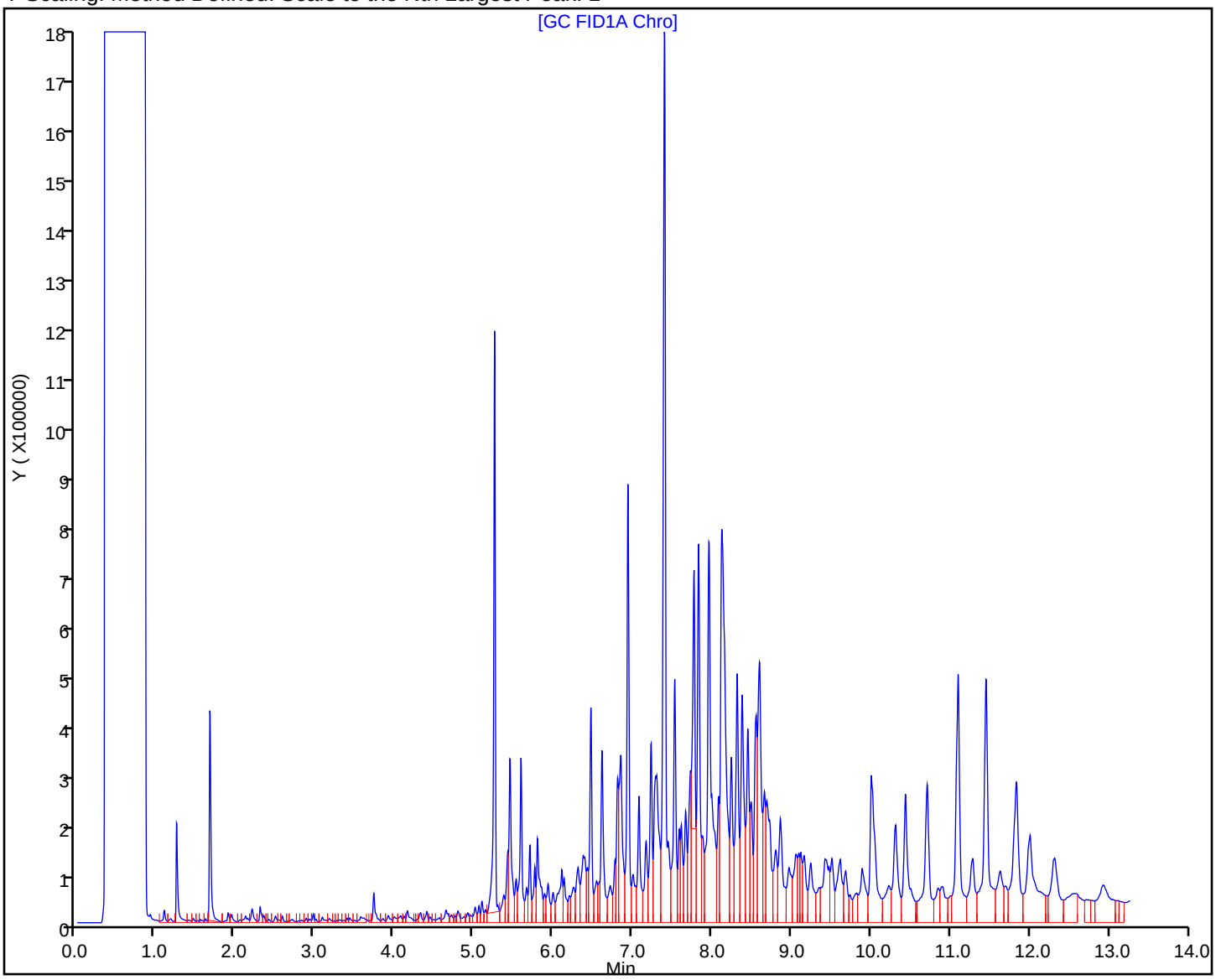
Report Date: 23-Oct-2024 14:57:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a116.D

Injection Date:	23-Oct-2024 06:30:57	Instrument ID:	TAC129		
Lims ID:	580-144975-A-11-B	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a116.D
Lims ID: 580-144975-A-11-B
Client ID: RIR24SS228BKG03.5
Sample Type: Client
Inject. Date: 23-Oct-2024 06:30:57 ALS Bottle#: 0 Worklist Smp#: 58
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-11-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:55:50

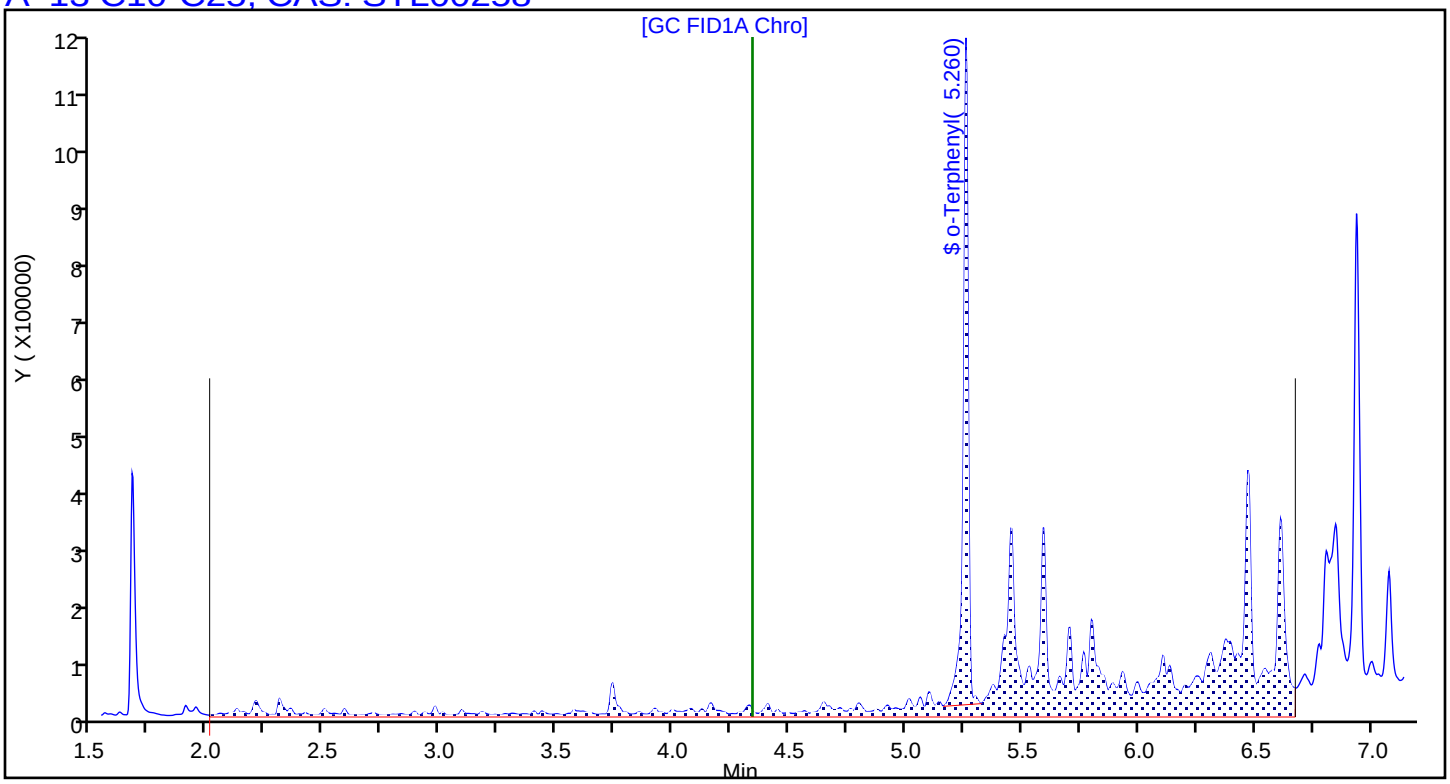
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.88	94.96
E 26 n-Triacontane-d62	7.25	6.52	89.92

Report Date: 23-Oct-2024 14:57:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a116.D				
Injection Date:	23-Oct-2024 06:30:57	Instrument ID:	TAC129		
Lims ID:	580-144975-A-11-B	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472407

SDG No.: SP9 & Background

Instrument ID: TAC129 | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2024 09:44 | Calibration End Date: 09/23/2024 13:06 | Calibration ID: 39572

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472407/3	09232024a006.D
Level 2	IC 580-472407/4	09232024a008.D
Level 3	IC 580-472407/5	09232024a010.D
Level 4	IC 580-472407/6	09232024a012.D
Level 5	IC 580-472407/7	09232024a014.D
Level 6	IC 580-472407/8	09232024a016.D
Level 7	ICRT 580-472407/9	09232024a018.D
Level 8	IC 580-472407/10	09232024a020.D
Level 9	IC 580-472407/11	09232024a022.D
Level 10	IC 580-472407/12	09232024a024.D
Level 11	IC 580-472407/13	09232024a026.D

ANALYTE	LVL 1 LVL 11	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
DRO (nC10-<nC25)	4.440 4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	2.063 - 6.817	4.440
RRO (nC25-nC36)	8.110 8.110	8.110	8.110	8.110	8.110	8.110	8.110	8.110	8.110	8.110	6.817 - 9.403	8.110
o-Terphenyl	5.367 +++++	5.363	5.363	5.363	5.363	5.363	5.363	5.367	5.370	5.380	5.263 - 5.463	5.366
n-Triacontane-d62	7.910 7.993	7.907	7.907	7.903	7.907	7.910	7.913	7.913	7.923	7.953	7.813 - 8.013	7.922

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472407

SDG No.: SP9 & Background

Instrument ID: TAC129 | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2024 09:44 | Calibration End Date: 09/23/2024 13:06 | Calibration ID: 39572

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472407/3	09232024a006.D
Level 2	IC 580-472407/4	09232024a008.D
Level 3	IC 580-472407/5	09232024a010.D
Level 4	IC 580-472407/6	09232024a012.D
Level 5	IC 580-472407/7	09232024a014.D
Level 6	IC 580-472407/8	09232024a016.D
Level 7	ICRT 580-472407/9	09232024a018.D
Level 8	IC 580-472407/10	09232024a020.D
Level 9	IC 580-472407/11	09232024a022.D
Level 10	IC 580-472407/12	09232024a024.D
Level 11	IC 580-472407/13	09232024a026.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7 LVL 11	LVL 4 LVL 8		B	M1	M2								
DRO (nC10-<nC25)	191124 166866 157673	177388 170631 150288	171432 169367 151584	168838 166981	Lin2	151473.790	162116.309				4.3		20.0	0.9980		0.9950
RRO (nC25-nC36)	168614 103390 83218	123671 91816 84703	107518 89201 88684	94457 87475	Lin2	394452.644	88125.863 3				5.2		20.0	0.9970		0.9950
o-Terphenyl	205298 177309 120150	180231 169050 107462	181002 150815 +++++	182301 136431	Ave		161004.867				19.4		25.0			
n-Triacontane-d62	179807 133009 109467	161324 113017 114780	127900 145362 137547	160323 112718	Ave		135932.186				17.3		25.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472407

SDG No.: SP9 & Background

Instrument ID: TAC129 | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/23/2024 09:44 | Calibration End Date: 09/23/2024 13:06 | Calibration ID: 39572

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472407/3	09232024a006.D
Level 2	IC 580-472407/4	09232024a008.D
Level 3	IC 580-472407/5	09232024a010.D
Level 4	IC 580-472407/6	09232024a012.D
Level 5	IC 580-472407/7	09232024a014.D
Level 6	IC 580-472407/8	09232024a016.D
Level 7	ICRT 580-472407/9	09232024a018.D
Level 8	IC 580-472407/10	09232024a020.D
Level 9	IC 580-472407/11	09232024a022.D
Level 10	IC 580-472407/12	09232024a024.D
Level 11	IC 580-472407/13	09232024a026.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
DRO (nC10-<nC25)	Lin2	955621 34126240 1515843592	1773876 84683641	3428633 166981309	8441886 315345478	16686601 751441680	5.00 200 10000	10.0 500	20.0 1000	50.0 2000	100 5000
RRO (nC25-nC36)	Lin2	843072 18363184 886839231	1236710 44600690	2150351 87475142	4722860 166435324	10339008 423517136	5.00 200 10000	10.0 500	20.0 1000	50.0 2000	100 5000
o-Terphenyl	Ave	21351 703246 +++++	37488 1568476	75297 2837757	189593 4998248	368802 11176097	0.104 4.16 +++++	0.208 10.4	0.416 20.8	1.04 41.6	2.08 104
n-Triacontane-d62	Ave	13036 327748 19944315	23392 1053875	37091 1634416	116234 3174544	192863 8321571	0.0725 2.90 145	0.145 7.25	0.290 14.5	0.725 29.0	1.45 72.5

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Report Date: 23-Sep-2024 14:20:40 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Sep-2024 09:44:20 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:20:38 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:57:50

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.740	1.730	0.010	12085	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		1010053	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		941610	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		955621	5.00	4.96	
A	14 C12-C24	4.840	(2.977-6.703)		798507	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		1108644	NC	NC	
$	17 o-Terphenyl	5.367	5.363	0.004	21351	0.1040	0.1326	
A	25 C24-C32	7.620	(6.703-8.537)		471077	NC	NC	
E	26 n-Triacontane-d62	7.910	7.913	-0.003	13036	0.0725	0.0959	
A	27 C24-C36	8.053	(6.703-9.403)		857083	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		857083	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		843072	5.00	5.09	
A	31 C24-C40	8.545	(6.773-10.317)		1400535	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		1197560	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_5_00010 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:20:41 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a006.D

Injection Date: 23-Sep-2024 09:44:20 Instrument ID: TAC129

Lims ID: IC

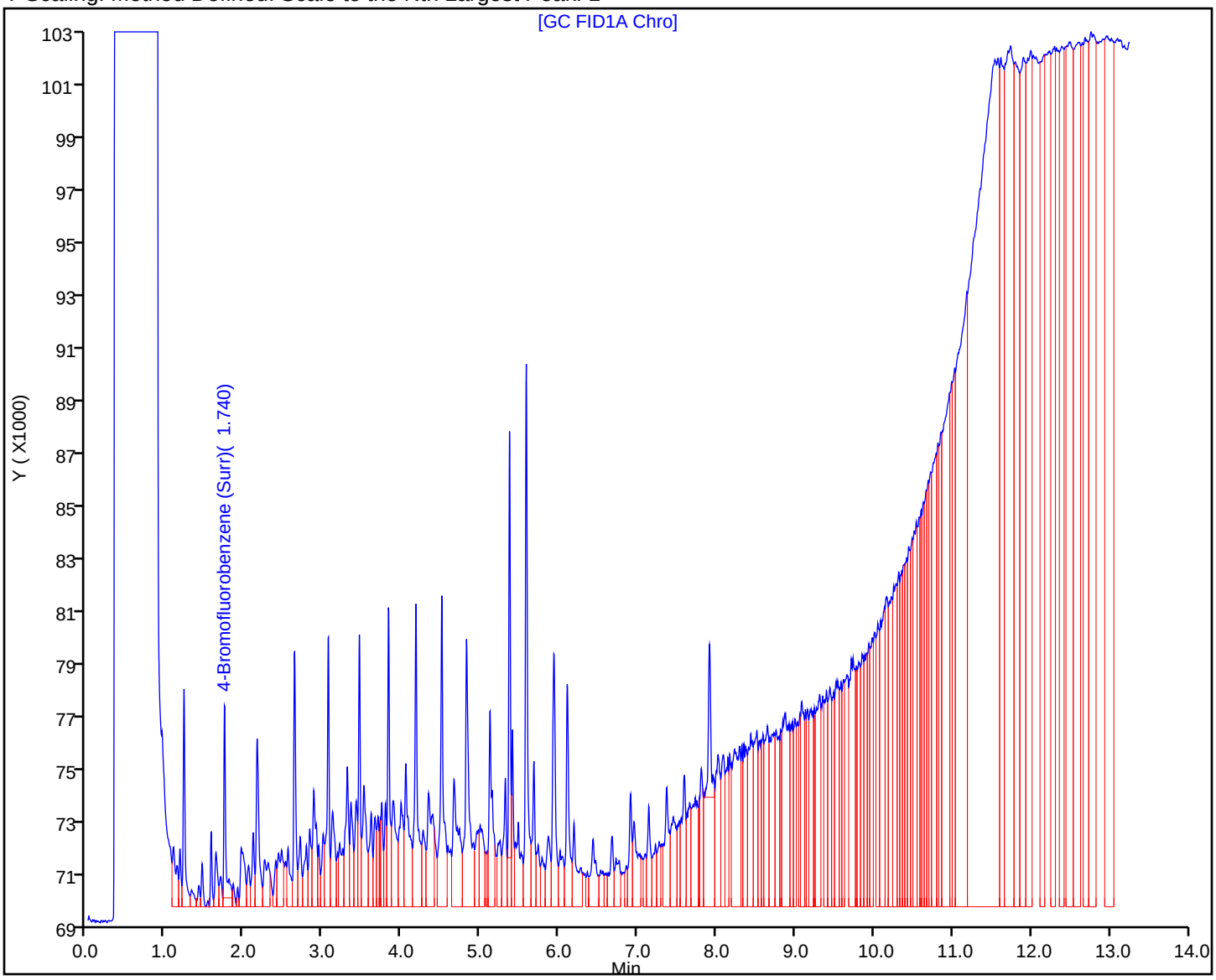
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



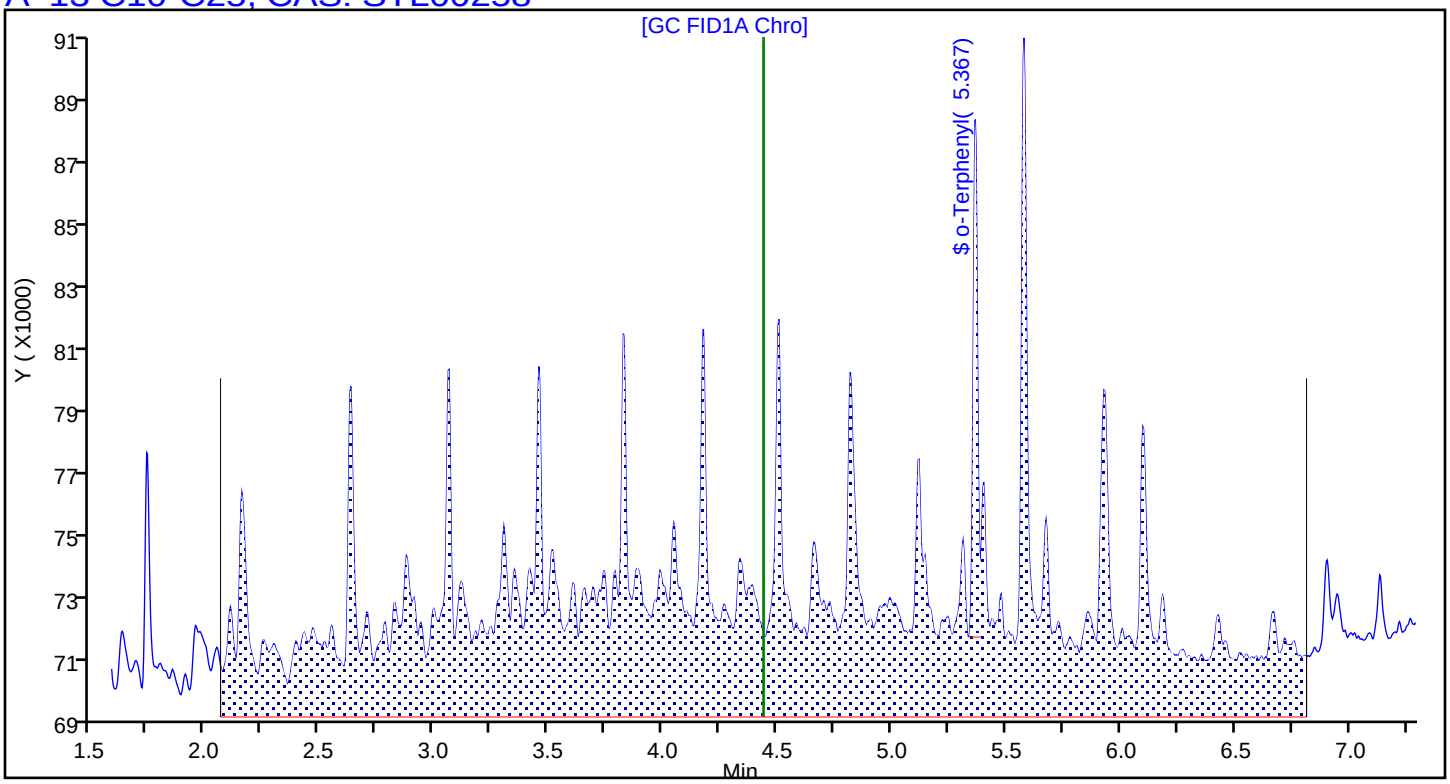
Report Date: 23-Sep-2024 14:20:41 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a006.D

Injection Date:	23-Sep-2024 09:44:20	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



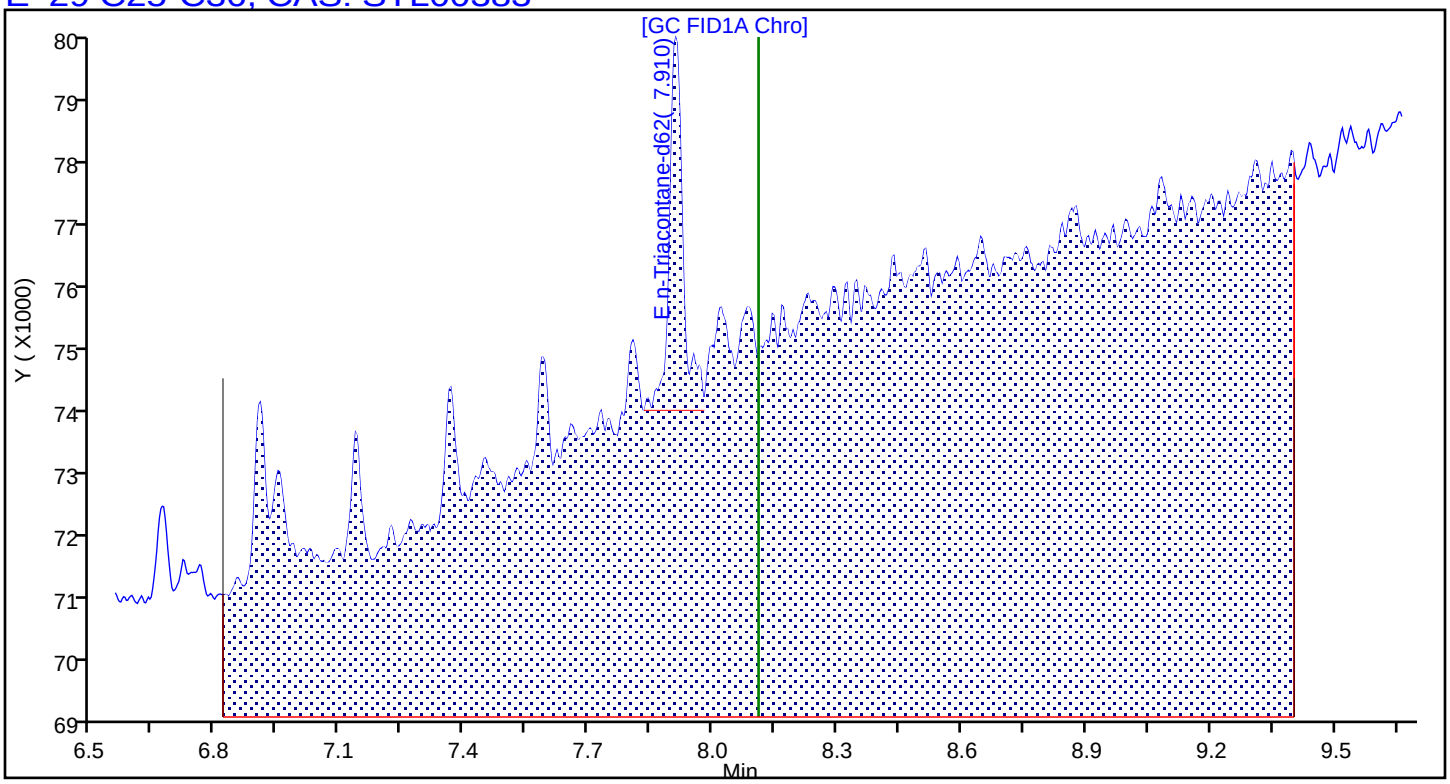
Report Date: 23-Sep-2024 14:20:41 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a006.D

Injection Date:	23-Sep-2024 09:44:20	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Sep-2024 10:04:29 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:20:42 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:57:42

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.740	1.730	0.010	17847	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		1873029	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		1750850	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		1773876	10.0	10.0	
A	14 C12-C24	4.840	(2.977-6.703)		1465625	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		1994851	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	37488	0.2080	0.2328	
A	25 C24-C32	7.620	(6.703-8.537)		713914	NC	NC	
E	26 n-Triacontane-d62	7.907	7.913	-0.006	23392	0.1450	0.1721	
A	27 C24-C36	8.053	(6.703-9.403)		1259735	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		1259735	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		1236710	10.0	9.56	
A	31 C24-C40	8.545	(6.773-10.317)		1890271	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		1612970	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_10_00017 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:20:48 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a008.D

Injection Date: 23-Sep-2024 10:04:29 Instrument ID: TAC129

Lims ID: IC

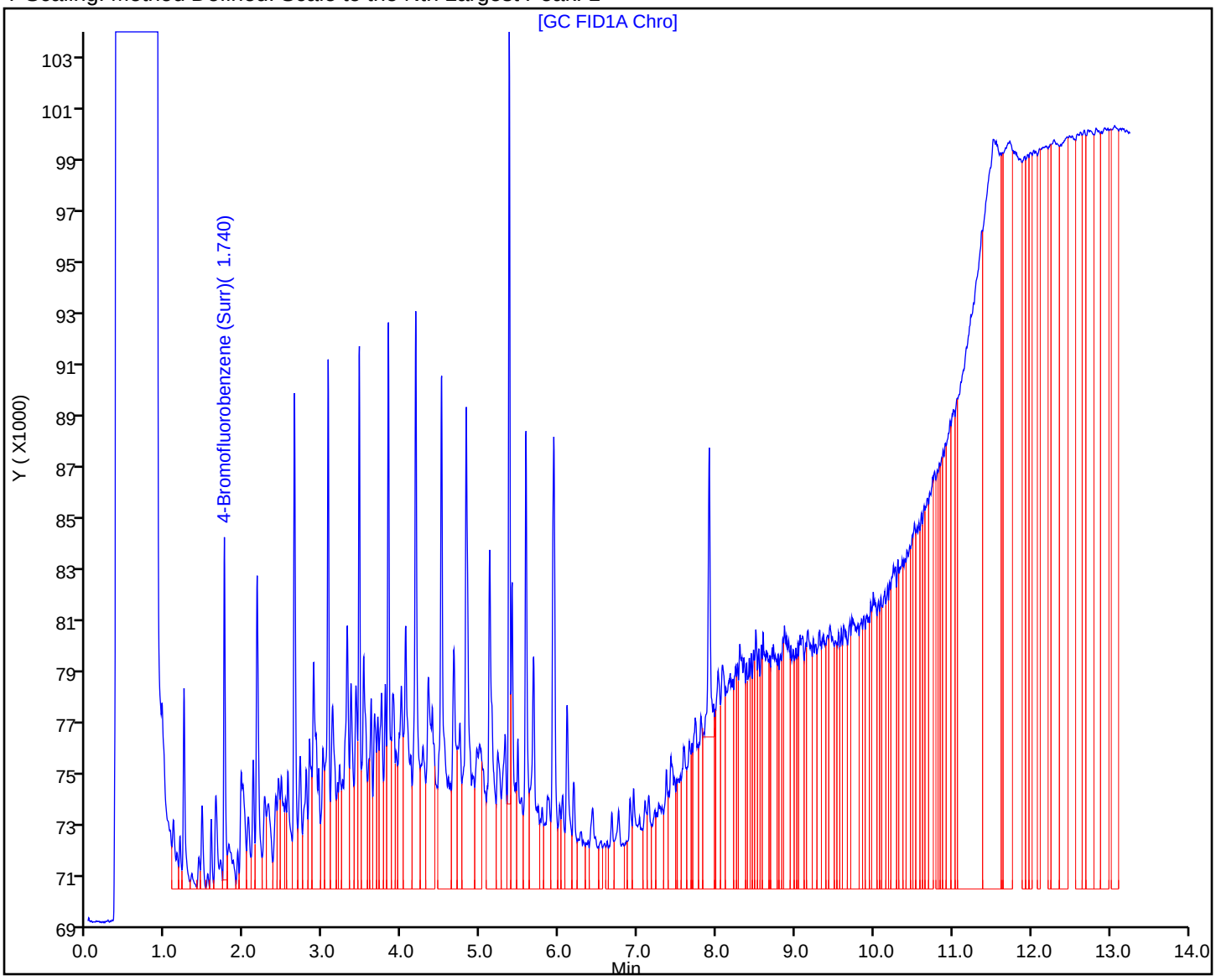
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

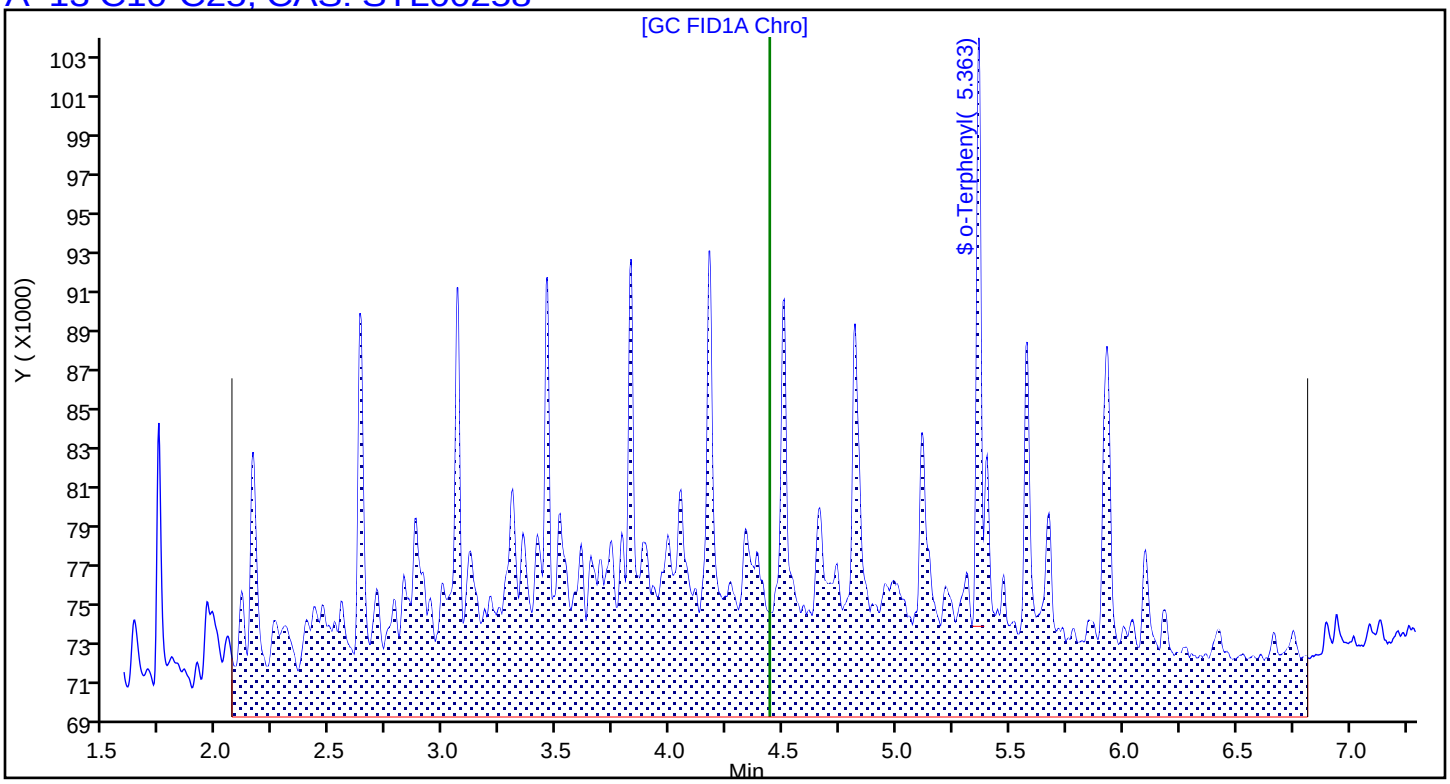


Report Date: 23-Sep-2024 14:20:48 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a008.D				
Injection Date:	23-Sep-2024 10:04:29	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

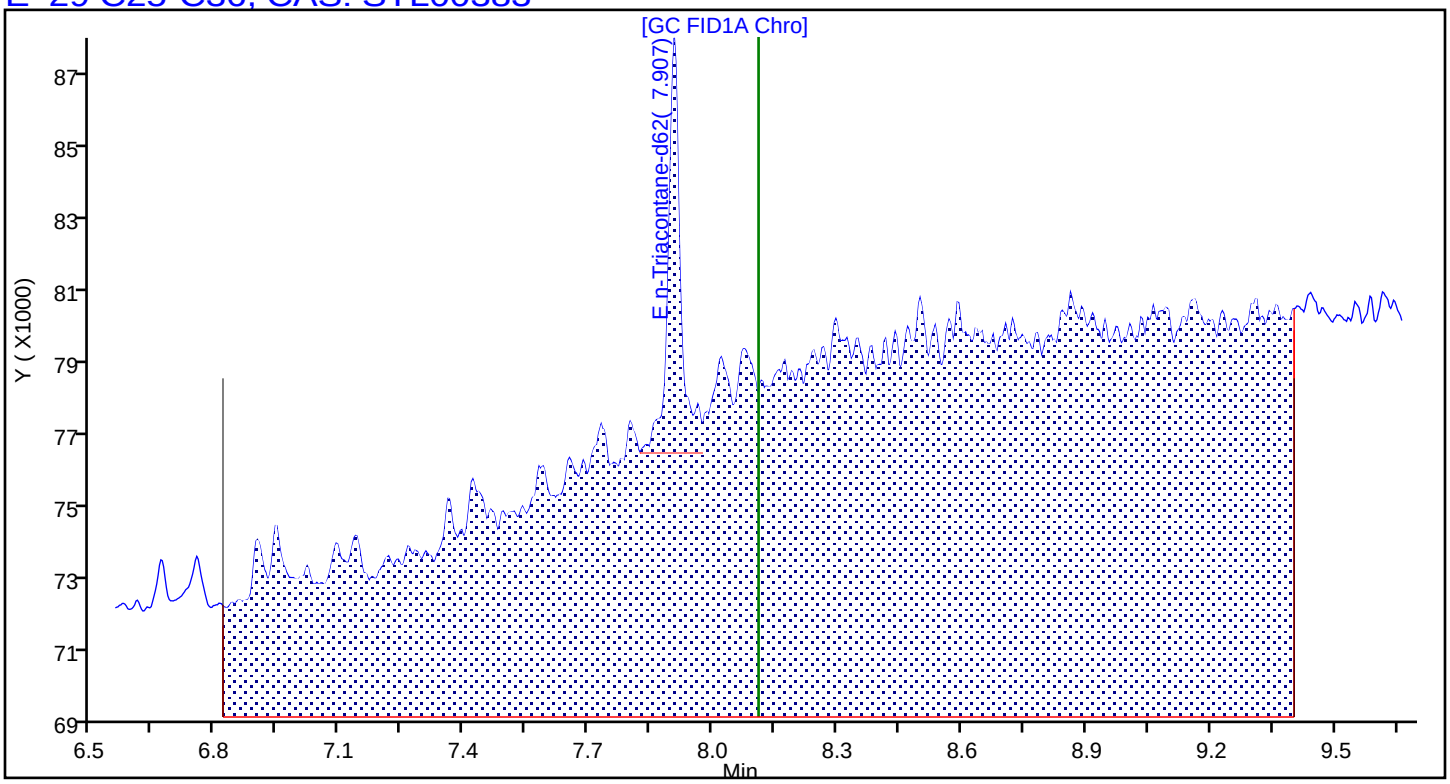


Report Date: 23-Sep-2024 14:20:48 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a008.D				
Injection Date:	23-Sep-2024 10:04:29	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:20:56 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Sep-2024 10:24:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:20:50 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:58:21

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.743	1.730	0.013	34897	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		3604726	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		3389332	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		3428633	20.0	20.2	
A	14 C12-C24	4.840	(2.977-6.703)		2836355	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		3823529	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	75297	0.4160	0.4677	
A	25 C24-C32	7.620	(6.703-8.537)		1288095	NC	NC	
E	26 n-Triacontane-d62	7.907	7.913	-0.006	37091	0.2900	0.2729	
A	27 C24-C36	8.053	(6.703-9.403)		2189652	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		2189652	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		2150351	20.0	19.9	
A	31 C24-C40	8.545	(6.773-10.317)		3038818	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		2570925	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_20_00030 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:20:56 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a010.D

Injection Date: 23-Sep-2024 10:24:33 Instrument ID: TAC129

Lims ID: IC

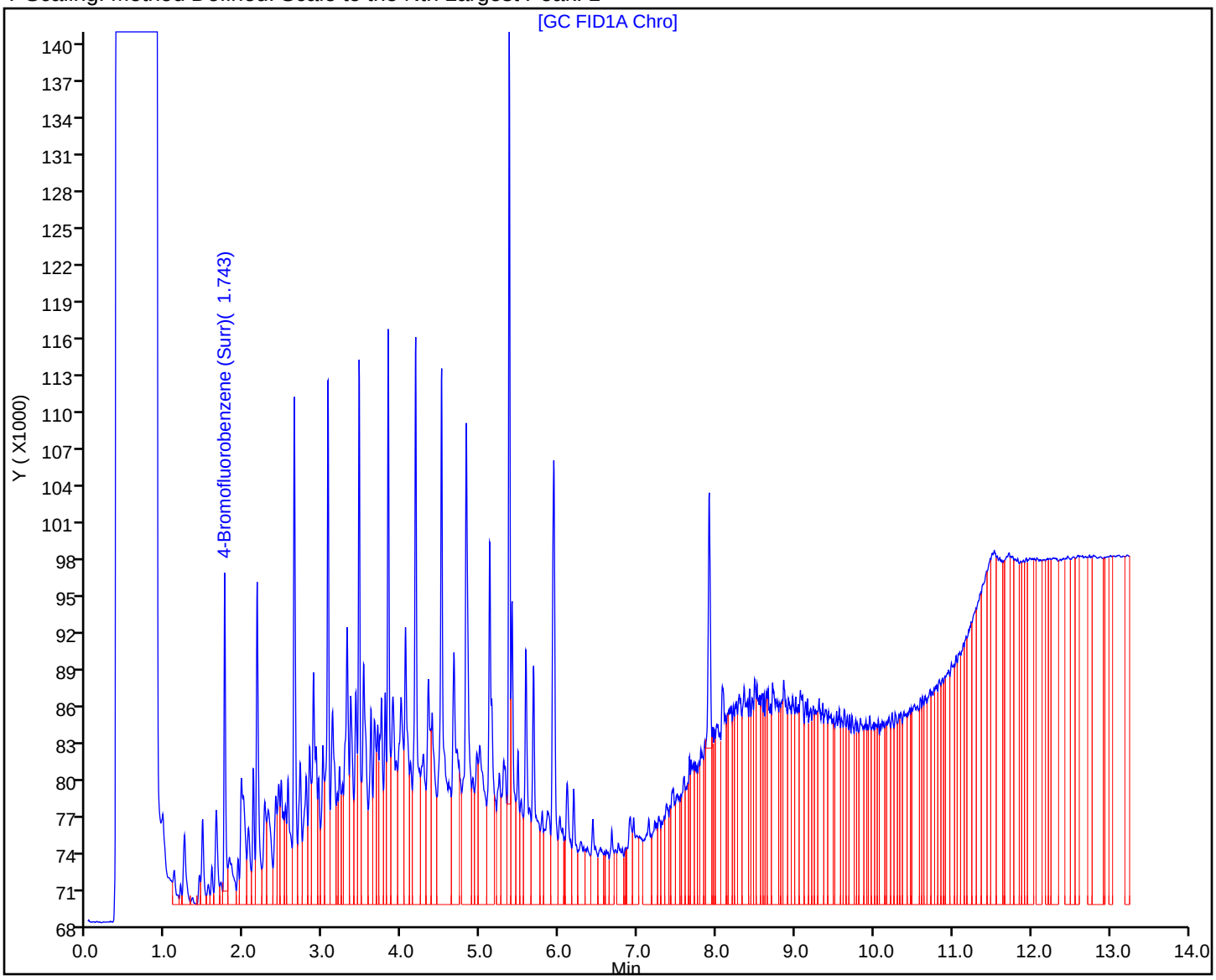
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

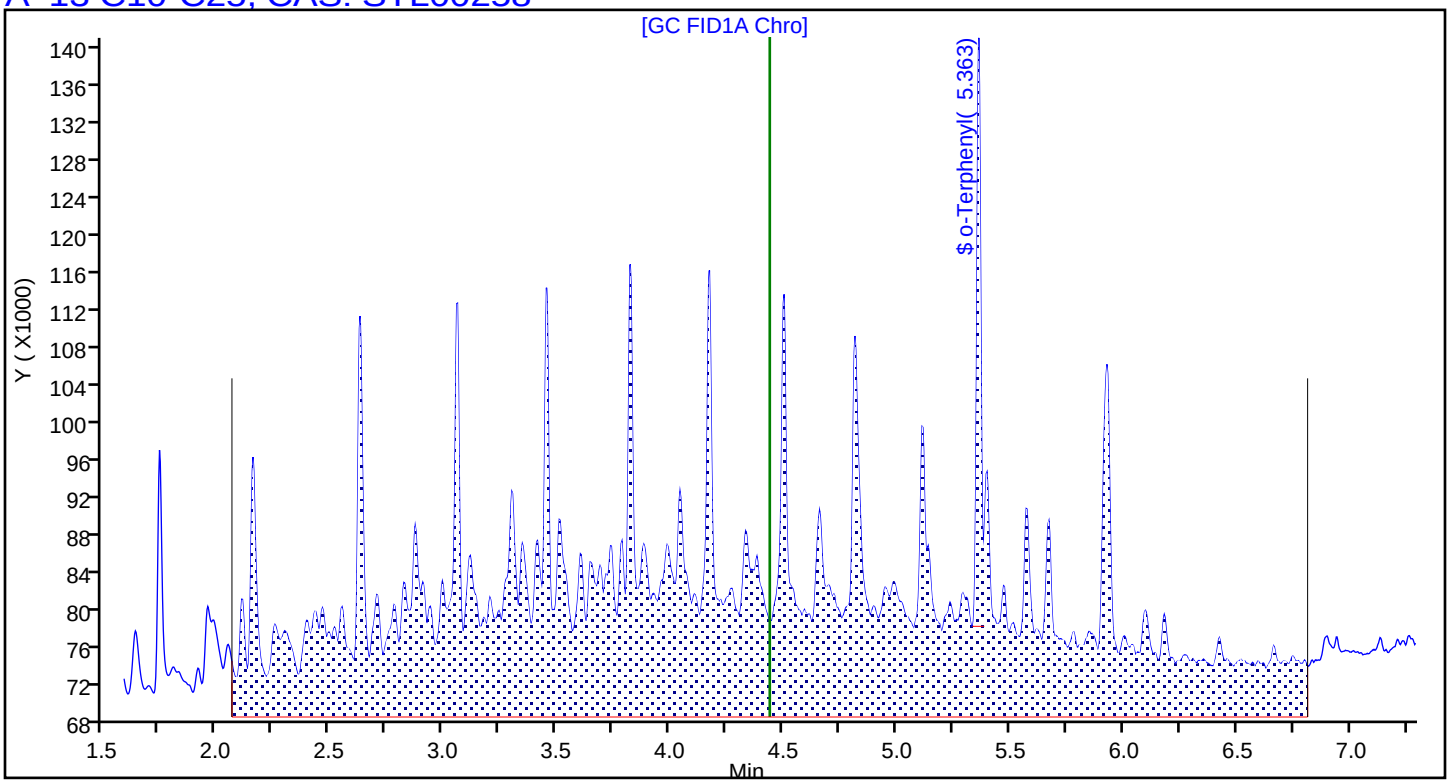


Report Date: 23-Sep-2024 14:20:56 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a010.D				
Injection Date:	23-Sep-2024 10:24:33	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

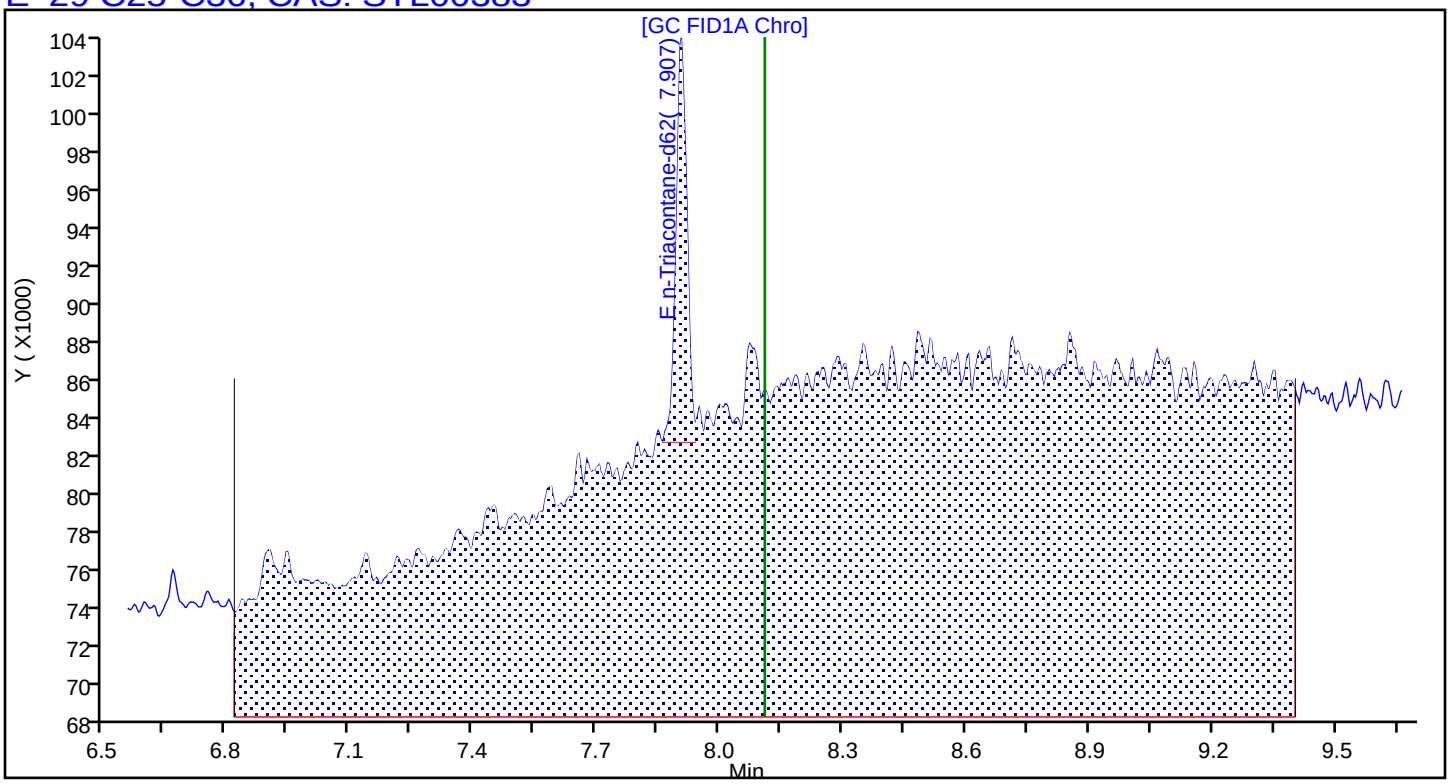


Report Date: 23-Sep-2024 14:20:56 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a010.D				
Injection Date:	23-Sep-2024 10:24:33	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a012.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Sep-2024 10:44:39 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:20:58 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:58:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.737	1.730	0.007	87124	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		8870320	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		8350152	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		8441886	50.0	51.1	
A	14 C12-C24	4.840	(2.977-6.703)		6949339	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		9321241	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	189593	1.04	1.18	
A	25 C24-C32	7.620	(6.703-8.537)		2872549	NC	NC	
E	26 n-Triacontane-d62	7.903	7.913	-0.010	116234	0.7250	0.8551	
A	27 C24-C36	8.053	(6.703-9.403)		4814594	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		4814594	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		4722860	50.0	49.1	
A	31 C24-C40	8.545	(6.773-10.317)		6389278	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		5378310	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_50_00027 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:04 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a012.D

Injection Date: 23-Sep-2024 10:44:39 Instrument ID: TAC129

Lims ID: IC

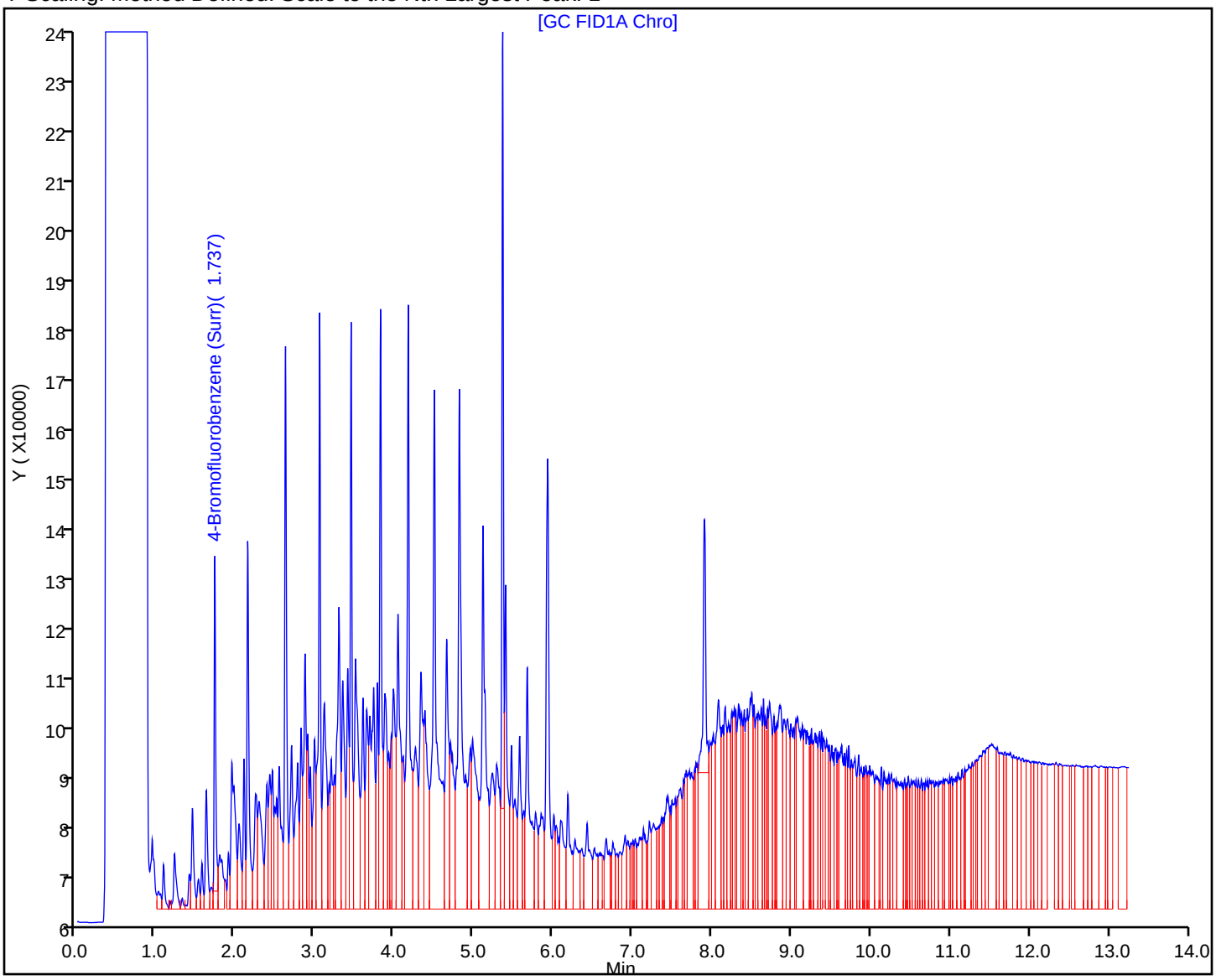
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Sep-2024 14:21:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a012.D

Injection Date: 23-Sep-2024 10:44:39 Instrument ID: TAC129

Lims ID: IC

Client ID:

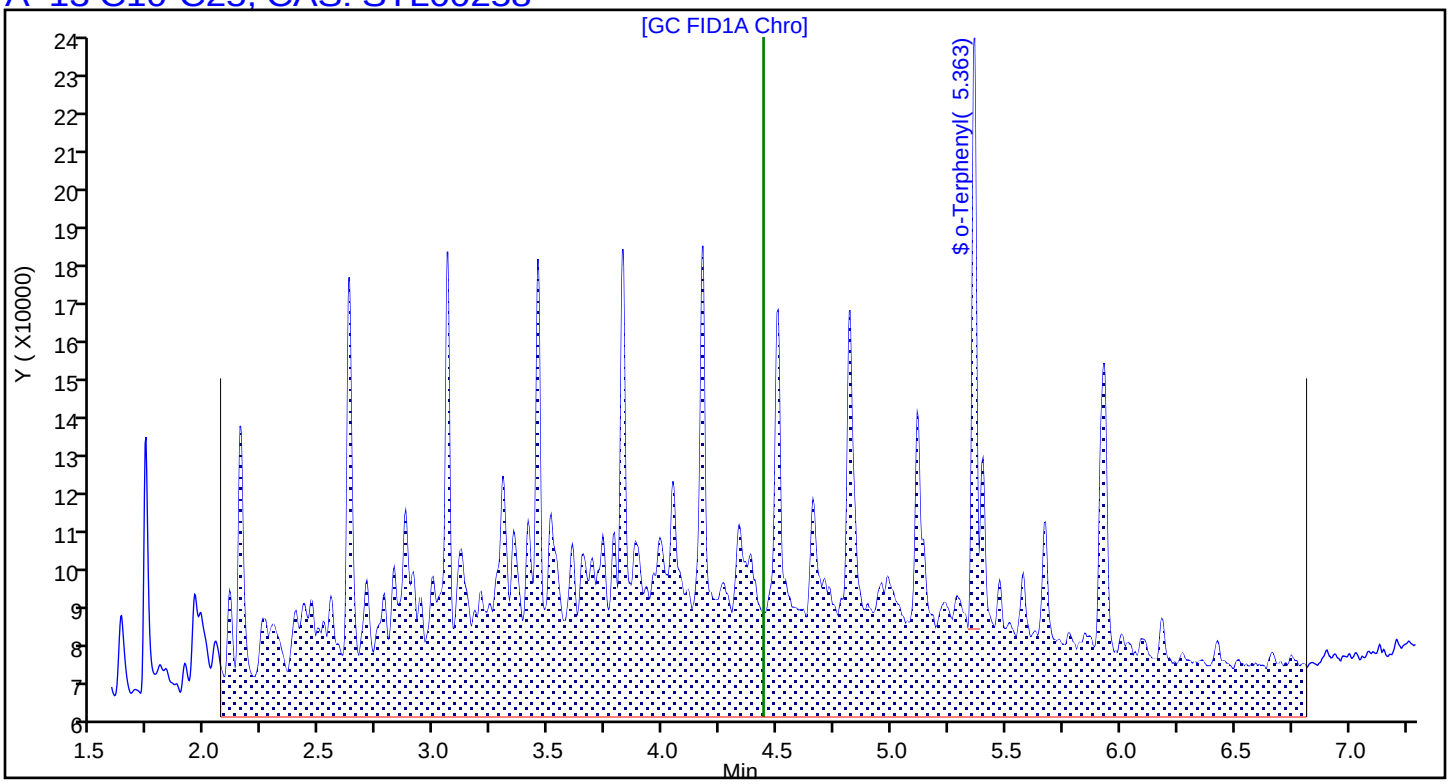
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Column: Detector GC FID1A

A_13 C10-C25, CAS: STL00258

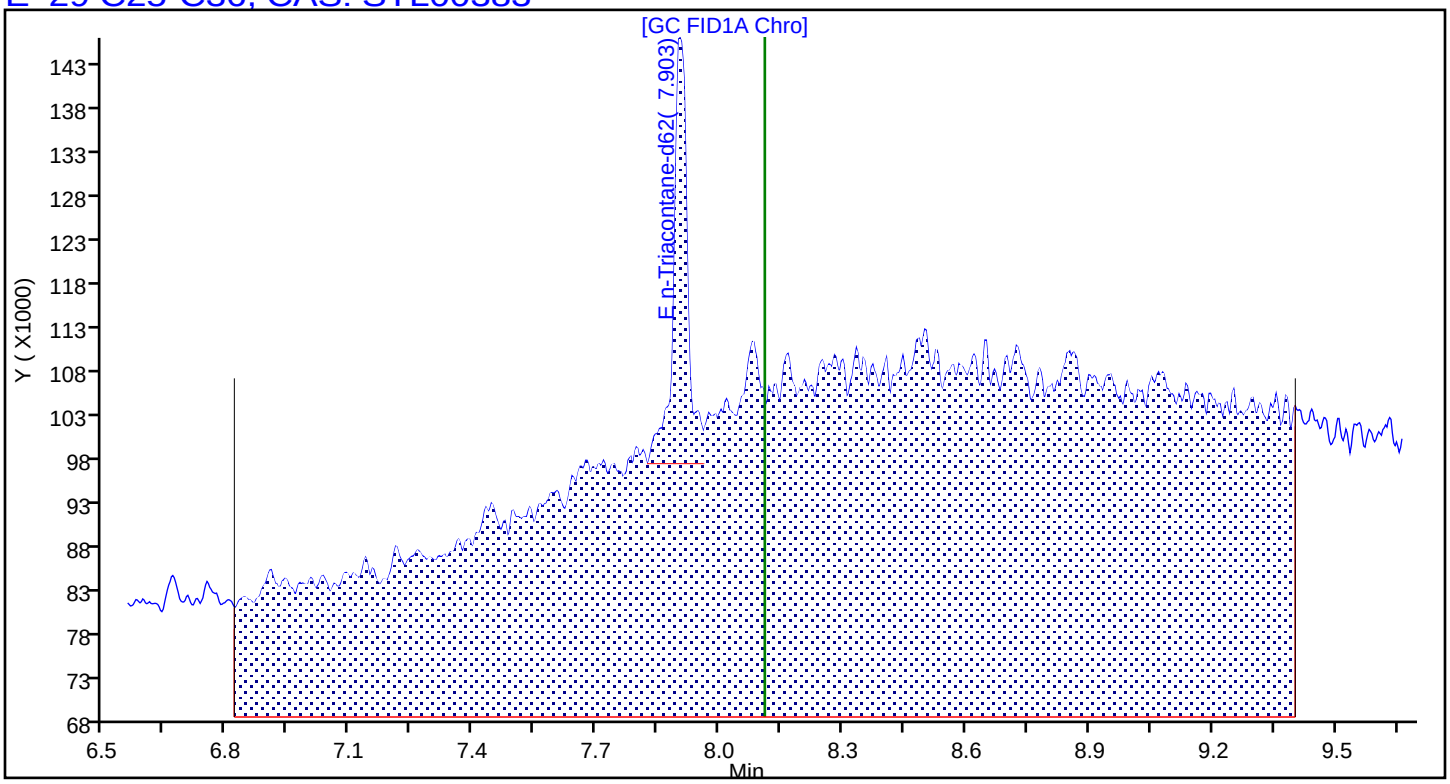


Report Date: 23-Sep-2024 14:21:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a012.D				
Injection Date:	23-Sep-2024 10:44:39	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:21:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a014.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Sep-2024 11:04:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:21:07 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:59:09

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.740	1.730	0.010	171263	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		17555631	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		16504169	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		16686601	100.0	102.0	
A	14 C12-C24	4.840	(2.977-6.703)		13766033	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		18977363	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	368802	2.08	2.29	
A	25 C24-C32	7.620	(6.703-8.537)		6684199	NC	NC	
E	26 n-Triacontane-d62	7.907	7.913	-0.006	192863	1.45	1.42	
A	27 C24-C36	8.053	(6.703-9.403)		10521440	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		10521440	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		10339008	100.0	112.8	
A	31 C24-C40	8.545	(6.773-10.317)		13399858	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		10873205	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_100_00028 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a014.D

Injection Date: 23-Sep-2024 11:04:57 Instrument ID: TAC129

Lims ID: IC

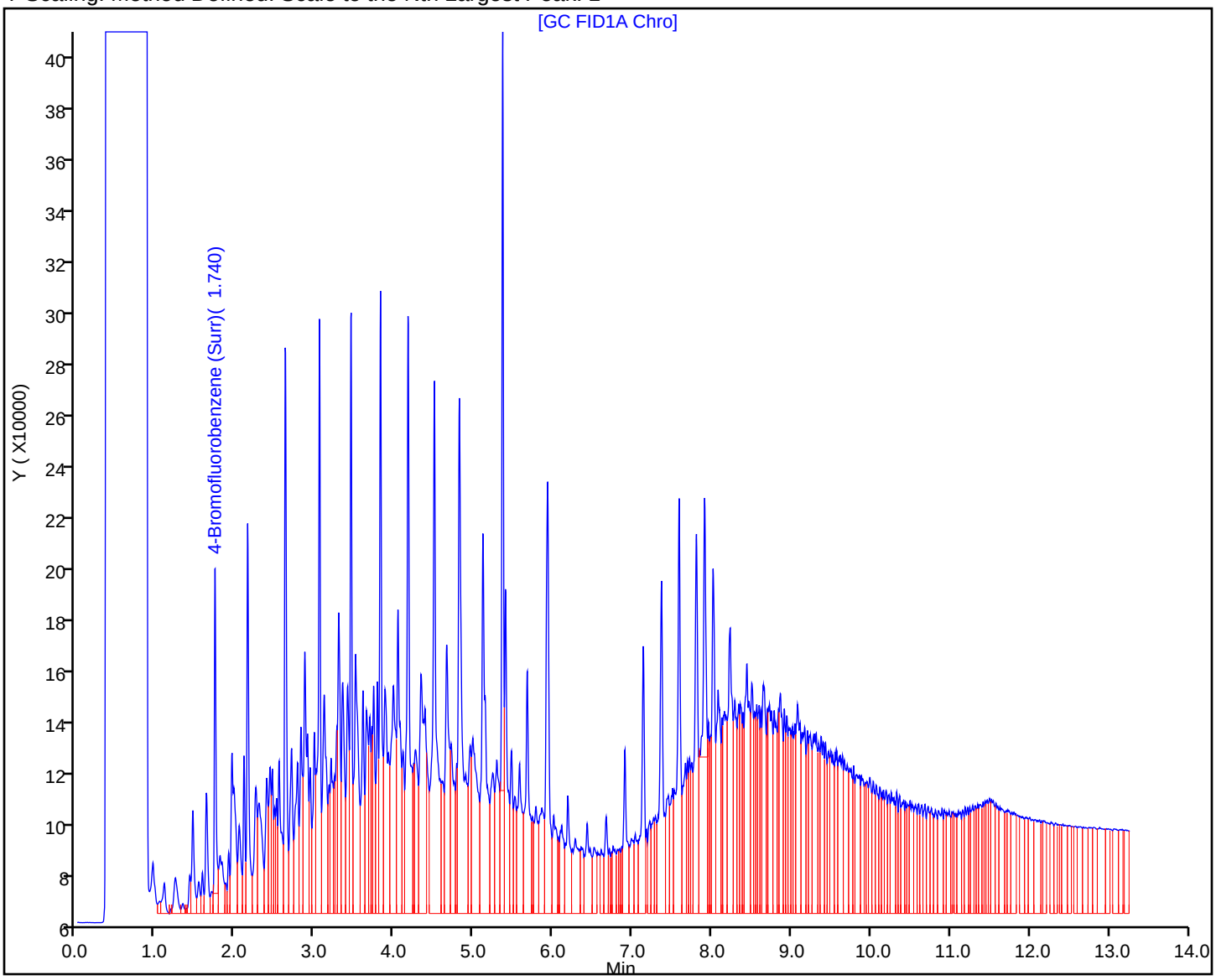
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



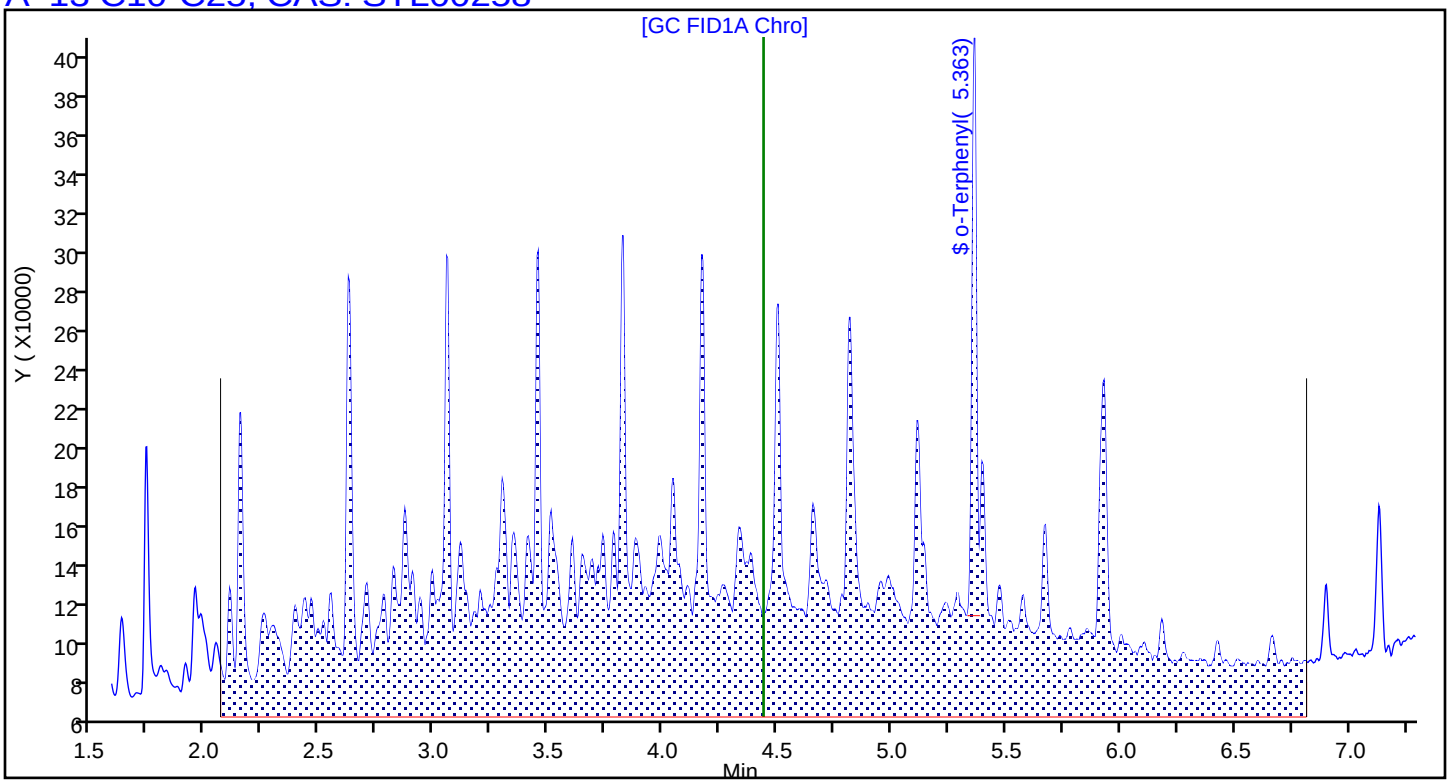
Report Date: 23-Sep-2024 14:21:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a014.D

Injection Date:	23-Sep-2024 11:04:57	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



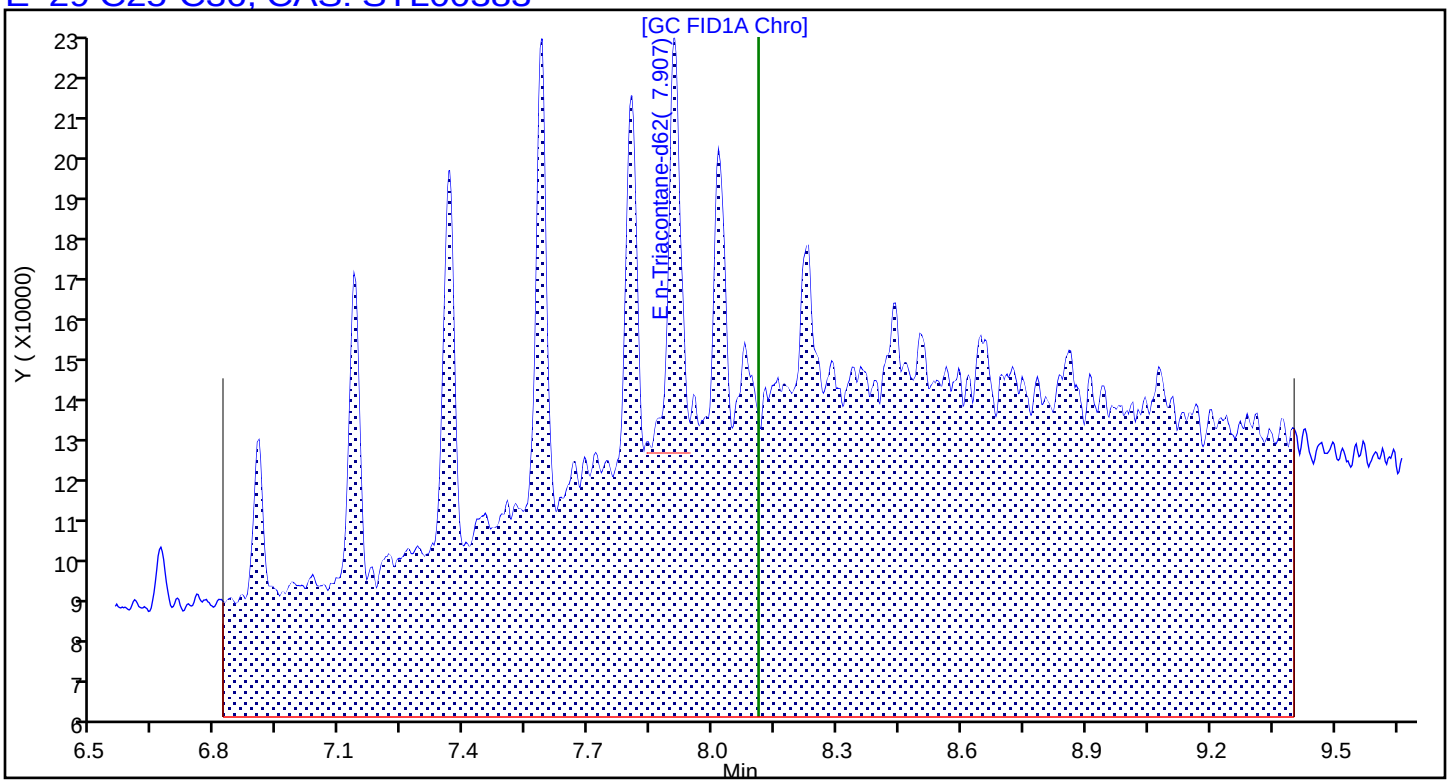
Report Date: 23-Sep-2024 14:21:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a014.D

Injection Date:	23-Sep-2024 11:04:57	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:21:24 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a016.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Sep-2024 11:25:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:21:17 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:59:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.733	1.730	0.003	349859	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		35817704	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		33767870	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		34126240	200.0	209.6	
A	14 C12-C24	4.840	(2.977-6.703)		28138928	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		37560103	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	703246	4.16	4.37	
A	25 C24-C32	7.620	(6.703-8.537)		11319299	NC	NC	
E	26 n-Triacontane-d62	7.910	7.913	-0.003	327748	2.90	2.41	
A	27 C24-C36	8.053	(6.703-9.403)		18721554	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		18721554	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		18363184	200.0	203.9	
A	31 C24-C40	8.545	(6.773-10.317)		24187881	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		20309070	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_200_00011 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:24 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a016.D

Injection Date: 23-Sep-2024 11:25:05 Instrument ID: TAC129

Lims ID: IC

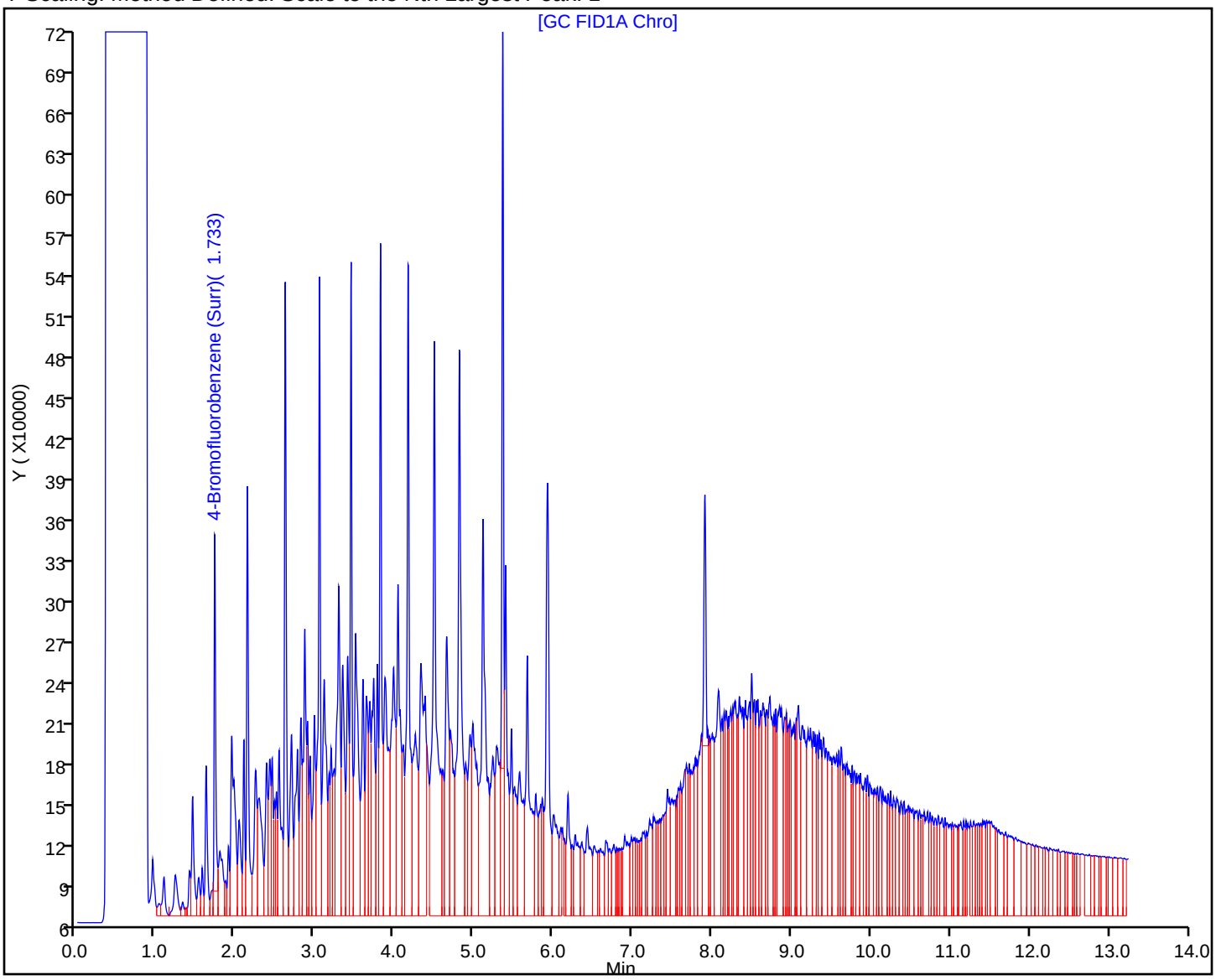
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



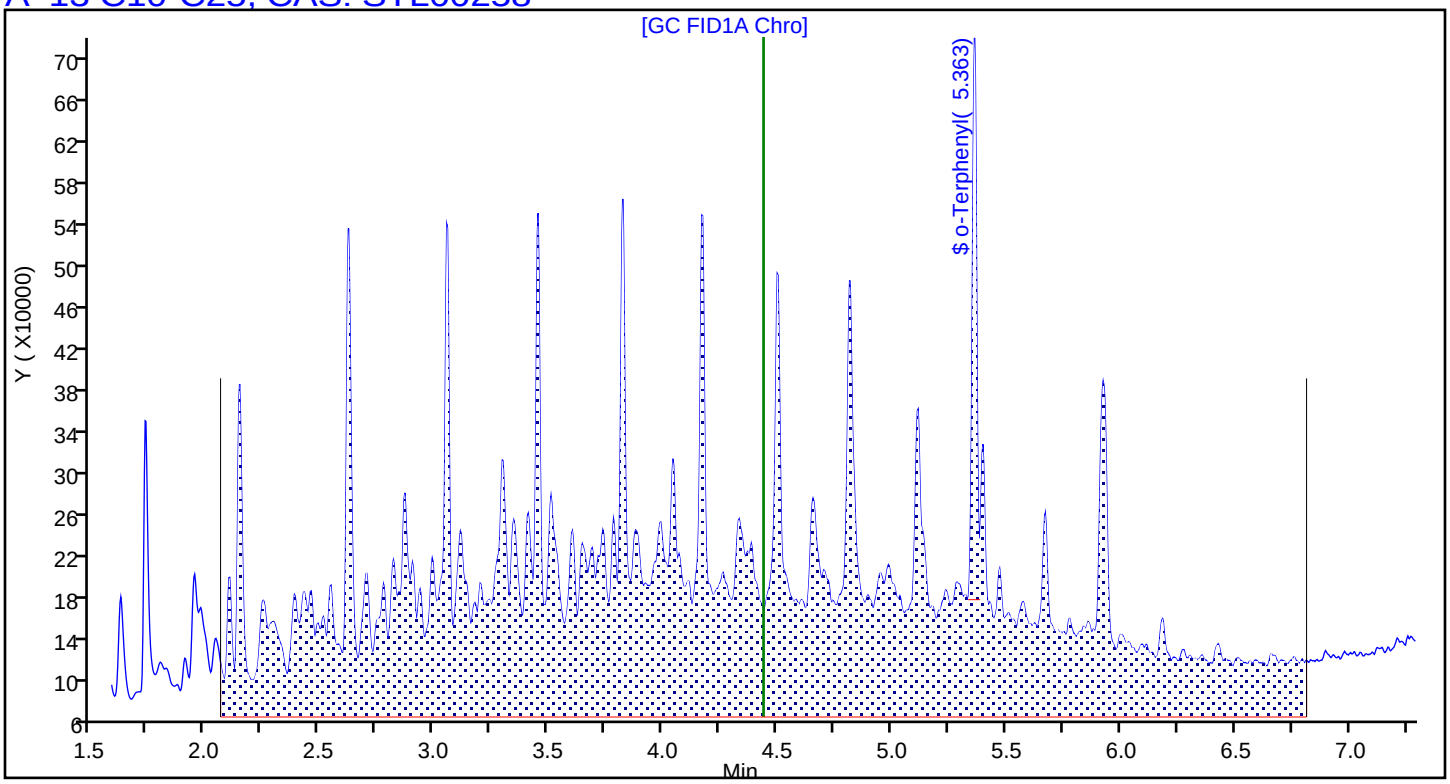
Report Date: 23-Sep-2024 14:21:24 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a016.D

Injection Date:	23-Sep-2024 11:25:05	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

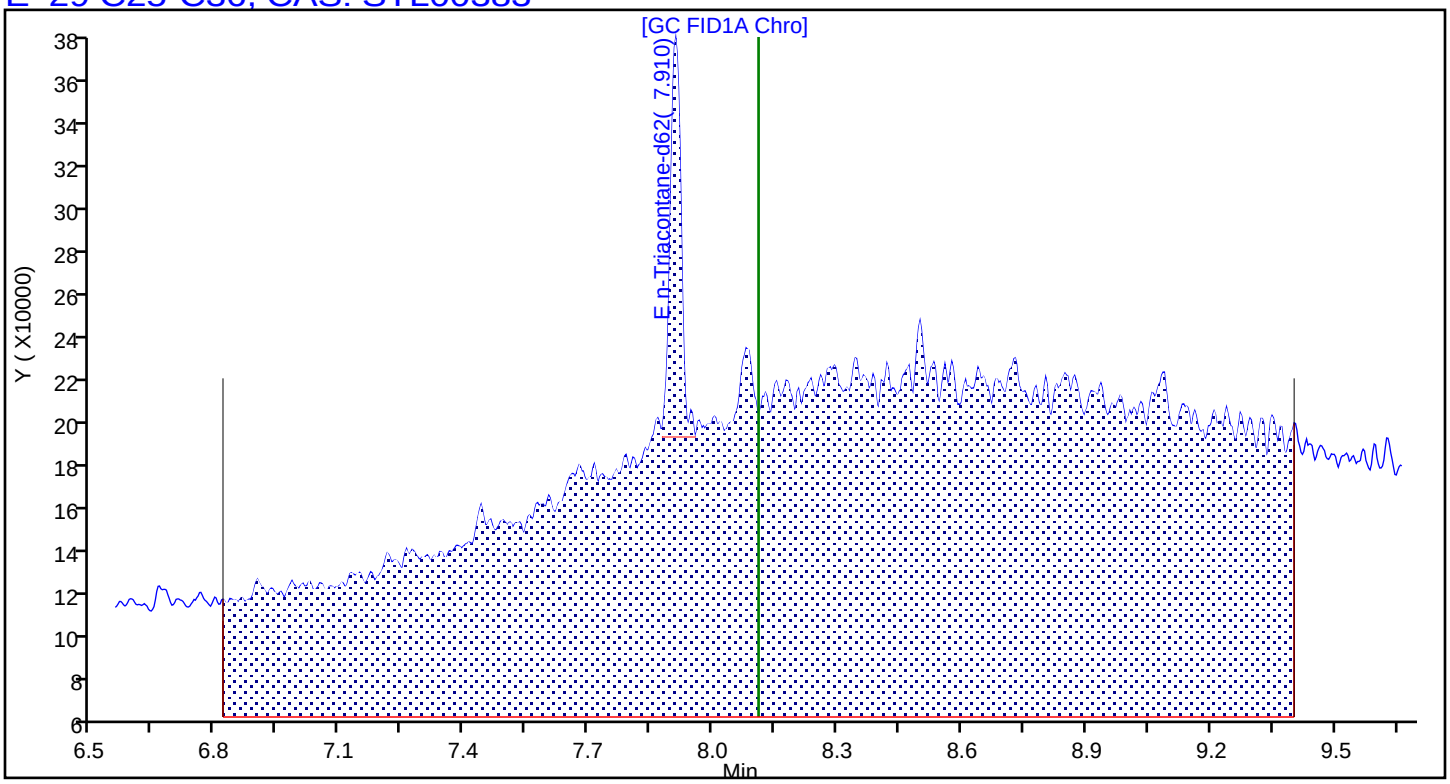


Report Date: 23-Sep-2024 14:21:24 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a016.D				
Injection Date:	23-Sep-2024 11:25:05	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:21:35 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a018.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 7
Inject. Date: 23-Sep-2024 11:45:16 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:21:27 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 13:59:48

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.730	1.730	0.000	993498	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		88707470	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		83800587	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		84683641	500.0	521.4	
A	14 C12-C24	4.840	(2.977-6.703)		69971427	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		93087245	NC	NC	
$	17 o-Terphenyl	5.363	5.363	0.000	1568476	10.4	9.74	
A	25 C24-C32	7.620	(6.703-8.537)		27477076	NC	NC	
E	26 n-Triacontane-d62	7.913	7.913	0.000	1053875	7.25	7.75	
A	27 C24-C36	8.053	(6.703-9.403)		45483744	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		45483744	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		44600690	500.0	501.6	
A	31 C24-C40	8.545	(6.773-10.317)		58297418	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		48862933	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00142 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:35 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a018.D

Injection Date: 23-Sep-2024 11:45:16 Instrument ID: TAC129

Lims ID: ICRT

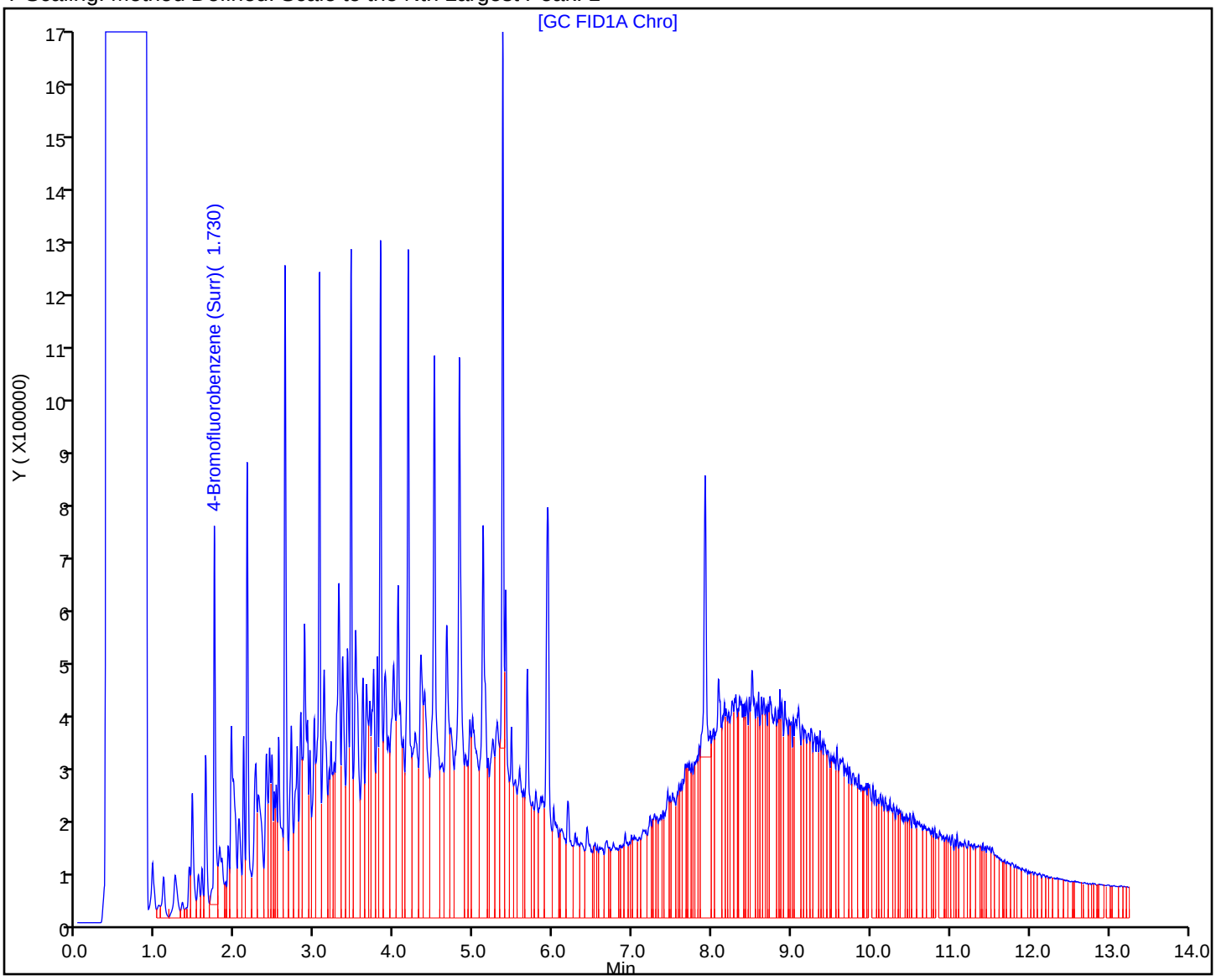
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



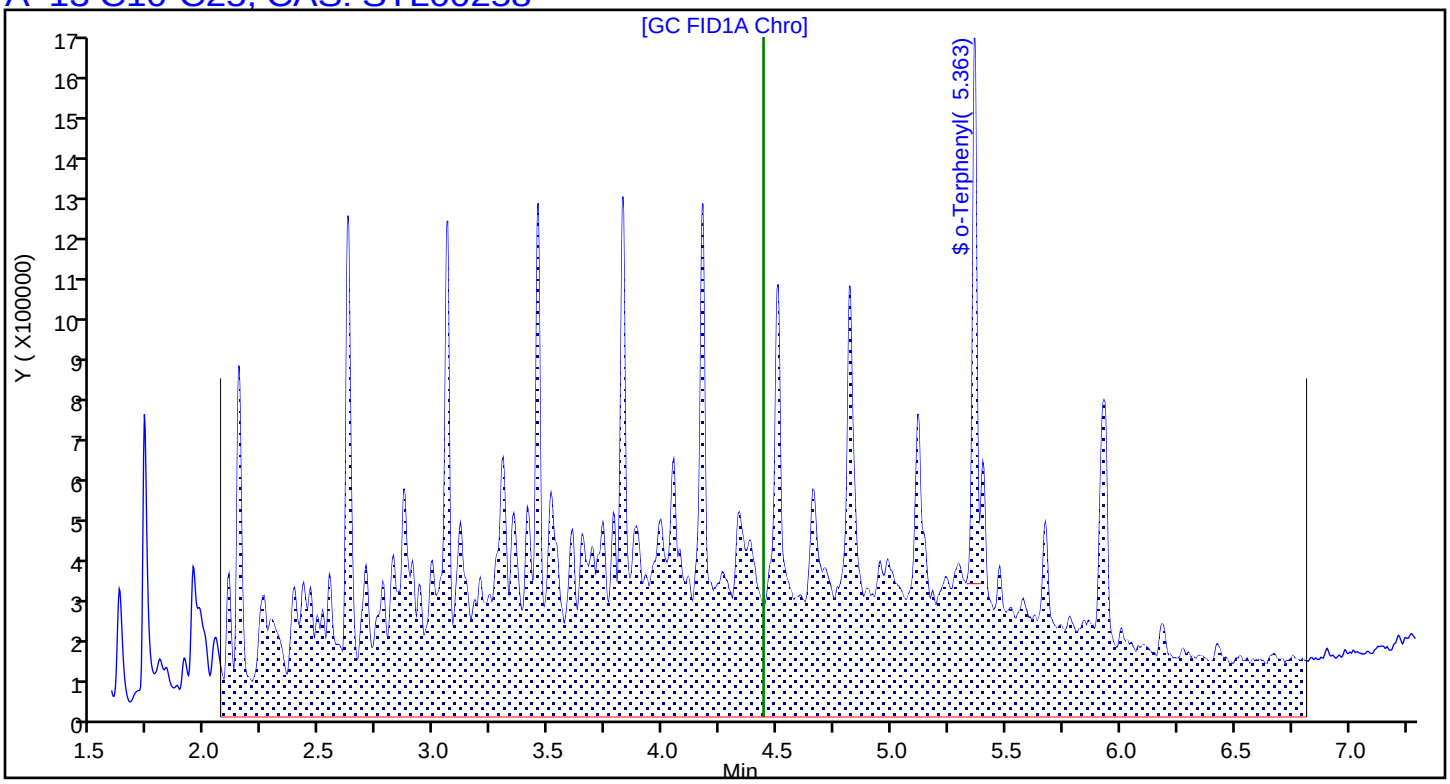
Report Date: 23-Sep-2024 14:21:35 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a018.D

Injection Date:	23-Sep-2024 11:45:16	Instrument ID:	TAC129		
Lims ID:	ICRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

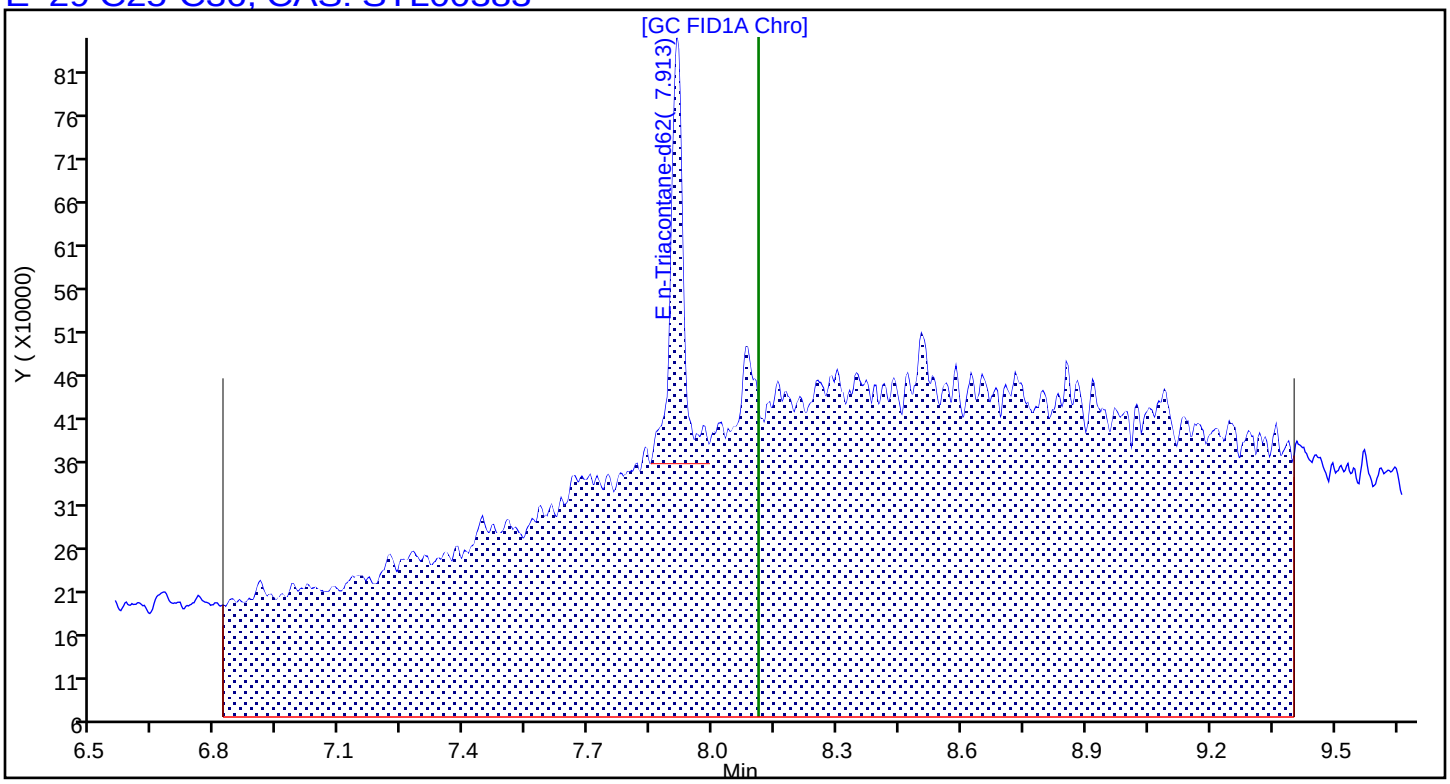


Report Date: 23-Sep-2024 14:21:35 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a018.D				
Injection Date:	23-Sep-2024 11:45:16	Instrument ID:	TAC129		
Lims ID:	ICRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:21:43 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a020.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-Sep-2024 12:05:36 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:21:40 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 14:00:05

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.727	1.730	-0.003	2061845	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		174853544	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		165291999	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		166981309	1000.0	1029.1	
A	14 C12-C24	4.840	(2.977-6.703)		137916780	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		182970182	NC	NC	
$	17 o-Terphenyl	5.367	5.363	0.004	2837757	20.8	17.6	
A	25 C24-C32	7.620	(6.703-8.537)		53396014	NC	NC	
E	26 n-Triacontane-d62	7.913	7.913	0.000	1634416	14.5	12.0	
A	27 C24-C36	8.053	(6.703-9.403)		89164452	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		89164452	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		87475142	1000.0	988.1	
A	31 C24-C40	8.545	(6.773-10.317)		114907015	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		96855471	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_1000_00025 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:43 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a020.D

Injection Date: 23-Sep-2024 12:05:36 Instrument ID: TAC129

Lims ID: IC

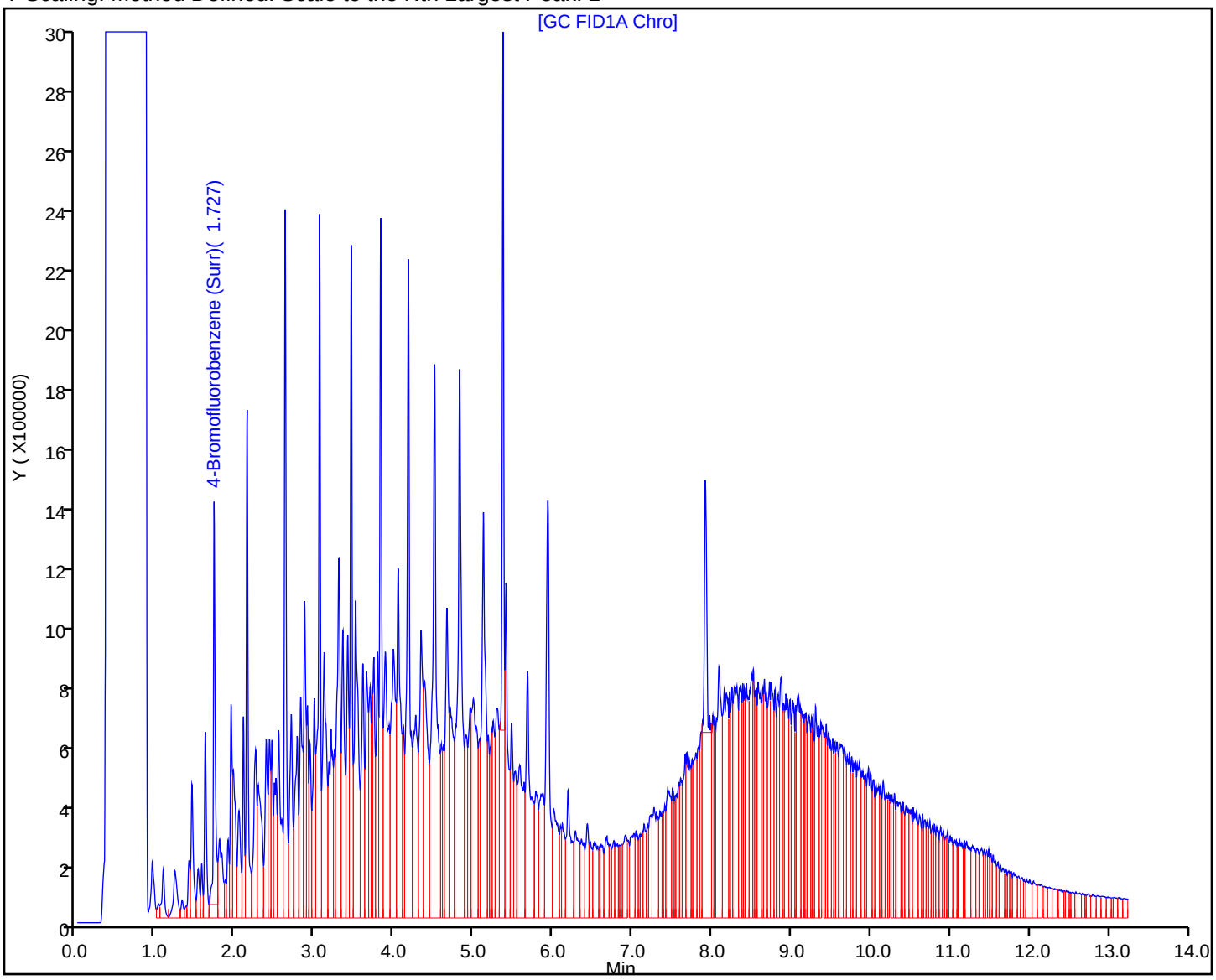
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Sep-2024 14:21:43 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a020.D

Injection Date: 23-Sep-2024 12:05:36 Instrument ID: TAC129

Lims ID: IC

Client ID:

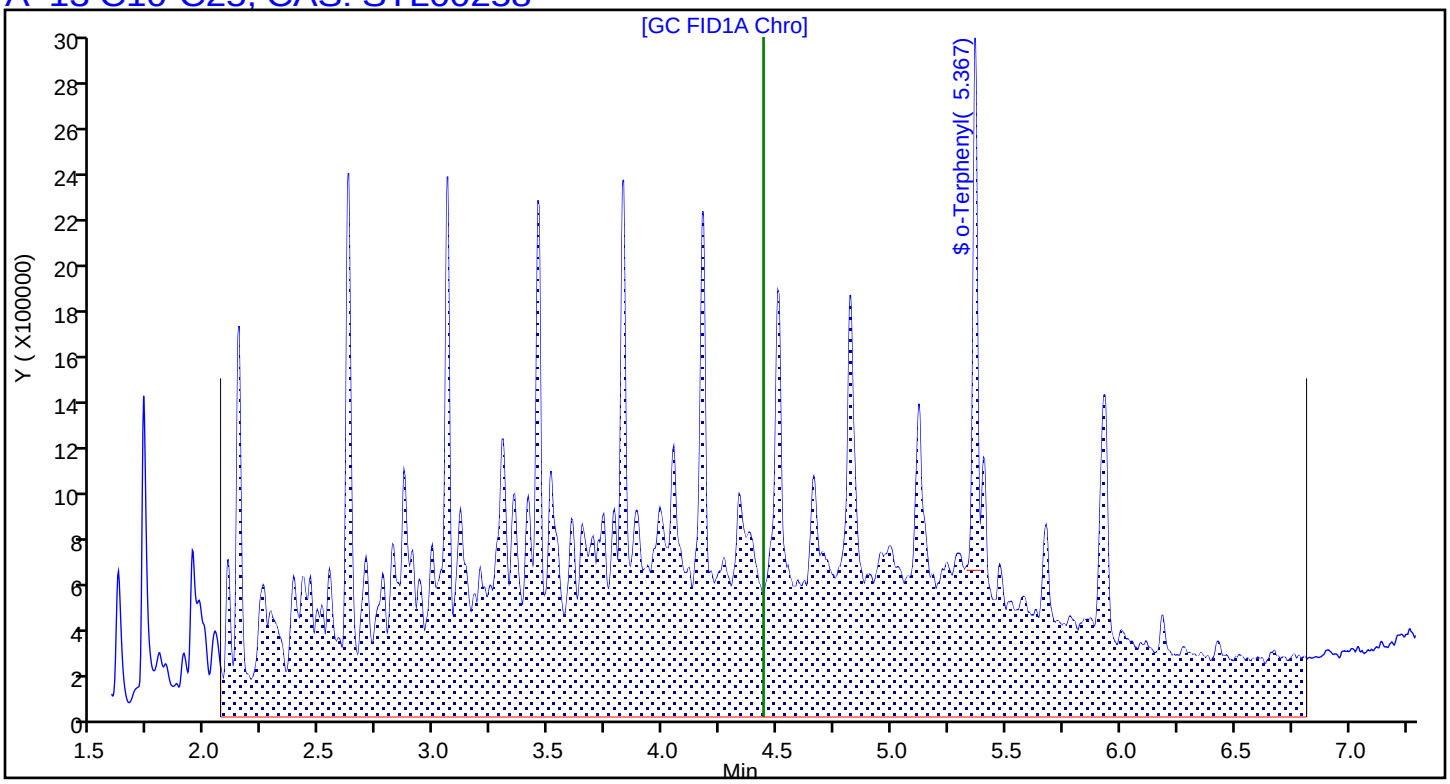
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Column: Detector GC FID1A

A_13 C10-C25, CAS: STL00258



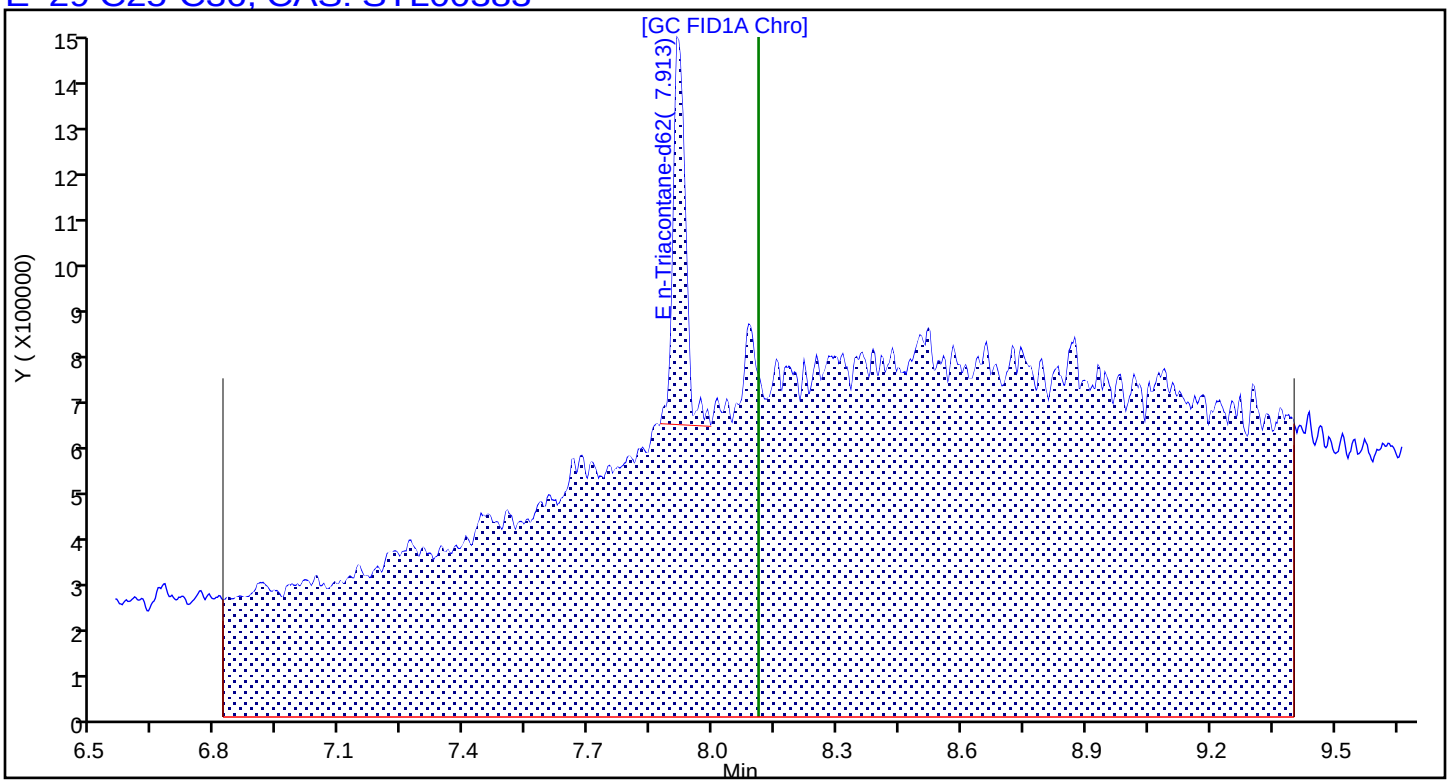
Report Date: 23-Sep-2024 14:21:43 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a020.D

Injection Date:	23-Sep-2024 12:05:36	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:21:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a022.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 23-Sep-2024 12:25:49 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:21:46 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 14:00:21

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.730	1.730	0.000	3948736	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		330339691	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		312338104	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		315345478	2000.0	1944.2	
A	14 C12-C24	4.840	(2.977-6.703)		259743397	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		344080797	NC	NC	
$	17 o-Terphenyl	5.370	5.363	0.007	4998248	41.6	31.0	
A	25 C24-C32	7.620	(6.703-8.537)		98376368	NC	NC	
E	26 n-Triacontane-d62	7.923	7.913	0.010	3174544	29.0	23.4	
A	27 C24-C36	8.053	(6.703-9.403)		169442698	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		169442698	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		166435324	2000.0	1884.1	
A	31 C24-C40	8.545	(6.773-10.317)		223260952	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		190484339	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-IC_2000_00012 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:21:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a022.D

Injection Date: 23-Sep-2024 12:25:49 Instrument ID: TAC129

Lims ID: IC

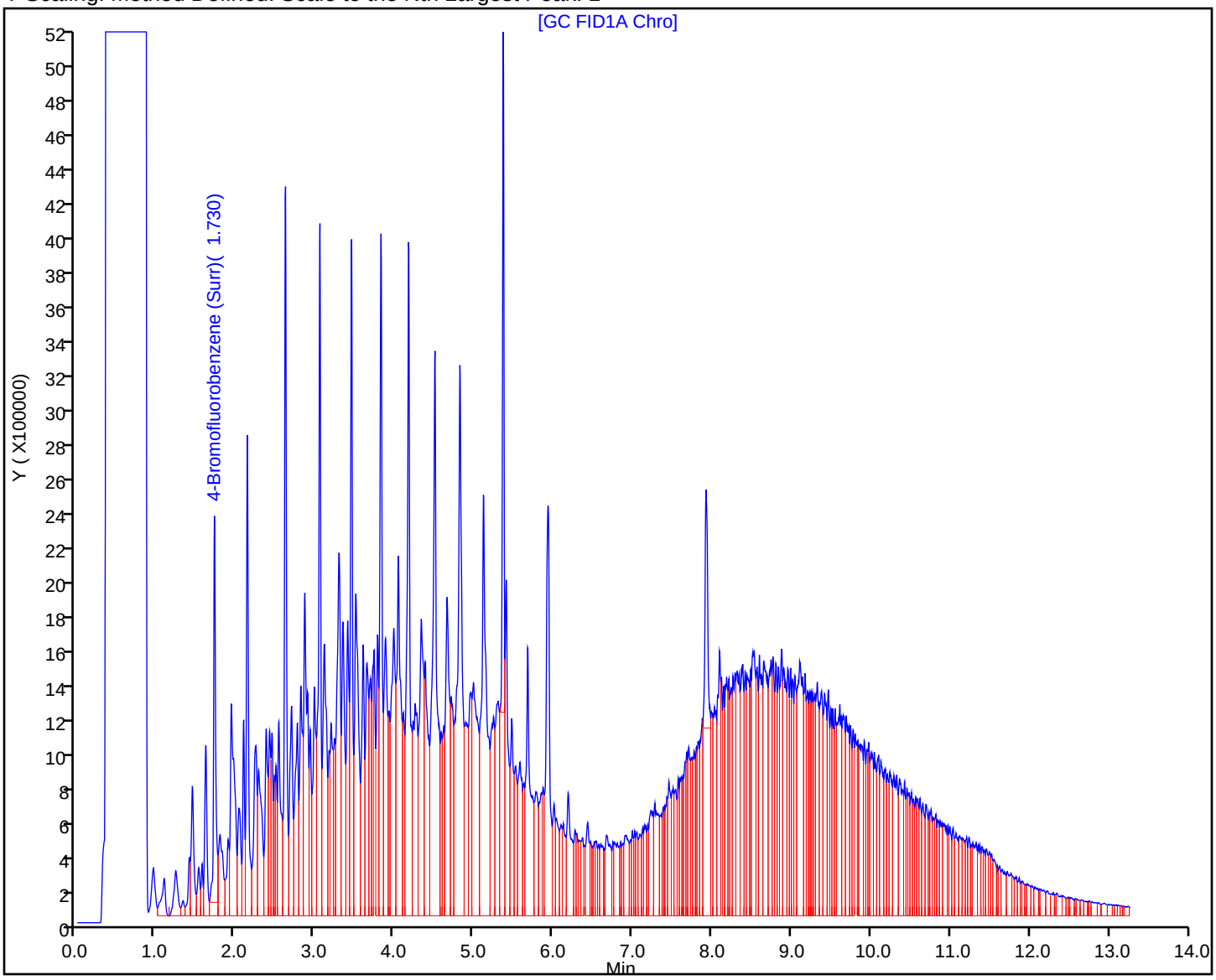
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Sep-2024 14:21:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a022.D

Injection Date: 23-Sep-2024 12:25:49 Instrument ID: TAC129

Lims ID: IC

Client ID:

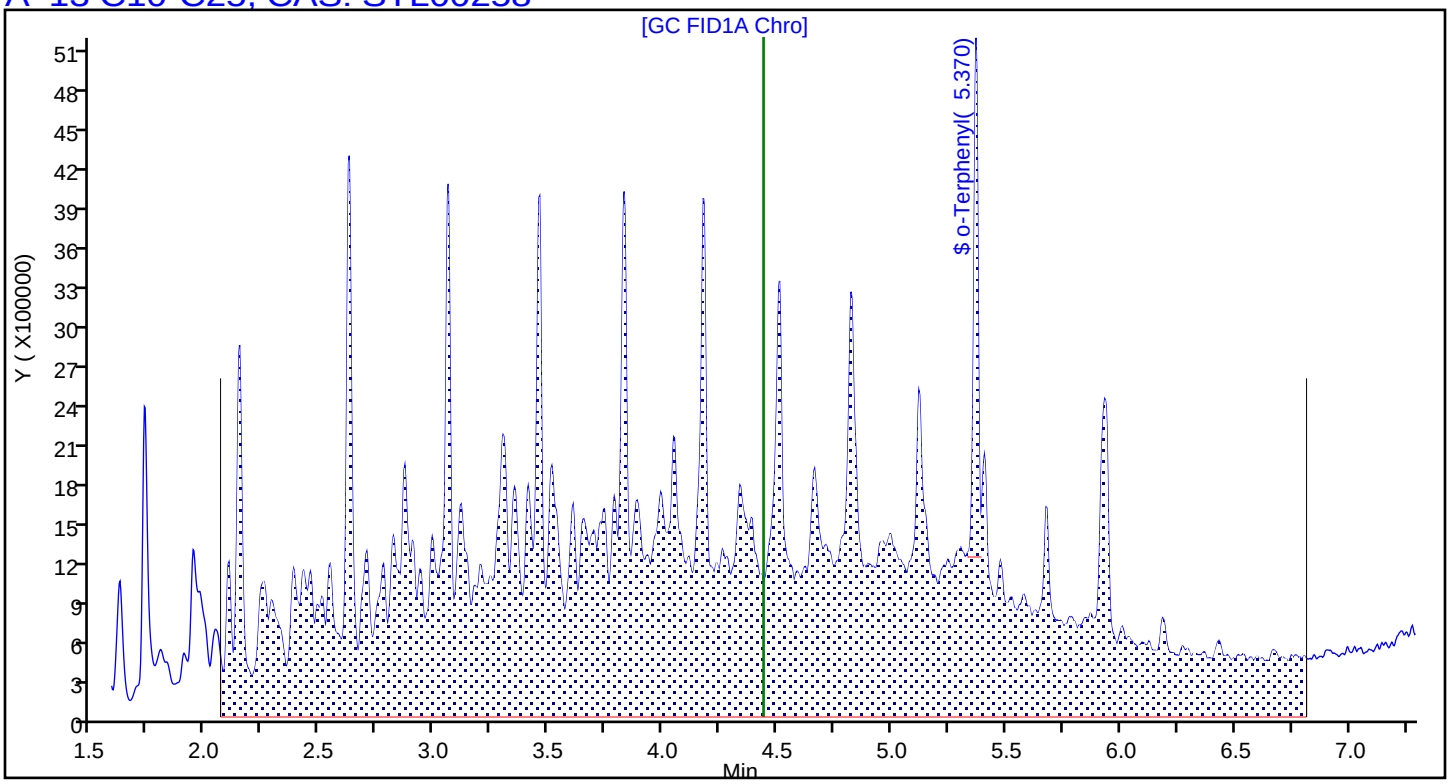
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Column: Detector GC FID1A

A_13 C10-C25, CAS: STL00258



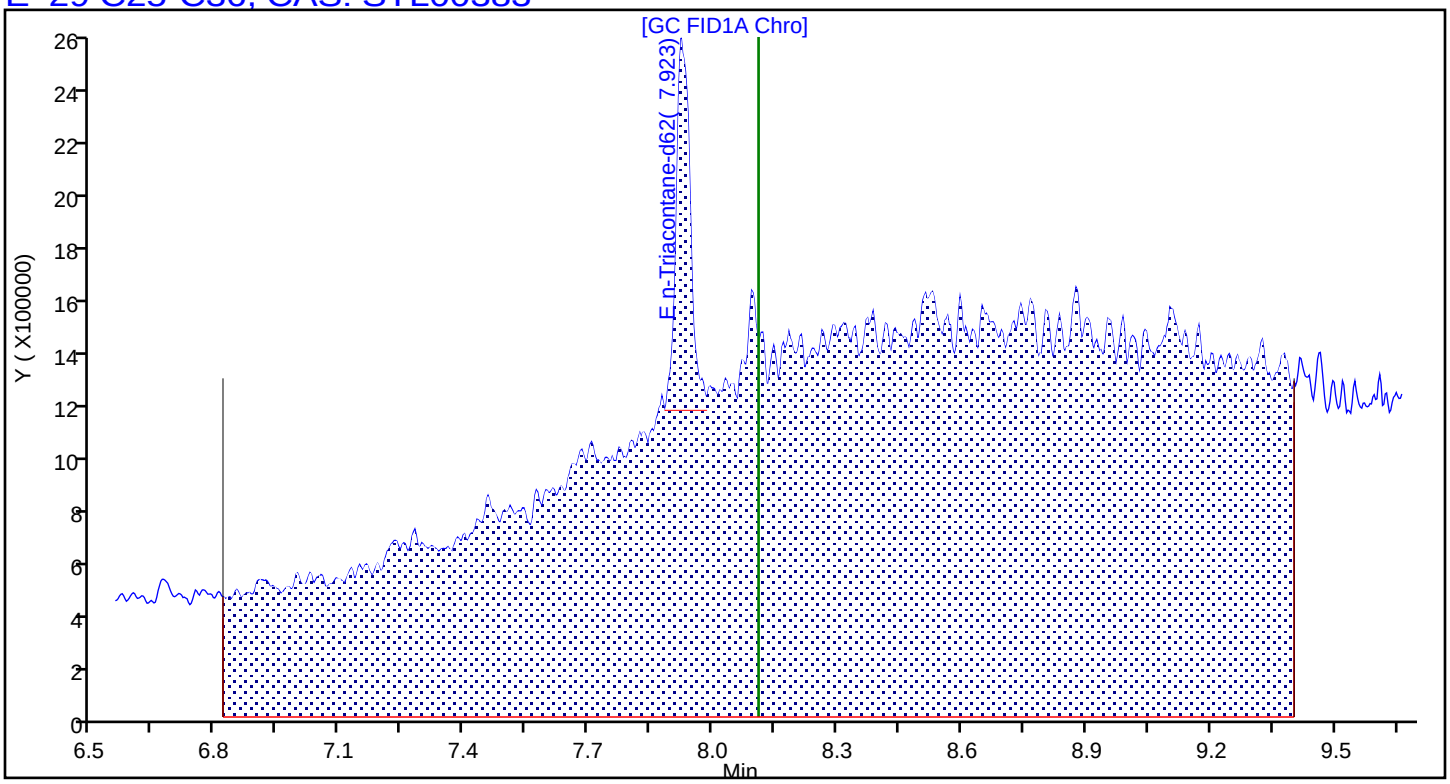
Report Date: 23-Sep-2024 14:21:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a022.D

Injection Date:	23-Sep-2024 12:25:49	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_29 C25-C36, CAS: STL00383



Report Date: 23-Sep-2024 14:22:14 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a024.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 23-Sep-2024 12:46:05 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:22:04 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 14:01:00

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.737	1.730	0.007	9007511	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		787083581	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		744549184	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		751441680	5000.0	4634.3	
A	14 C12-C24	4.840	(2.977-6.703)		619262257	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		818991495	NC	NC	
$	17 o-Terphenyl	5.380	5.363	0.017	11176097	104.0	69.4	
A	25 C24-C32	7.620	(6.703-8.537)		242057169	NC	NC	
E	26 n-Triacontane-d62	7.953	7.913	0.040	8321571	72.5	61.2	M
A	27 C24-C36	8.053	(6.703-9.403)		430409632	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		430409632	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		423517136	5000.0	4801.3	
A	31 C24-C40	8.545	(6.773-10.317)		569131512	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		491744011	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_5000_00024 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:22:14 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a024.D

Injection Date: 23-Sep-2024 12:46:05 Instrument ID: TAC129

Lims ID: IC

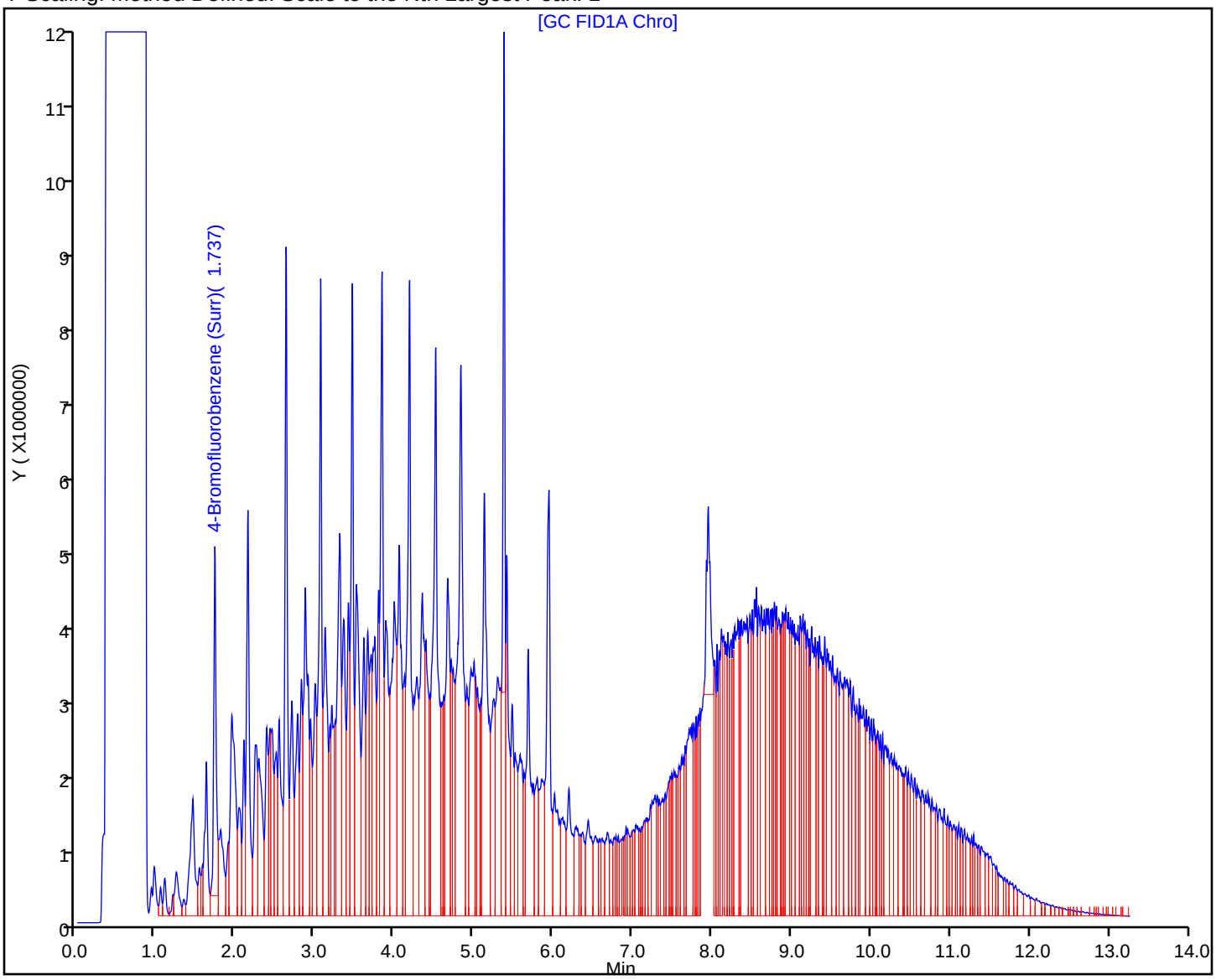
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



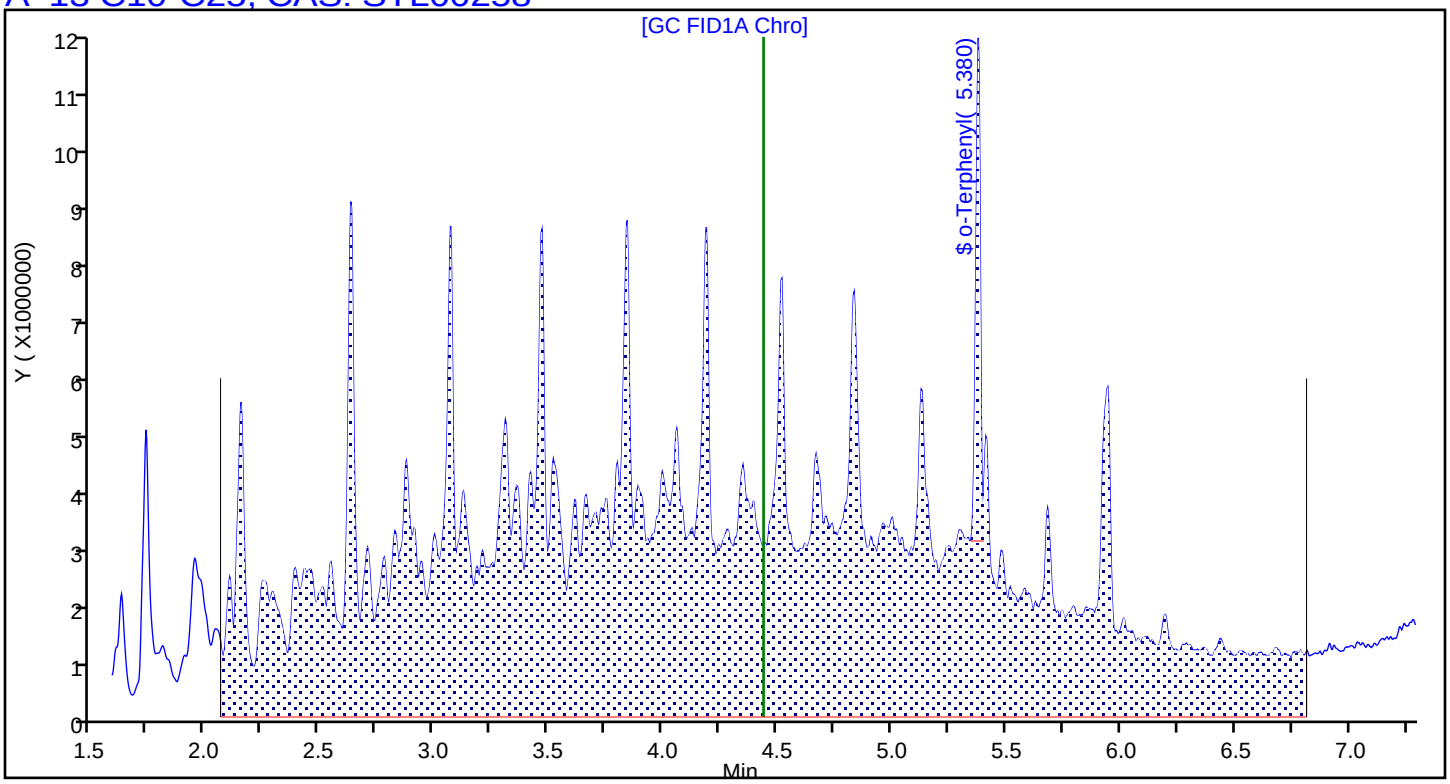
Report Date: 23-Sep-2024 14:22:14 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a024.D

Injection Date:	23-Sep-2024 12:46:05	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

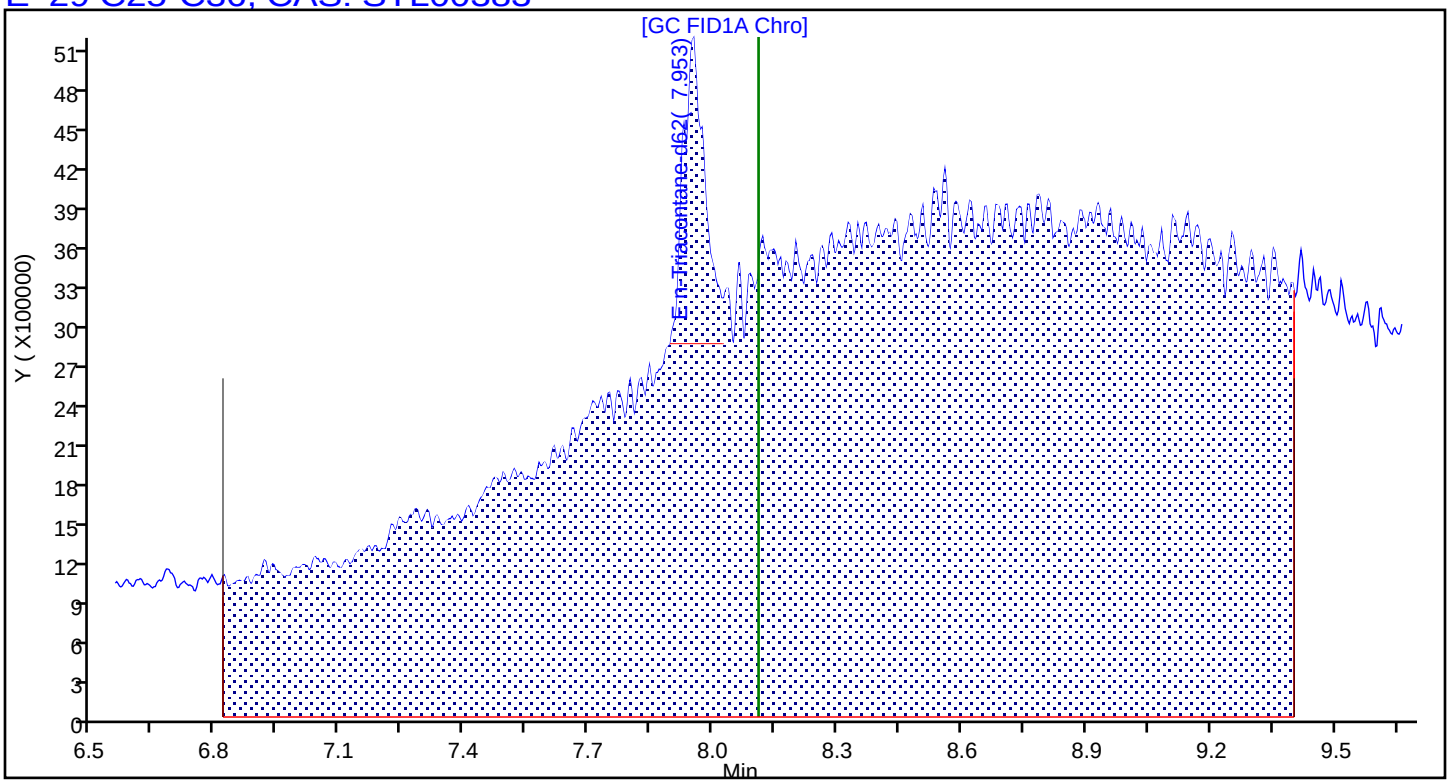


Report Date: 23-Sep-2024 14:22:14 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a024.D				
Injection Date:	23-Sep-2024 12:46:05	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Eurofins Seattle

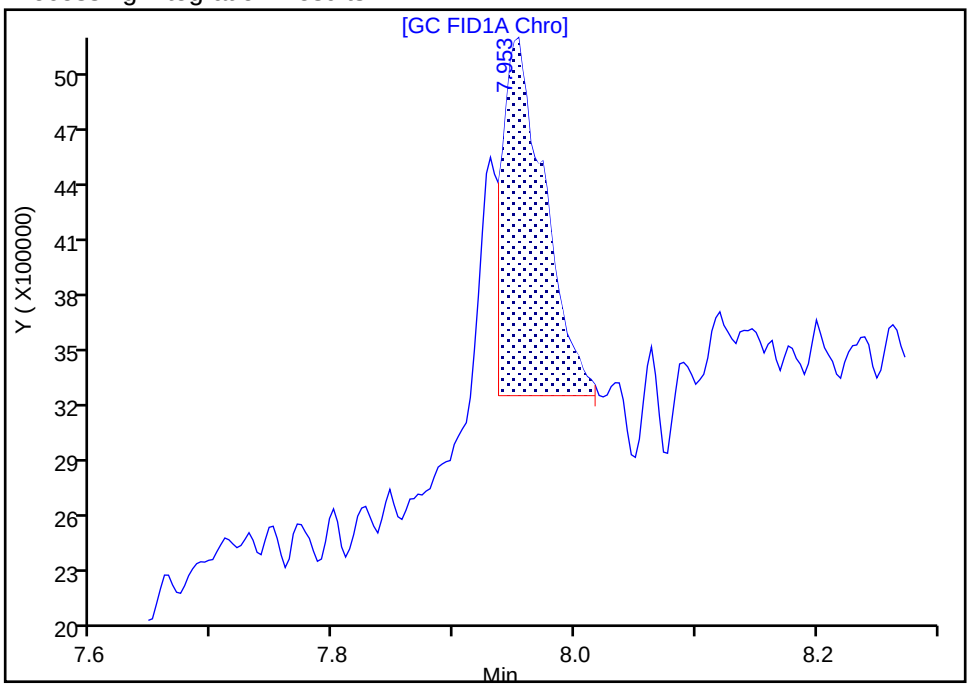
Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a024.D				
Injection Date:	23-Sep-2024 12:46:05	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 26 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

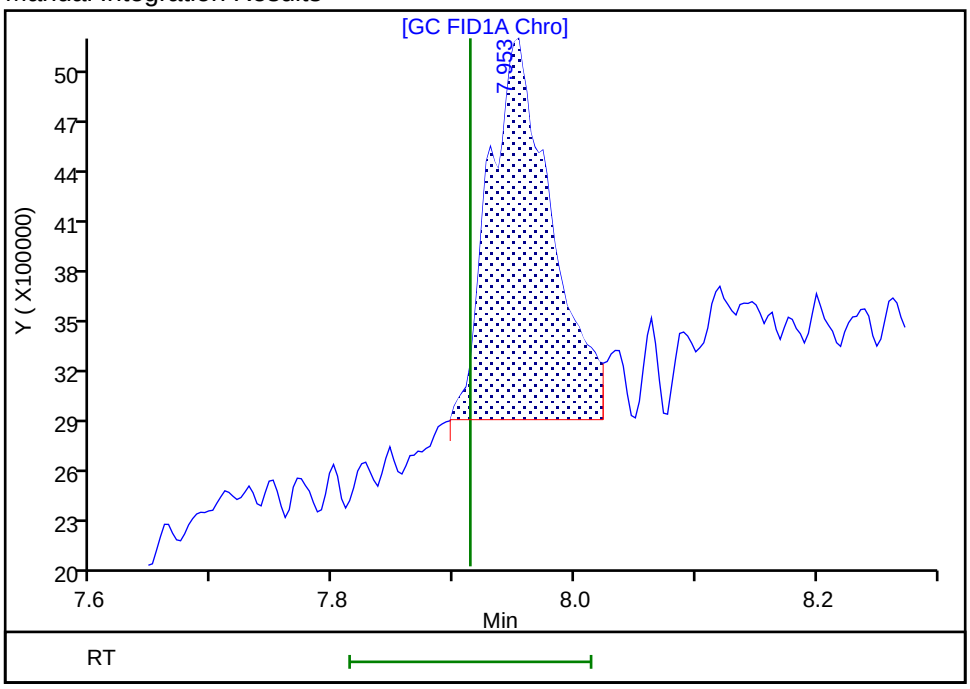
Processing Integration Results

RT: 7.95
Area: 4679220
Amount: 34.923447
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 8321571
Amount: 61.218548
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 14:00:49 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 23-Sep-2024 14:22:28 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 23-Sep-2024 13:06:28 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 14:22:17 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 14:18:05

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.747	1.730	0.017	18945144	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		1585513337	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		1501698048	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		1515843592	10000	9349.4	
A	14 C12-C24	4.840	(2.977-6.703)		1250580870	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		1657949061	NC	NC	
$	17 o-Terphenyl	5.400	5.363	0.037	22254237	208.0	138.2	M
A	25 C24-C32	7.620	(6.703-8.537)		507308900	NC	NC	
E	26 n-Triacontane-d62	7.993	7.913	0.080	19944315	145.0	146.7	M
A	27 C24-C36	8.053	(6.703-9.403)		900984774	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		900984774	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		886839231	10000	10059	
A	31 C24-C40	8.545	(6.773-10.317)		1184232479	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		1022418321	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_10000_00120 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 14:22:28 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Injection Date: 23-Sep-2024 13:06:28 Instrument ID: TAC129

Lims ID: IC

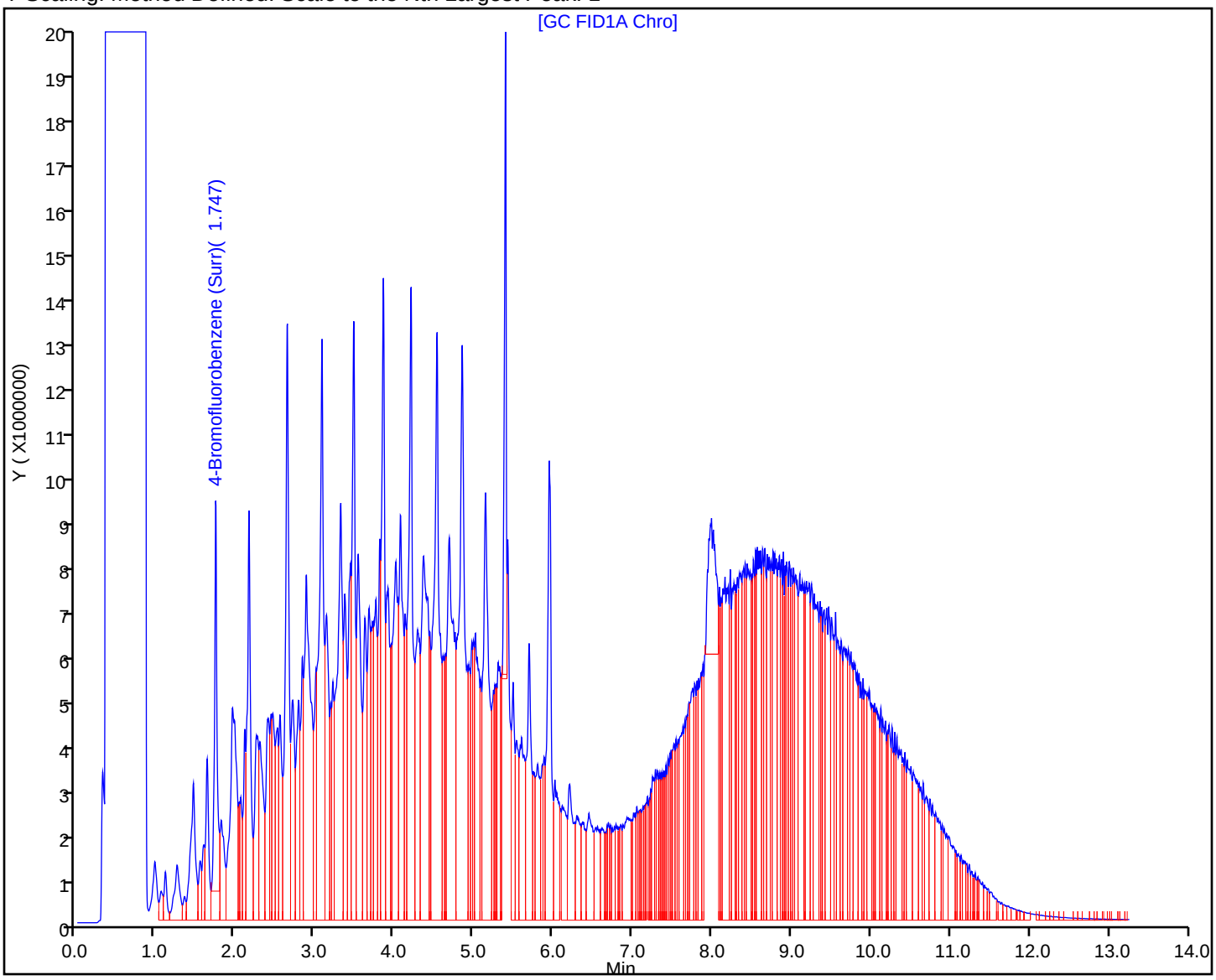
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



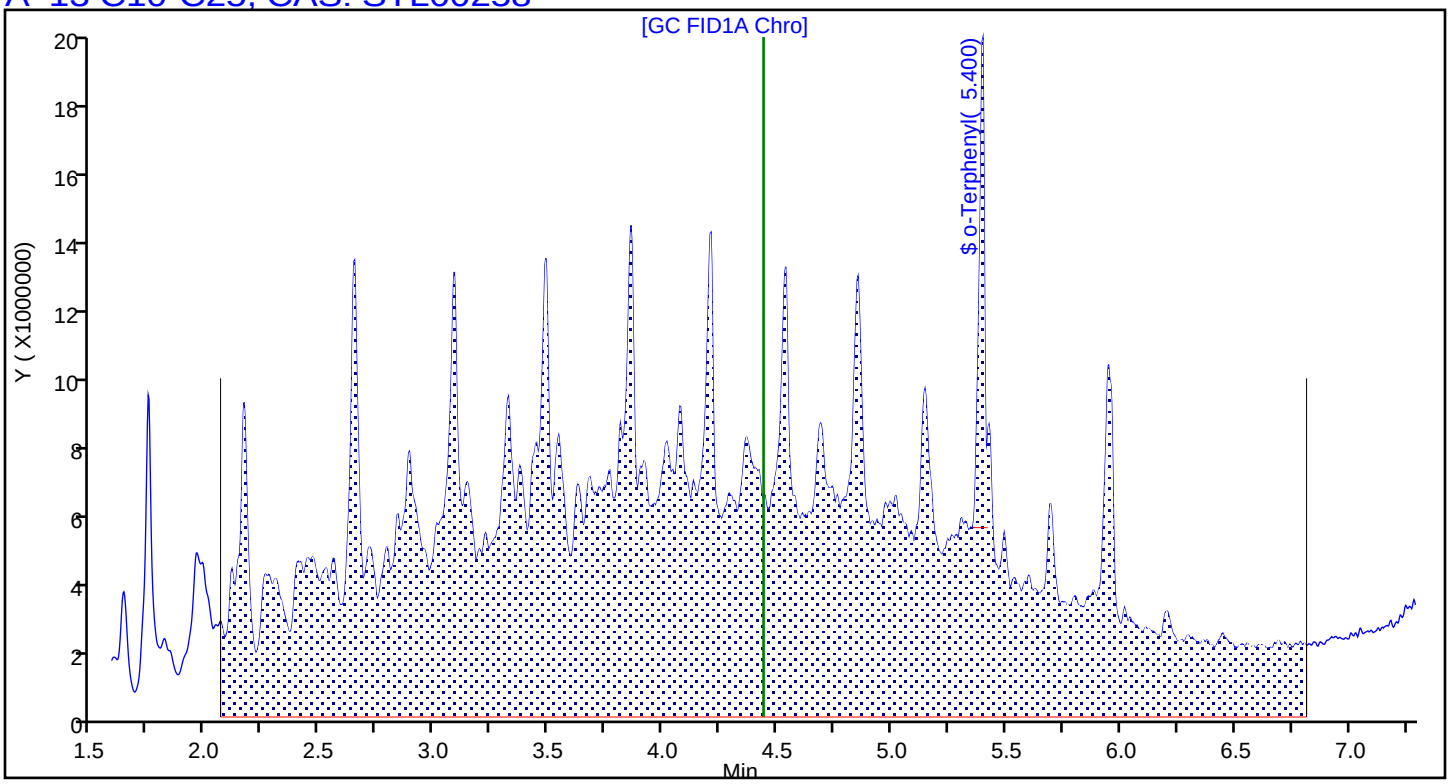
Report Date: 23-Sep-2024 14:22:28 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Injection Date:	23-Sep-2024 13:06:28	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



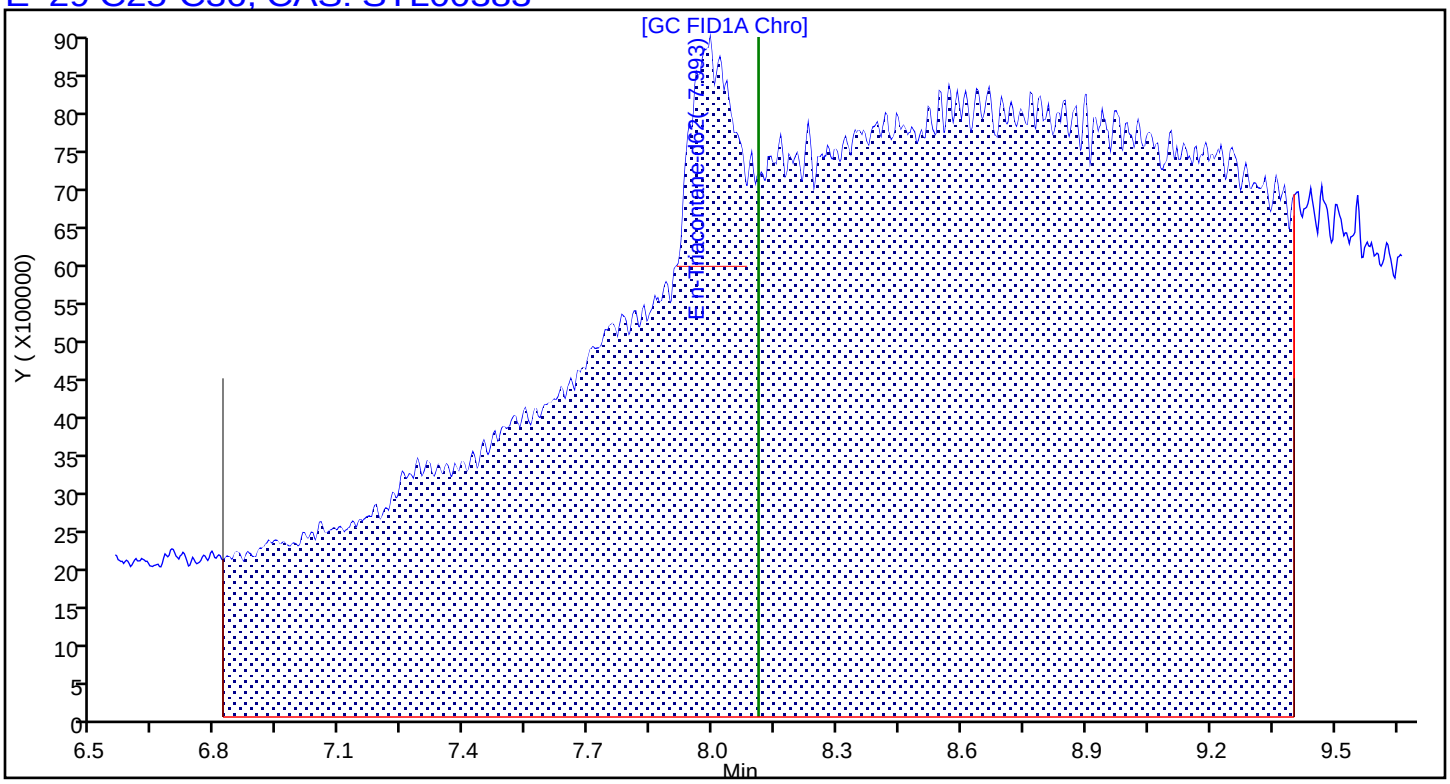
Report Date: 23-Sep-2024 14:22:28 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Injection Date:	23-Sep-2024 13:06:28	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

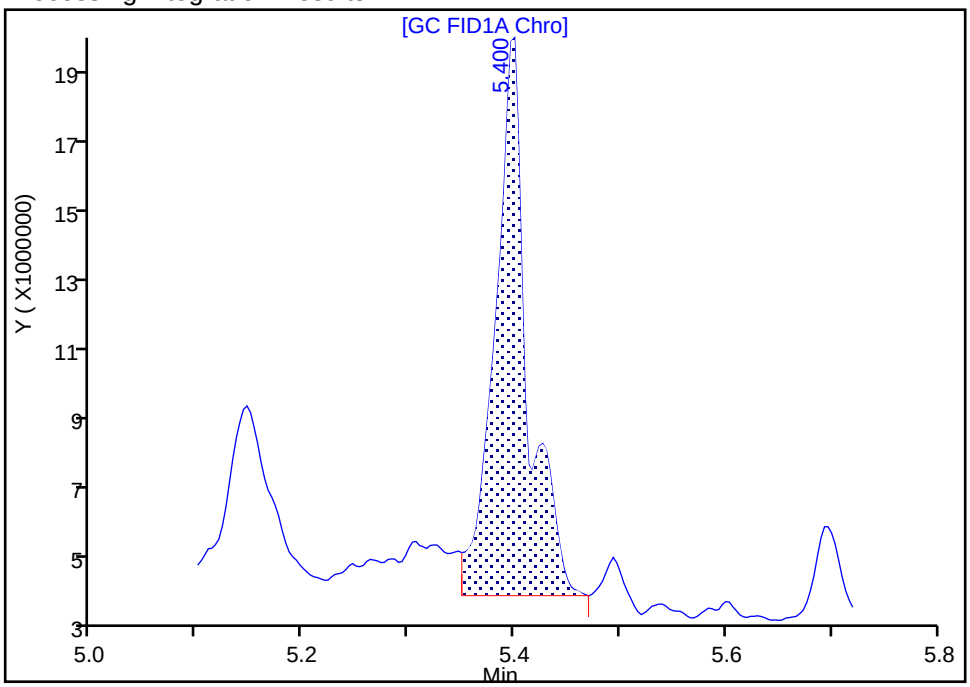
Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Injection Date:	23-Sep-2024 13:06:28	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 17 o-Terphenyl, CAS: 84-15-1

Signal: 1

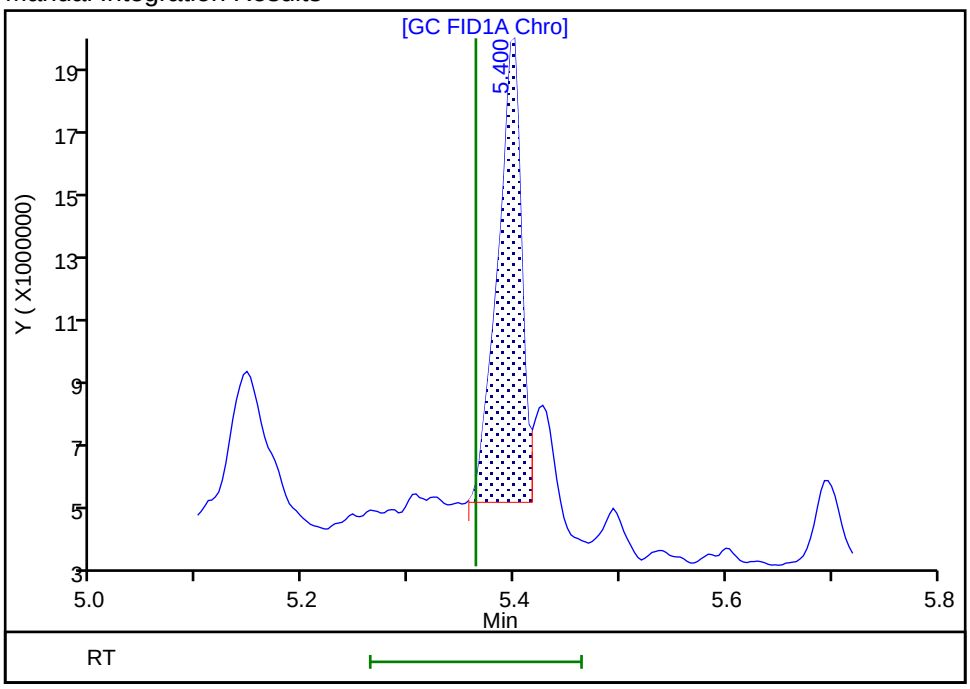
Processing Integration Results

RT: 5.40
Area: 32947424
Amount: 204.9375
Amount Units: ng/uL



Manual Integration Results

RT: 5.40
Area: 22254237
Amount: 138.2209
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 14:01:23 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Seattle

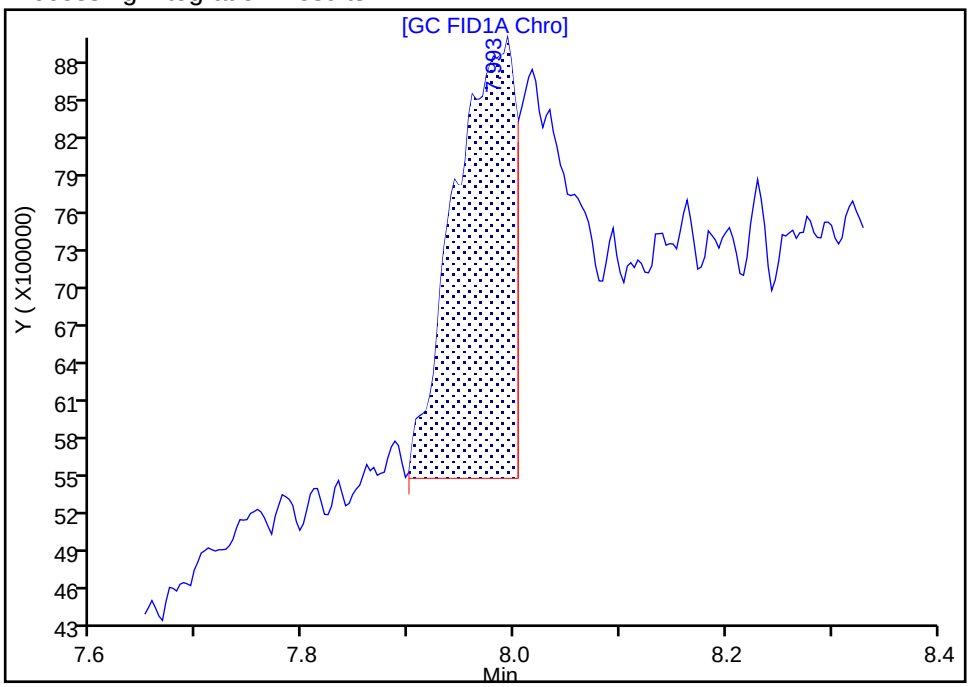
Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D				
Injection Date:	23-Sep-2024 13:06:28	Instrument ID:	TAC129		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 26 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

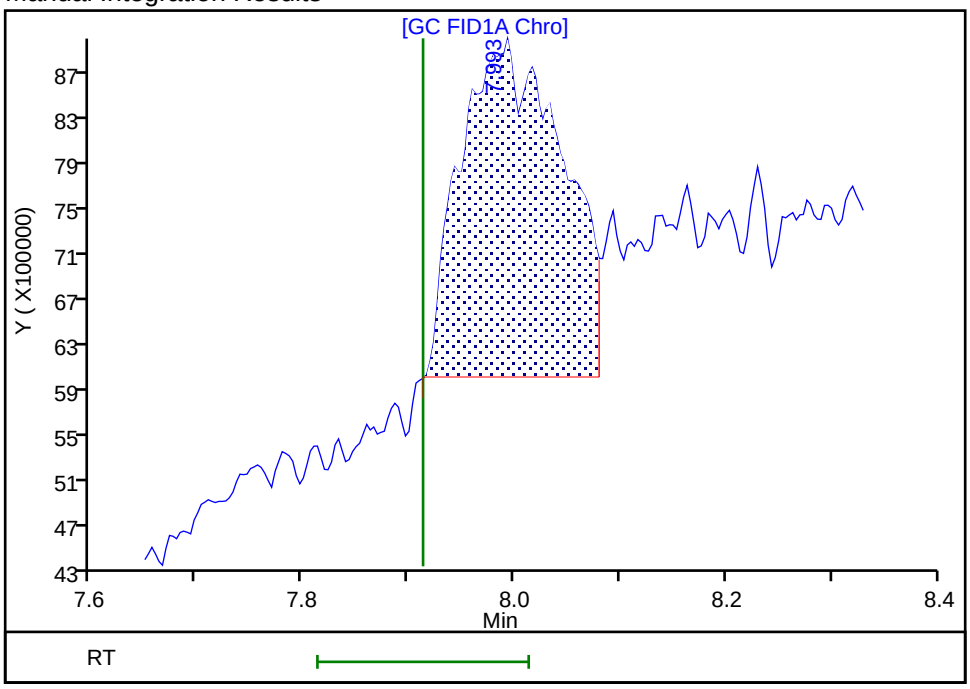
Processing Integration Results

RT: 7.99
Area: 13650581
Amount: 103.4242
Amount Units: ng/uL



Manual Integration Results

RT: 7.99
Area: 19944315
Amount: 146.7225
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 14:01:42 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / C10-C25

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

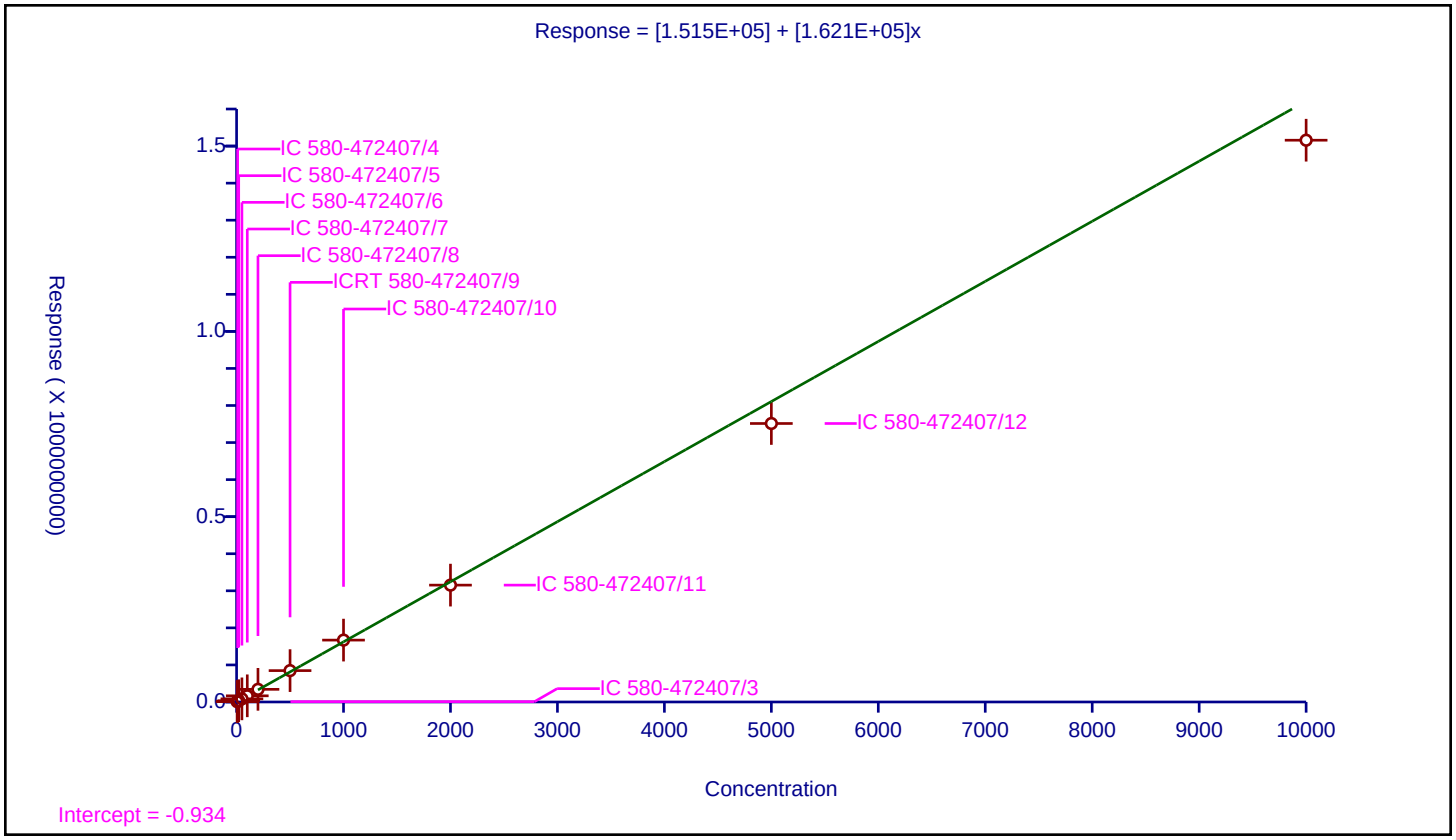
Curve Coefficients

Intercept:	1.515E+05
Slope:	1.621E+05

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472407/3	5.0	955621.0			191124.2	Y
2	IC 580-472407/4	10.0	1773876.0			177387.6	Y
3	IC 580-472407/5	20.0	3428633.0			171431.65	Y
4	IC 580-472407/6	50.0	8441886.0			168837.72	Y
5	IC 580-472407/7	100.0	16686601.0			166866.01	Y
6	IC 580-472407/8	200.0	34126240.0			170631.2	Y
7	ICRT 580-472407/9	500.0	84683641.0			169367.282	Y
8	IC 580-472407/10	1000.0	166981309.0			166981.309	Y
9	IC 580-472407/11	2000.0	315345478.0			157672.739	Y
10	IC 580-472407/12	5000.0	751441680.0			150288.336	Y
11	IC 580-472407/13	10000.0	1515843592.0			151584.3592	Y



Calibration / o-Terphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

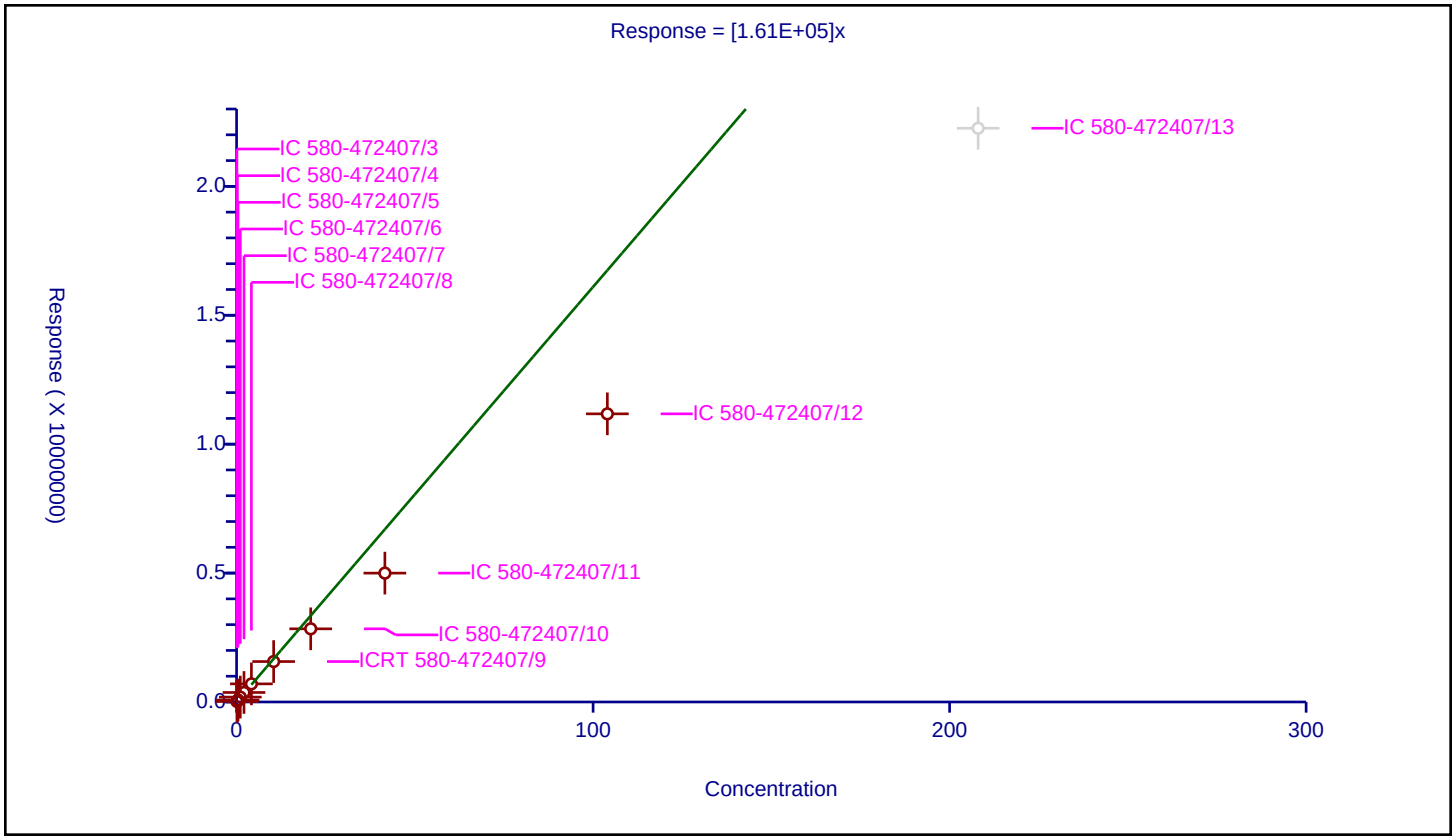
Curve Coefficients

Intercept:	0
Slope:	1.61E+05

Error Coefficients

Relative Standard Deviation:	19.4

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472407/3	0.104	21351.0			205298.076923	Y
2	IC 580-472407/4	0.208	37488.0			180230.769231	Y
3	IC 580-472407/5	0.416	75297.0			181002.403846	Y
4	IC 580-472407/6	1.04	189593.0			182300.961538	Y
5	IC 580-472407/7	2.08	368802.0			177308.653846	Y
6	IC 580-472407/8	4.16	703246.0			169049.519231	Y
7	ICRT 580-472407/9	10.4	1568476.0			150815.0	Y
8	IC 580-472407/10	20.8	2837757.0			136430.625	Y
9	IC 580-472407/11	41.6	4998248.0			120150.192308	Y
10	IC 580-472407/12	104.0	11176097.0			107462.471154	Y
11	IC 580-472407/13	208.0	22254237.0			106991.524038	N



Calibration / n-Triacontane-d62

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

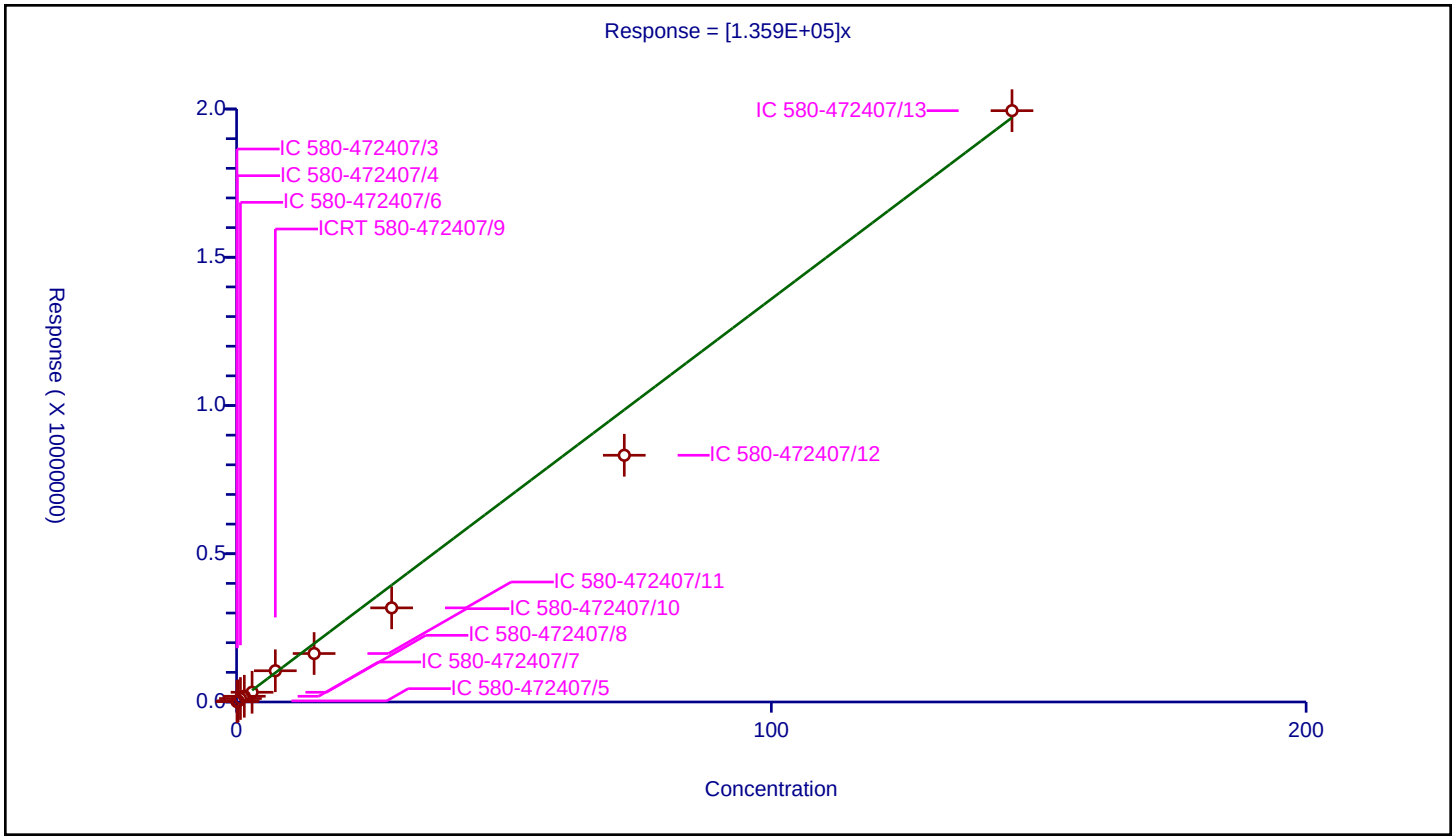
Curve Coefficients

Intercept:	0
Slope:	1.359E+05

Error Coefficients

Relative Standard Deviation:	17.3

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472407/3	0.0725	13036.0			179806.896552	Y
2	IC 580-472407/4	0.145	23392.0			161324.137931	Y
3	IC 580-472407/5	0.29	37091.0			127900.0	Y
4	IC 580-472407/6	0.725	116234.0			160322.758621	Y
5	IC 580-472407/7	1.45	192863.0			133008.965517	Y
6	IC 580-472407/8	2.9	327748.0			113016.551724	Y
7	ICRT 580-472407/9	7.25	1053875.0			145362.068966	Y
8	IC 580-472407/10	14.5	1634416.0			112718.344828	Y
9	IC 580-472407/11	29.0	3174544.0			109467.034483	Y
10	IC 580-472407/12	72.5	8321571.0			114780.289655	Y
11	IC 580-472407/13	145.0	19944315.0			137547.0	Y



Calibration / C25-C36

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

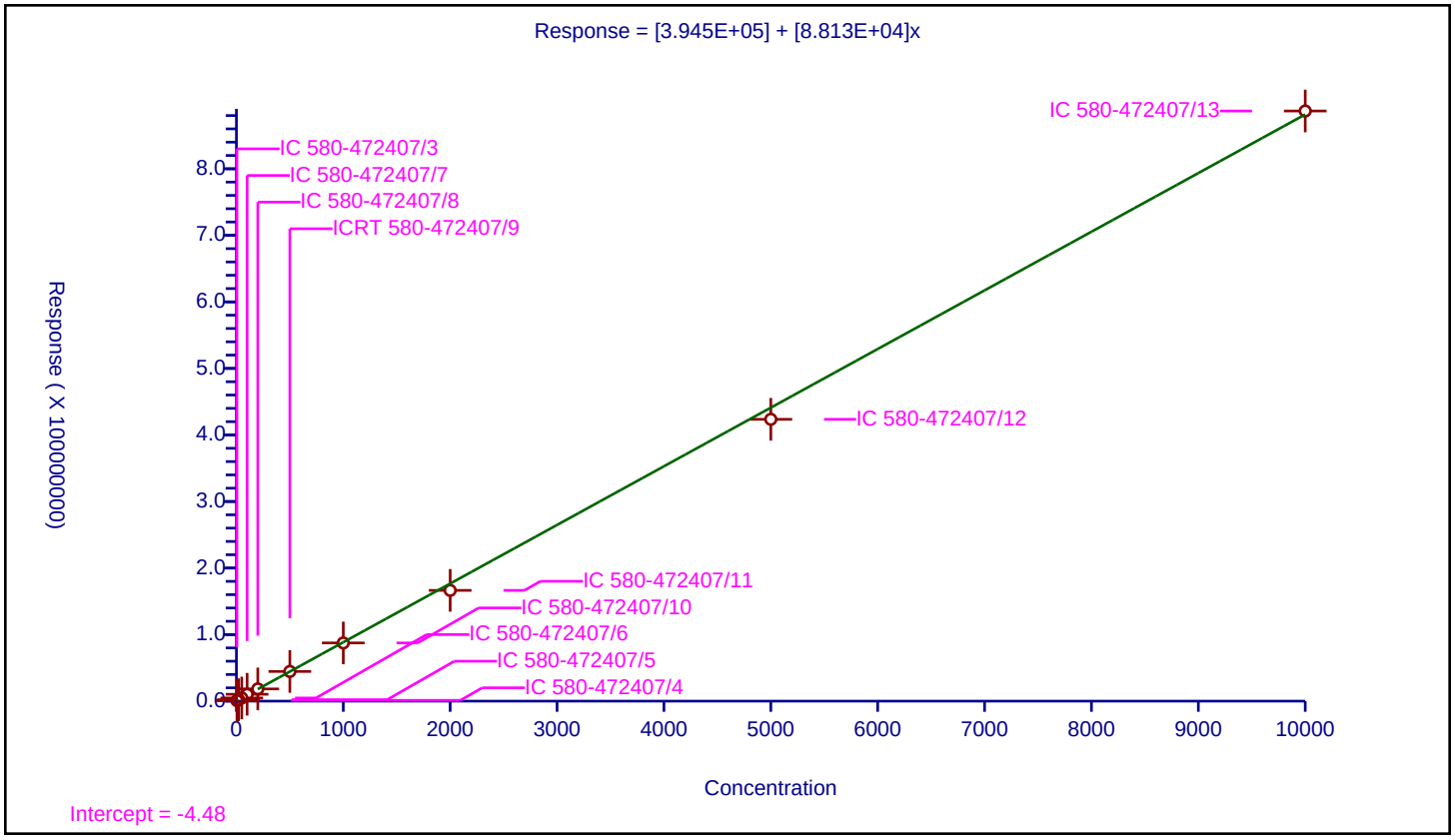
Curve Coefficients

Intercept:	3.945E+05
Slope:	8.813E+04

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472407/3	5.0	843072.0			168614.4	Y
2	IC 580-472407/4	10.0	1236710.0			123671.0	Y
3	IC 580-472407/5	20.0	2150351.0			107517.55	Y
4	IC 580-472407/6	50.0	4722860.0			94457.2	Y
5	IC 580-472407/7	100.0	10339008.0			103390.08	Y
6	IC 580-472407/8	200.0	18363184.0			91815.92	Y
7	ICRT 580-472407/9	500.0	44600690.0			89201.38	Y
8	IC 580-472407/10	1000.0	87475142.0			87475.142	Y
9	IC 580-472407/11	2000.0	166435324.0			83217.662	Y
10	IC 580-472407/12	5000.0	423517136.0			84703.4272	Y
11	IC 580-472407/13	10000.0	886839231.0			88683.9231	Y



FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472180

SDG No.: SP9 & Background

Instrument ID: TAC129_R | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2024 14:16 | Calibration End Date: 09/20/2024 17:59 | Calibration ID: 39564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472180/3	09202024a013.D
Level 2	IC 580-472180/4	09202024a015.D
Level 3	IC 580-472180/5	09202024a017.D
Level 4	IC 580-472180/6	09202024a019.D
Level 5	IC 580-472180/7	09202024a021.D
Level 6	IC 580-472180/8	09202024a023.D
Level 7	ICRT 580-472180/9	09202024a025.D
Level 8	IC 580-472180/10	09202024a027.D
Level 9	IC 580-472180/11	09202024a029.D
Level 10	IC 580-472180/12	09202024a031.D
Level 11	IC 580-472180/13	09202024a033.D

ANALYTE	LVL 1 LVL 11	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
DRO (nC10-<nC25)	4.563 4.563	4.563	4.563	4.563	4.563	4.563	4.563	4.563	4.563	4.563	2.203 - 6.923	4.563
RRO (nC25-nC36)	+++++ 8.255	8.255	8.255	8.255	8.255	8.255	8.255	8.255	8.255	8.255	6.923 - 9.587	8.255
o-Terphenyl	5.507 5.547	5.507	5.503	5.503	5.507	5.507	5.507	5.510	5.517	5.527	5.407 - 5.607	5.513
n-Triacontane-d62	8.067 8.127	8.063	8.063	8.063	8.067	8.067	8.070	8.077	8.083	8.103	7.870 - 8.270	8.077

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472180

SDG No.: SP9 & Background

Instrument ID: TAC129_R | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2024 14:16 | Calibration End Date: 09/20/2024 17:59 | Calibration ID: 39564

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472180/3	09202024a013.D
Level 2	IC 580-472180/4	09202024a015.D
Level 3	IC 580-472180/5	09202024a017.D
Level 4	IC 580-472180/6	09202024a019.D
Level 5	IC 580-472180/7	09202024a021.D
Level 6	IC 580-472180/8	09202024a023.D
Level 7	ICRT 580-472180/9	09202024a025.D
Level 8	IC 580-472180/10	09202024a027.D
Level 9	IC 580-472180/11	09202024a029.D
Level 10	IC 580-472180/12	09202024a031.D
Level 11	IC 580-472180/13	09202024a033.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7 LVL 11	LVL 4 LVL 8		B	M1	M2								
DRO (nC10-<nC25)	233844 163302 151813	167031 165945 150021	167859 158850 154152	167432 161108	Lin2	335796.017	155527.083				6.2		20.0	0.9960		0.9950
RRO (nC25-nC36)	+++++ 90427 81363	104562 88771 85044	97629 83139 86947	91878 85188	Lin2	205433.221	85615.9488				3.0		20.0	0.9990		0.9950
o-Terphenyl	178337 170583 126425	164726 168266 126805	170500 148923 133710	173810 144176	Ave		155114.535				12.7		25.0			
n-Triacontane-d62	152083 139423 128941	136497 138236 143335	143634 131985 193243	157178 146590	Ave		146467.739				12.0		25.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
DIESEL RANGE ORGANICS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Seattle | Job No.: 580-144975-1 | Analy Batch No.: 472180

SDG No.: SP9 & Background

Instrument ID: TAC129_R | GC Column: | ID: | Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2024 14:16 | Calibration End Date: 09/20/2024 17:59 | Calibration ID: 39564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-472180/3	09202024a013.D
Level 2	IC 580-472180/4	09202024a015.D
Level 3	IC 580-472180/5	09202024a017.D
Level 4	IC 580-472180/6	09202024a019.D
Level 5	IC 580-472180/7	09202024a021.D
Level 6	IC 580-472180/8	09202024a023.D
Level 7	ICRT 580-472180/9	09202024a025.D
Level 8	IC 580-472180/10	09202024a027.D
Level 9	IC 580-472180/11	09202024a029.D
Level 10	IC 580-472180/12	09202024a031.D
Level 11	IC 580-472180/13	09202024a033.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
DRO (nC10-<nC25)	Lin2	1169219 33189034 1541515612	1670308 79424768	3357173 161107717	8371609 303625537	16330189 750106667	5.00 200 10000	10.0 500	20.0 1000	50.0 2000	100 5000
RRO (nC25-nC36)	Lin2	+++++ 17754150 869468393	1045620 41569280	1952571 85187660	4593878 162725678	9042655 425219858	+++++ 200 10000	10.0 500	20.0 1000	50.0 2000	100 5000
o-Terphenyl	Ave	18547 699985 27811585	34263 1548804	70928 2998865	180762 5259280	354812 13187745	0.104 4.16 208	0.208 10.4	0.416 20.8	1.04 41.6	2.08 104
n-Triacontane-d62	Ave	11026 400885 28020238	19792 956890	41654 2125561	113954 3739300	202163 10391773	0.0725 2.90 145	0.145 7.25	0.290 14.5	0.725 29.0	1.45 72.5

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Report Date: 23-Sep-2024 07:58:39 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a013.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Sep-2024 14:16:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:39 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:31:55

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.900	1.890	0.010	11168	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		1266632	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		1156888	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		1169219	5.00	5.36	
A	16 C12-C24	4.975	(3.107-6.843)		952175	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		1339835	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	18547	0.1040	0.1196	M
A	27 C24-C32	7.775	(6.843-8.707)		486832	NC	NC	
E	28 n-Triacontane-d62	8.067	8.070	-0.003	11026	0.0725	0.0753	
A	30 C24-C36	8.215	(6.843-9.587)		842728	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		842728	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		830398	5.00	7.30	
A	33 C24-C40	8.710	(6.913-10.507)		1273666	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		1066223	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_5_00010 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:58:39 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a013.D

Injection Date: 20-Sep-2024 14:16:00 Instrument ID: TAC129_R

Lims ID: IC

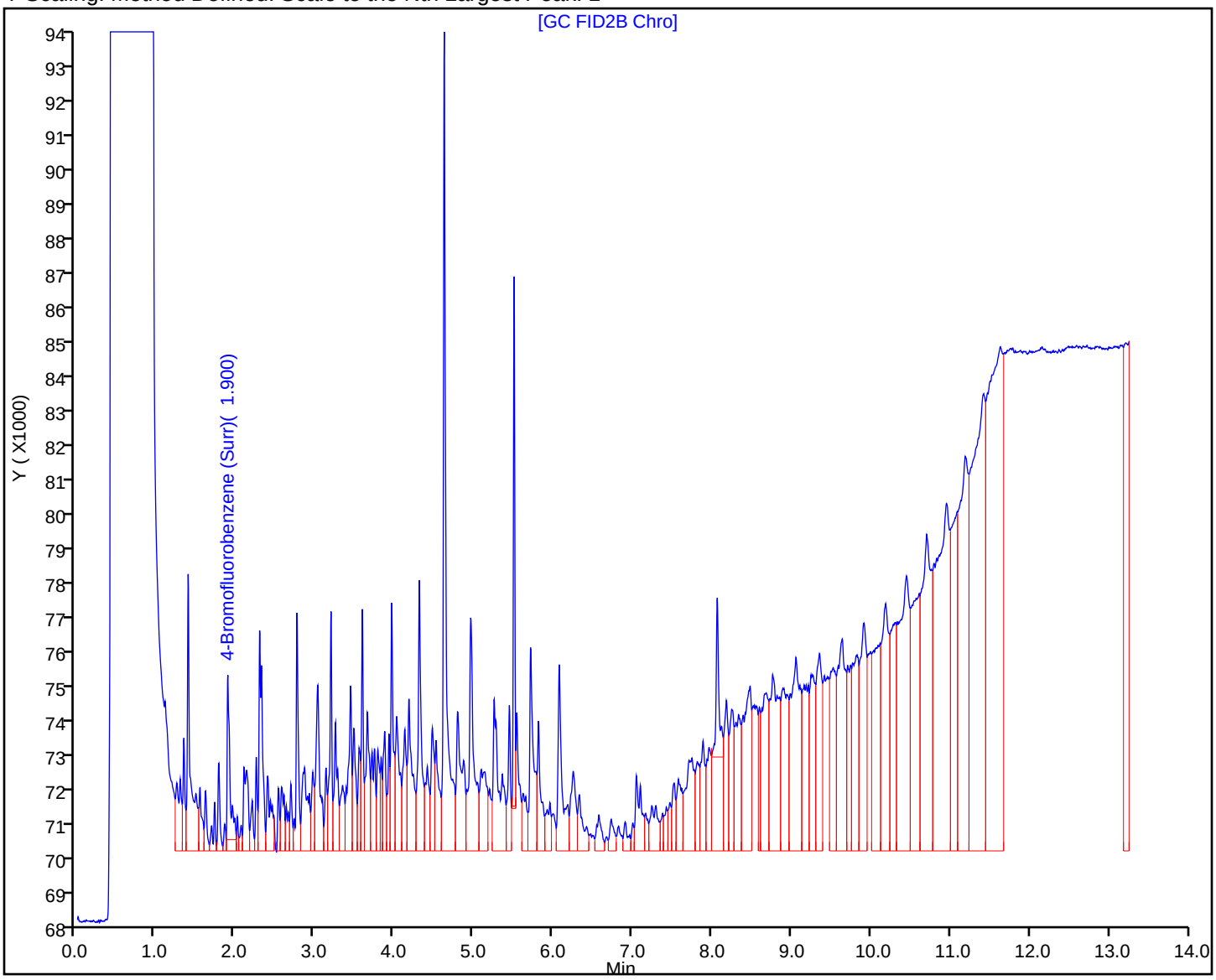
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

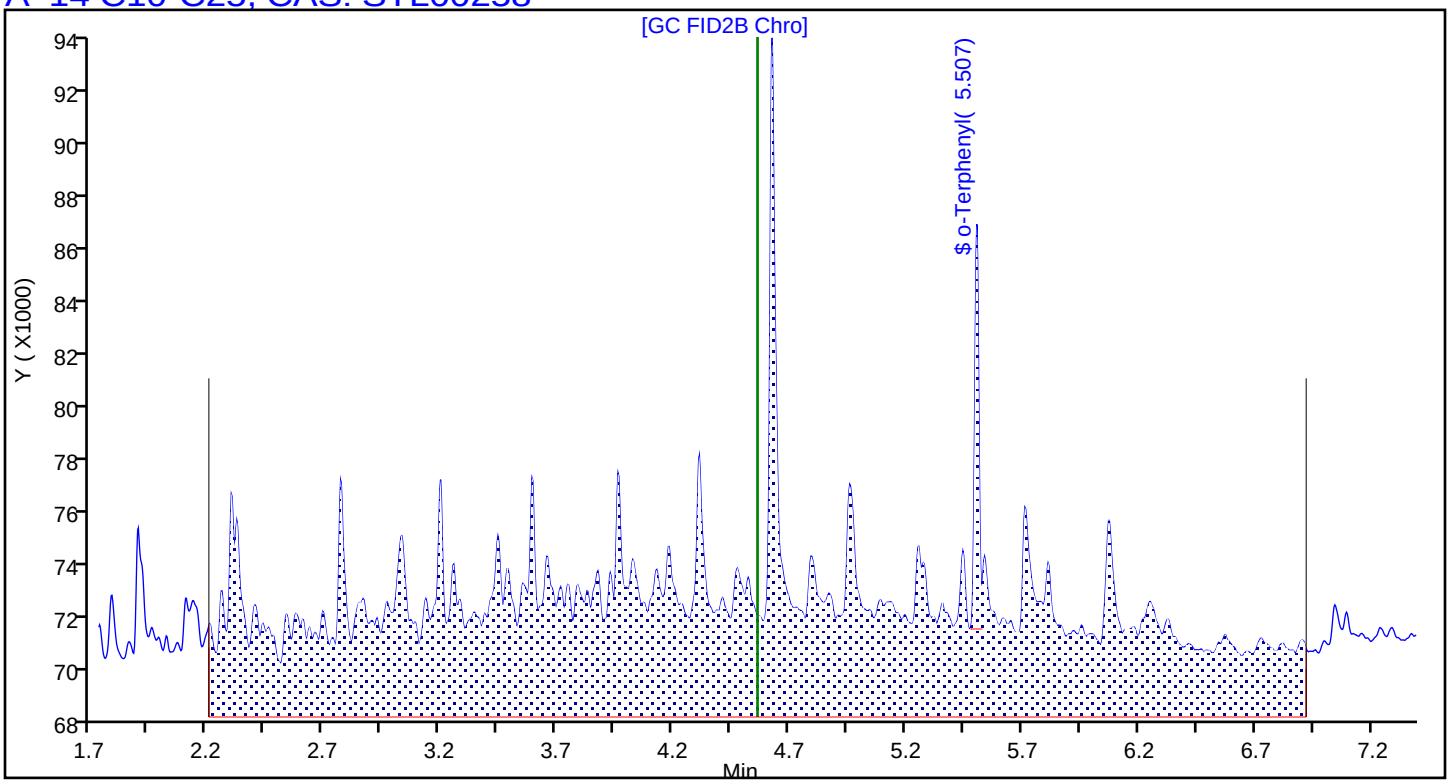


Report Date: 23-Sep-2024 07:58:39 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a013.D				
Injection Date:	20-Sep-2024 14:16:00	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

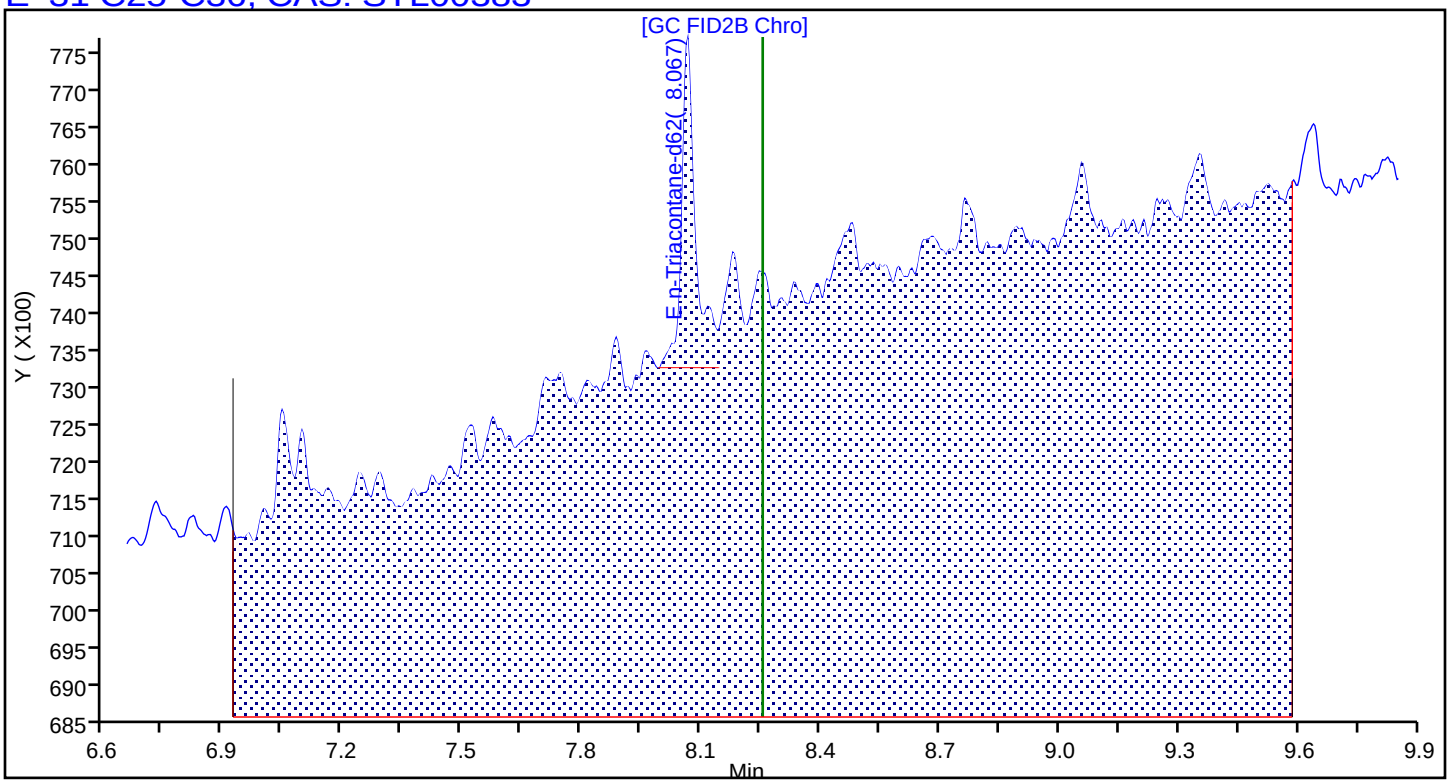


Report Date: 23-Sep-2024 07:58:39 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a013.D				
Injection Date:	20-Sep-2024 14:16:00	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Eurofins Seattle

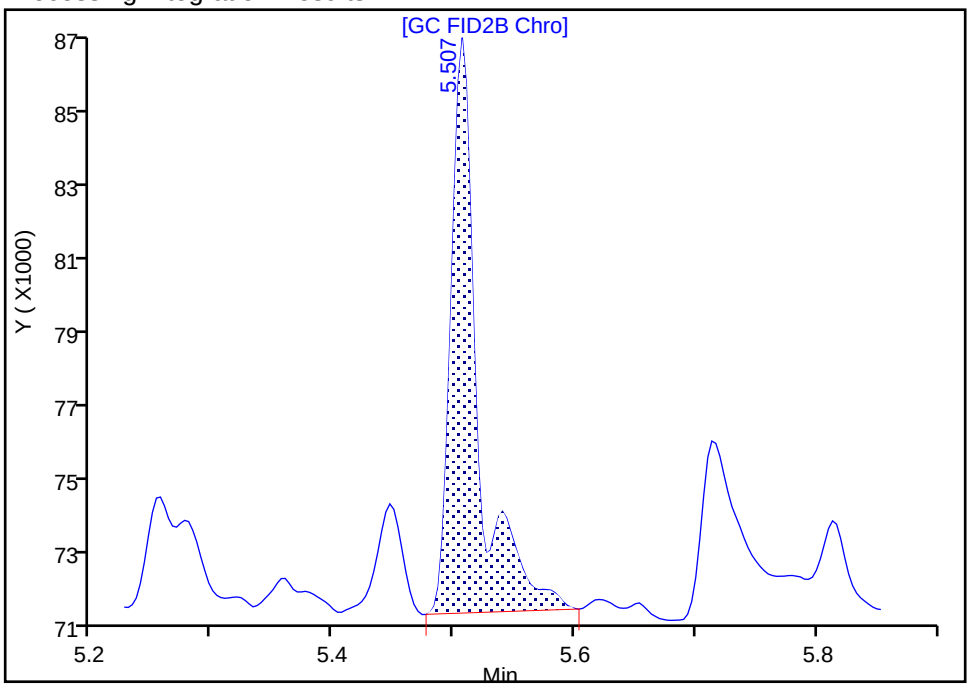
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a013.D
Injection Date: 20-Sep-2024 14:16:00 Instrument ID: TAC129_R
Lims ID: IC
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

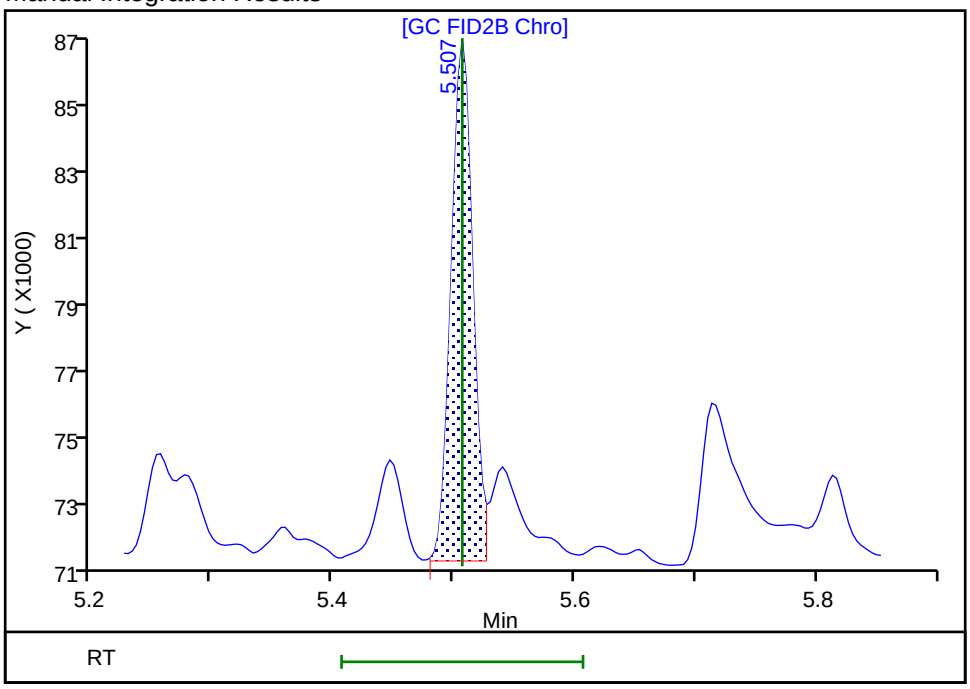
Processing Integration Results

RT: 5.51
Area: 23238
Amount: 0.112051
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 18547
Amount: 0.119570
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:45:36 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a015.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Sep-2024 14:35:37 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:42 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:31:31

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.897	1.890	0.007	15135	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		1767307	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		1658415	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		1670308	10.0	8.58	
A	16 C12-C24	4.975	(3.107-6.843)		1381188	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		1860907	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	34263	0.2080	0.2209	M
A	27 C24-C32	7.775	(6.843-8.707)		606856	NC	NC	
E	28 n-Triacontane-d62	8.063	8.070	-0.007	19792	0.1450	0.1351	
A	30 C24-C36	8.215	(6.843-9.587)		1057513	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		1057513	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		1045620	10.0	9.81	
A	33 C24-C40	8.710	(6.913-10.507)		1525567	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		1298356	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_10_00017 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:58:42 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a015.D

Injection Date: 20-Sep-2024 14:35:37 Instrument ID: TAC129_R

Lims ID: IC

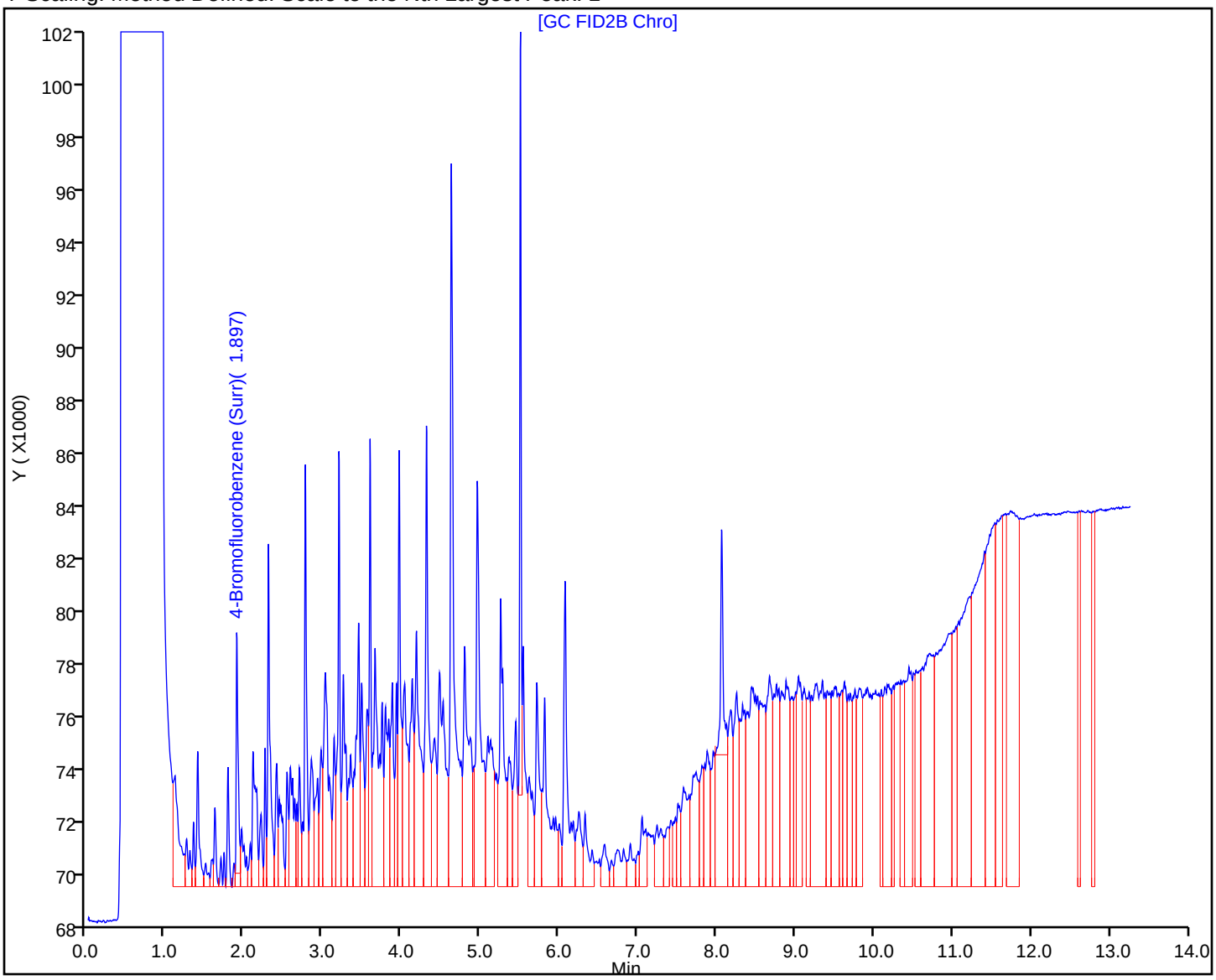
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

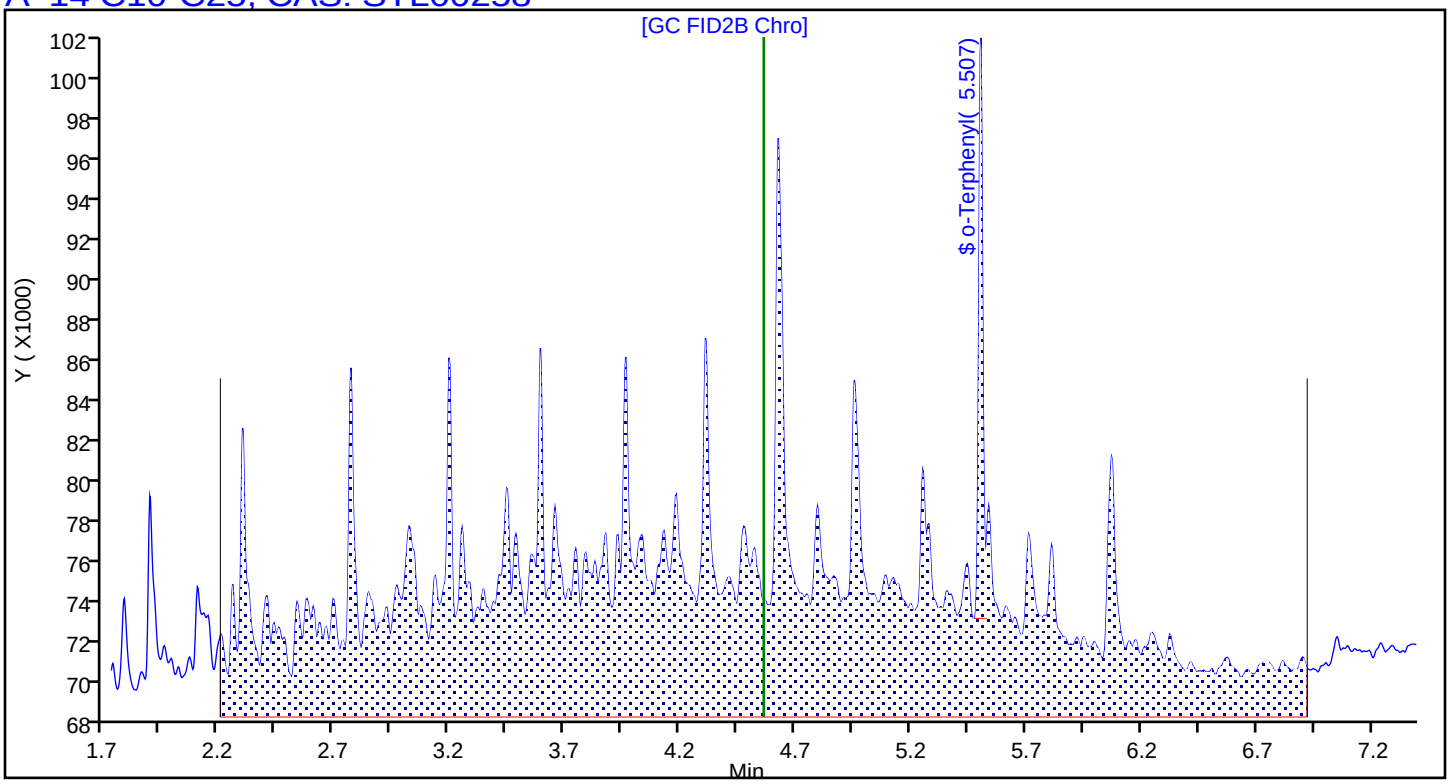


Report Date: 23-Sep-2024 07:58:42 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a015.D				
Injection Date:	20-Sep-2024 14:35:37	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

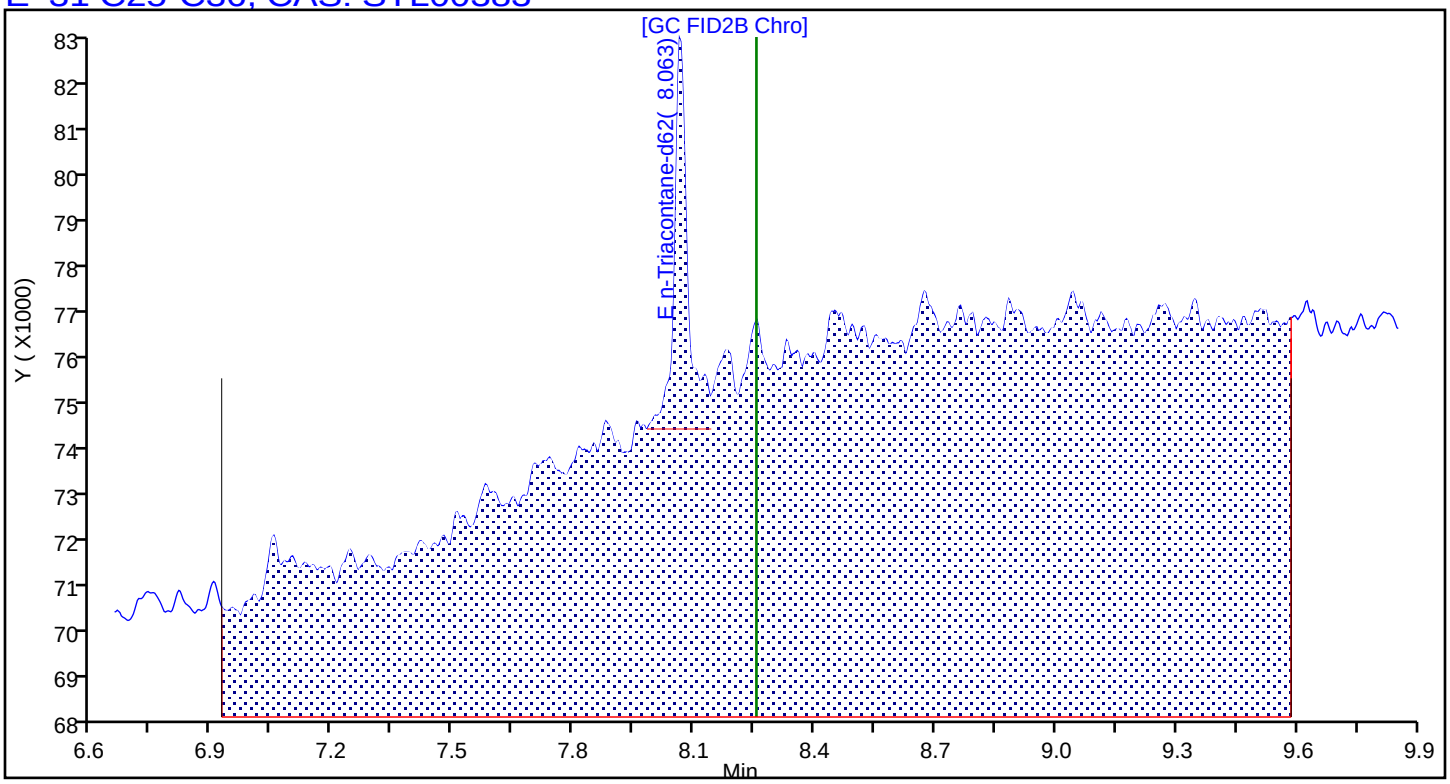


Report Date: 23-Sep-2024 07:58:42 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a015.D				
Injection Date:	20-Sep-2024 14:35:37	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

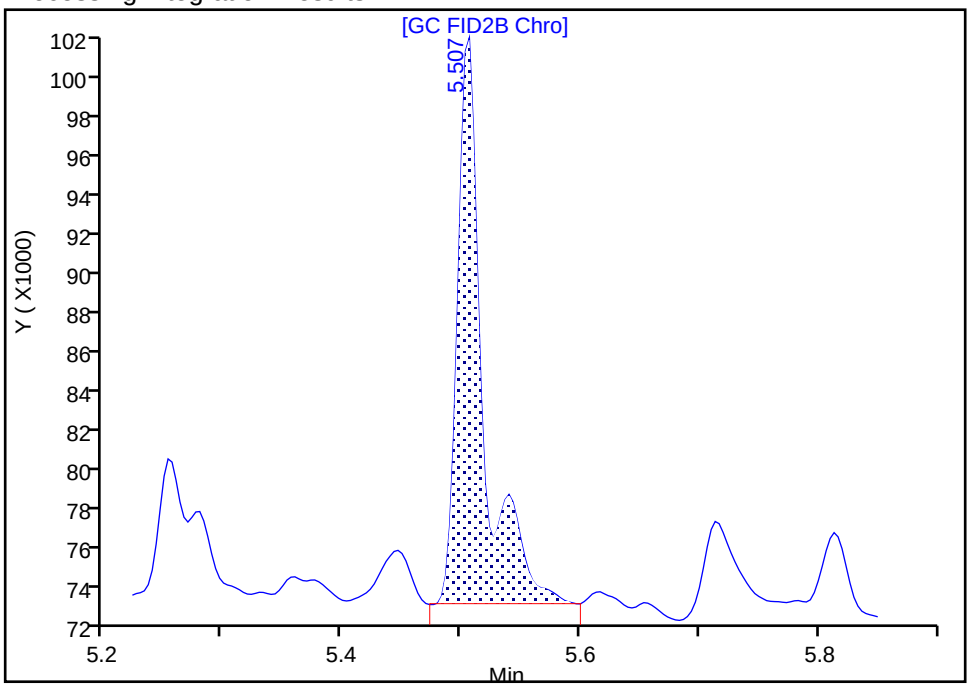
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a015.D
Injection Date: 20-Sep-2024 14:35:37 Instrument ID: TAC129_R
Lims ID: IC
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

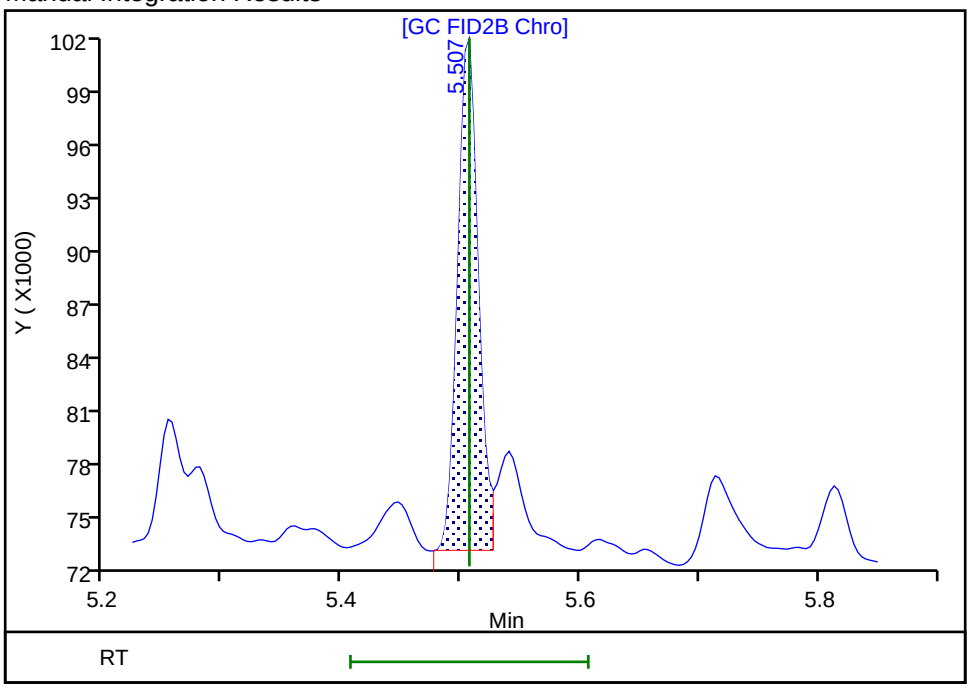
Processing Integration Results

RT: 5.51
Area: 42924
Amount: 0.211150
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 34263
Amount: 0.220888
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:46:12 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 23-Sep-2024 07:58:46 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a017.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Sep-2024 14:55:17 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:46 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:32:37

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.893	1.890	0.003	38183	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		3533170	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		3331106	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		3357173	20.0	19.4	
A	16 C12-C24	4.975	(3.107-6.843)		2785148	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		3721897	NC	NC	
$	19 o-Terphenyl	5.503	5.507	-0.004	70928	0.4160	0.4573	M
A	27 C24-C32	7.775	(6.843-8.707)		1166010	NC	NC	
E	28 n-Triacontane-d62	8.063	8.070	-0.007	41654	0.2900	0.2844	
A	30 C24-C36	8.215	(6.843-9.587)		1978638	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		1978638	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		1952571	20.0	20.4	
A	33 C24-C40	8.710	(6.913-10.507)		2701791	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		2284089	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_20_00030 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:58:46 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a017.D

Injection Date: 20-Sep-2024 14:55:17 Instrument ID: TAC129_R

Lims ID: IC

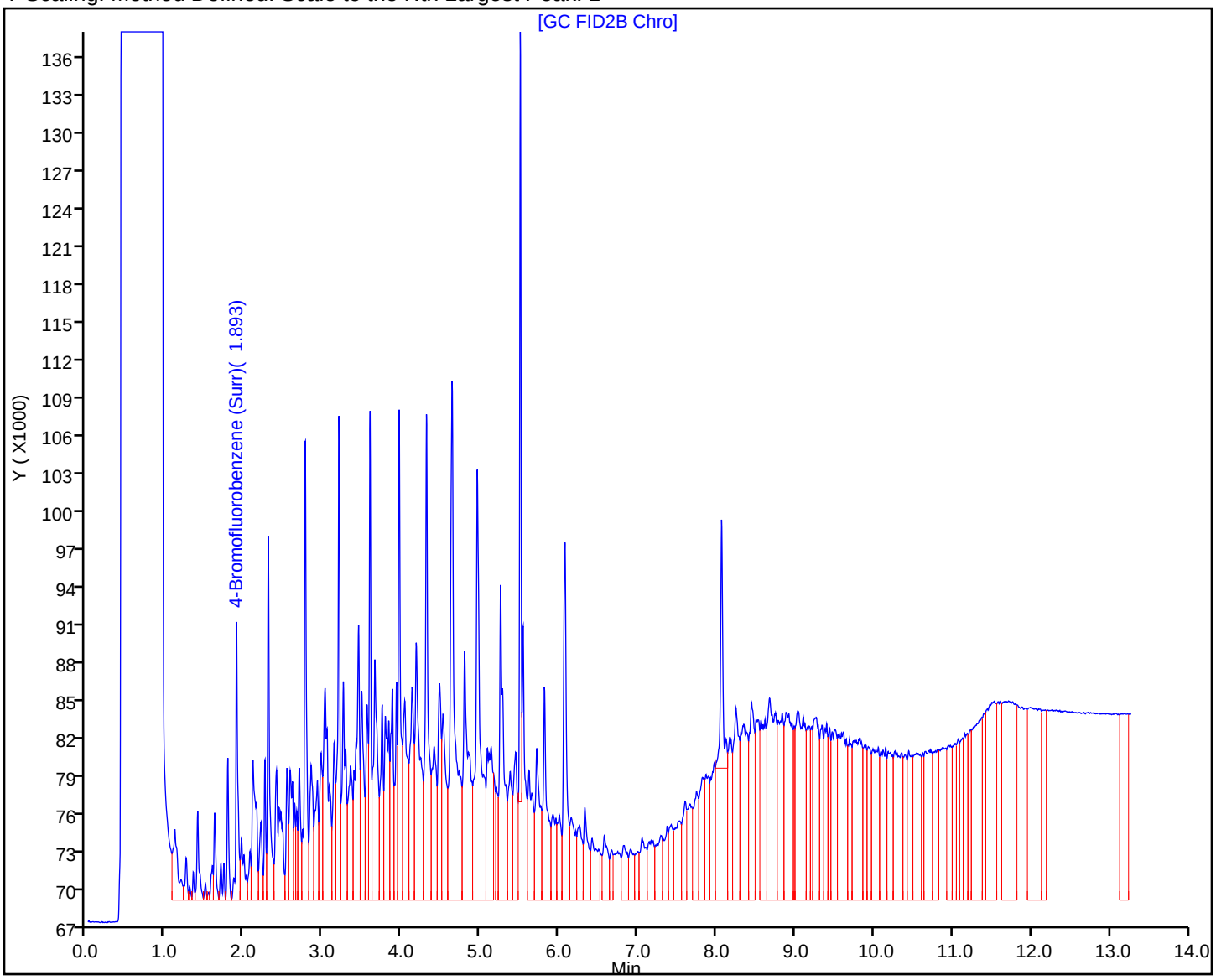
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

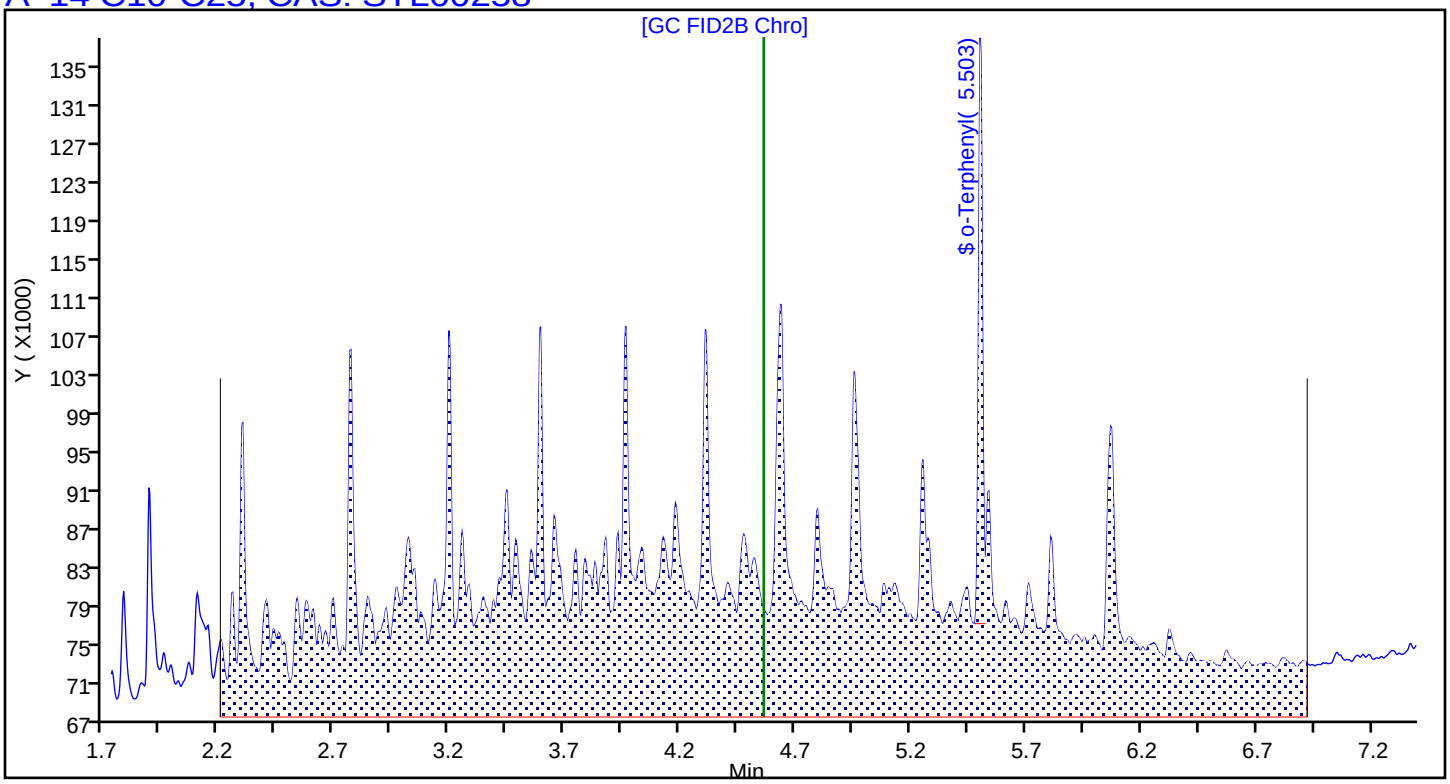


Report Date: 23-Sep-2024 07:58:46 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a017.D				
Injection Date:	20-Sep-2024 14:55:17	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

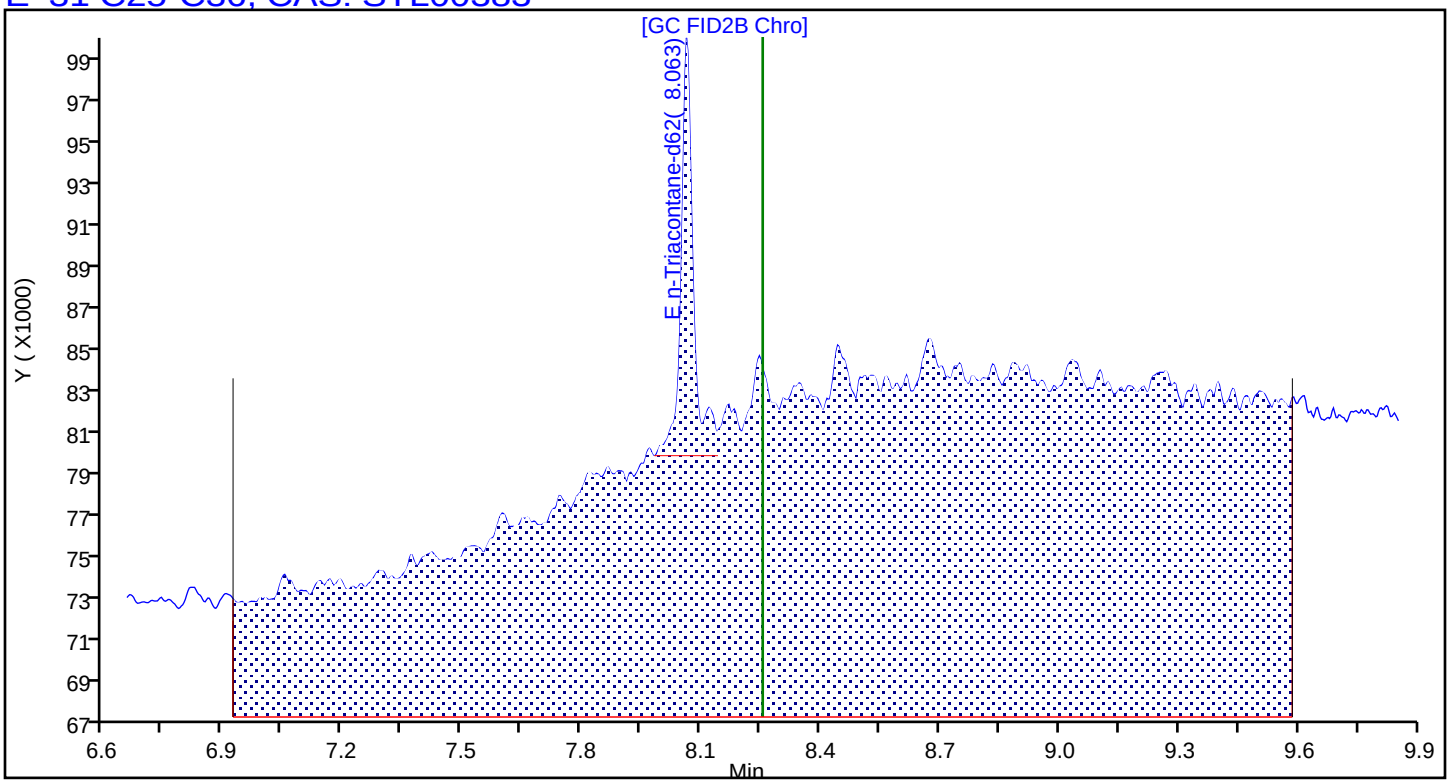


Report Date: 23-Sep-2024 07:58:46 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a017.D				
Injection Date:	20-Sep-2024 14:55:17	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_31 C25-C36, CAS: STL00383



Eurofins Seattle

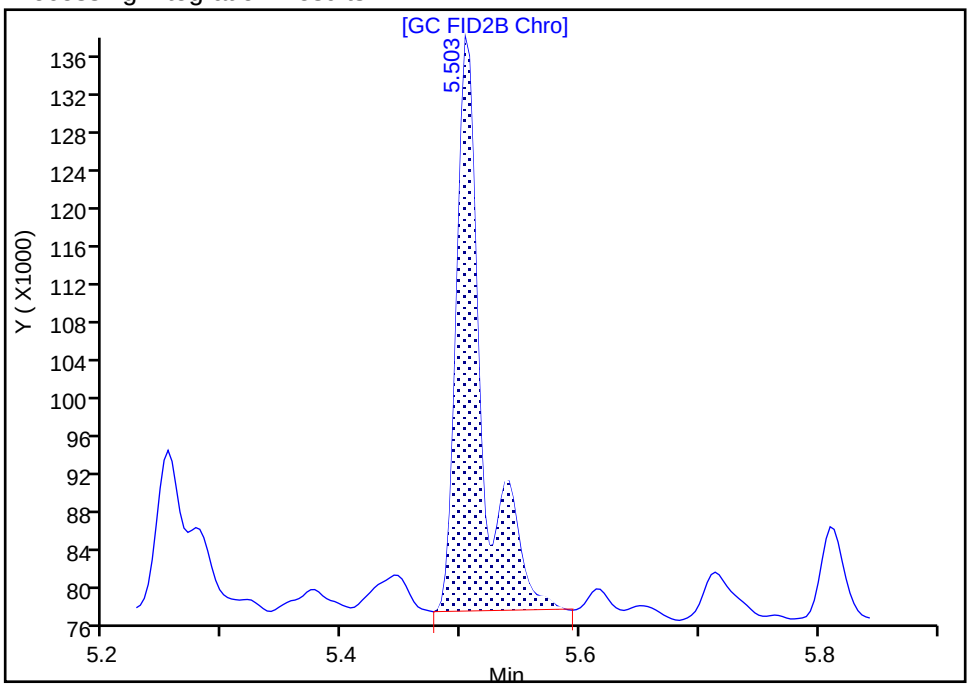
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a017.D
Injection Date: 20-Sep-2024 14:55:17 Instrument ID: TAC129_R
Lims ID: IC
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

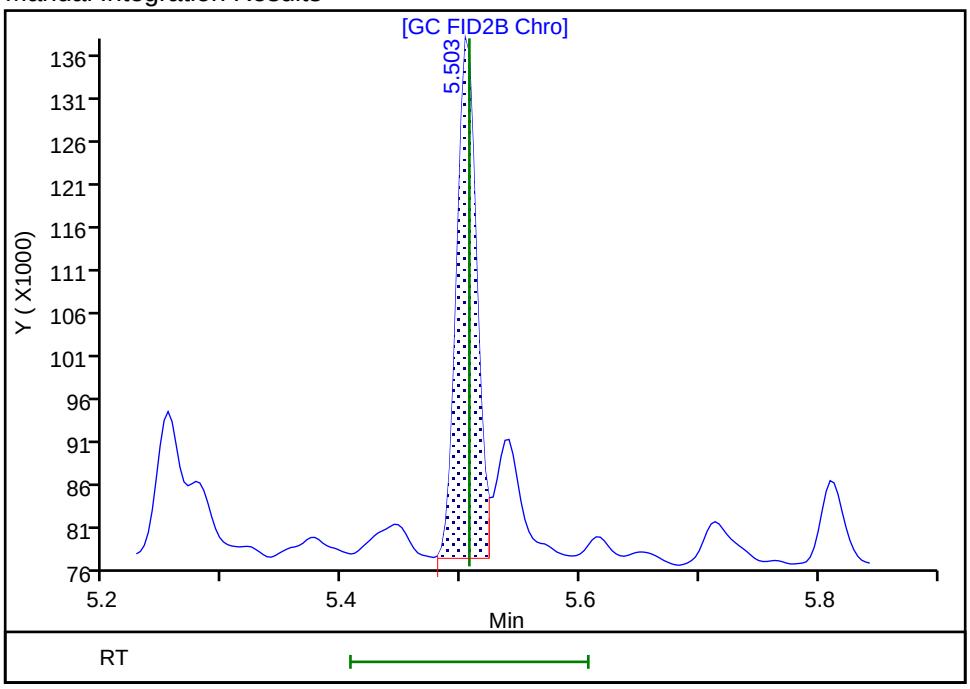
Processing Integration Results

RT: 5.50
Area: 91399
Amount: 0.458137
Amount Units: ng/uL



Manual Integration Results

RT: 5.50
Area: 70928
Amount: 0.457262
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:46:33 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a019.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Sep-2024 15:15:02 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:50 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:33:08

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.893	1.890	0.003	77041	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		8835676	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		8308596	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		8371609	50.0	51.7	
A	16 C12-C24	4.975	(3.107-6.843)		6922357	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		9283093	NC	NC	
$	19 o-Terphenyl	5.503	5.507	-0.004	180762	1.04	1.17	M
A	27 C24-C32	7.775	(6.843-8.707)		2809427	NC	NC	
E	28 n-Triacontane-d62	8.063	8.070	-0.007	113954	0.7250	0.7780	
A	30 C24-C36	8.215	(6.843-9.587)		4656890	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		4656890	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		4593878	50.0	51.3	
A	33 C24-C40	8.710	(6.913-10.507)		6110178	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		5099293	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_50_00027 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:58:50 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a019.D

Injection Date: 20-Sep-2024 15:15:02 Instrument ID: TAC129_R

Lims ID: IC

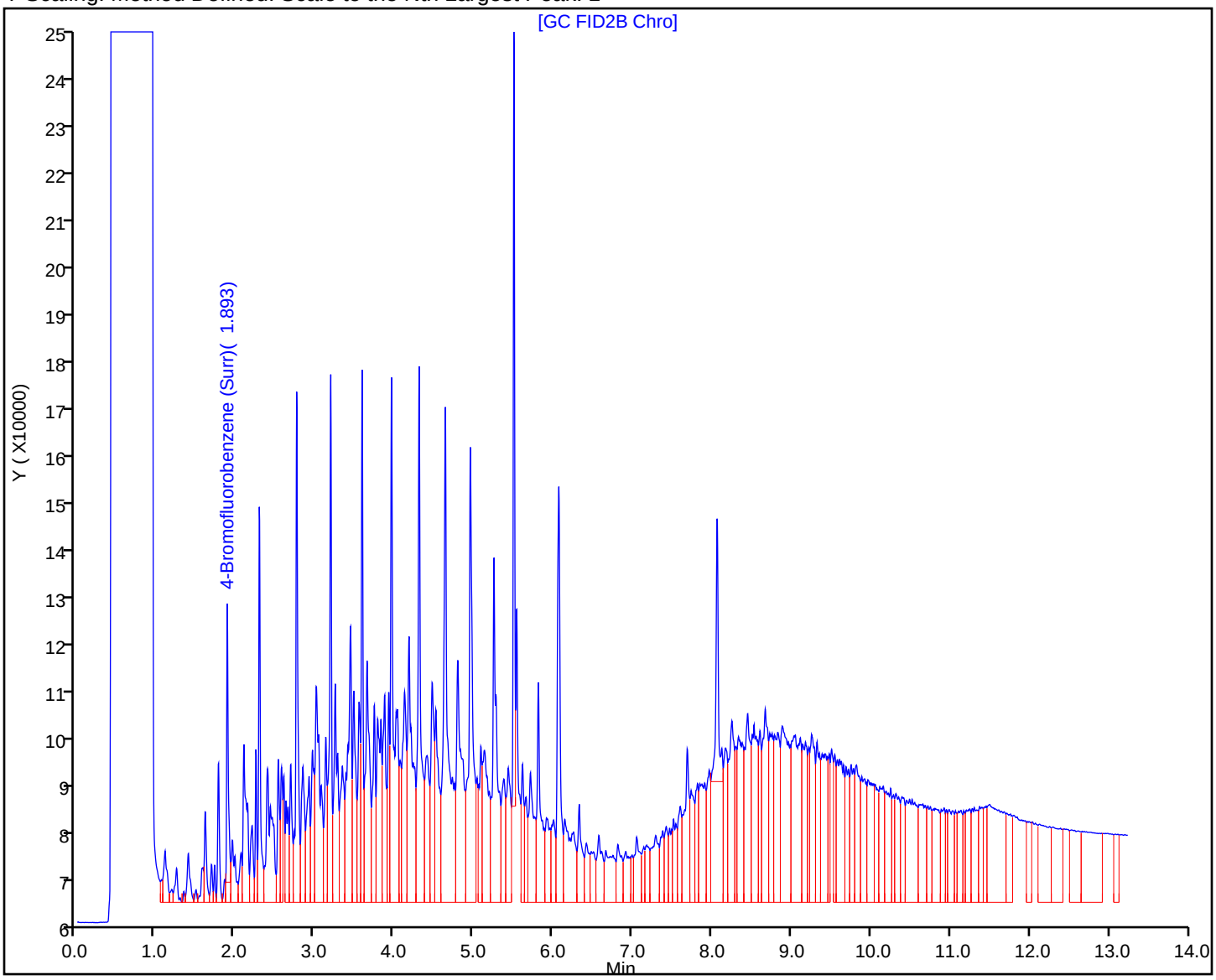
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

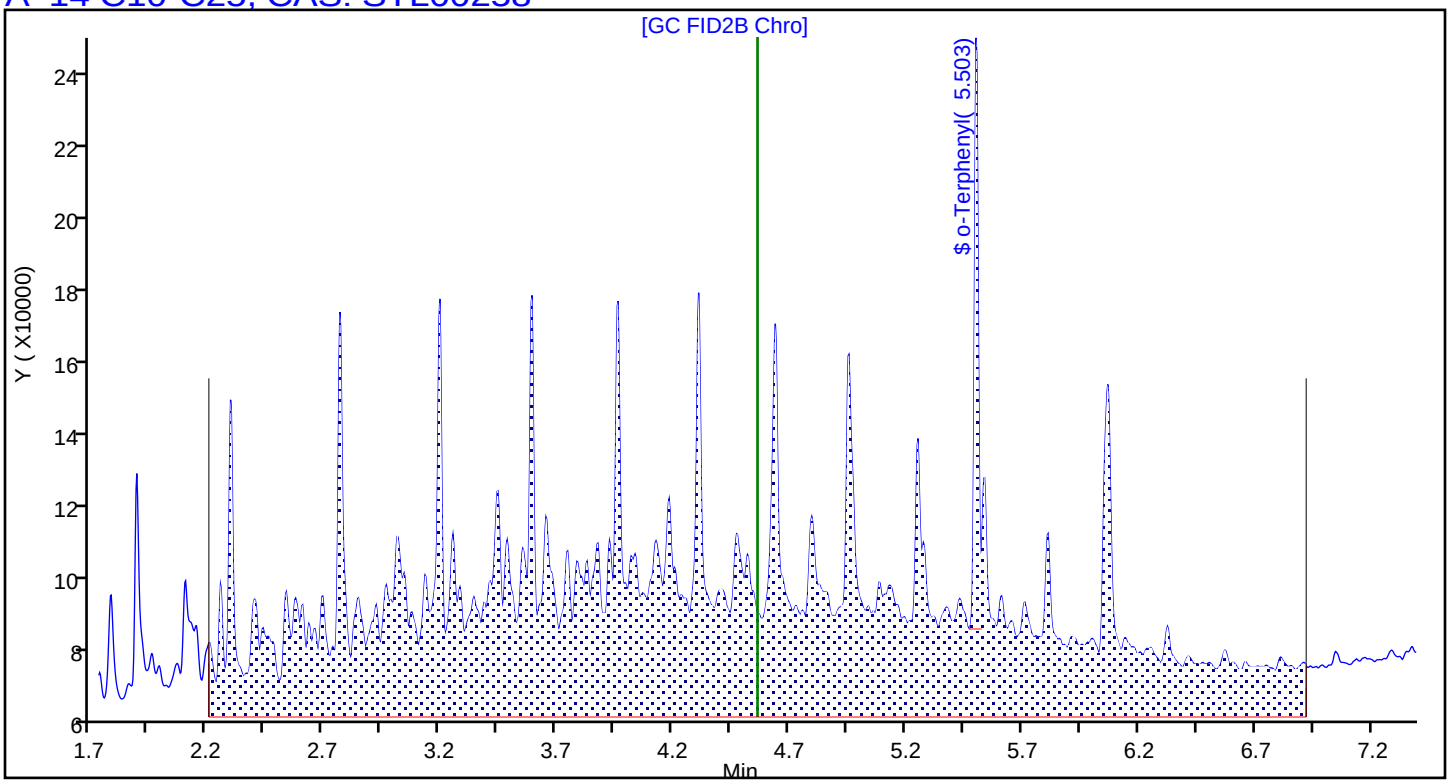


Report Date: 23-Sep-2024 07:58:50 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a019.D				
Injection Date:	20-Sep-2024 15:15:02	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



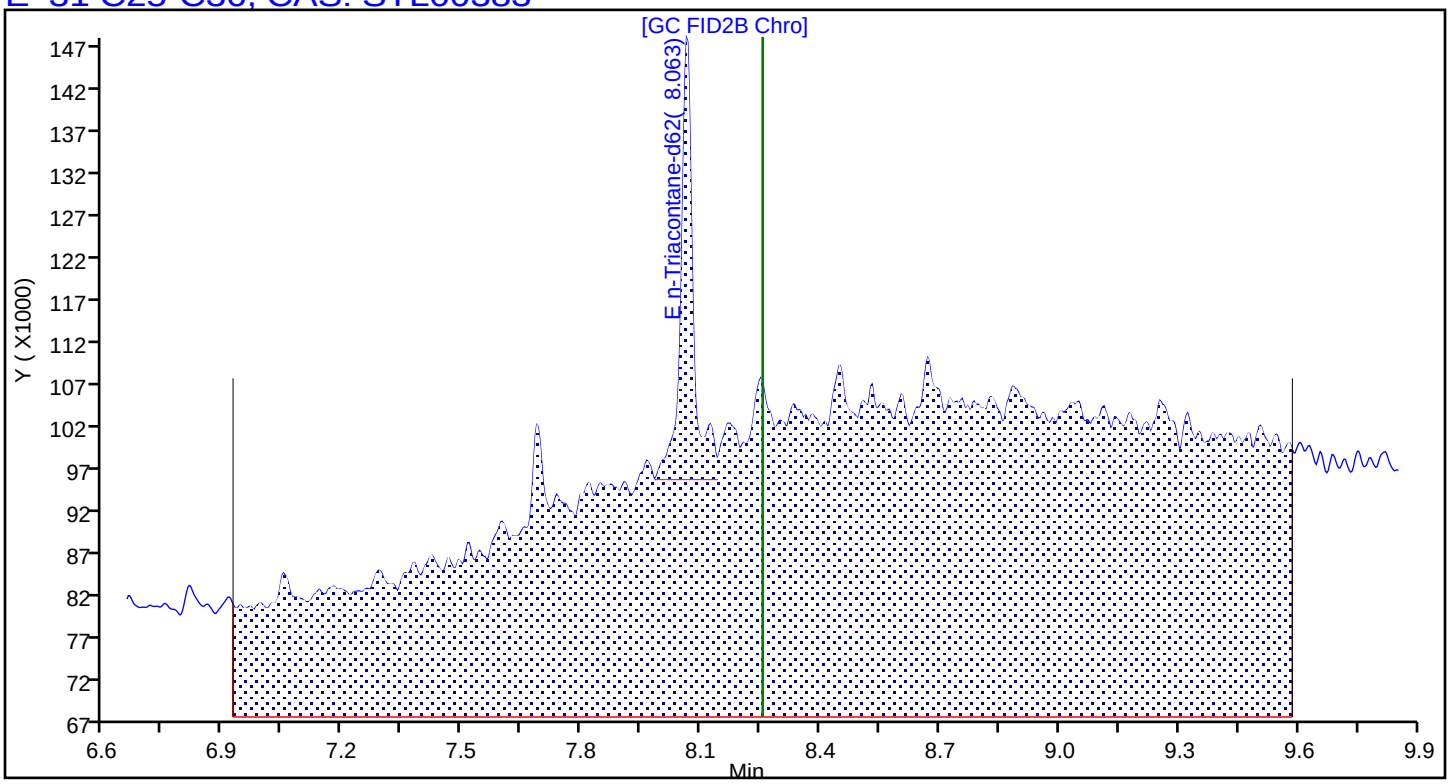
Report Date: 23-Sep-2024 07:58:50 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a019.D

Injection Date:	20-Sep-2024 15:15:02	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

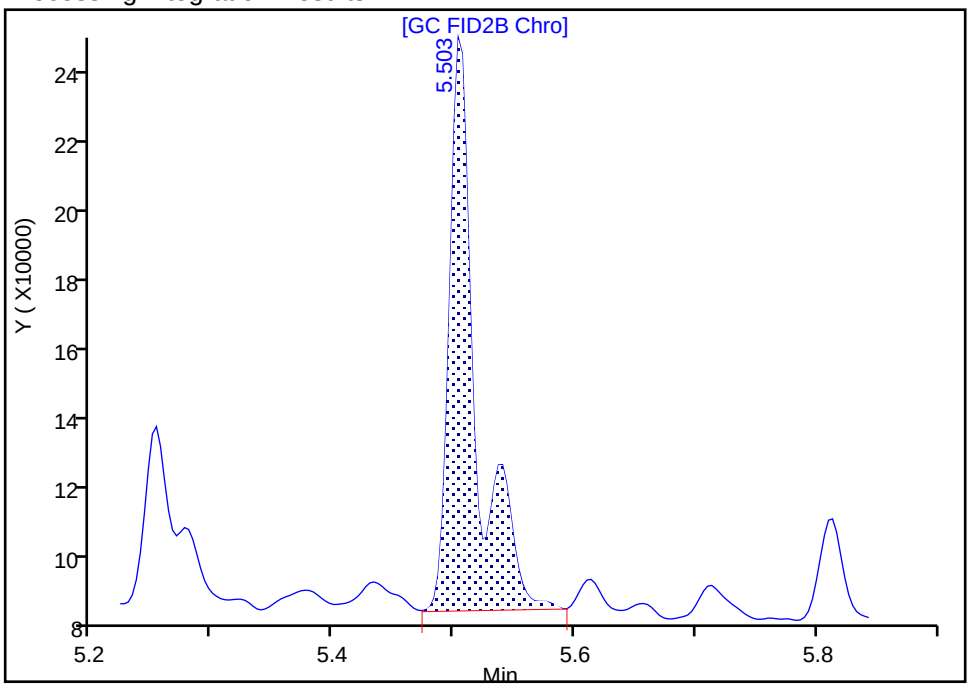
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a019.D				
Injection Date:	20-Sep-2024 15:15:02	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

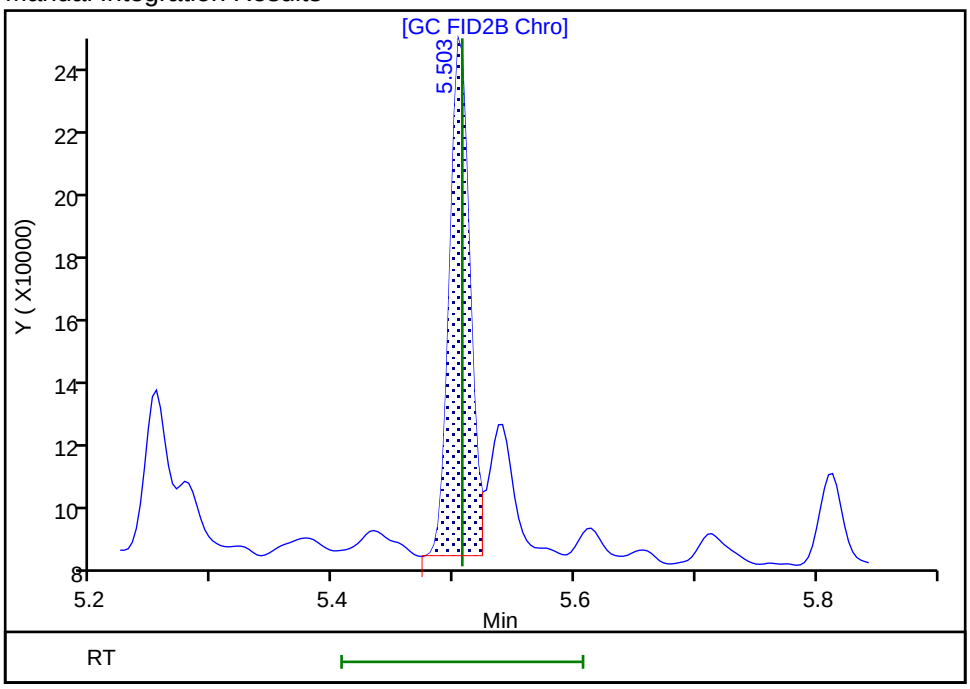
Processing Integration Results

RT: 5.50
Area: 236597
Amount: 1.213145
Amount Units: ng/uL



Manual Integration Results

RT: 5.50
Area: 180762
Amount: 1.165345
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:47:02 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 23-Sep-2024 07:58:55 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a021.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Sep-2024 15:34:53 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:54 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:33:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.893	1.890	0.003	199827	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		17155120	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		16208159	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		16330189	100.0	102.8	
A	16 C12-C24	4.975	(3.107-6.843)		13513350	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		18090504	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	354812	2.08	2.29	M
A	27 C24-C32	7.775	(6.843-8.707)		5540914	NC	NC	
E	28 n-Triacontane-d62	8.067	8.070	-0.003	202163	1.45	1.38	
A	30 C24-C36	8.215	(6.843-9.587)		9164685	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		9164685	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		9042655	100.0	103.2	
A	33 C24-C40	8.710	(6.913-10.507)		11871944	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		9932803	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_100_00028 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:58:55 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a021.D

Injection Date: 20-Sep-2024 15:34:53 Instrument ID: TAC129_R

Lims ID: IC

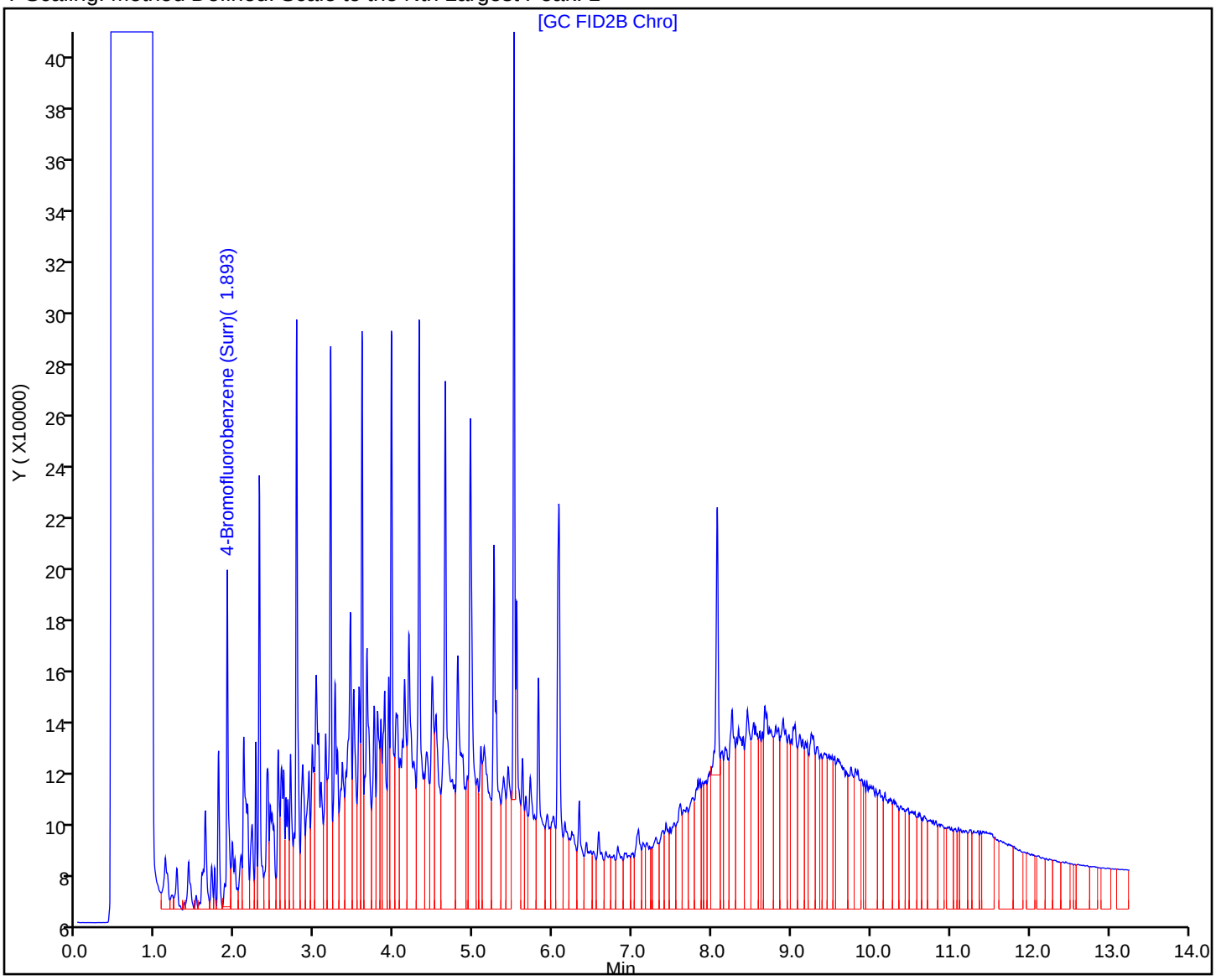
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

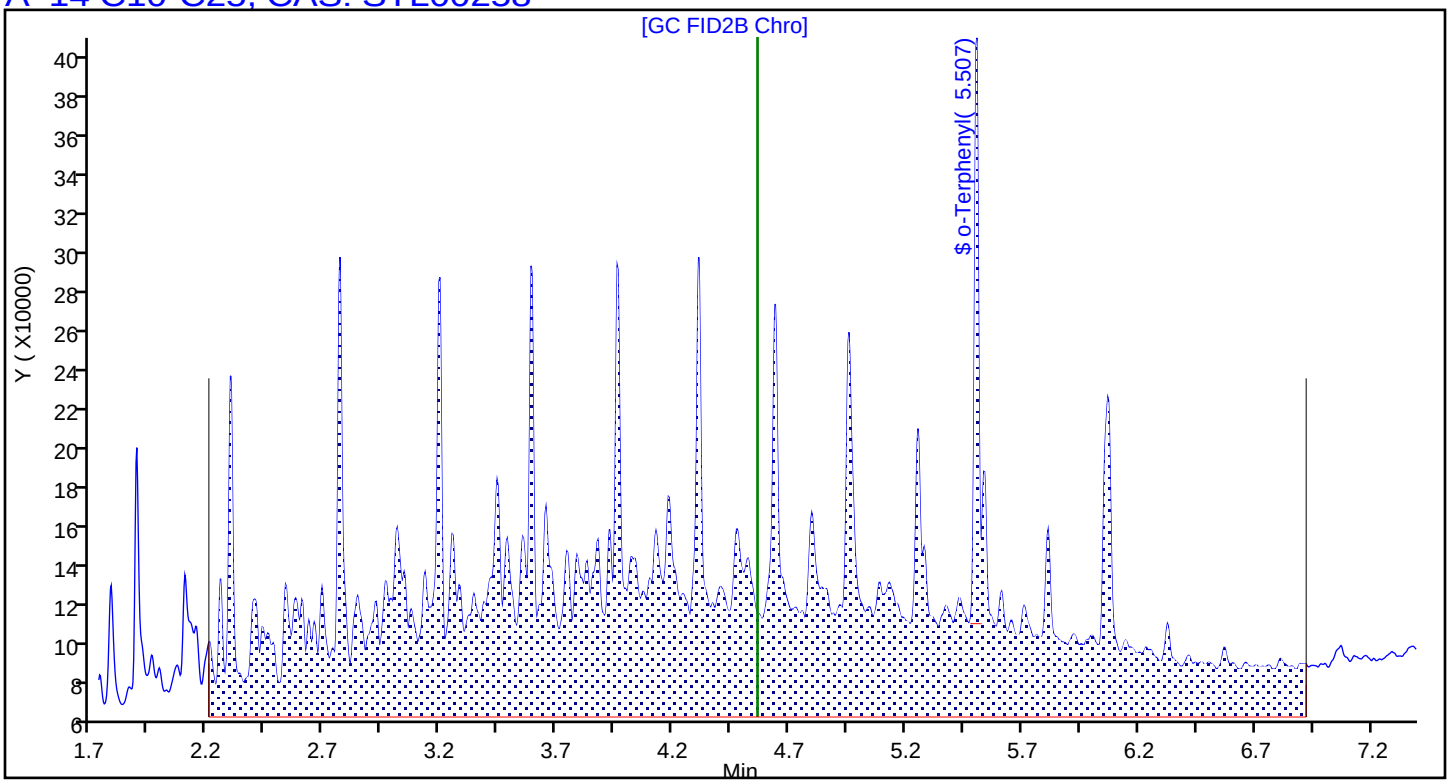


Report Date: 23-Sep-2024 07:58:55 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a021.D				
Injection Date:	20-Sep-2024 15:34:53	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

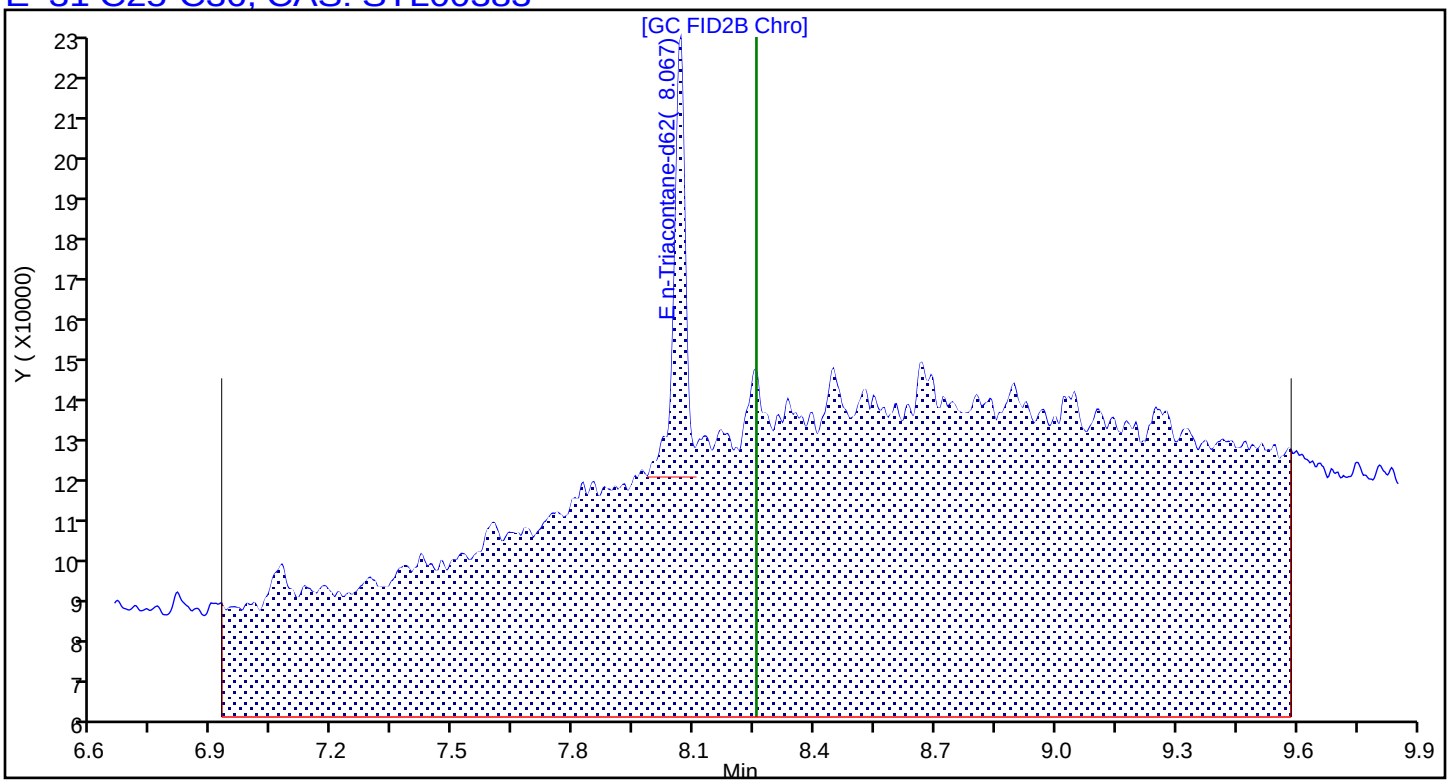


Report Date: 23-Sep-2024 07:58:55 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a021.D				
Injection Date:	20-Sep-2024 15:34:53	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

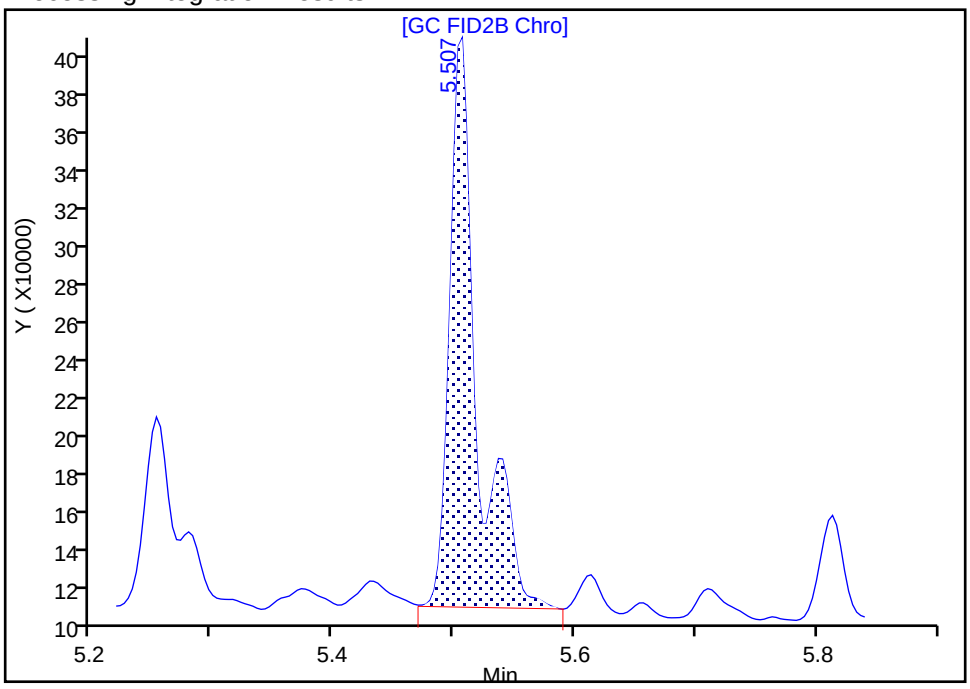
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a021.D				
Injection Date:	20-Sep-2024 15:34:53	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

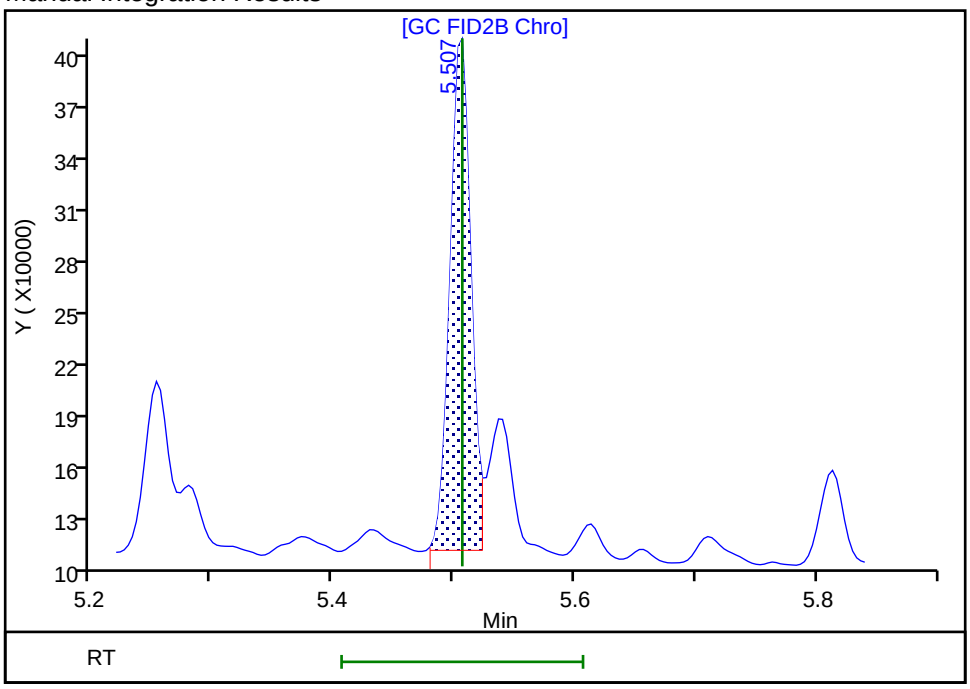
Processing Integration Results

RT: 5.51
Area: 466957
Amount: 2.455767
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 354812
Amount: 2.287419
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:47:34 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 23-Sep-2024 07:59:00 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a023.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Sep-2024 15:54:46 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:58:59 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:34:16

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.890	1.890	0.000	415073	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		34842123	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		32943801	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		33189034	200.0	211.2	
A	16 C12-C24	4.975	(3.107-6.843)		27449555	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		36642599	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	699985	4.16	4.51	M
A	27 C24-C32	7.775	(6.843-8.707)		10936829	NC	NC	
E	28 n-Triacontane-d62	8.067	8.070	-0.003	400885	2.90	2.74	
A	30 C24-C36	8.215	(6.843-9.587)		17999383	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		17999383	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		17754150	200.0	205.0	
A	33 C24-C40	8.710	(6.913-10.507)		23121345	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		19337079	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_200_00011 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:00 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a023.D

Injection Date: 20-Sep-2024 15:54:46 Instrument ID: TAC129_R

Lims ID: IC

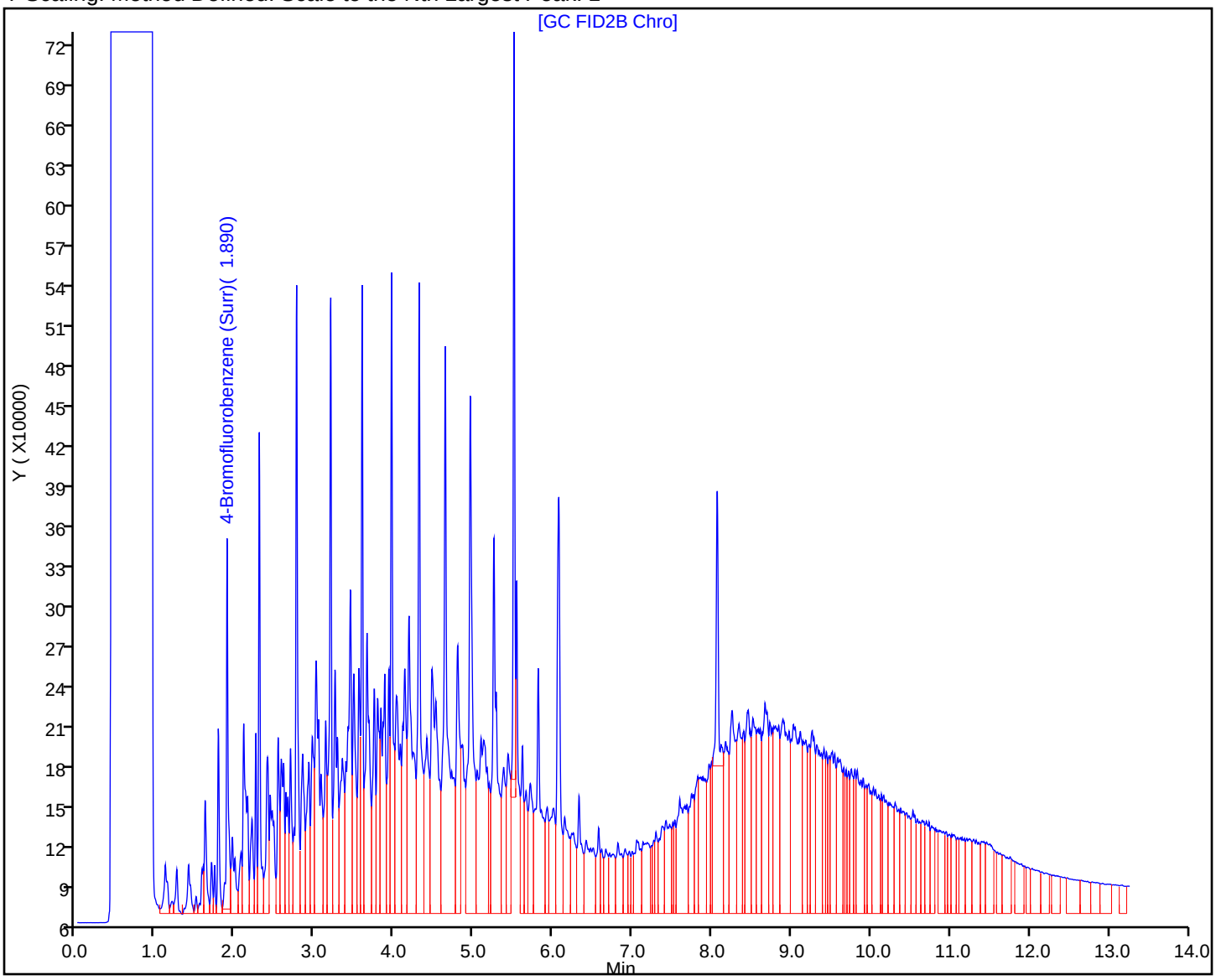
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

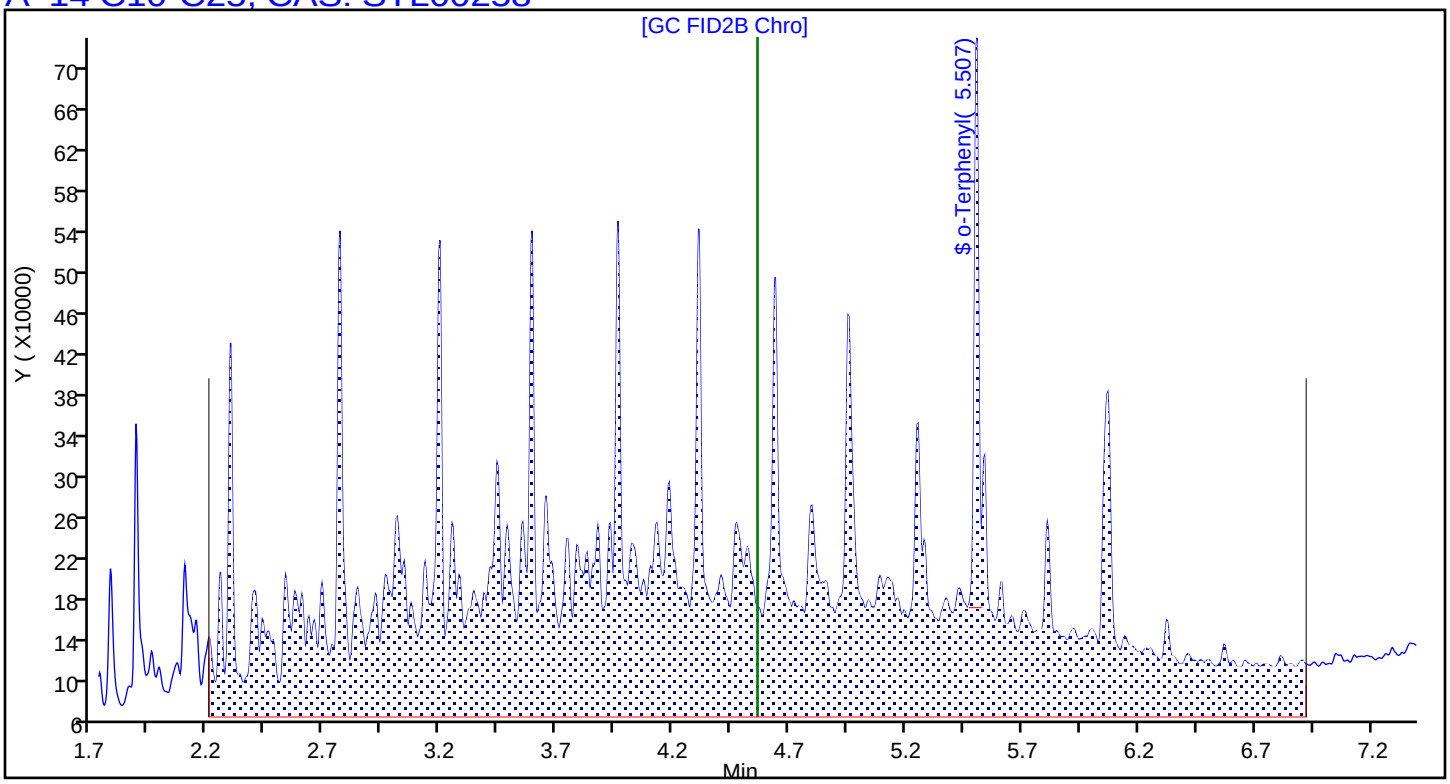


Report Date: 23-Sep-2024 07:59:00 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a023.D				
Injection Date:	20-Sep-2024 15:54:46	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

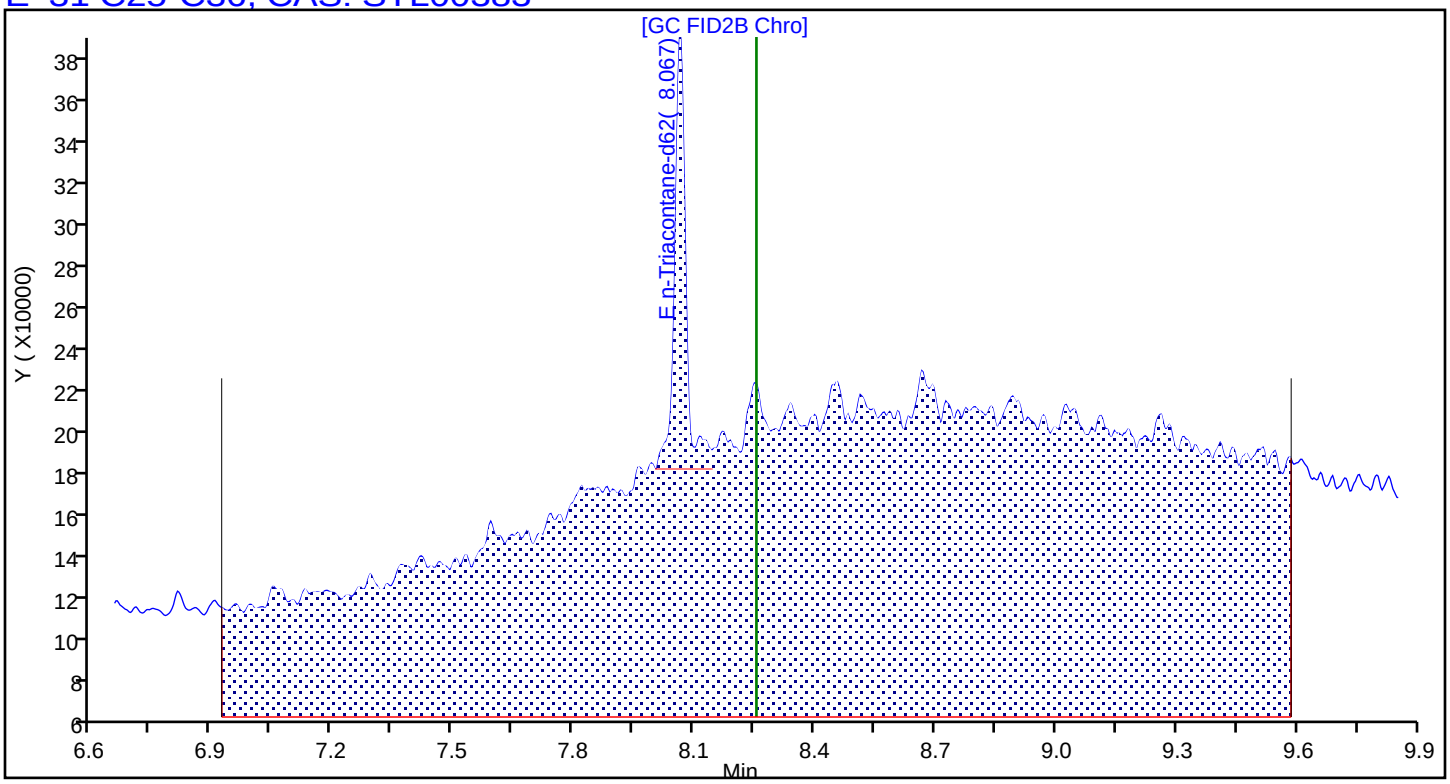


Report Date: 23-Sep-2024 07:59:00 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a023.D				
Injection Date:	20-Sep-2024 15:54:46	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

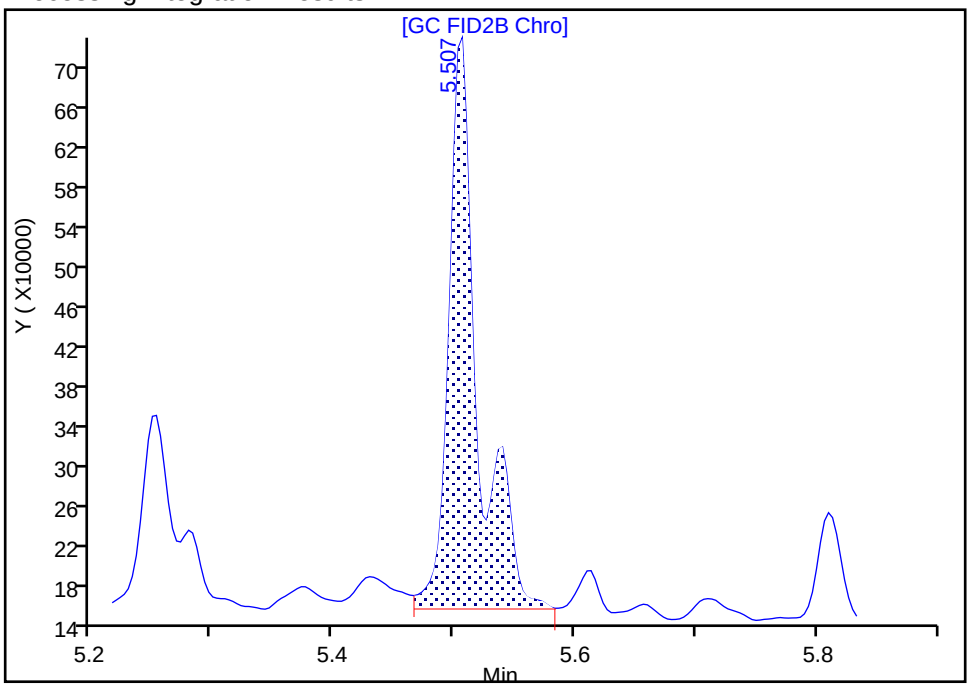
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a023.D
Injection Date: 20-Sep-2024 15:54:46 Instrument ID: TAC129_R
Lims ID: IC
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

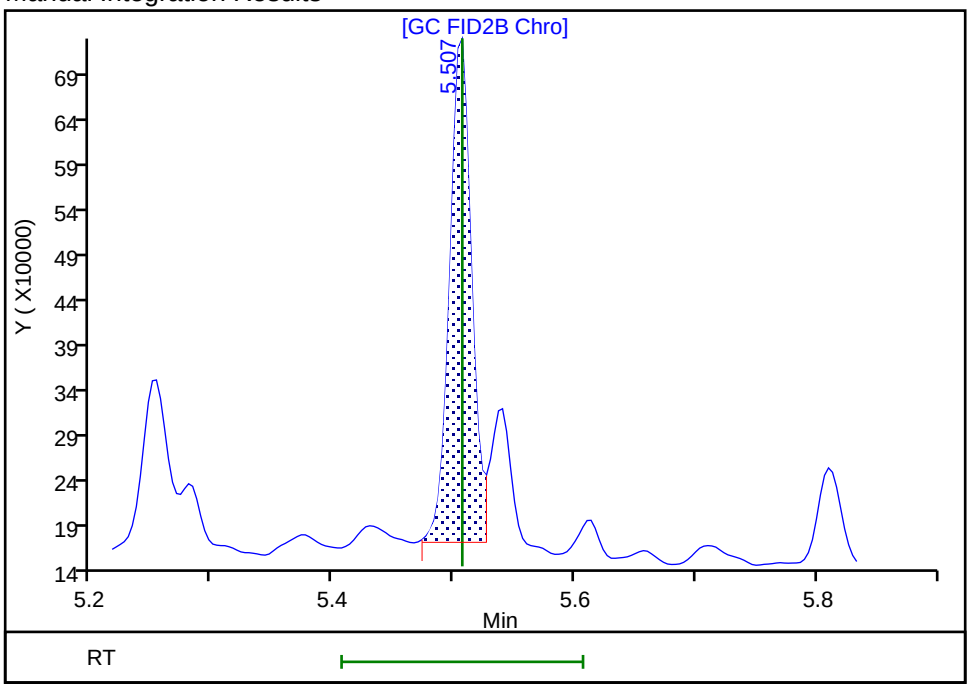
Processing Integration Results

RT: 5.51
Area: 942517
Amount: 5.087931
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 699985
Amount: 4.512698
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:47:57 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a025.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 7
Inject. Date: 20-Sep-2024 16:14:51 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICRT
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:59:04 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 17:35:10

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.890	1.890	0.000	1036410	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		83262501	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		78851500	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		79424768	500.0	508.5	
A	16 C12-C24	4.975	(3.107-6.843)		65739772	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		87465889	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	1548804	10.4	9.98	M
A	27 C24-C32	7.775	(6.843-8.707)		25544386	NC	NC	
E	28 n-Triacontane-d62	8.070	8.070	0.000	956890	7.25	6.53	
A	30 C24-C36	8.215	(6.843-9.587)		42142548	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		42142548	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		41569280	500.0	483.1	
A	33 C24-C40	8.710	(6.913-10.507)		54046881	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		45240628	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-CCV_500_00142 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a025.D

Injection Date: 20-Sep-2024 16:14:51 Instrument ID: TAC129_R

Lims ID: ICRT

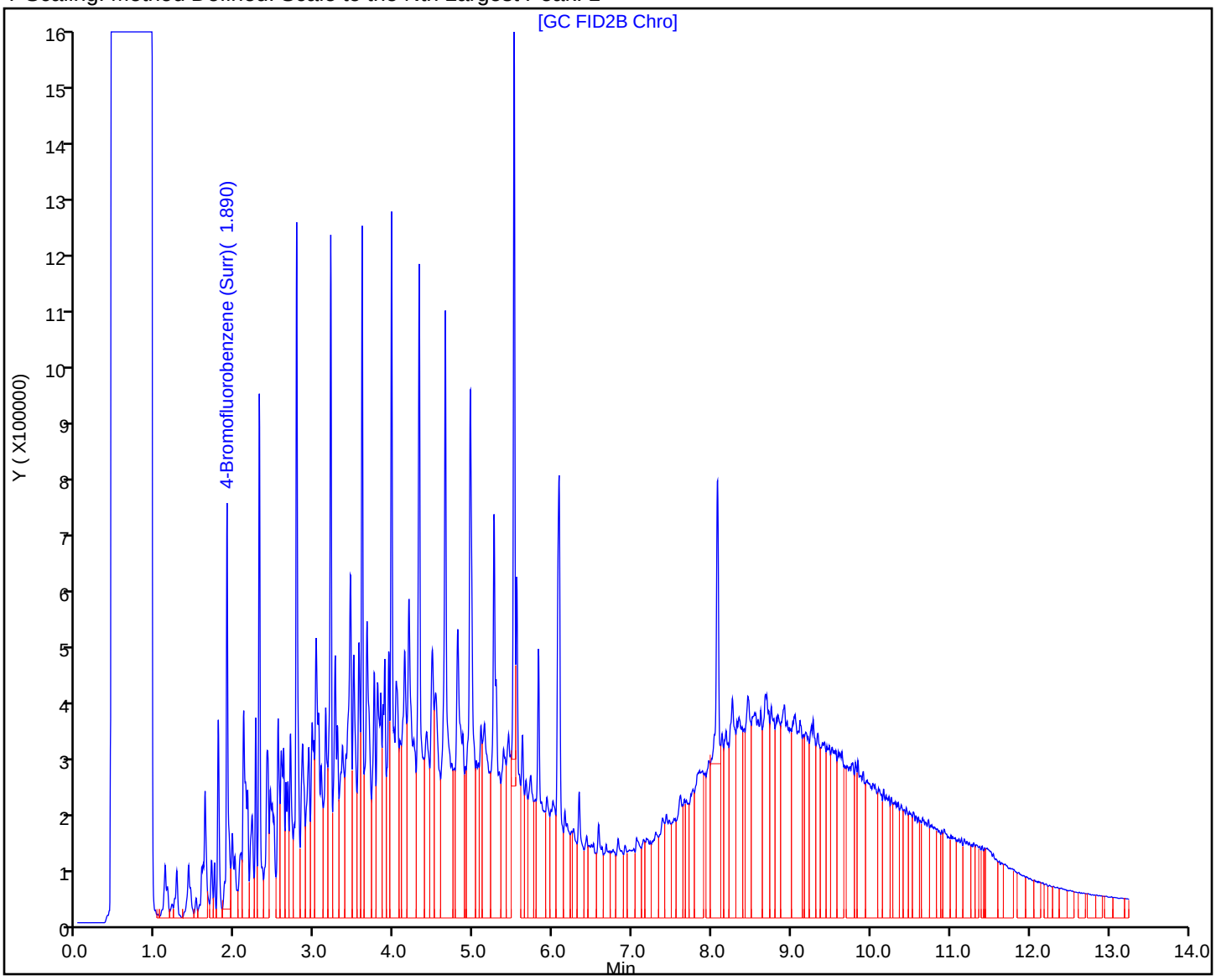
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

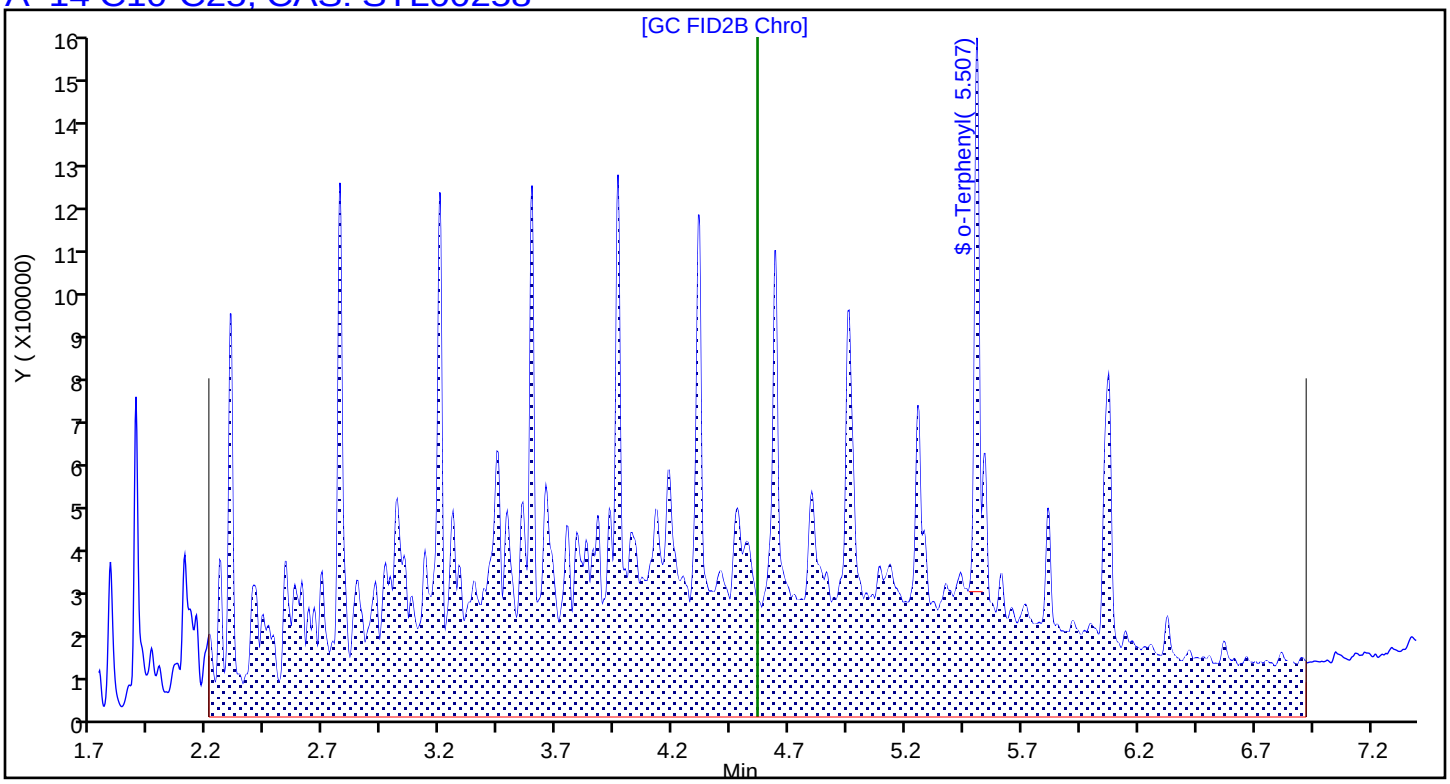


Report Date: 23-Sep-2024 07:59:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a025.D				
Injection Date:	20-Sep-2024 16:14:51	Instrument ID:	TAC129_R		
Lims ID:	ICRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



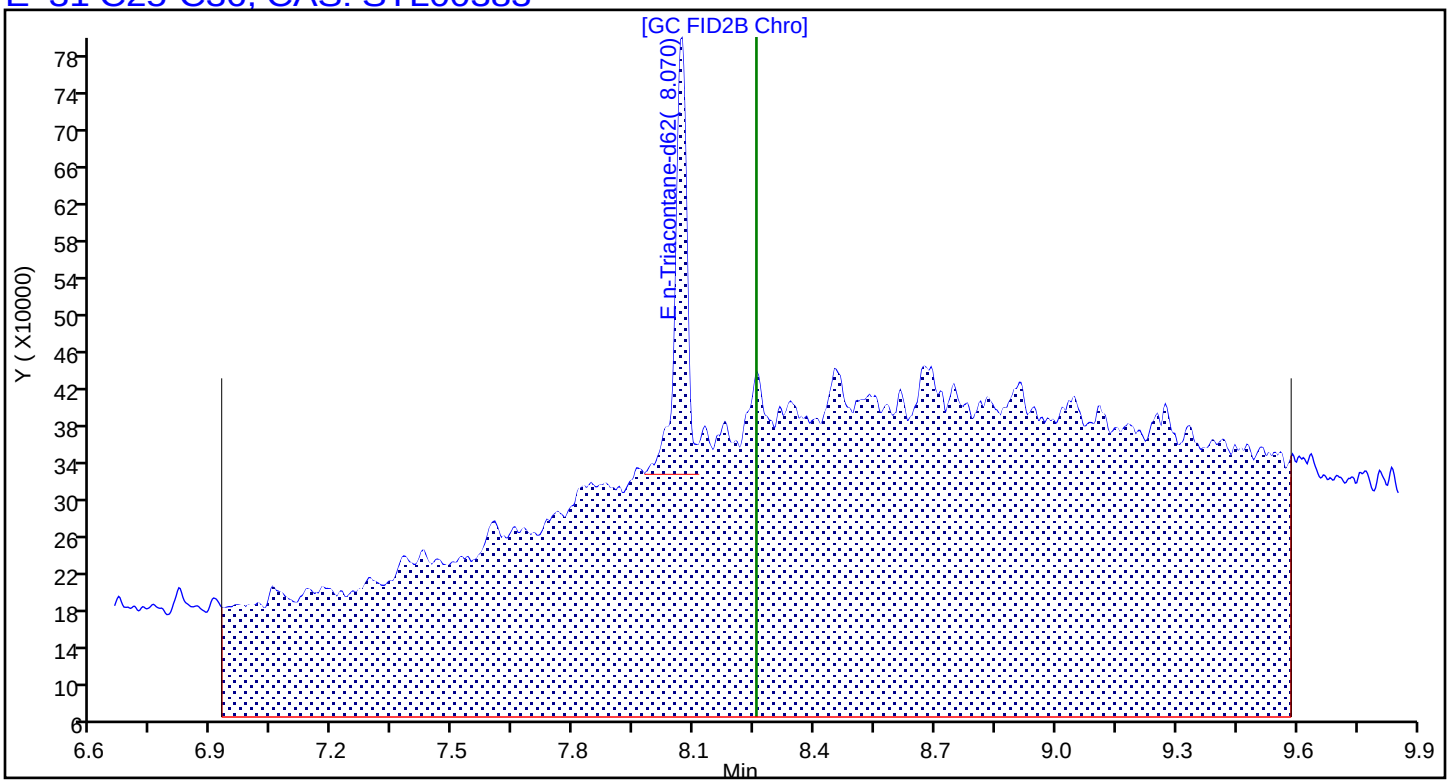
Report Date: 23-Sep-2024 07:59:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a025.D

Injection Date:	20-Sep-2024 16:14:51	Instrument ID:	TAC129_R		
Lims ID:	ICRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_31 C25-C36, CAS: STL00383



Eurofins Seattle

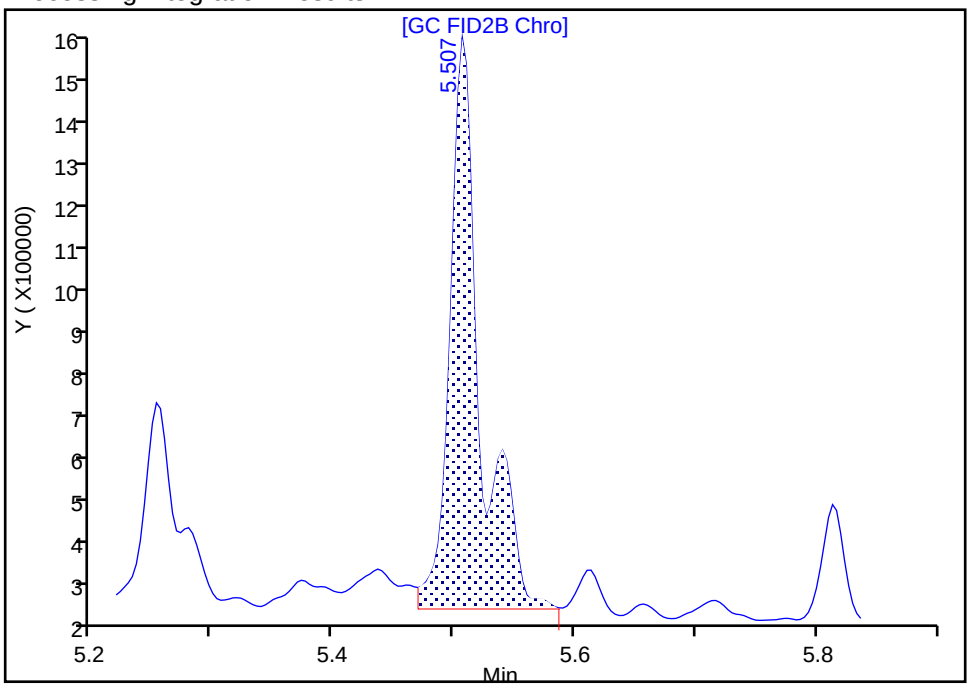
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a025.D
Injection Date: 20-Sep-2024 16:14:51 Instrument ID: TAC129_R
Lims ID: ICRT
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

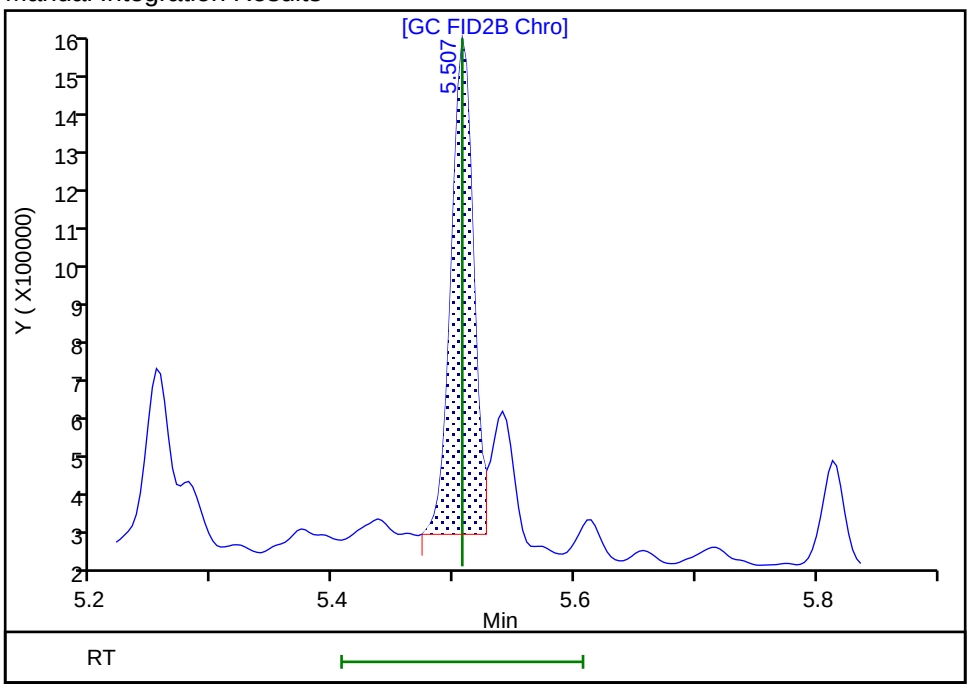
Processing Integration Results

RT: 5.51
Area: 2169636
Amount: 12.057180
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 1548804
Amount: 9.984906
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:48:16 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 23-Sep-2024 07:59:10 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a027.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Sep-2024 16:34:48 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:59:09 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 18:02:07

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.890	1.890	0.000	2090958	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		168784489	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		159956674	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		161107717	1000.0	1033.7	
A	16 C12-C24	4.975	(3.107-6.843)		133599920	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		177262095	NC	NC	
$	19 o-Terphenyl	5.510	5.507	0.003	2998865	20.8	19.3	M
A	27 C24-C32	7.775	(6.843-8.707)		51888077	NC	NC	
E	28 n-Triacontane-d62	8.077	8.070	0.007	2125561	14.5	14.5	
A	30 C24-C36	8.215	(6.843-9.587)		86338704	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		86338704	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		85187660	1000.0	992.6	
A	33 C24-C40	8.710	(6.913-10.507)		111212680	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		93471105	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_1000_00025 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:10 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a027.D

Injection Date: 20-Sep-2024 16:34:48 Instrument ID: TAC129_R

Lims ID: IC

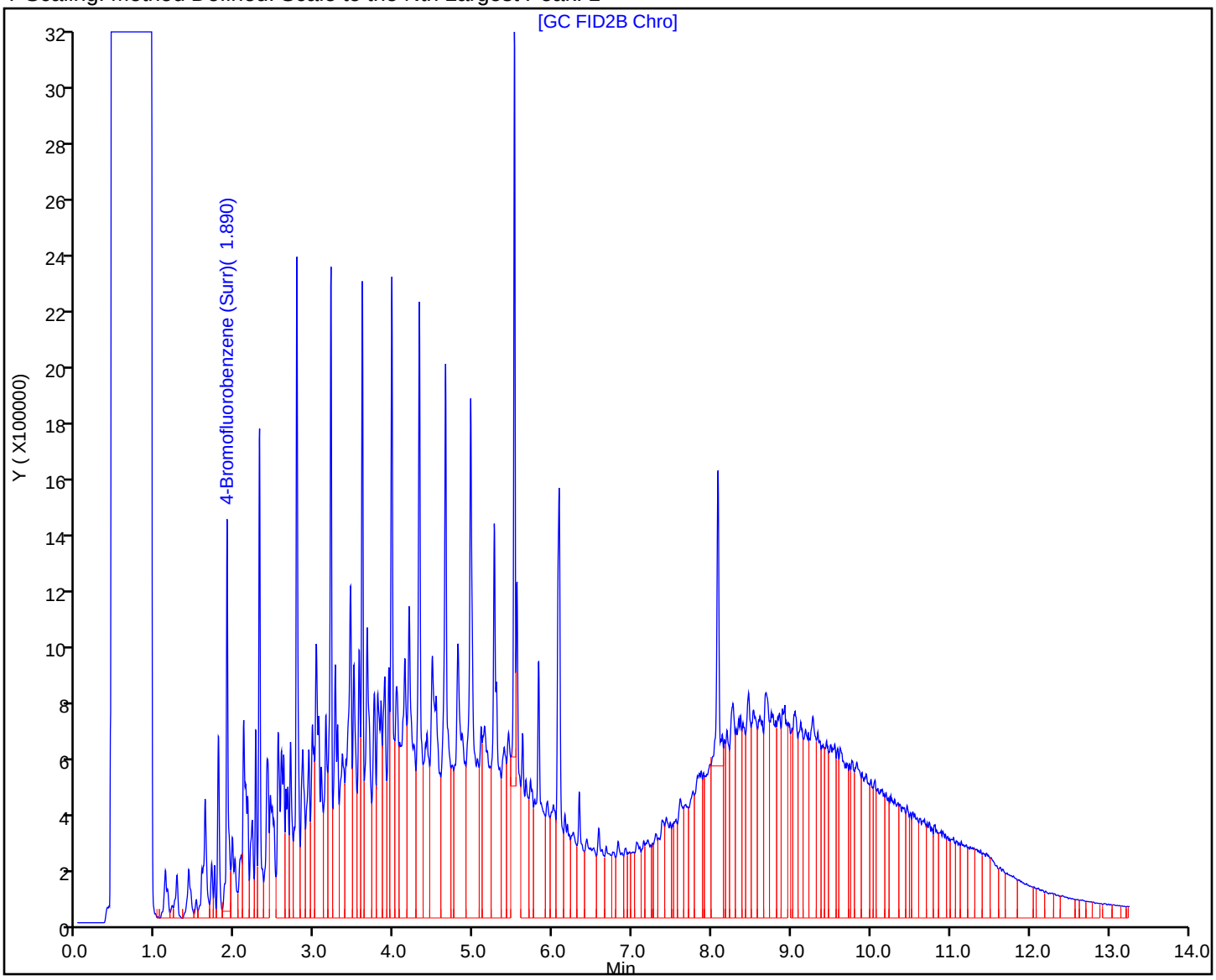
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



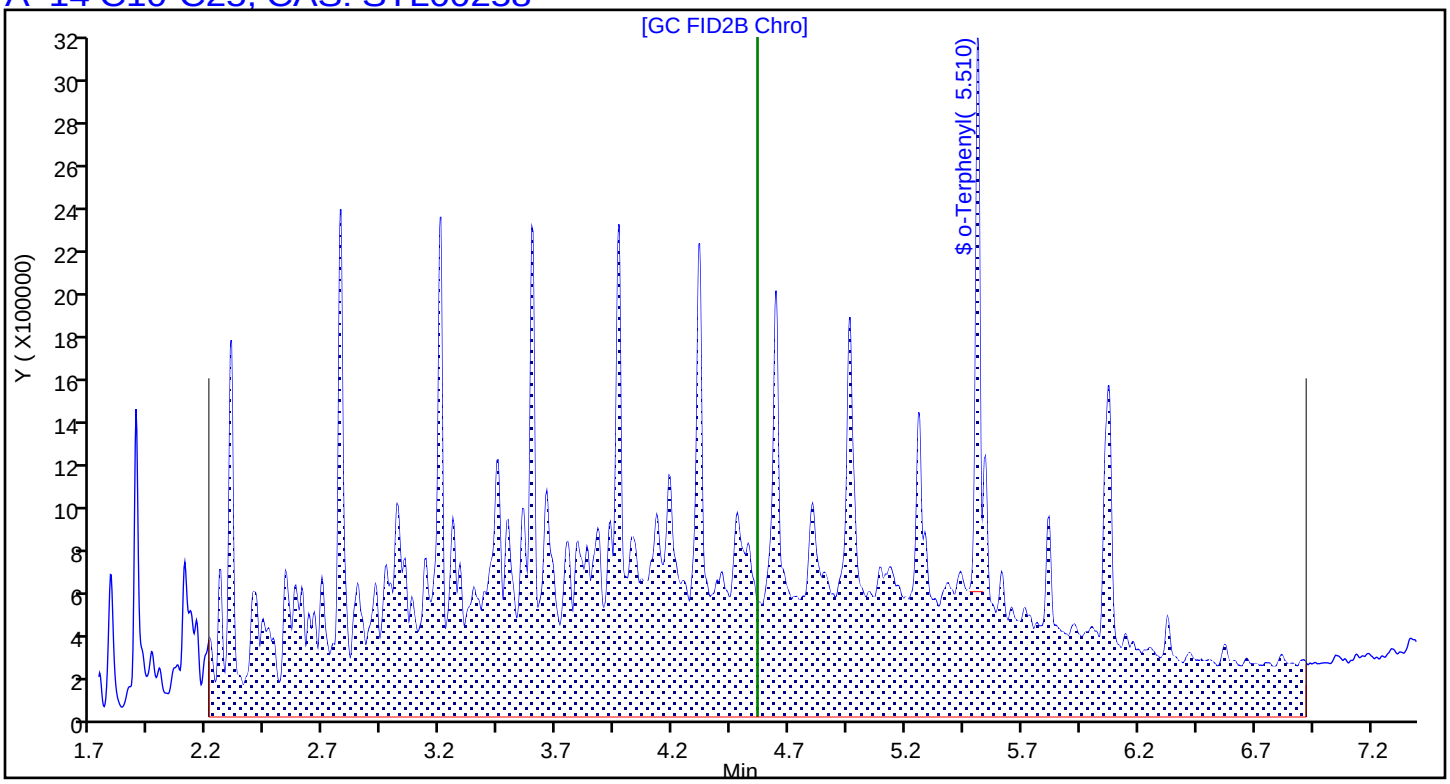
Report Date: 23-Sep-2024 07:59:10 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a027.D

Injection Date:	20-Sep-2024 16:34:48	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

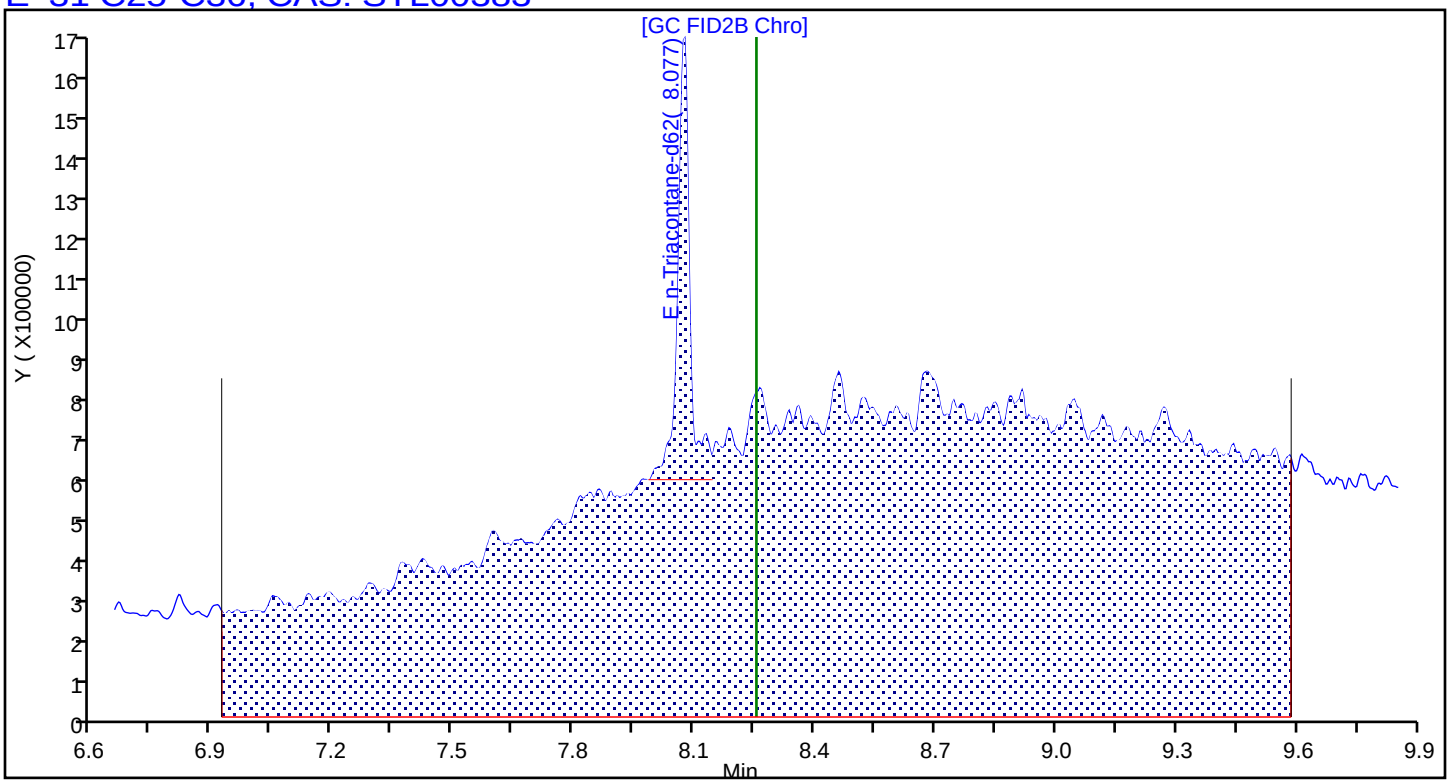


Report Date: 23-Sep-2024 07:59:10 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a027.D				
Injection Date:	20-Sep-2024 16:34:48	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

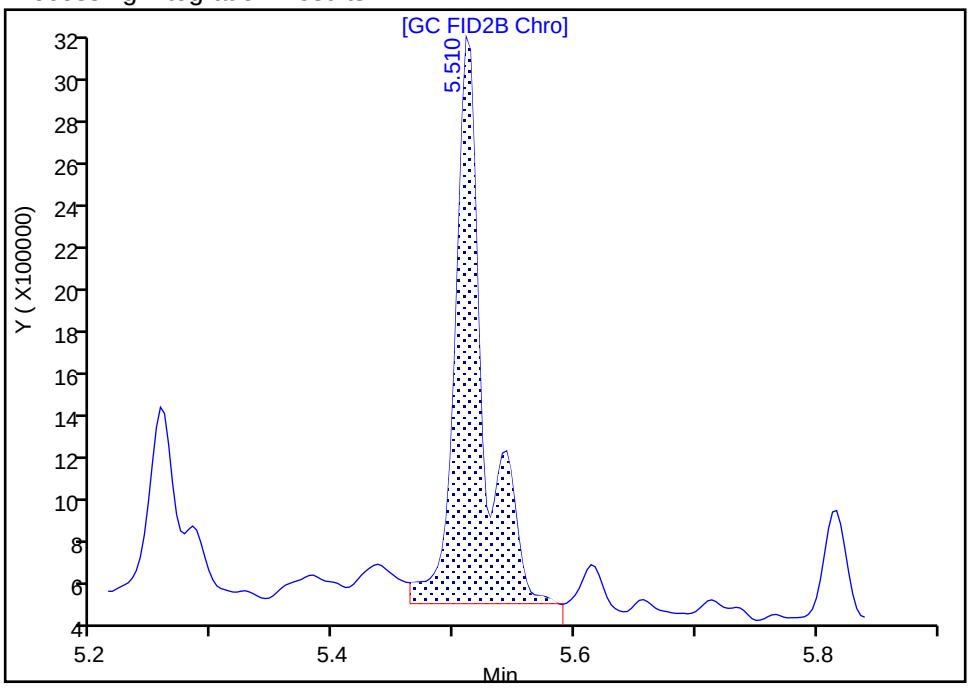
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a027.D				
Injection Date:	20-Sep-2024 16:34:48	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

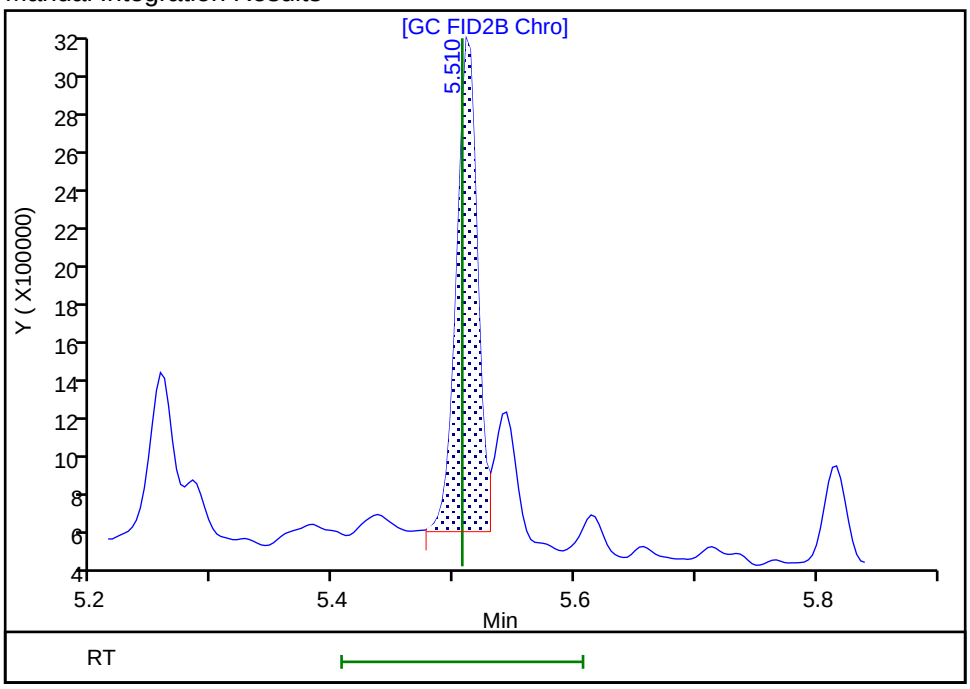
Processing Integration Results

RT: 5.51
Area: 4313978
Amount: 24.719287
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 2998865
Amount: 19.333230
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:48:32 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a029.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Sep-2024 17:19:38 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:59:14 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 18:02:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.890	1.890	0.000	4022783	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		318159175	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		301522829	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		303625537	2000.0	1950.1	
A	16 C12-C24	4.975	(3.107-6.843)		251388535	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		332988391	NC	NC	
$	19 o-Terphenyl	5.517	5.507	0.010	5259280	41.6	33.9	M
A	27 C24-C32	7.775	(6.843-8.707)		95796843	NC	NC	
E	28 n-Triacontane-d62	8.083	8.070	0.013	3739300	29.0	25.5	
A	30 C24-C36	8.215	(6.843-9.587)		164828386	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		164828386	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		162725678	2000.0	1898.2	
A	33 C24-C40	8.710	(6.913-10.507)		216624752	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		184051807	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_2000_00012 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a029.D

Injection Date: 20-Sep-2024 17:19:38 Instrument ID: TAC129_R

Lims ID: IC

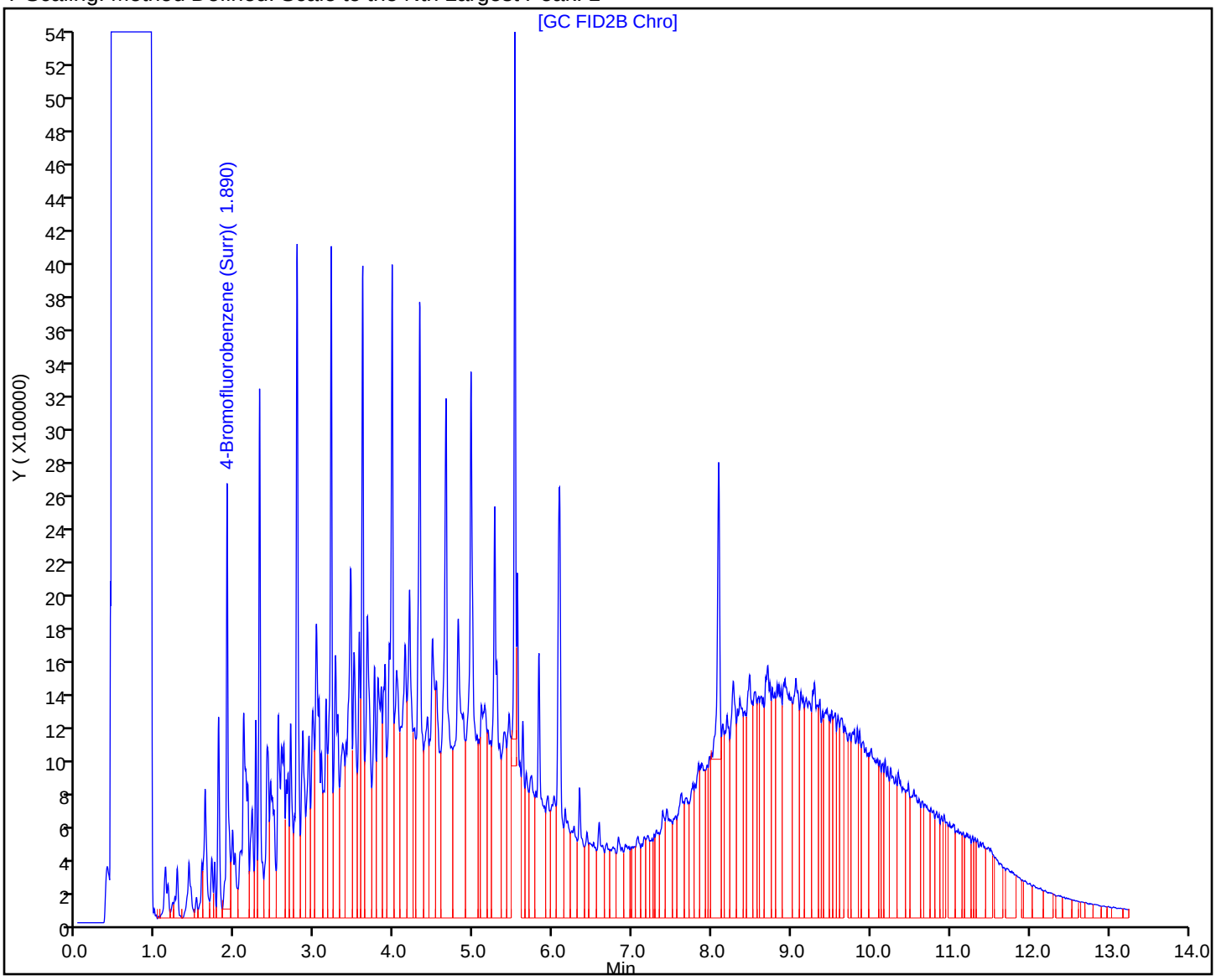
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

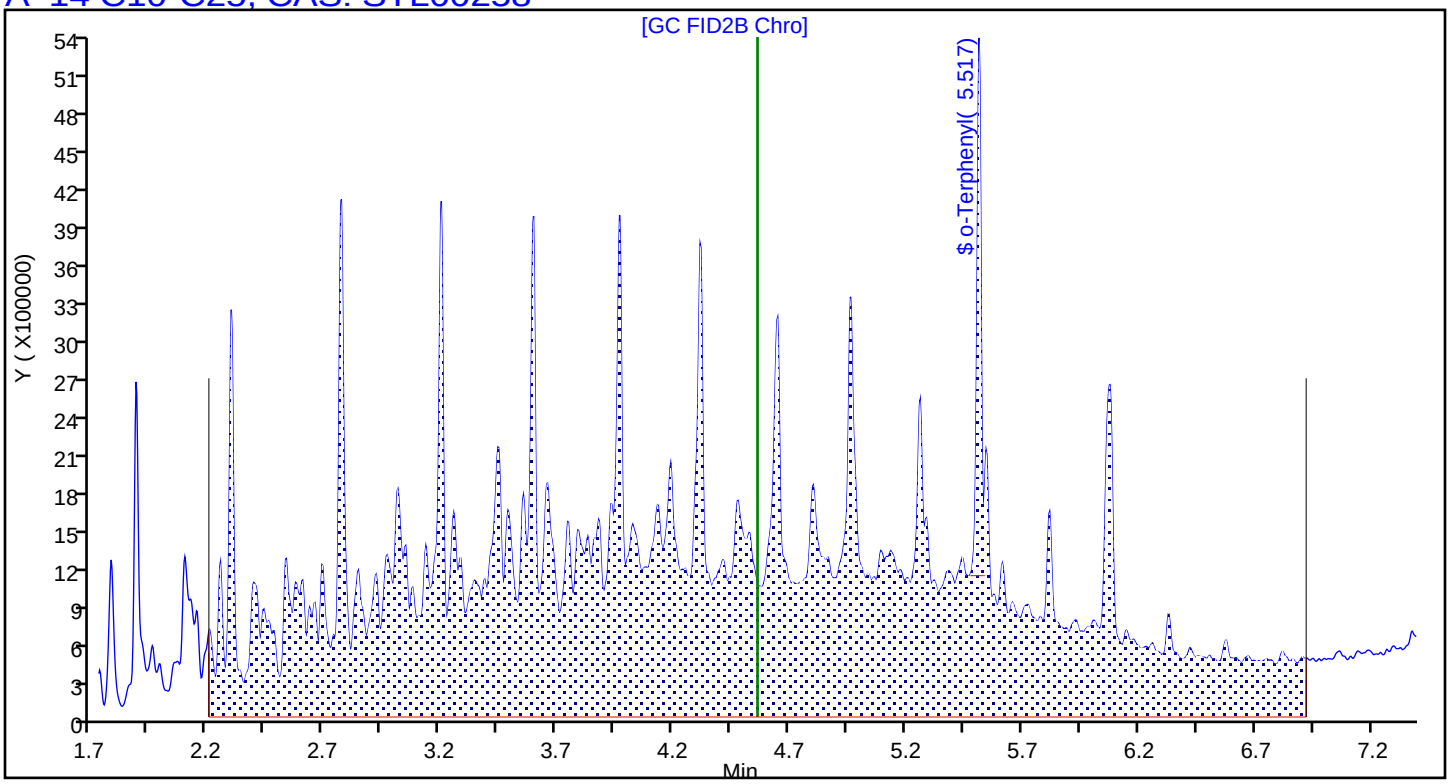


Report Date: 23-Sep-2024 07:59:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a029.D				
Injection Date:	20-Sep-2024 17:19:38	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



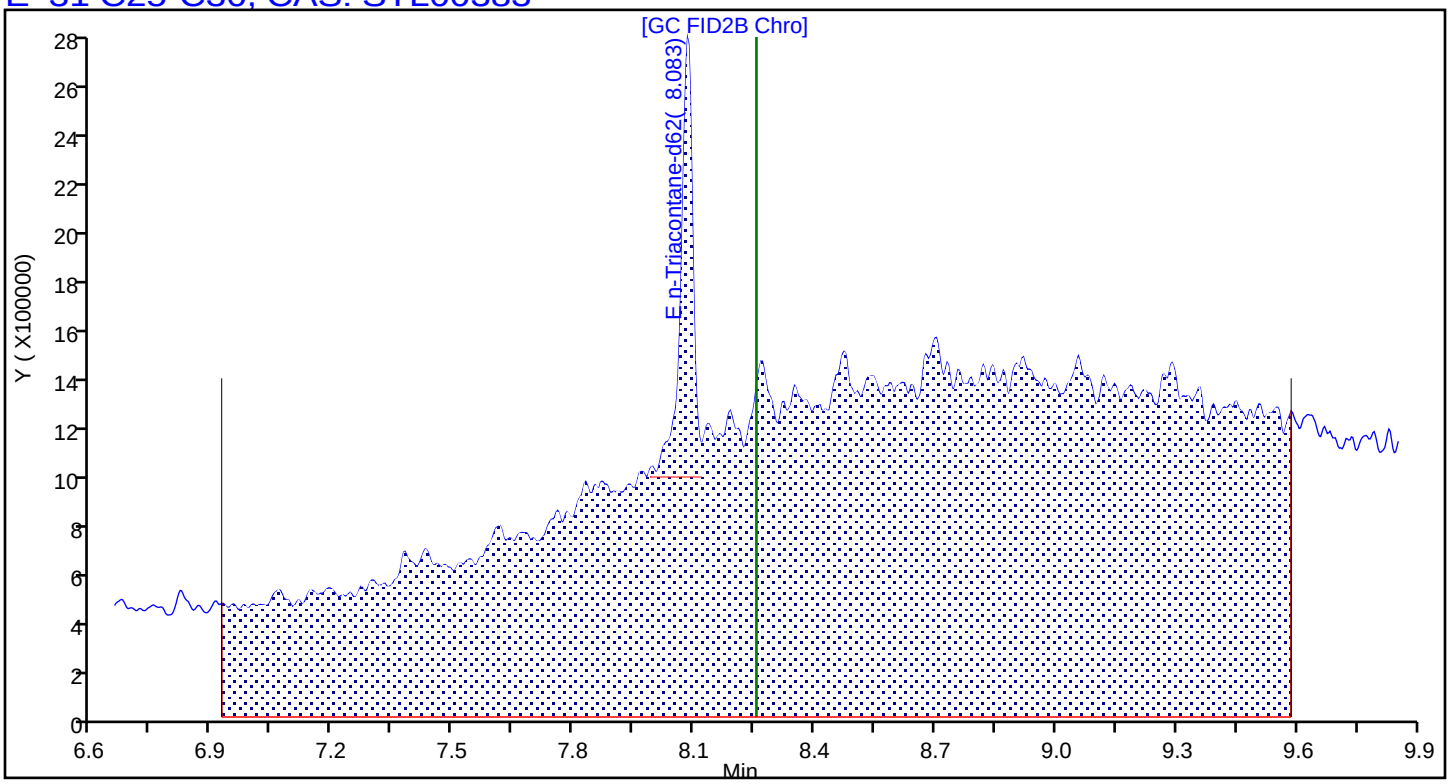
Report Date: 23-Sep-2024 07:59:15 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a029.D

Injection Date:	20-Sep-2024 17:19:38	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Eurofins Seattle

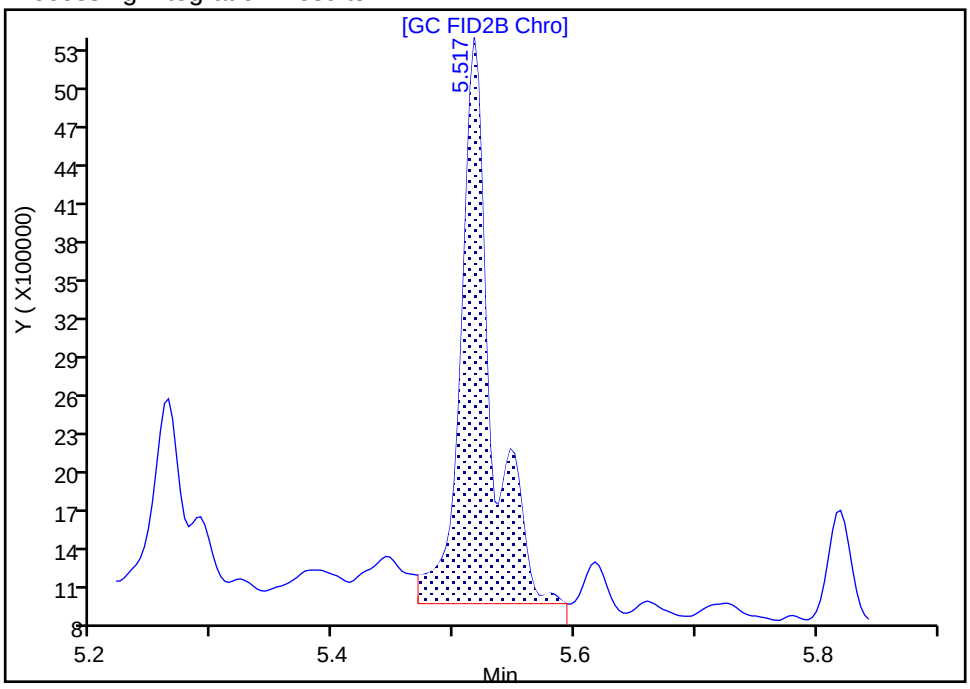
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a029.D				
Injection Date:	20-Sep-2024 17:19:38	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

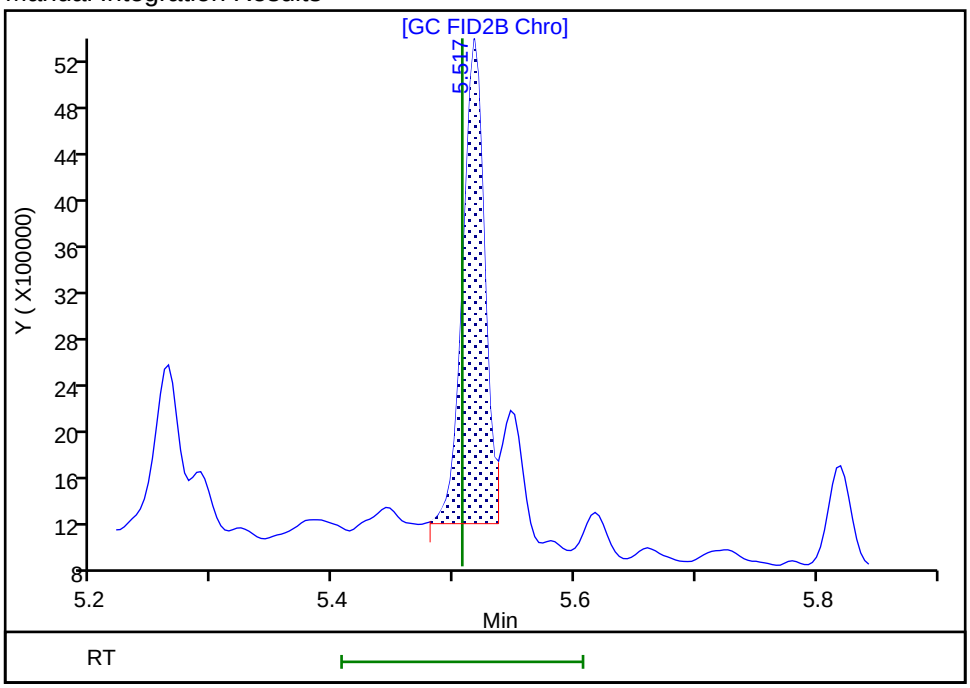
Processing Integration Results

RT: 5.52
Area: 7695971
Amount: 45.600123
Amount Units: ng/uL



Manual Integration Results

RT: 5.52
Area: 5259280
Amount: 33.905785
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:48:49 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a031.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 20-Sep-2024 17:39:19 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:59:21 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 20-Sep-2024 18:03:20

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.900	1.890	0.010	9753223	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		785196224	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		745155090	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		750106667	5000.0	4820.8	
A	16 C12-C24	4.975	(3.107-6.843)		621680575	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		822600060	NC	NC	
$	19 o-Terphenyl	5.527	5.507	0.020	13187745	104.0	85.0	M
A	27 C24-C32	7.775	(6.843-8.707)		247615148	NC	NC	
E	28 n-Triacontane-d62	8.103	8.070	0.033	10391773	72.5	70.9	
A	30 C24-C36	8.215	(6.843-9.587)		430171435	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		430171435	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		425219858	5000.0	4964.2	
A	33 C24-C40	8.710	(6.913-10.507)		562440510	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		481932116	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_5000_00024 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:21 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a031.D

Injection Date: 20-Sep-2024 17:39:19 Instrument ID: TAC129_R

Lims ID: IC

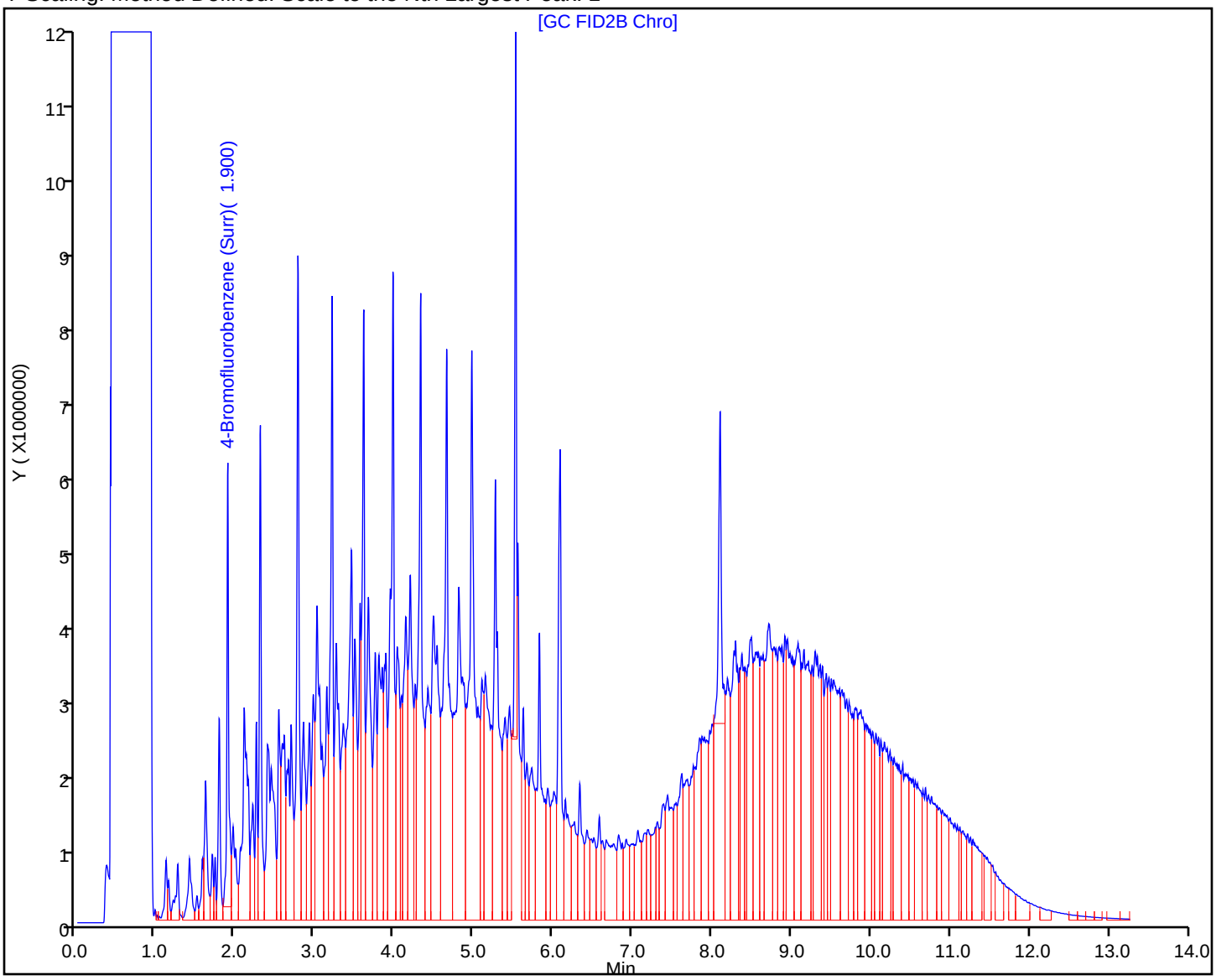
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



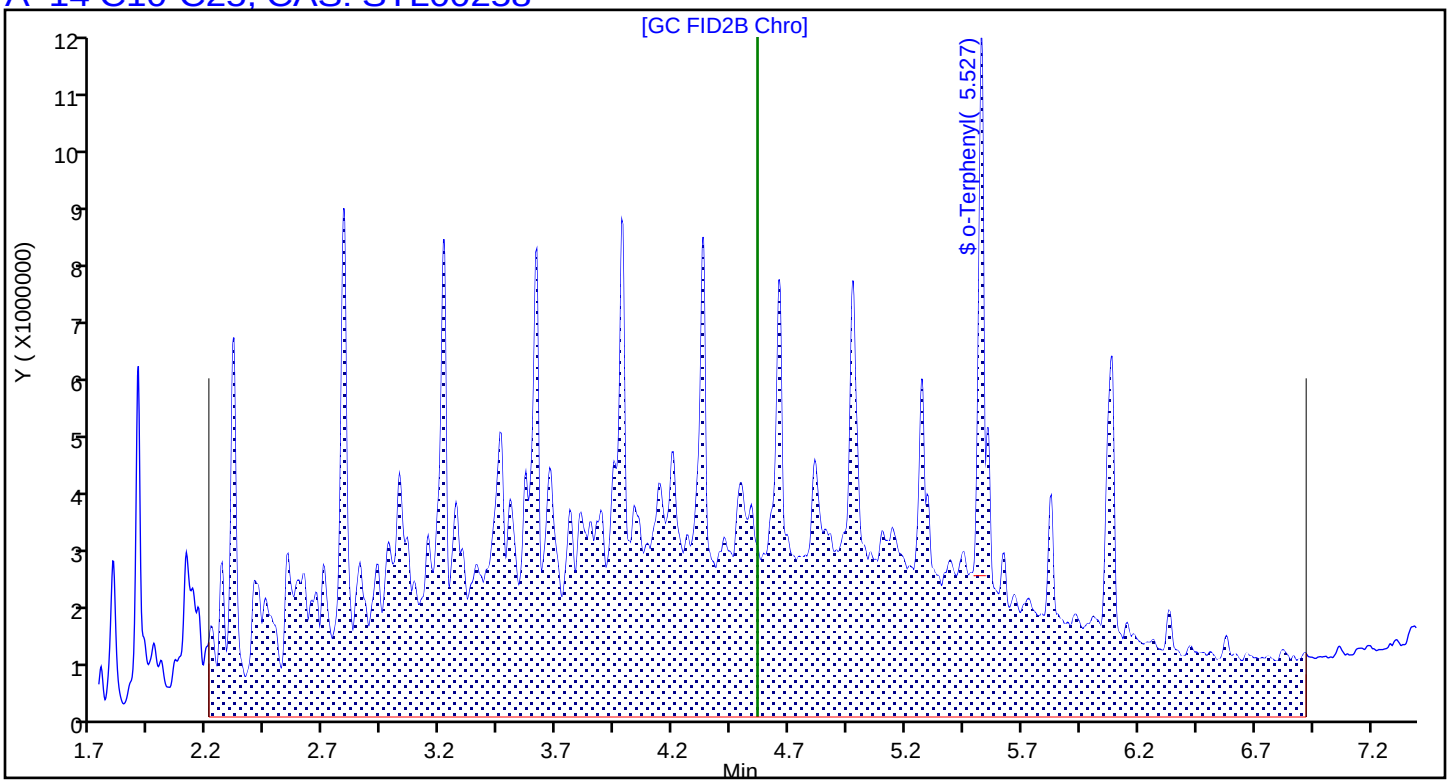
Report Date: 23-Sep-2024 07:59:21 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a031.D

Injection Date:	20-Sep-2024 17:39:19	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Report Date: 23-Sep-2024 07:59:21 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a031.D

Injection Date: 20-Sep-2024 17:39:19 Instrument ID: TAC129_R

Lims ID: IC

Client ID:

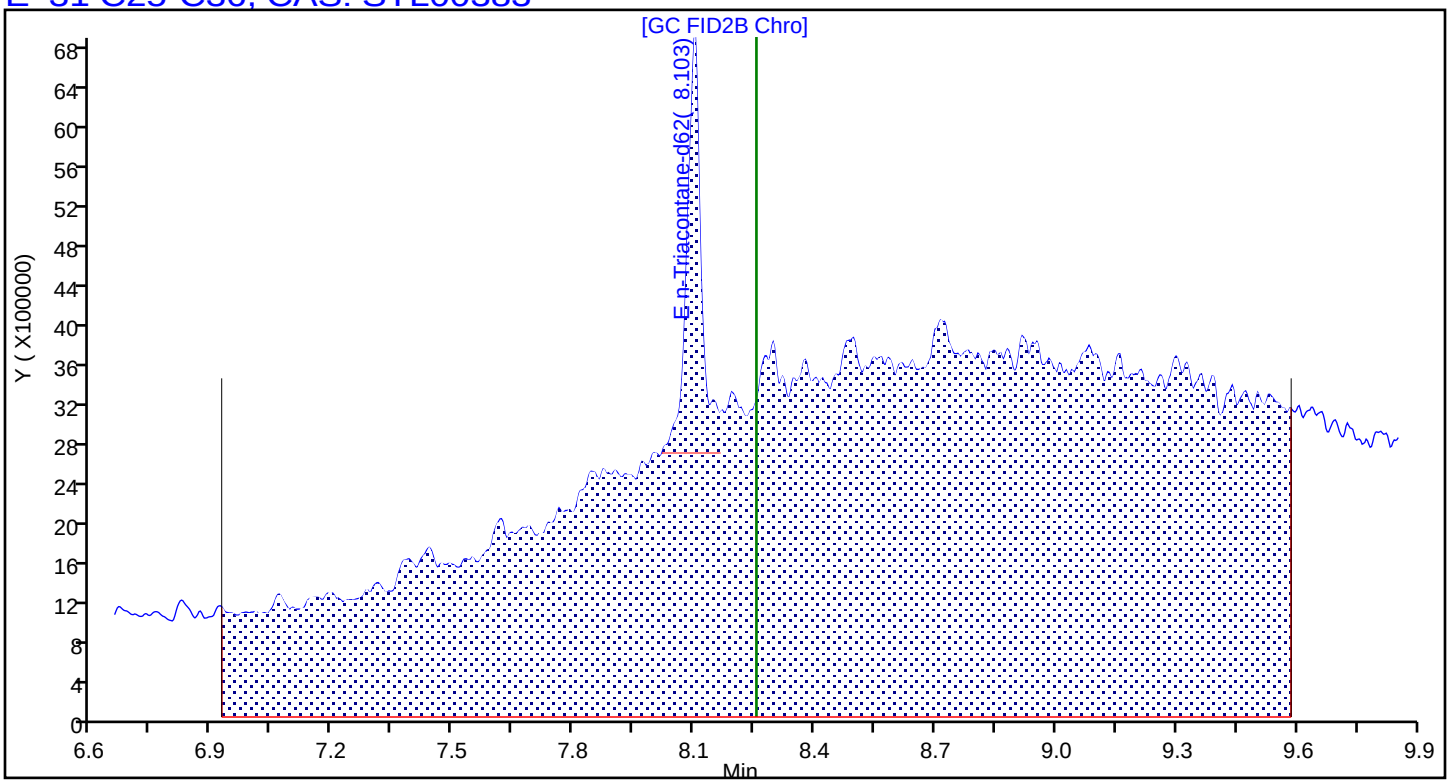
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Column: Detector GC FID1A

E_31 C25-C36, CAS: STL00383



Eurofins Seattle

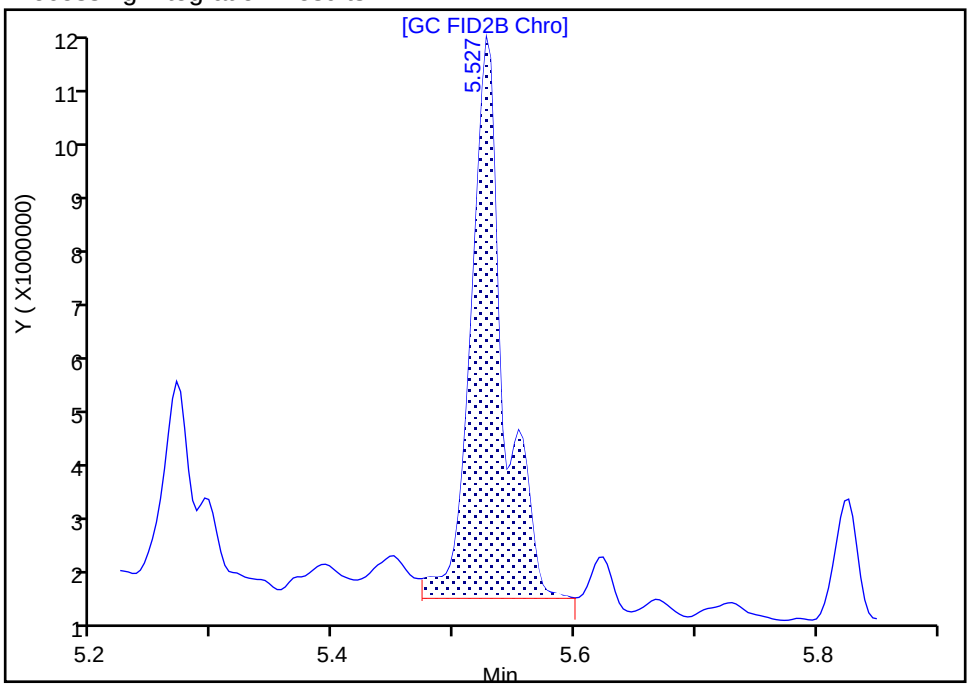
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a031.D
Injection Date: 20-Sep-2024 17:39:19 Instrument ID: TAC129_R
Lims ID: IC
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

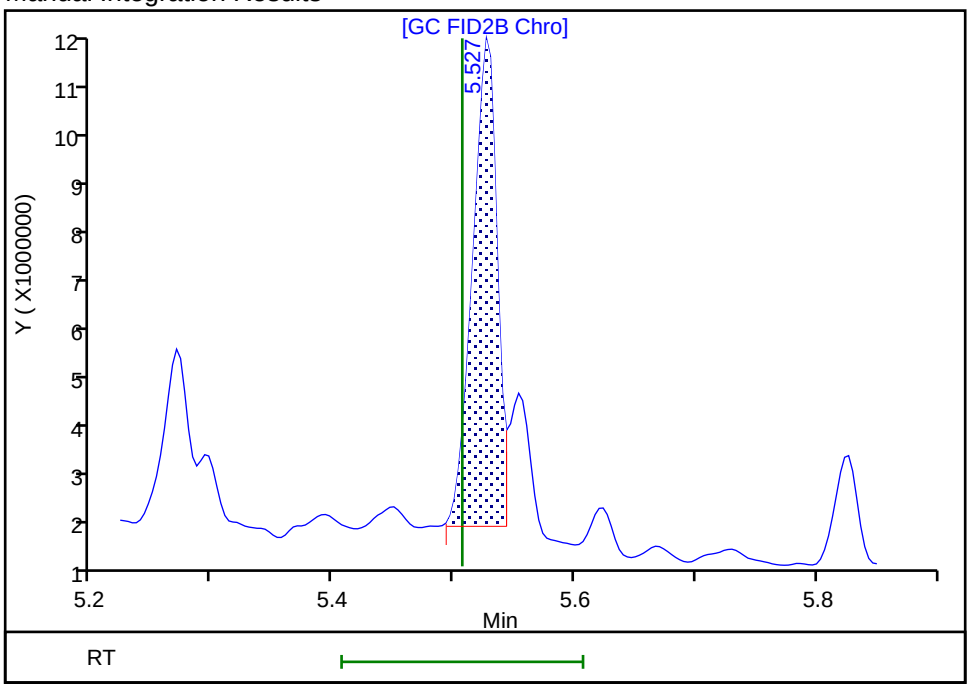
Processing Integration Results

RT: 5.53
Area: 18183429
Amount: 111.2504
Amount Units: ng/uL



Manual Integration Results

RT: 5.53
Area: 13187745
Amount: 85.019402
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:49:10 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 20-Sep-2024 17:59:07 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 07:59:27 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 07:56:52

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.910	1.890	0.020	19897921	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		1613519119	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		1531106621	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		1541515612	10000	9909.4	
A	16 C12-C24	4.975	(3.107-6.843)		1277701592	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		1694067469	NC	NC	
$	19 o-Terphenyl	5.547	5.507	0.040	27811585	208.0	179.3	M
A	27 C24-C32	7.775	(6.843-8.707)		505753355	NC	NC	
E	28 n-Triacontane-d62	8.127	8.070	0.057	28020238	145.0	191.3	
A	30 C24-C36	8.215	(6.843-9.587)		879877384	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		879877384	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		869468393	10000	10153	
A	33 C24-C40	8.710	(6.913-10.507)		1146231453	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		978895367	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-IC_10000_00120 Amount Added: 1.00 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 07:59:27 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Injection Date: 20-Sep-2024 17:59:07 Instrument ID: TAC129_R

Lims ID: IC

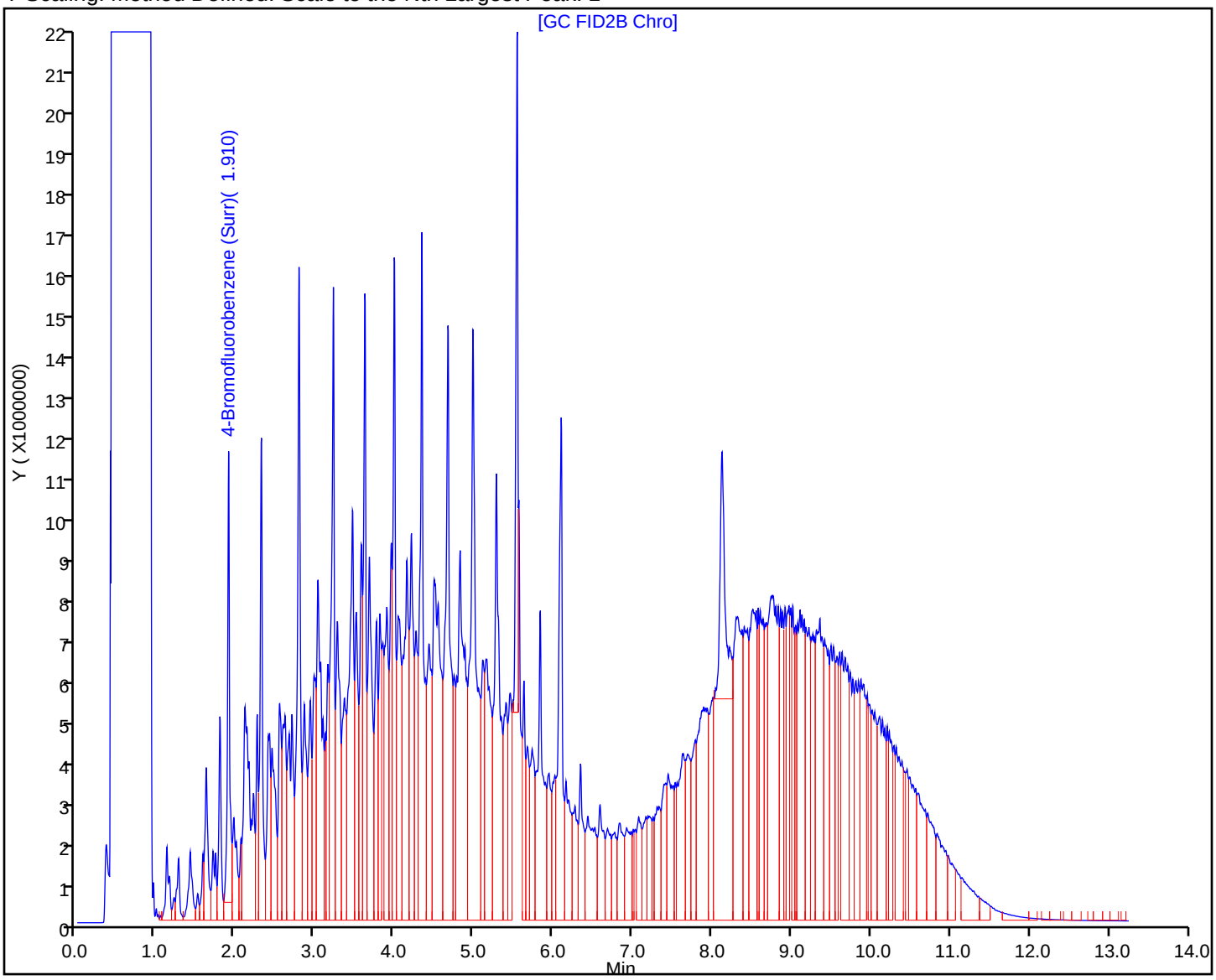
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



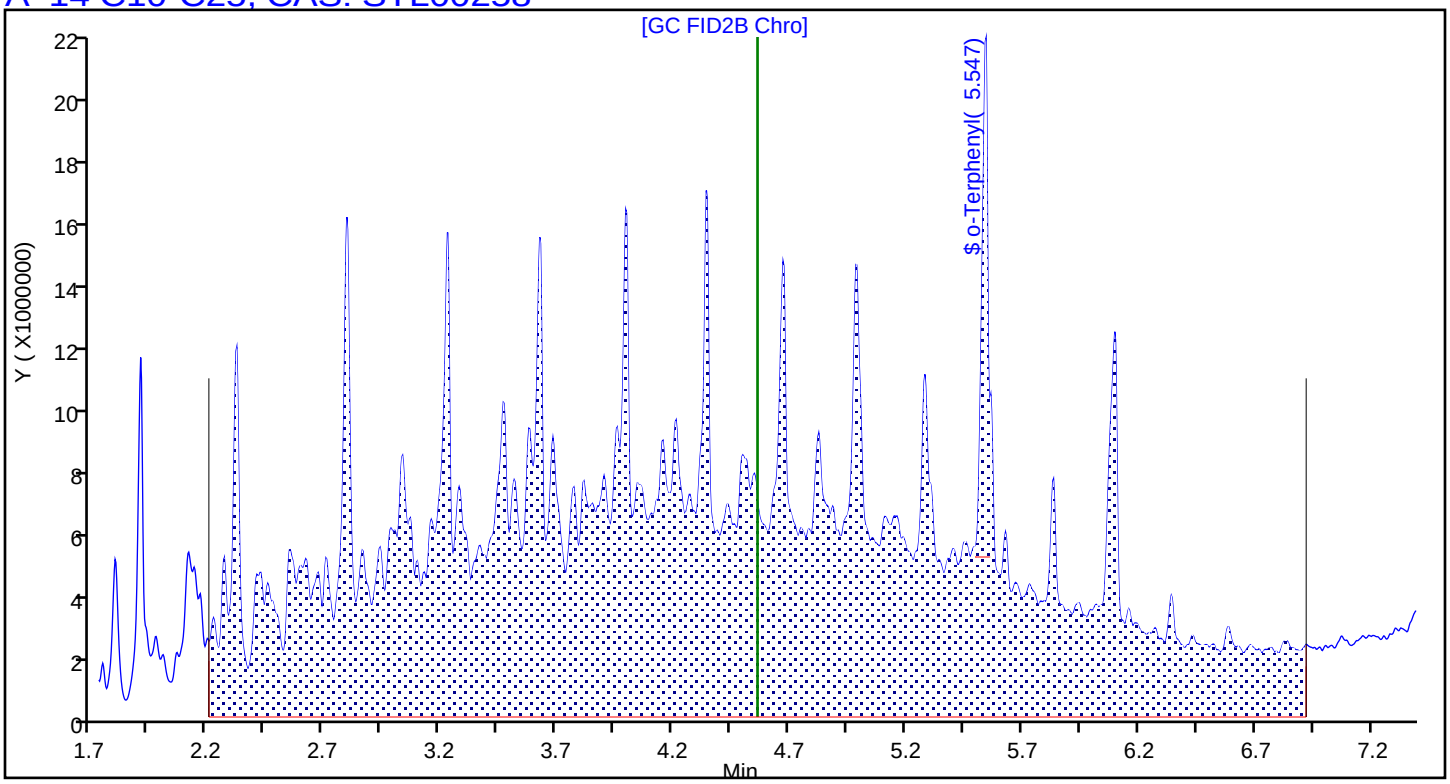
Report Date: 23-Sep-2024 07:59:27 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Injection Date:	20-Sep-2024 17:59:07	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



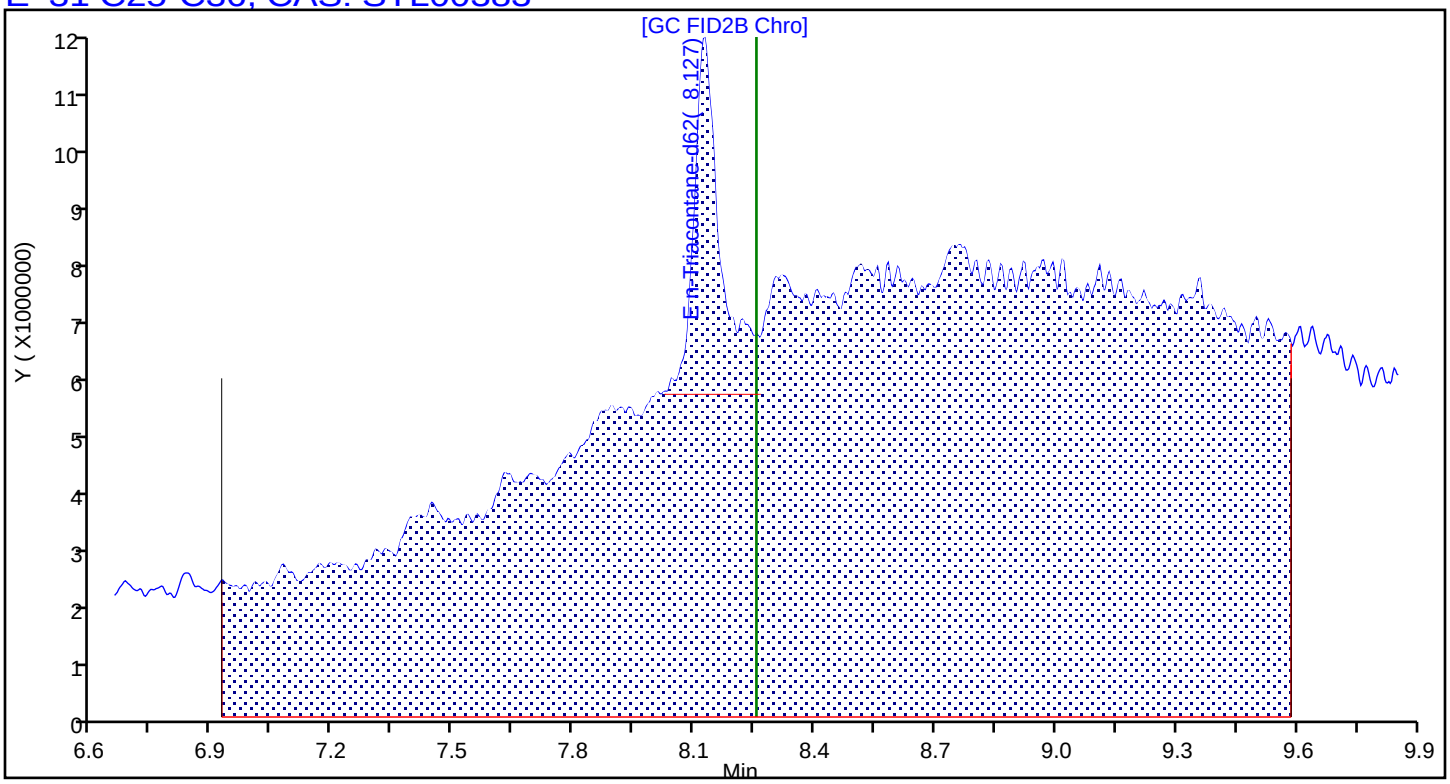
Report Date: 23-Sep-2024 07:59:27 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Injection Date:	20-Sep-2024 17:59:07	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Eurofins Seattle

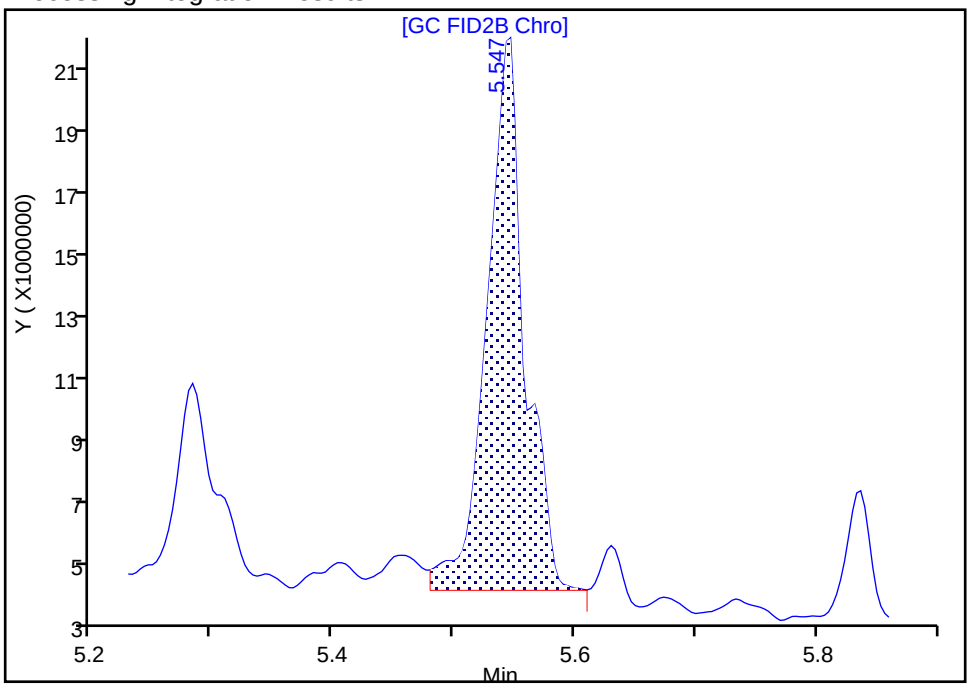
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D				
Injection Date:	20-Sep-2024 17:59:07	Instrument ID:	TAC129_R		
Lims ID:	IC				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

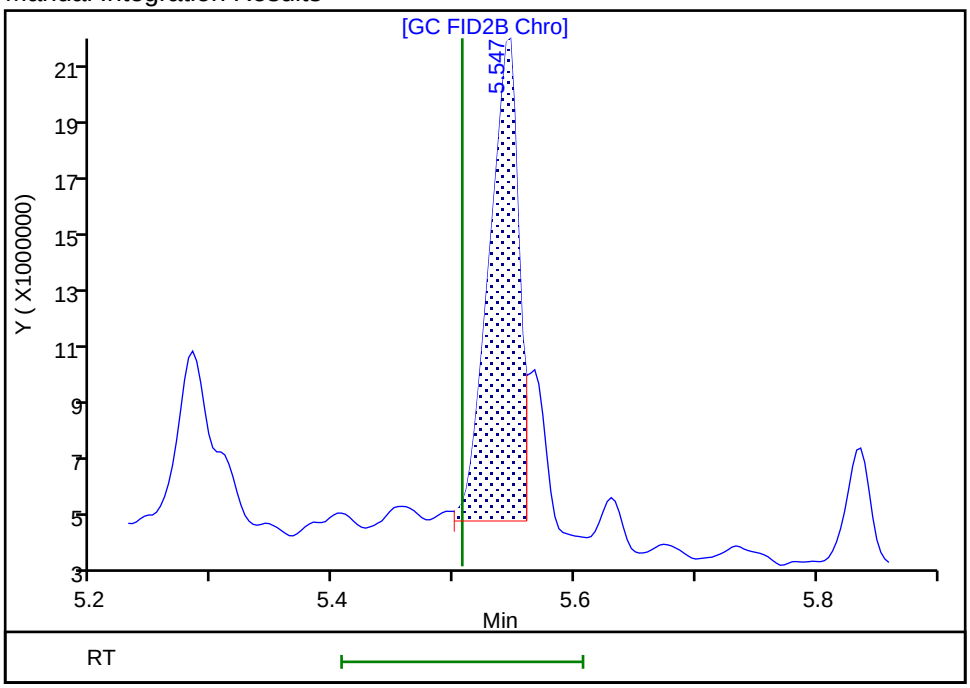
Processing Integration Results

RT: 5.55
Area: 36882383
Amount: 231.8494
Amount Units: ng/uL



Manual Integration Results

RT: 5.55
Area: 27811585
Amount: 179.2971
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:49:38 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Calibration / C10-C25

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

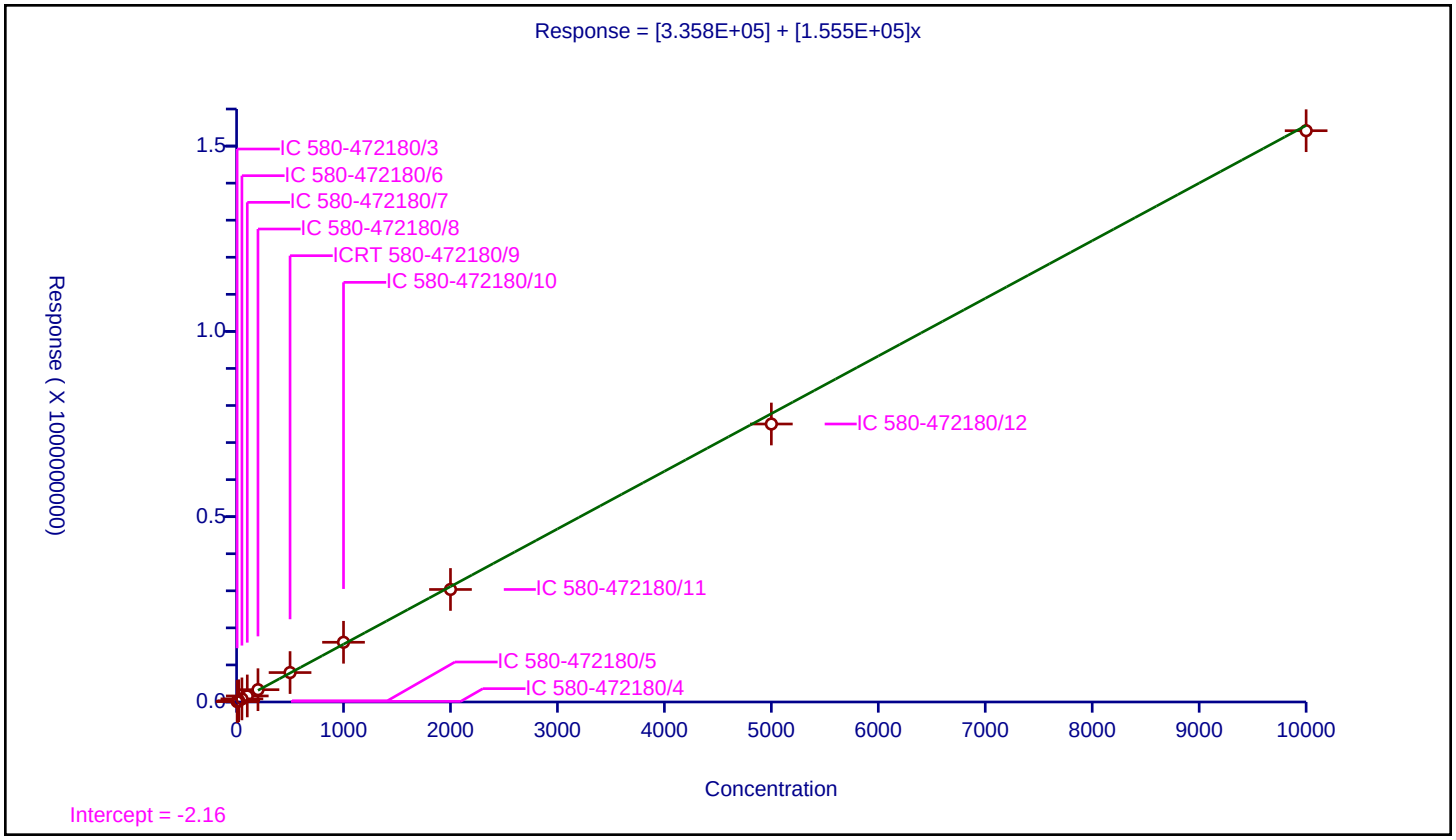
Curve Coefficients

Intercept:	3.358E+05
Slope:	1.555E+05

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472180/3	5.0	1169219.0			233843.8	Y
2	IC 580-472180/4	10.0	1670308.0			167030.8	Y
3	IC 580-472180/5	20.0	3357173.0			167858.65	Y
4	IC 580-472180/6	50.0	8371609.0			167432.18	Y
5	IC 580-472180/7	100.0	16330189.0			163301.89	Y
6	IC 580-472180/8	200.0	33189034.0			165945.17	Y
7	ICRT 580-472180/9	500.0	79424768.0			158849.536	Y
8	IC 580-472180/10	1000.0	161107717.0			161107.717	Y
9	IC 580-472180/11	2000.0	303625537.0			151812.7685	Y
10	IC 580-472180/12	5000.0	750106667.0			150021.3334	Y
11	IC 580-472180/13	10000.0	1541515612.0			154151.5612	Y



Calibration / o-Terphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

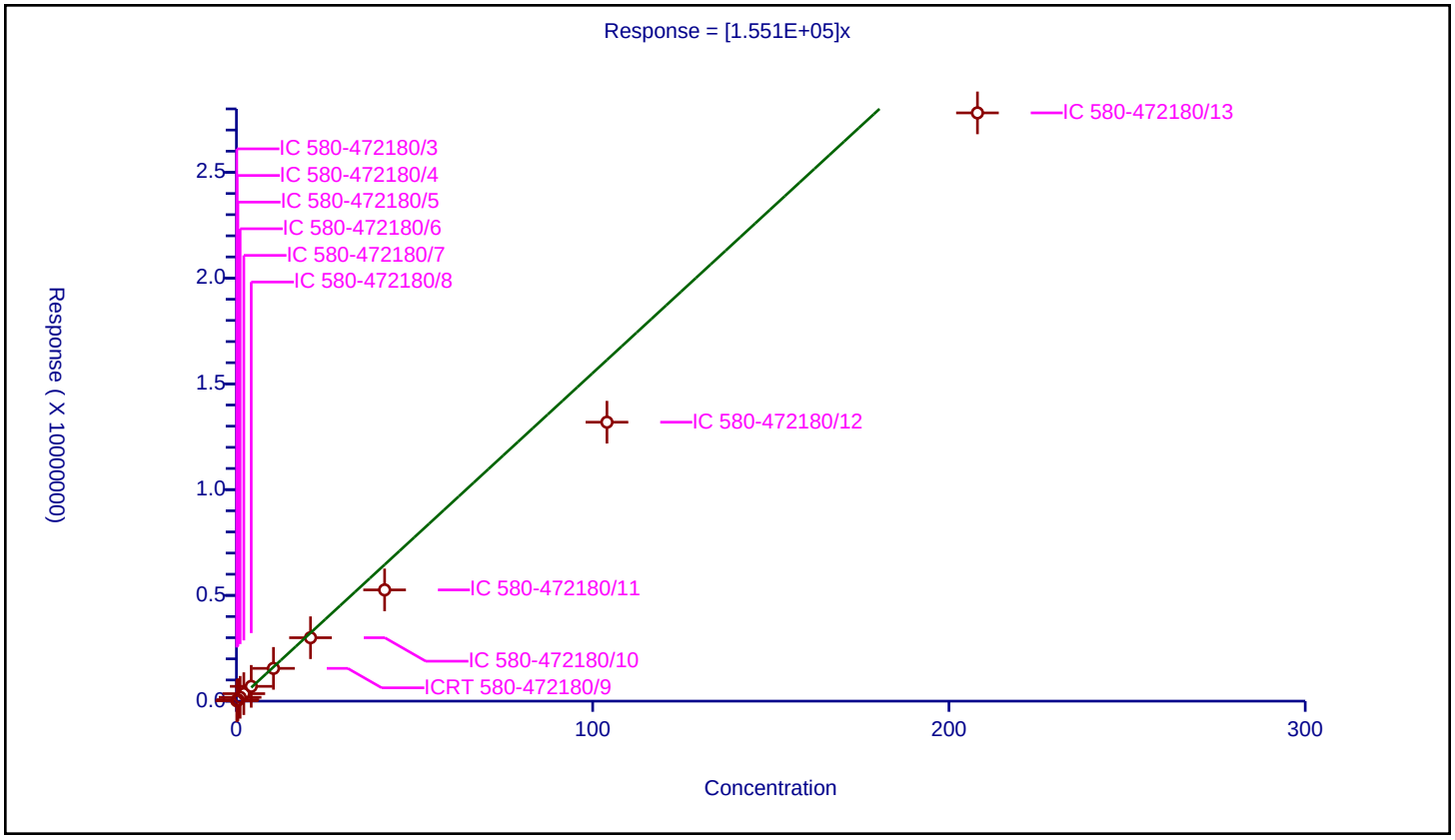
Curve Coefficients

Intercept:	0
Slope:	1.551E+05

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472180/3	0.104	18547.0			178336.538462	Y
2	IC 580-472180/4	0.208	34263.0			164725.961538	Y
3	IC 580-472180/5	0.416	70928.0			170500.0	Y
4	IC 580-472180/6	1.04	180762.0			173809.615385	Y
5	IC 580-472180/7	2.08	354812.0			170582.692308	Y
6	IC 580-472180/8	4.16	699985.0			168265.625	Y
7	ICRT 580-472180/9	10.4	1548804.0			148923.461538	Y
8	IC 580-472180/10	20.8	2998865.0			144176.201923	Y
9	IC 580-472180/11	41.6	5259280.0			126425.0	Y
10	IC 580-472180/12	104.0	13187745.0			126805.240385	Y
11	IC 580-472180/13	208.0	27811585.0			133709.543269	Y



Calibration / n-Triacontane-d62

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

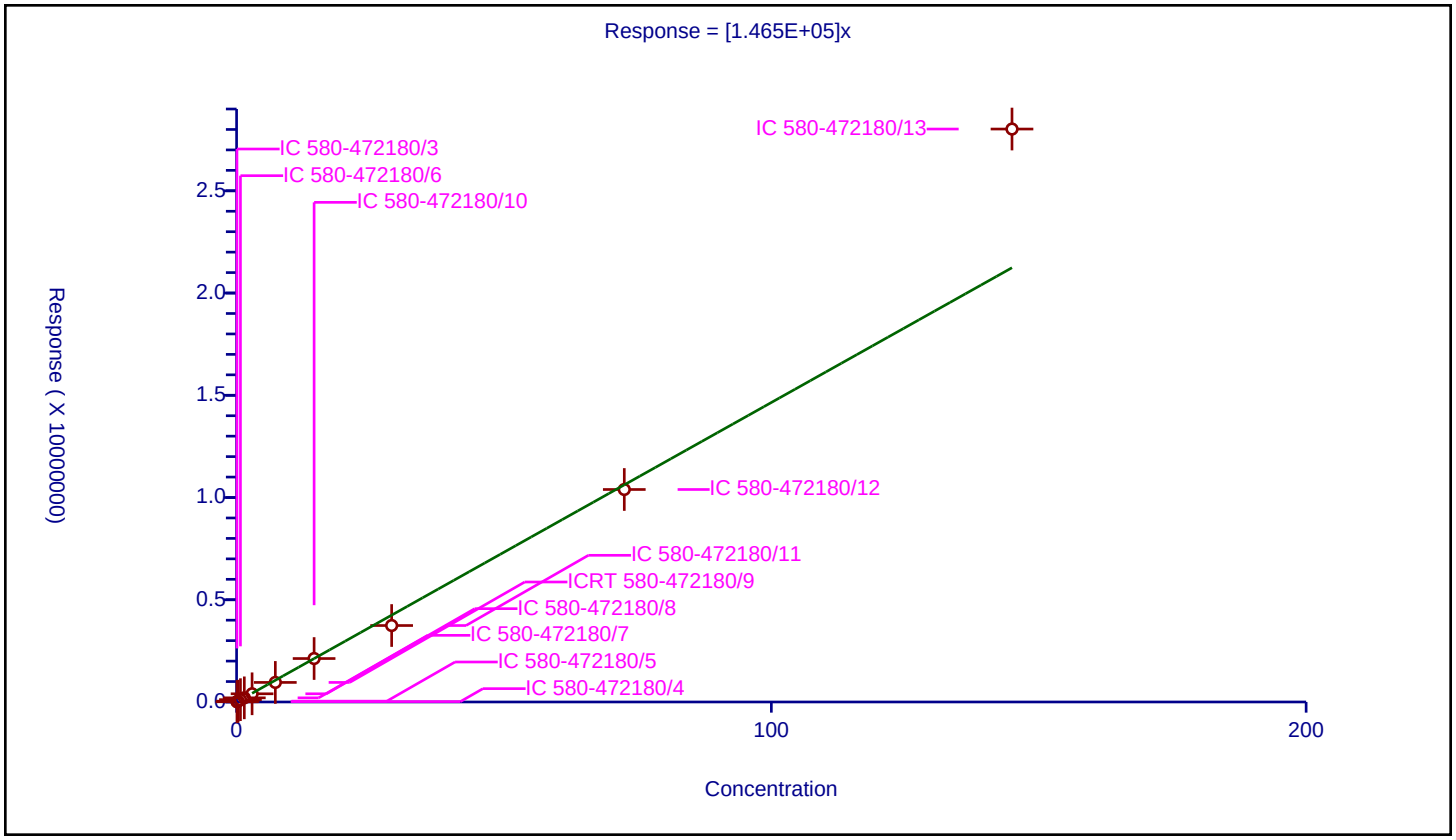
Curve Coefficients

Intercept:	0
Slope:	1.465E+05

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472180/3	0.0725	11026.0			152082.758621	Y
2	IC 580-472180/4	0.145	19792.0			136496.551724	Y
3	IC 580-472180/5	0.29	41654.0			143634.482759	Y
4	IC 580-472180/6	0.725	113954.0			157177.931034	Y
5	IC 580-472180/7	1.45	202163.0			139422.758621	Y
6	IC 580-472180/8	2.9	400885.0			138236.206897	Y
7	ICRT 580-472180/9	7.25	956890.0			131984.827586	Y
8	IC 580-472180/10	14.5	2125561.0			146590.413793	Y
9	IC 580-472180/11	29.0	3739300.0			128941.37931	Y
10	IC 580-472180/12	72.5	10391773.0			143334.8	Y
11	IC 580-472180/13	145.0	28020238.0			193243.02069	Y



Calibration / C25-C36

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

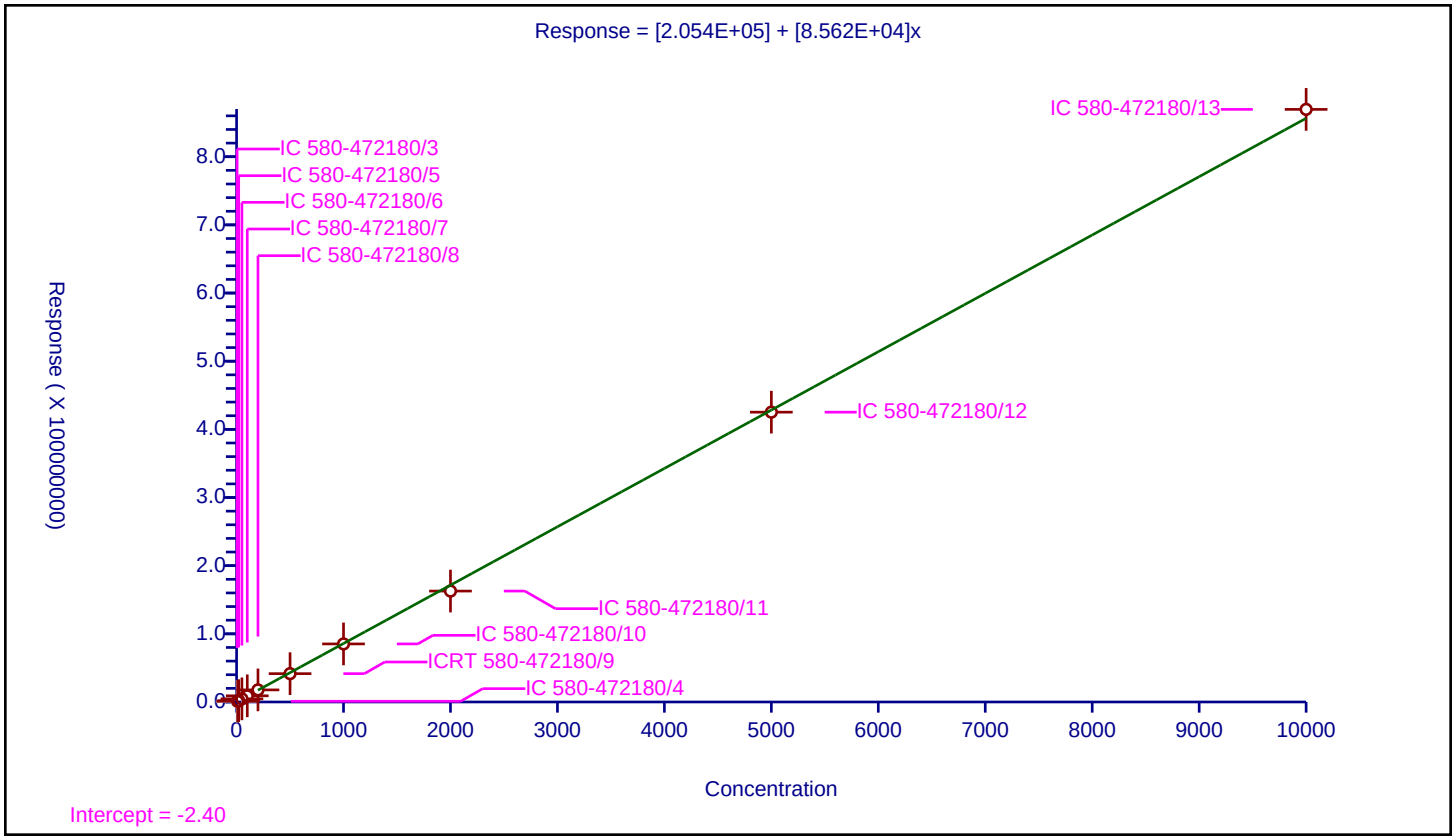
Curve Coefficients

Intercept:	2.054E+05
Slope:	8.562E+04

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 580-472180/3	5.0	830398.0			166079.6	N
2	IC 580-472180/4	10.0	1045620.0			104562.0	Y
3	IC 580-472180/5	20.0	1952571.0			97628.55	Y
4	IC 580-472180/6	50.0	4593878.0			91877.56	Y
5	IC 580-472180/7	100.0	9042655.0			90426.55	Y
6	IC 580-472180/8	200.0	17754150.0			88770.75	Y
7	ICRT 580-472180/9	500.0	41569280.0			83138.56	Y
8	IC 580-472180/10	1000.0	85187660.0			85187.66	Y
9	IC 580-472180/11	2000.0	162725678.0			81362.839	Y
10	IC 580-472180/12	5000.0	425219858.0			85043.9716	Y
11	IC 580-472180/13	10000.0	869468393.0			86946.8393	Y



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: ICV 580-472407/14 | Calibration Date: 09/23/2024 13:26

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 09232024a028.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		160482		494	500	-1.2	25.0
RRO (nC25-nC36)	Lin2		84655		476	500	-4.8	25.0
o-Terphenyl	Ave	161005	142535		9.21	10.4	-11.5	25.0
n-Triacontane-d62	Ave	135932	122290		6.52	7.25	-10.0	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: ICV 580-472407/14 Calibration Date: 09/23/2024 13:26

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 09232024a028.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.44	2.06	6.82
RRO (nC25-nC36)	8.11	6.82	9.40
o-Terphenyl	5.36	5.27	5.47
n-Triacontane-d62	7.92	7.82	8.02

Report Date: 23-Sep-2024 15:47:04 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a028.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 23-Sep-2024 13:26:49 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: SW Instrument ID: TAC129
Sublist:

Method: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 15:46:57 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 15:17:12

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.733	1.733	0.000	933187	NC	NC	
A	10 C9-C25	4.252	(1.593-6.910)		84090339	NC	NC	
A	12 C10-C24	4.383	(2.063-6.703)		79411741	NC	NC	
A	13 C10-C25	4.440	(2.063-6.817)		80240949	500.0	494.0	
A	14 C12-C24	4.840	(2.977-6.703)		66166534	NC	NC	
A	15 C10-C28	4.843	(2.063-7.623)		88144212	NC	NC	
$	17 o-Terphenyl	5.363	5.370	-0.007	1482366	10.4	9.21	M
A	25 C24-C32	7.620	(6.703-8.537)		25961054	NC	NC	
E	26 n-Triacontane-d62	7.917	7.923	-0.006	886605	7.25	6.52	
A	27 C24-C36	8.053	(6.703-9.403)		43156550	NC	NC	
A	28 Motor Oil	8.053	(6.703-9.403)		43156550	NC	NC	
E	29 C25-C36	8.110	(6.817-9.403)		42327342	500.0	475.8	
A	31 C24-C40	8.545	(6.773-10.317)		55955097	NC	NC	
A	33 C28-C40	8.940	(7.623-10.257)		47011736	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-ICV_10000_00020	Amount Added:	0.05	Units: mL	
	Amount Added:	1.00	Units: mL	Run Reagent

Report Date: 23-Sep-2024 15:47:04 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a028.D

Injection Date: 23-Sep-2024 13:26:49 Instrument ID: TAC129

Lims ID: ICV

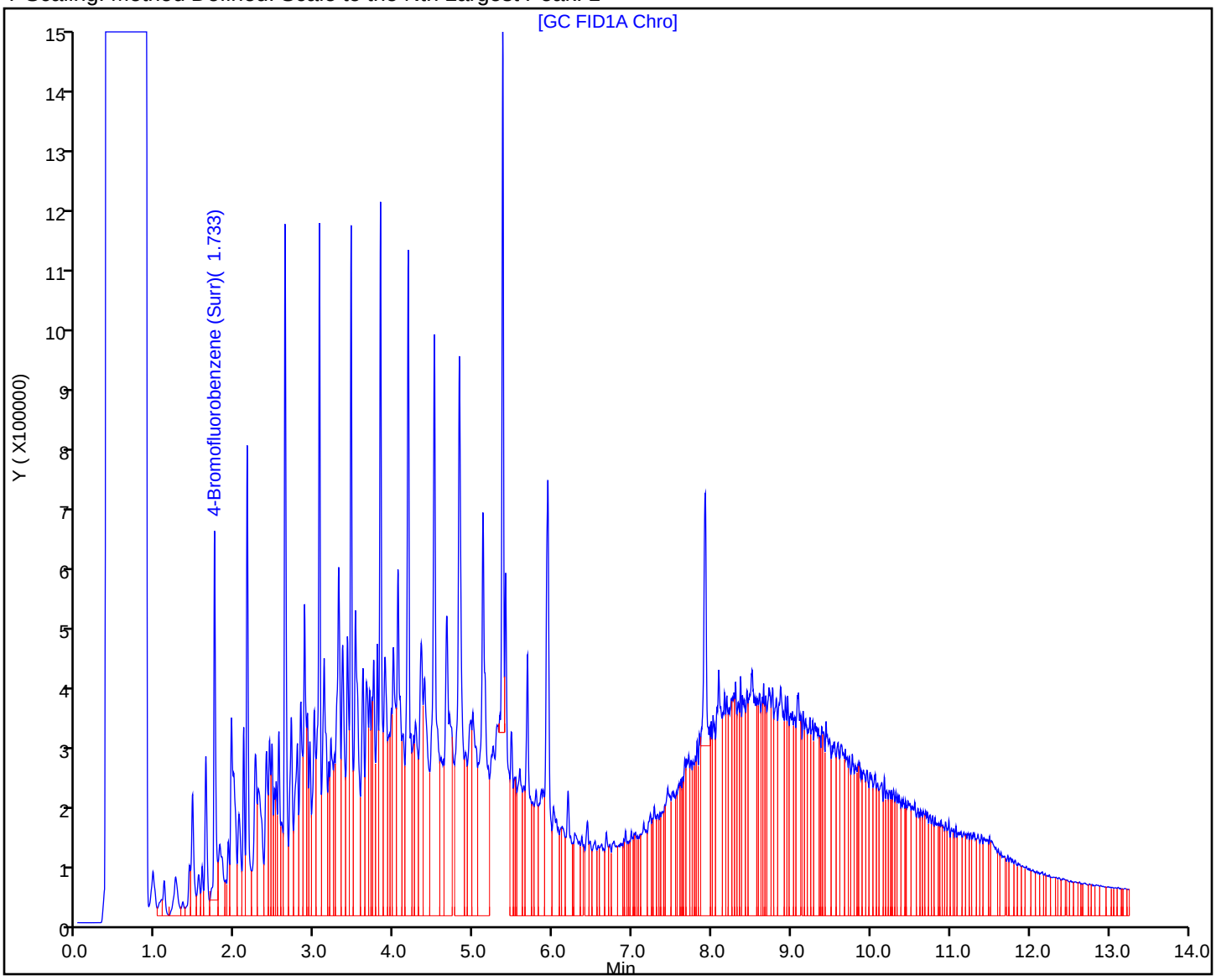
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



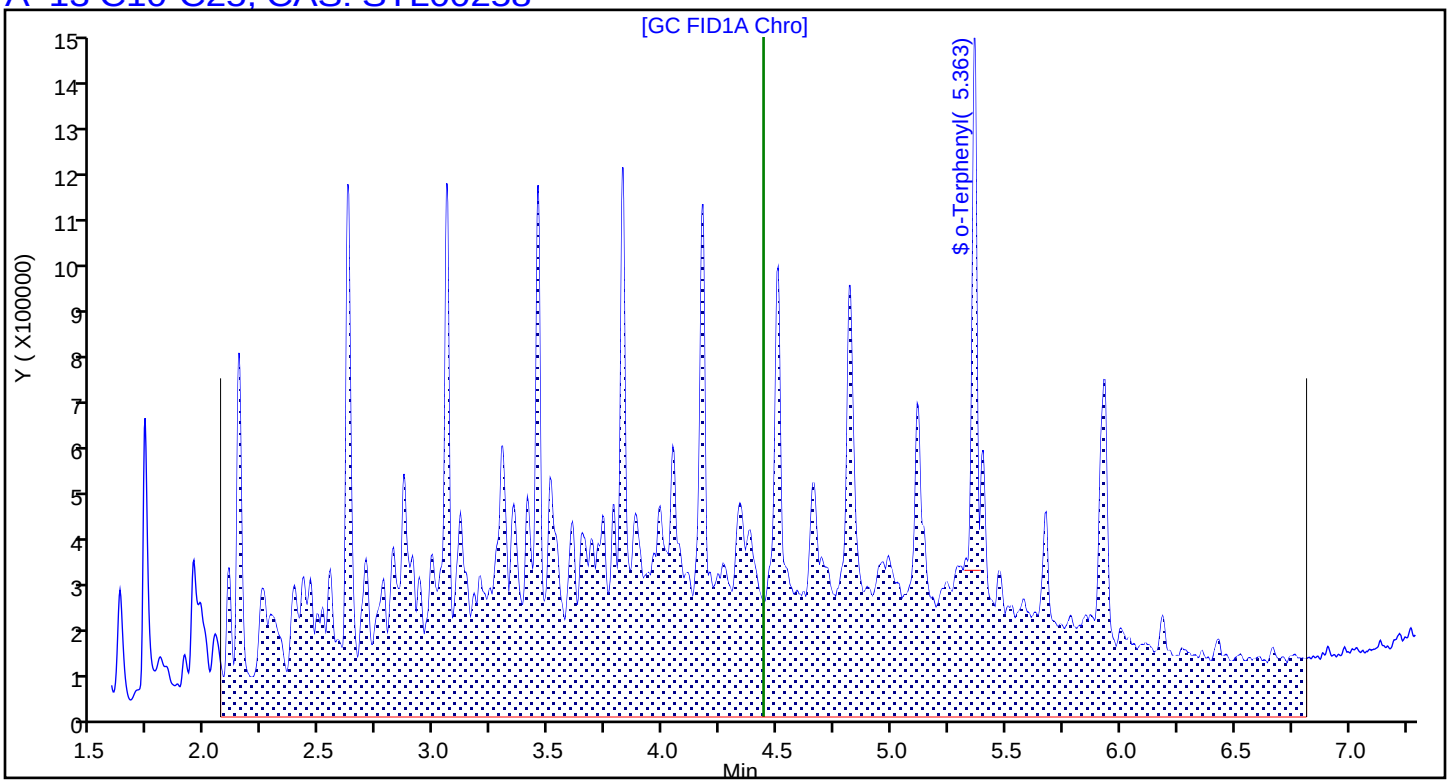
Report Date: 23-Sep-2024 15:47:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a028.D

Injection Date:	23-Sep-2024 13:26:49	Instrument ID:	TAC129		
Lims ID:	ICV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

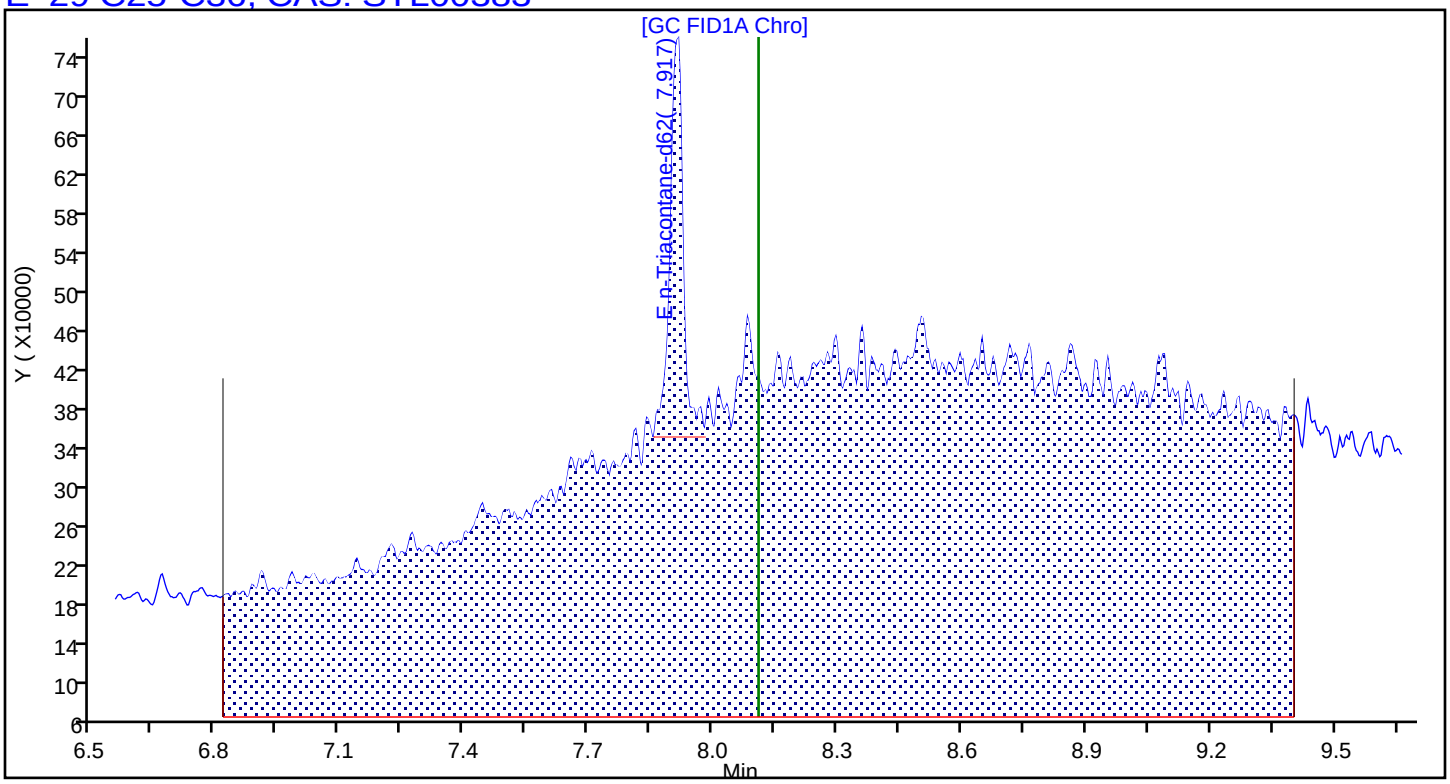


Report Date: 23-Sep-2024 15:47:05 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a028.D				
Injection Date:	23-Sep-2024 13:26:49	Instrument ID:	TAC129		
Lims ID:	ICV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

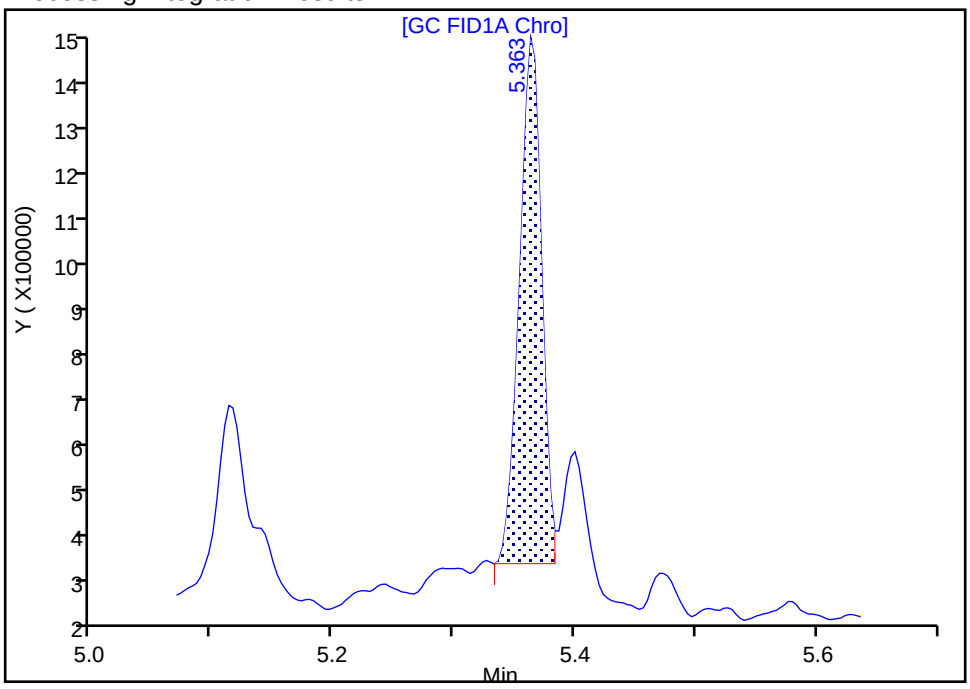
Data File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a028.D
Injection Date: 23-Sep-2024 13:26:49 Instrument ID: TAC129
Lims ID: ICV
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 17 o-Terphenyl, CAS: 84-15-1

Signal: 1

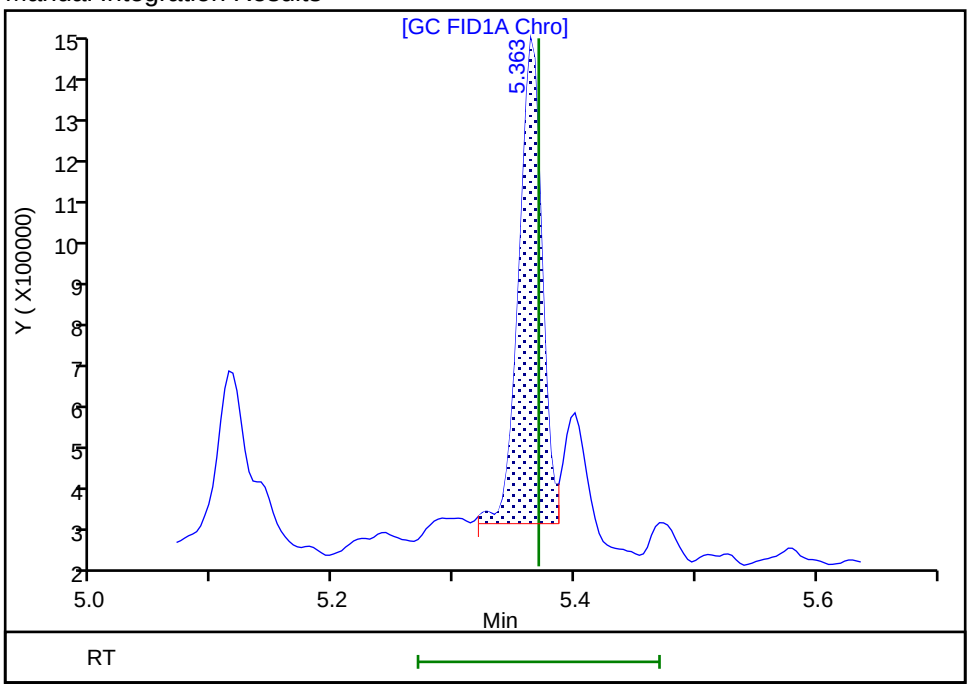
Processing Integration Results

RT: 5.36
Area: 1388356
Amount: 8.623069
Amount Units: ng/uL



Manual Integration Results

RT: 5.36
Area: 1482366
Amount: 9.206964
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 14:19:32 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCVRT 580-475531/3 | Calibration Date: 10/22/2024 11:59

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a006.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		176255		543	500	8.5	25.0
RRO (nC25-nC36)	Lin2		95689		538	500	7.7	25.0
o-Terphenyl	Ave	161005	160516		10.4	10.4	-0.3	25.0
n-Triacontane-d62	Ave	135932	116601		6.22	7.25	-14.2	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCVRT 580-475531/3 Calibration Date: 10/22/2024 11:59

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a006.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.27	5.17	5.37
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 22-Oct-2024 15:26:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a006.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Oct-2024 11:59:17 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 22-Oct-2024 15:26:37 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1673

First Level Reviewer: S6XW Date: 22-Oct-2024 12:16:51

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	975250	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		92579878	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		87363703	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		88127527	500.0	542.7	
A	14 C12-C24	4.742	(2.897-6.587)		73105483	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		97450500	NC	NC	
$	17 o-Terphenyl	5.267	5.267	0.000	1669362	10.4	10.4	
A	25 C24-C32	7.490	(6.587-8.393)		30042584	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	845355	7.25	6.22	
A	27 C24-C36	7.905	(6.587-9.223)		48608081	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		48608081	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		47844257	500.0	538.4	
A	31 C24-C40	8.392	(6.657-10.127)		61234435	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		51043368	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 22-Oct-2024 15:26:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a006.D

Injection Date: 22-Oct-2024 11:59:17 Instrument ID: TAC129

Lims ID: CCVRT

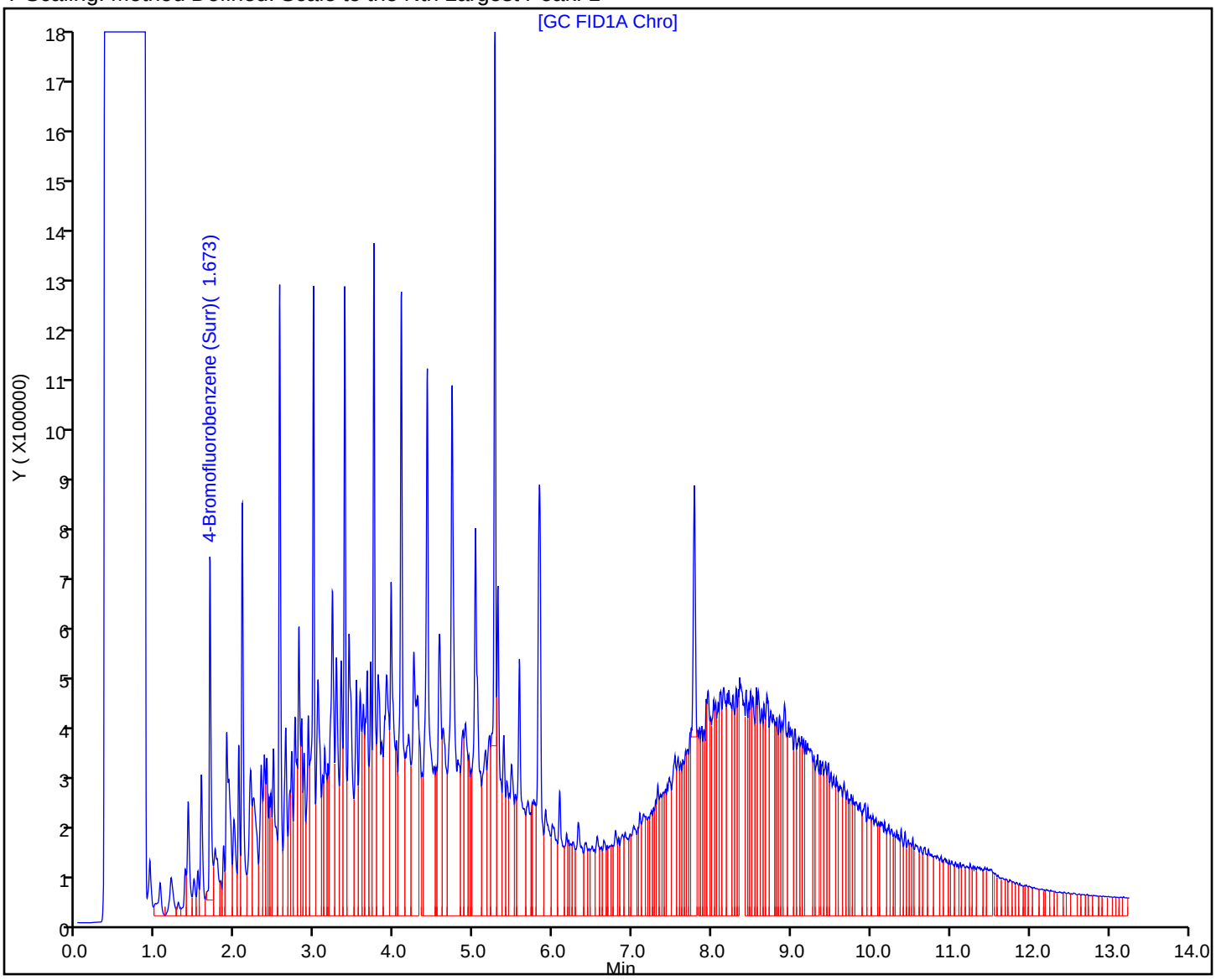
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

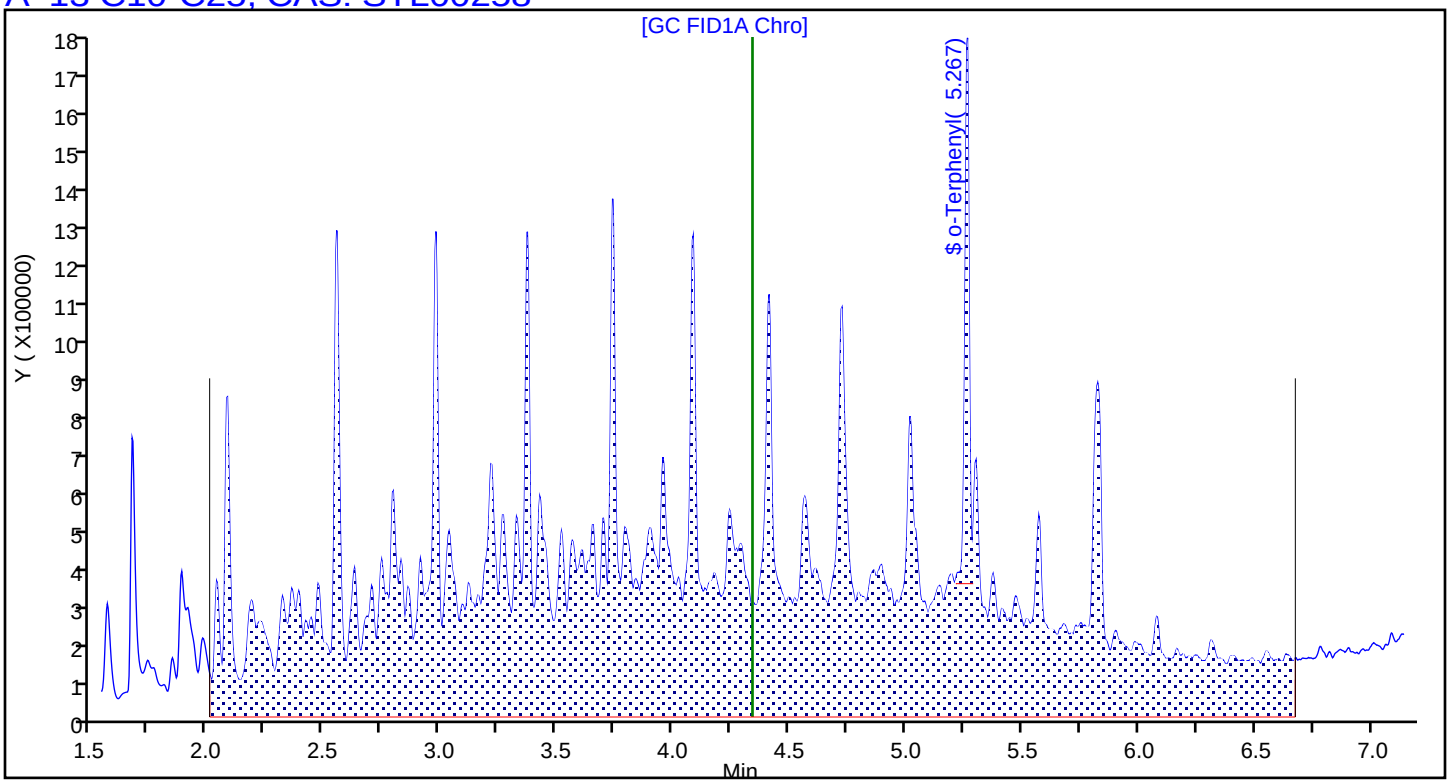


Report Date: 22-Oct-2024 15:26:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a006.D				
Injection Date:	22-Oct-2024 11:59:17	Instrument ID:	TAC129		
Lims ID:	CCVRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

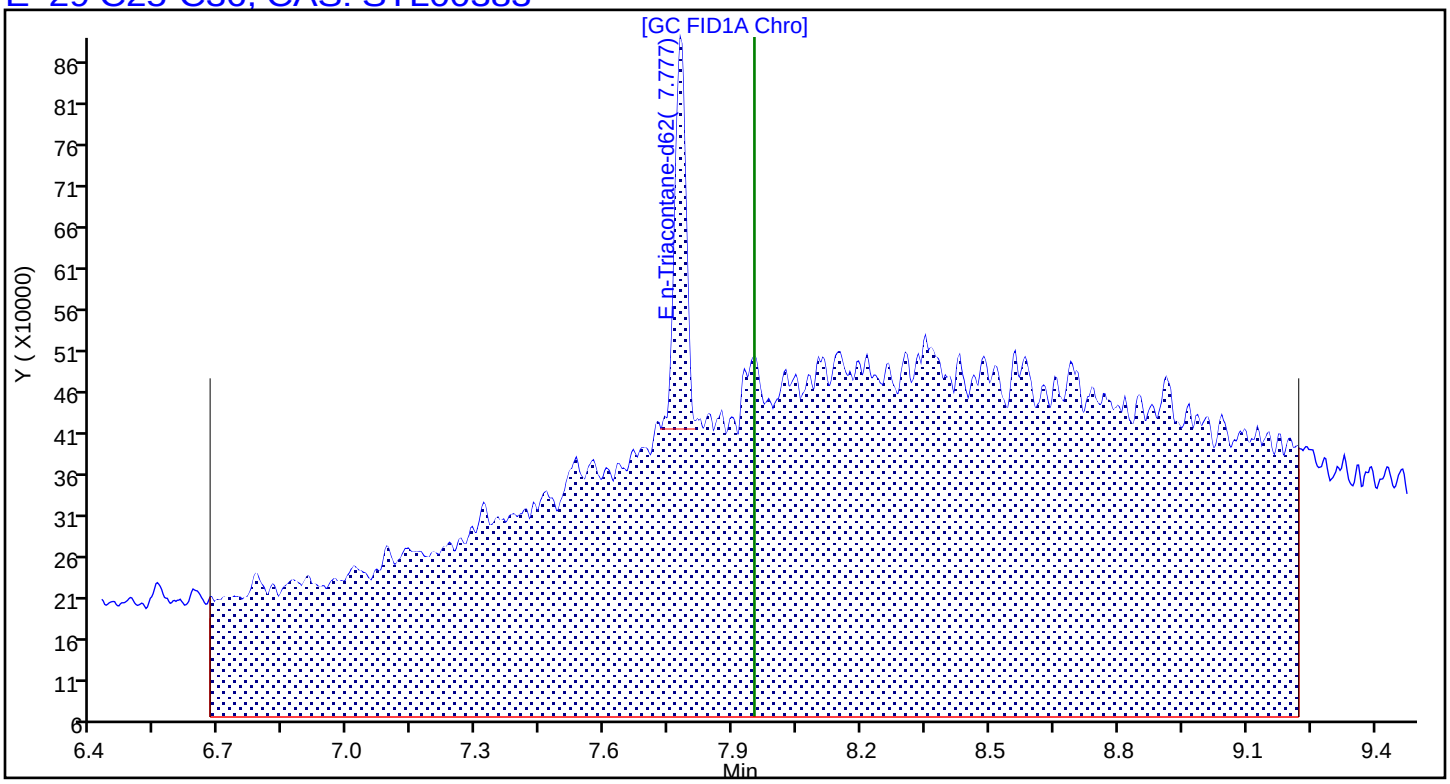


Report Date: 22-Oct-2024 15:26:37 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a006.D				
Injection Date:	22-Oct-2024 11:59:17	Instrument ID:	TAC129		
Lims ID:	CCVRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/13 | Calibration Date: 10/22/2024 15:02

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a024.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		177536		547	500	9.3	25.0
RRO (nC25-nC36)	Lin2		95947		540	500	8.0	25.0
o-Terphenyl	Ave	161005	152094		9.82	10.4	-5.5	25.0
n-Triacontane-d62	Ave	135932	123596		6.59	7.25	-9.1	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/13 Calibration Date: 10/22/2024 15:02

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a024.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.26	5.16	5.36
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 22-Oct-2024 15:26:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a024.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 22-Oct-2024 15:02:04 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 22-Oct-2024 15:26:50 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1673

First Level Reviewer: S6XW Date: 22-Oct-2024 15:26:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	980365	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		93209440	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		88001245	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		88768246	500.0	546.6	
A	14 C12-C24	4.742	(2.897-6.587)		73726189	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		98032228	NC	NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1581779	10.4	9.82	
A	25 C24-C32	7.490	(6.587-8.393)		29919817	NC	NC	
E	26 n-Triacontane-d62	7.780	7.780	0.000	896070	7.25	6.59	
A	27 C24-C36	7.905	(6.587-9.223)		48740656	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		48740656	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		47973655	500.0	539.9	
A	31 C24-C40	8.392	(6.657-10.127)		61874885	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		51697244	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 22-Oct-2024 15:26:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a024.D

Injection Date: 22-Oct-2024 15:02:04 Instrument ID: TAC129

Lims ID: CCV

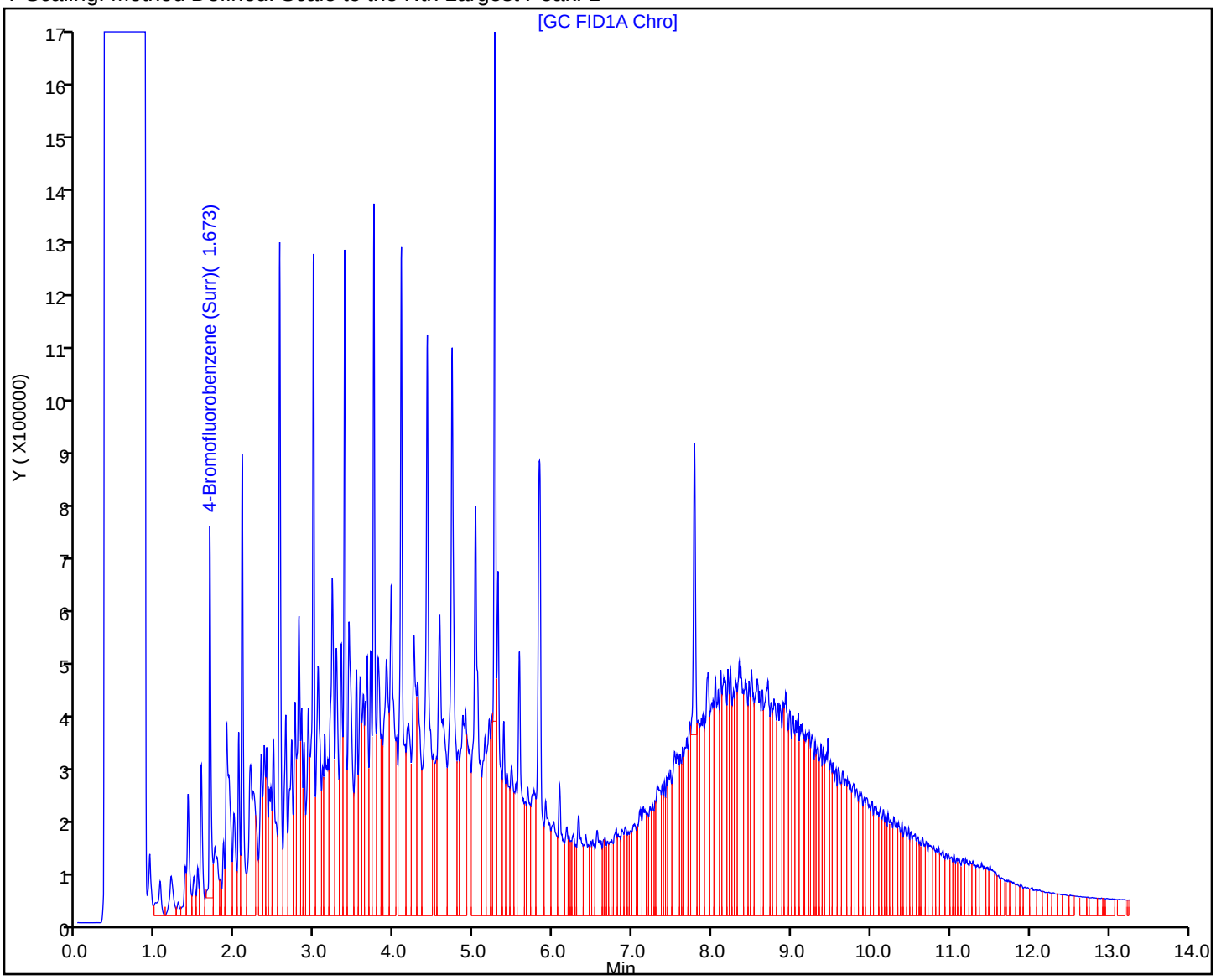
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



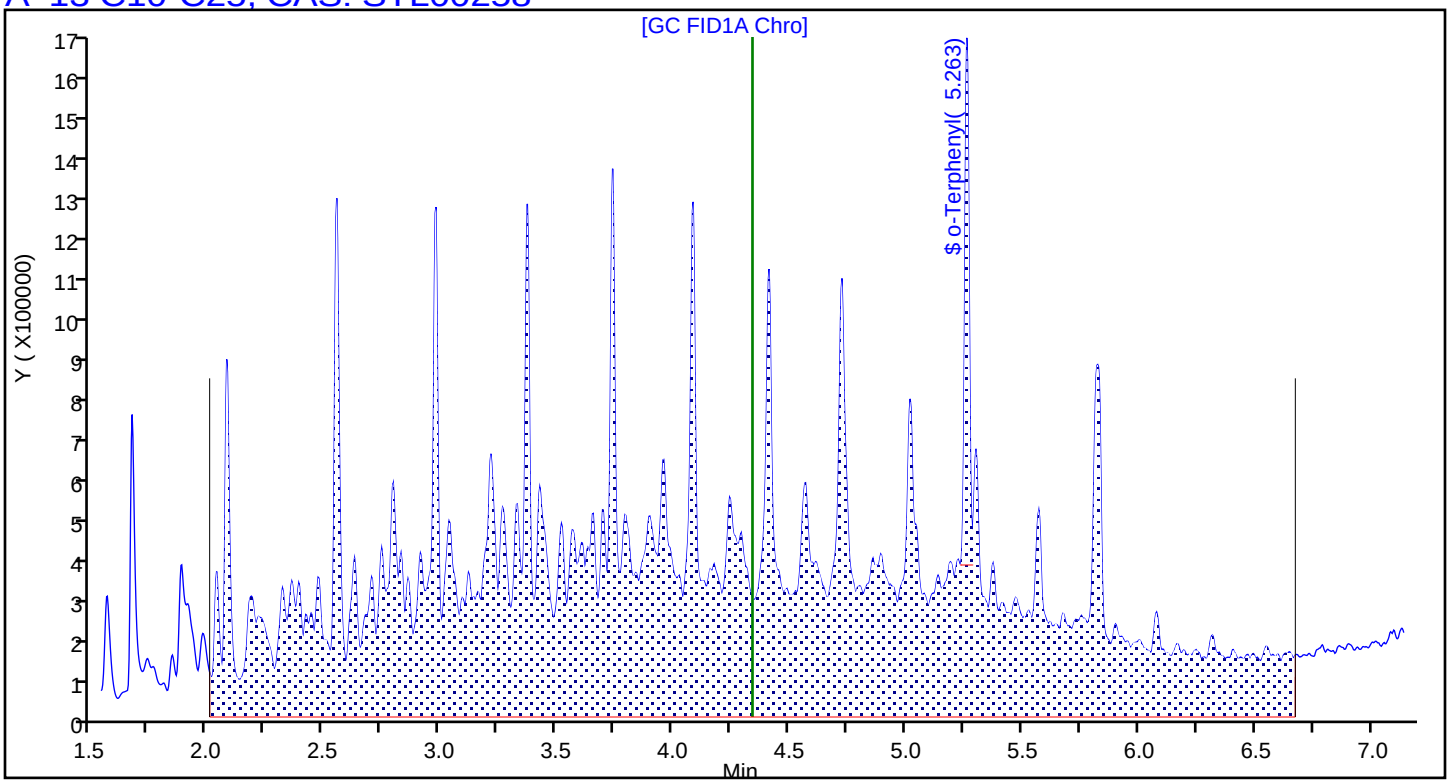
Report Date: 22-Oct-2024 15:26:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a024.D

Injection Date:	22-Oct-2024 15:02:04	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A 13 C10-C25, CAS: STL00258



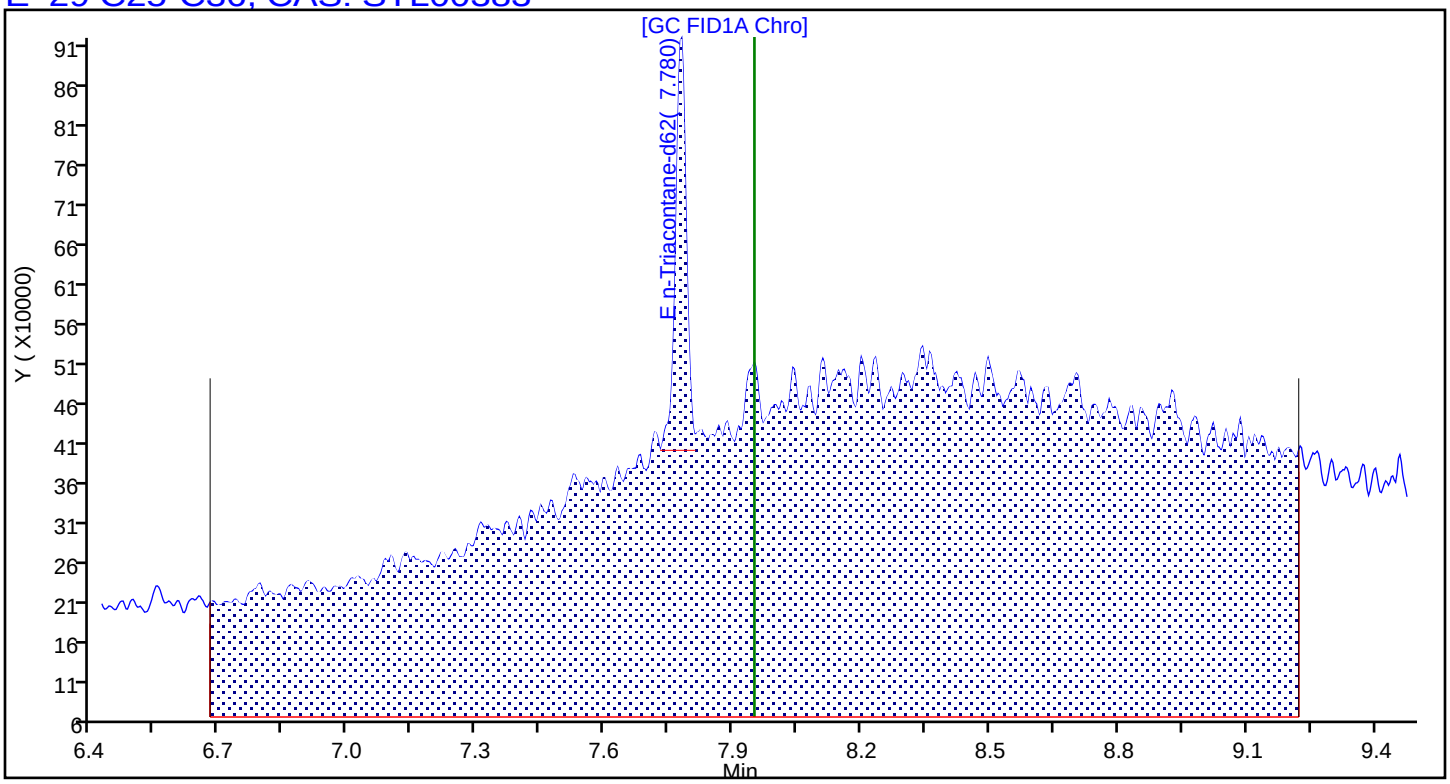
Report Date: 22-Oct-2024 15:26:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a024.D

Injection Date:	22-Oct-2024 15:02:04	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/25 | Calibration Date: 10/22/2024 20:11

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a054.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		186457		574	500	14.8	25.0
RRO (nC25-nC36)	Lin2		100558		566	500	13.2	25.0
o-Terphenyl	Ave	161005	167451		10.8	10.4	4.0	25.0
n-Triacontane-d62	Ave	135932	133705		7.13	7.25	-1.6	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/25 Calibration Date: 10/22/2024 20:11

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a054.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.27	5.17	5.37
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 23-Oct-2024 14:56:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a054.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 22-Oct-2024 20:11:15 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:29 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:29:17

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	1033397	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		97894773	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		92423104	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		93228557	500.0	574.1	
A	14 C12-C24	4.742	(2.897-6.587)		77387811	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		102987164	NC	NC	
$	17 o-Terphenyl	5.267	5.267	0.000	1741494	10.4	10.8	
A	25 C24-C32	7.490	(6.587-8.393)		31386666	NC	NC	
E	26 n-Triacontane-d62	7.780	7.780	0.000	969359	7.25	7.13	
A	27 C24-C36	7.905	(6.587-9.223)		51084632	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		51084632	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		50279180	500.0	566.1	
A	31 C24-C40	8.392	(6.657-10.127)		64716849	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		54026454	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

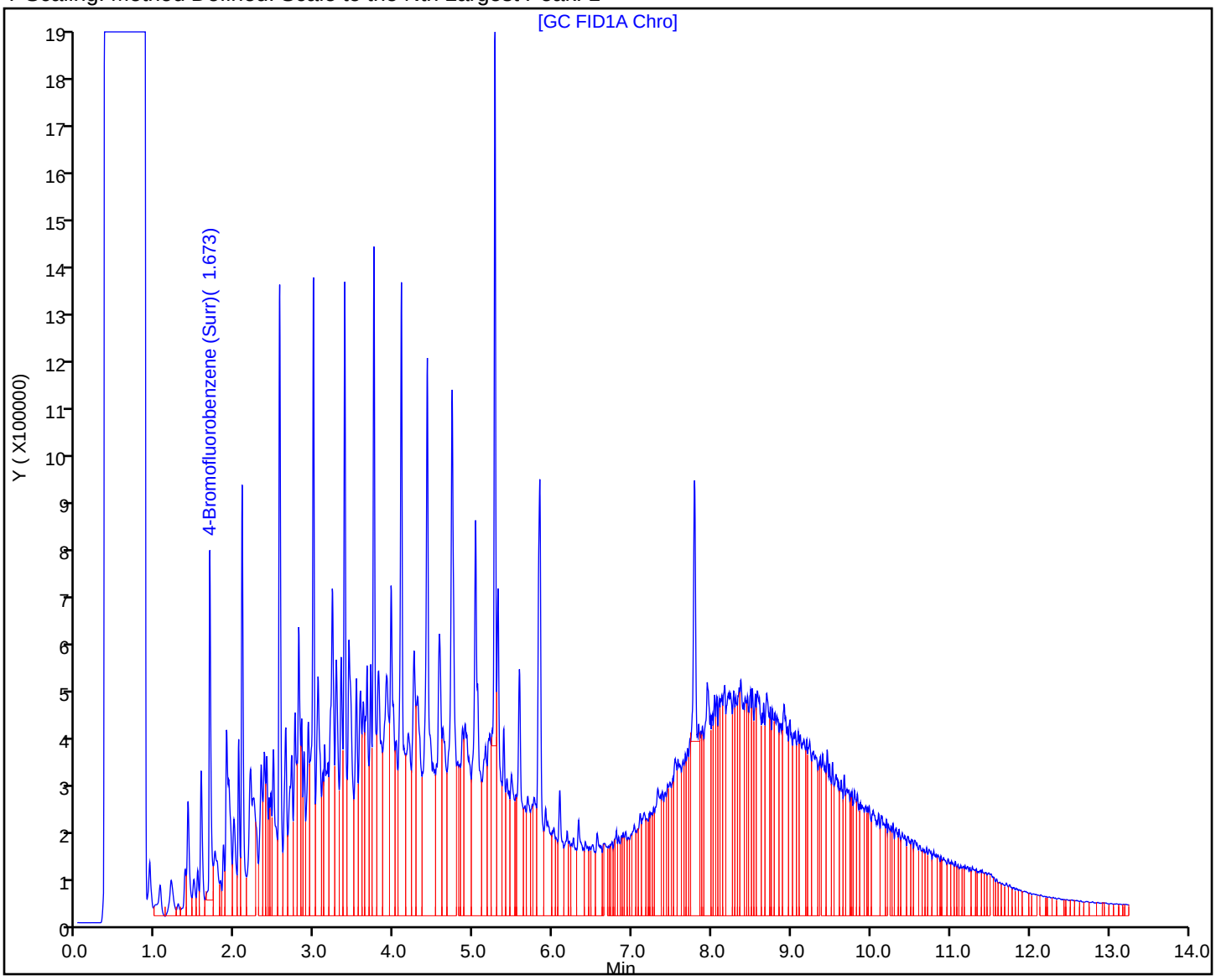
Report Date: 23-Oct-2024 14:56:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a054.D

Injection Date:	22-Oct-2024 20:11:15	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

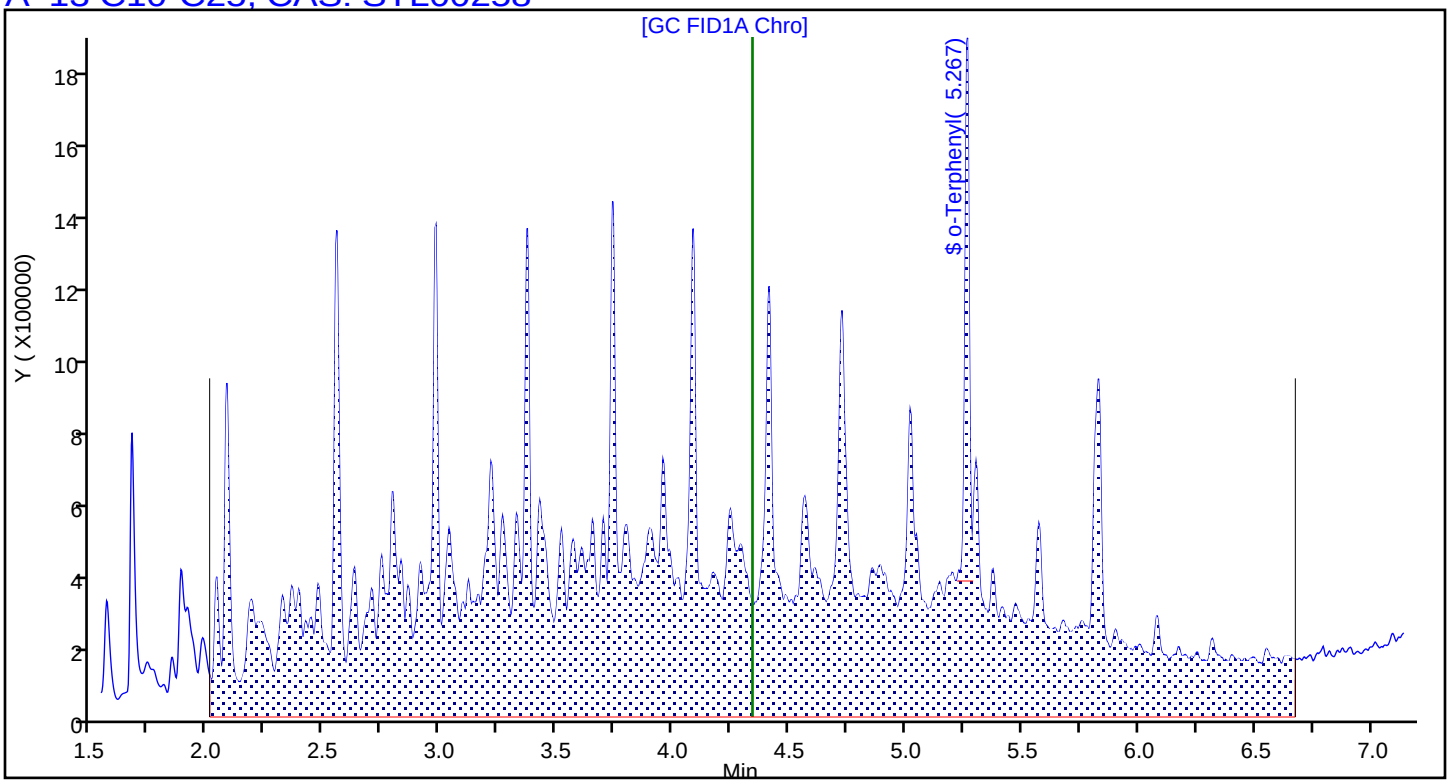


Report Date: 23-Oct-2024 14:56:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a054.D				
Injection Date:	22-Oct-2024 20:11:15	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

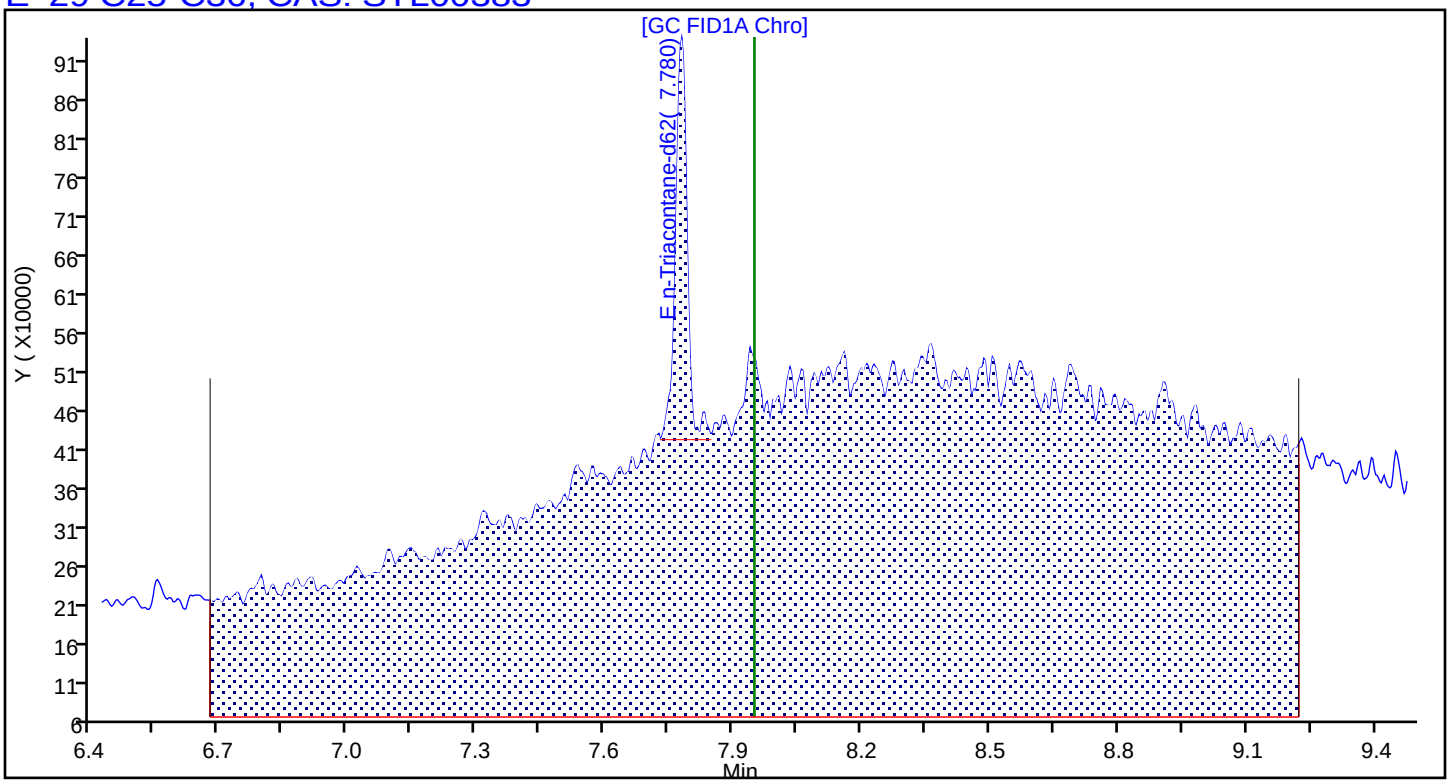


Report Date: 23-Oct-2024 14:56:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a054.D
Injection Date: 22-Oct-2024 20:11:15 Instrument ID: TAC129
Lims ID: CCV
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/38 Calibration Date: 10/23/2024 00:11

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a078.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		182811		563	500	12.6	25.0
RRO (nC25-nC36)	Lin2		99445		560	500	11.9	25.0
o-Terphenyl	Ave	161005	159070		10.3	10.4	-1.2	25.0
n-Triacontane-d62	Ave	135932	132146		7.05	7.25	-2.8	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/38 Calibration Date: 10/23/2024 00:11

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a078.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.26	5.16	5.36
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 23-Oct-2024 14:56:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a078.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Oct-2024 00:11:19 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:29:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	1024531	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		96044966	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		90606536	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		91405370	500.0	562.9	
A	14 C12-C24	4.742	(2.897-6.587)		75796440	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		101364281	NC	NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1654326	10.4	10.3	
A	25 C24-C32	7.490	(6.587-8.393)		31235989	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	958059	7.25	7.05	
A	27 C24-C36	7.905	(6.587-9.223)		50521545	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		50521545	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		49722711	500.0	559.7	
A	31 C24-C40	8.392	(6.657-10.127)		64011084	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		53118855	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

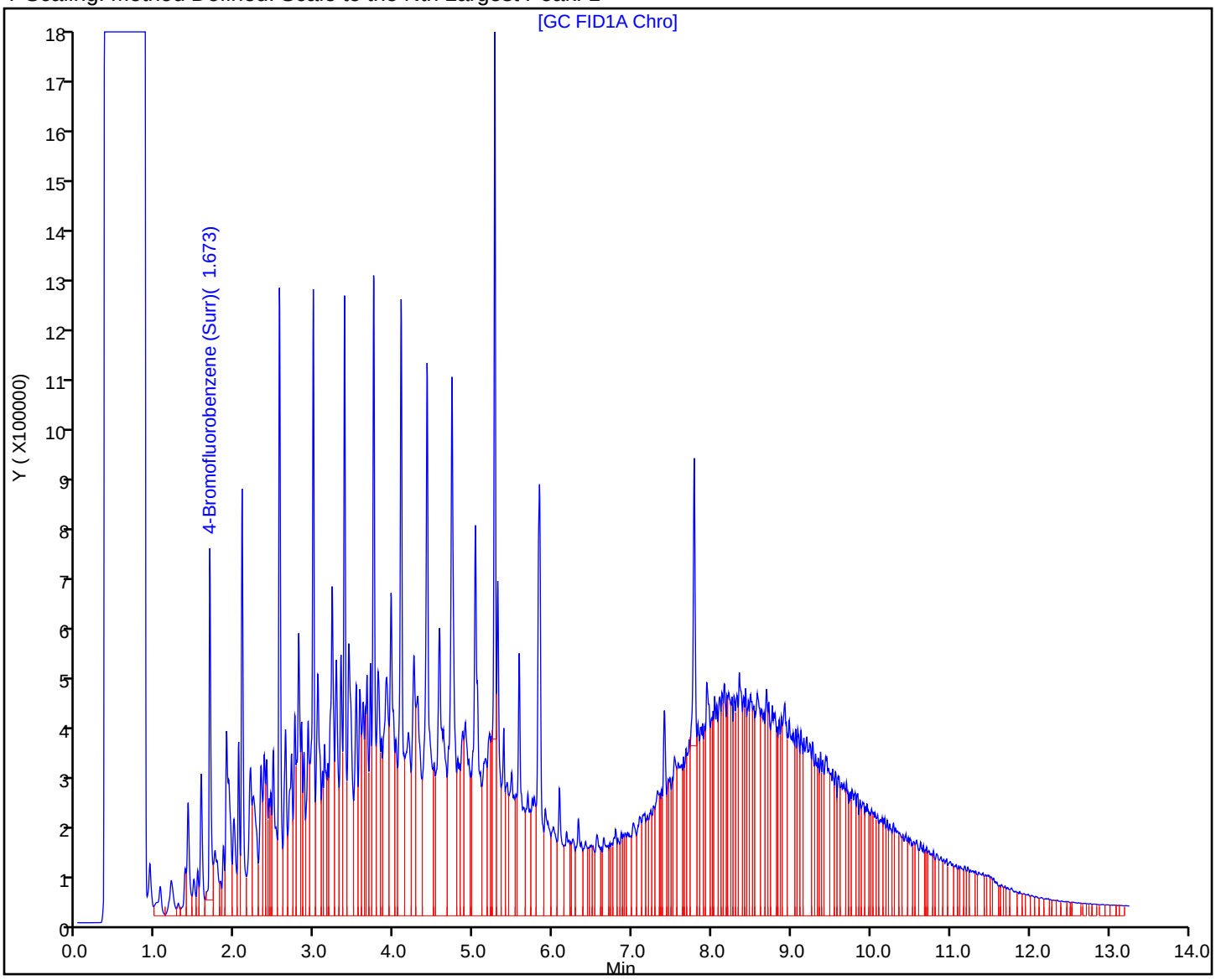
Report Date: 23-Oct-2024 14:56:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a078.D

Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

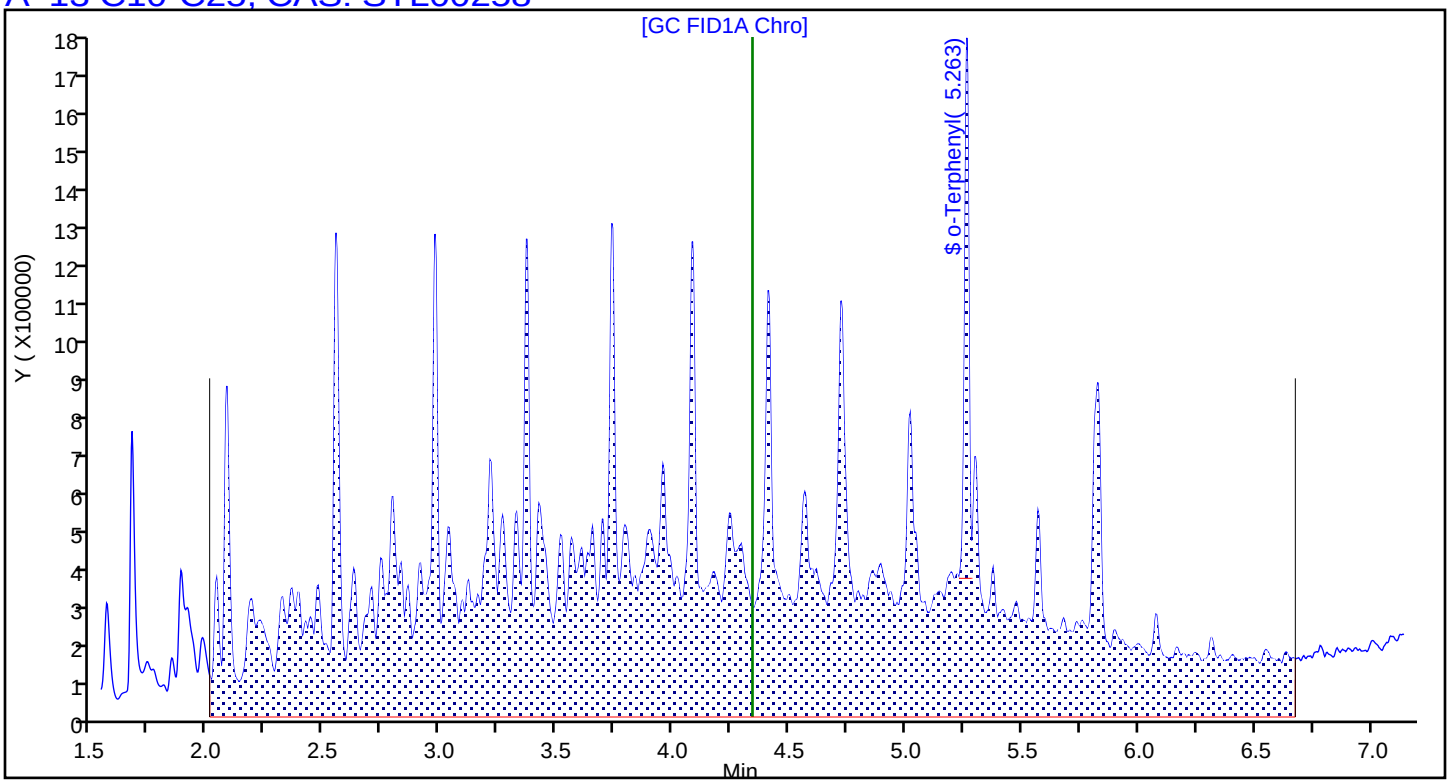


Report Date: 23-Oct-2024 14:56:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a078.D				
Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



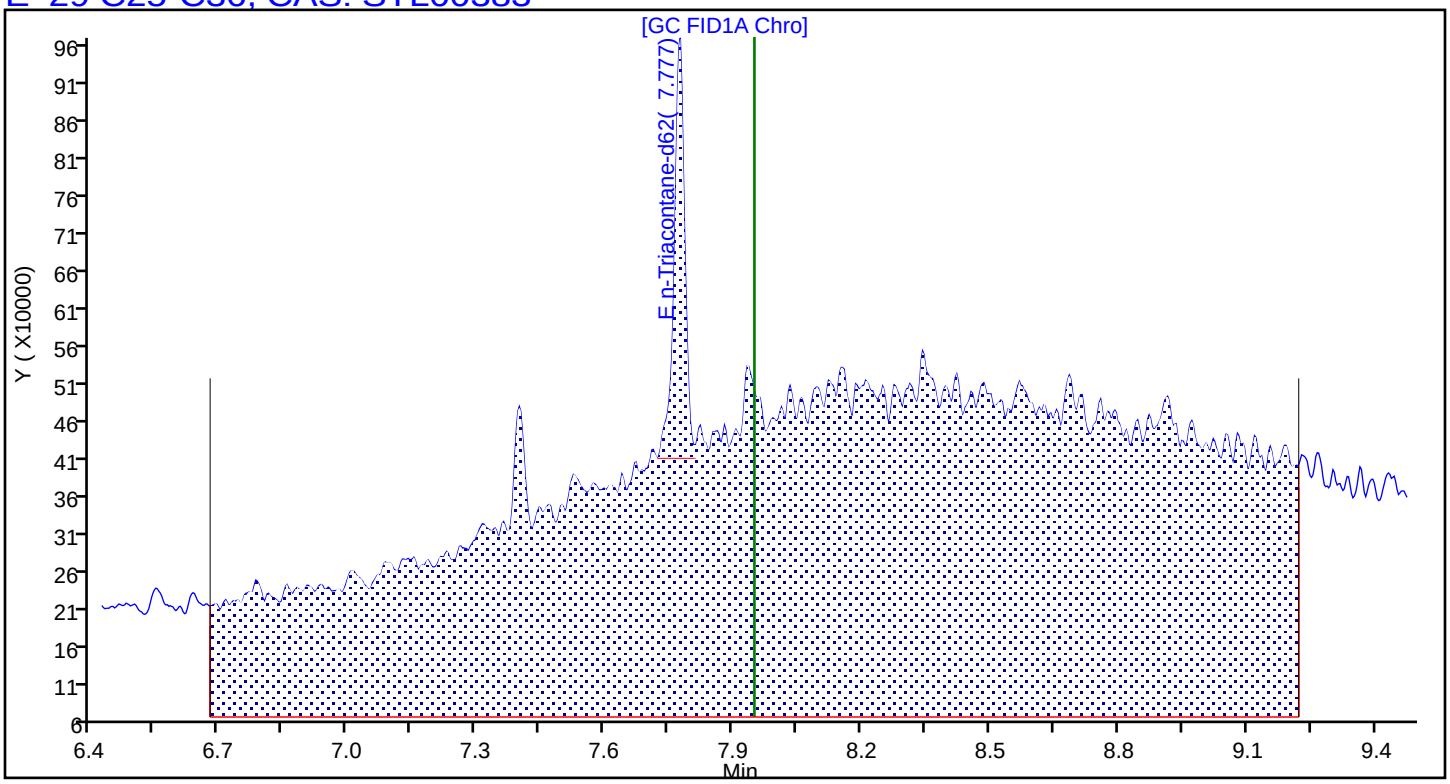
Report Date: 23-Oct-2024 14:56:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a078.D

Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/51 | Calibration Date: 10/23/2024 04:10

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a102.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		185888		572	500	14.5	25.0
RRO (nC25-nC36)	Lin2		101028		569	500	13.7	25.0
o-Terphenyl	Ave	161005	161610		10.4	10.4	0.4	25.0
n-Triacontane-d62	Ave	135932	147058		7.84	7.25	8.2	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/51 Calibration Date: 10/23/2024 04:10

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a102.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.26	5.16	5.36
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 23-Oct-2024 14:57:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a102.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Oct-2024 04:10:41 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:13 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:29:48

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	1047480	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		97590523	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		92129197	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		92944017	500.0	572.4	
A	14 C12-C24	4.742	(2.897-6.587)		77213610	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		102840104	NC	NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1680746	10.4	10.4	
A	25 C24-C32	7.490	(6.587-8.393)		31525596	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	1066174	7.25	7.84	
A	27 C24-C36	7.905	(6.587-9.223)		51328785	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		51328785	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		50513965	500.0	568.7	
A	31 C24-C40	8.392	(6.657-10.127)		65204354	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		54347016	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2024 14:57:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a102.D

Injection Date: 23-Oct-2024 04:10:41 Instrument ID: TAC129

Lims ID: CCV

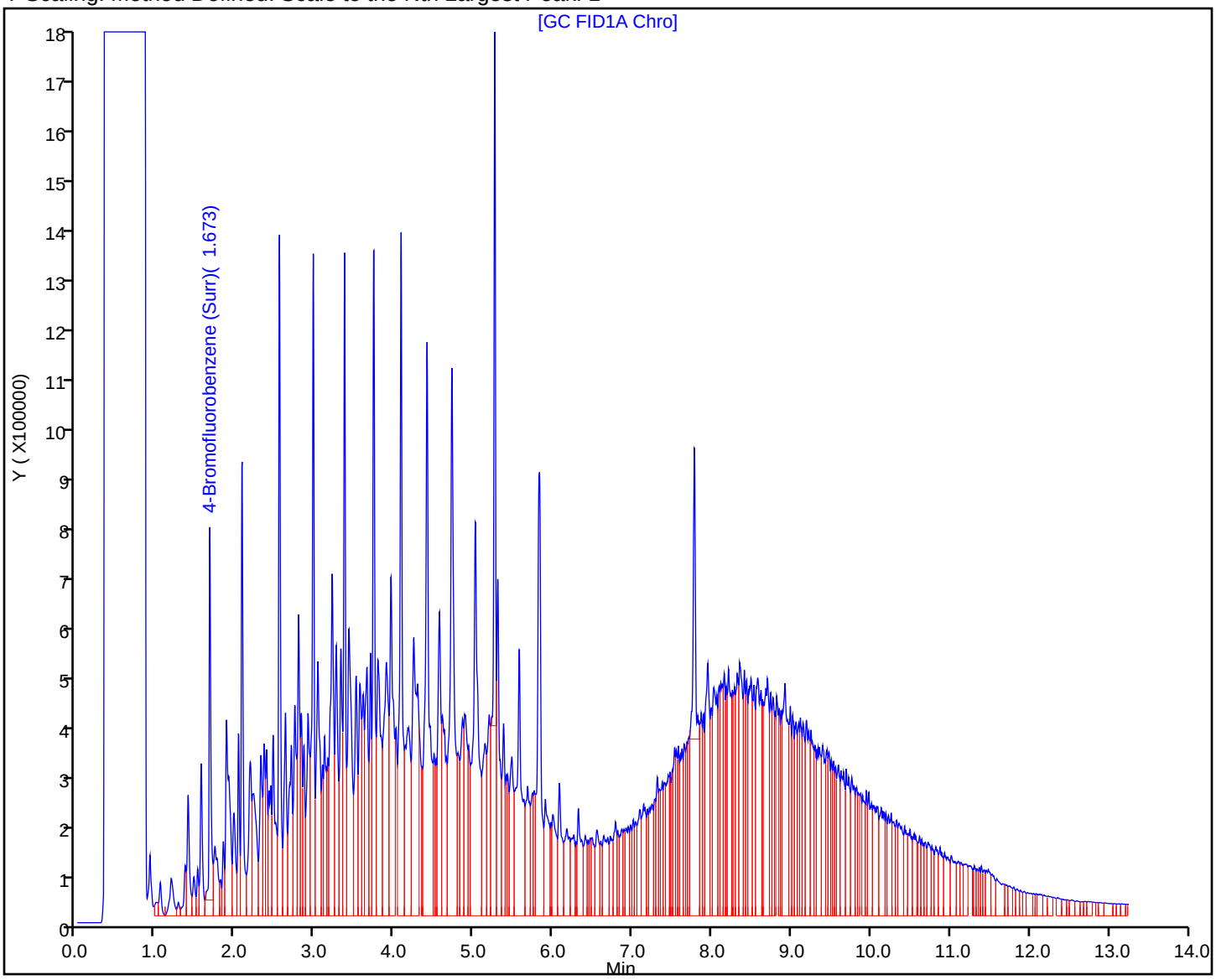
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 51

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



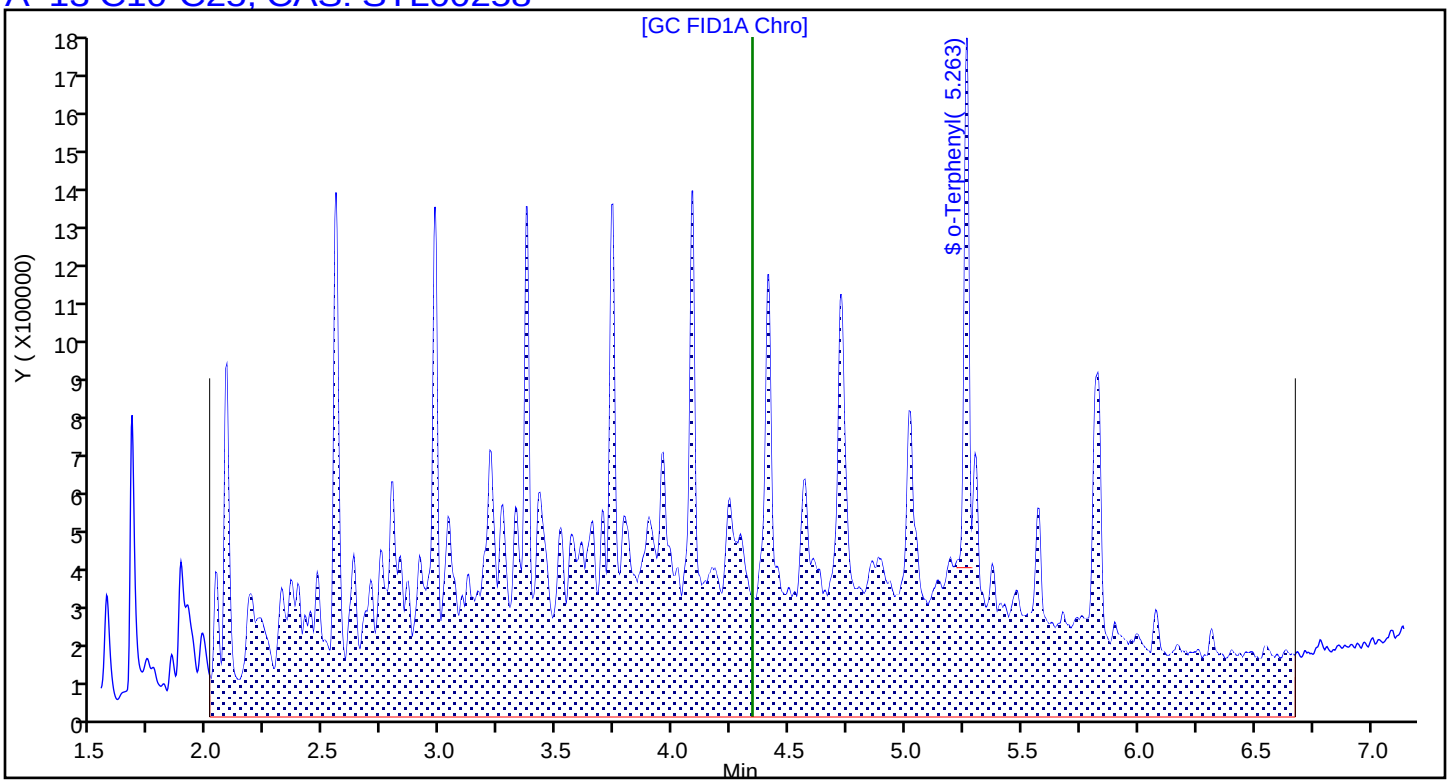
Report Date: 23-Oct-2024 14:57:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a102.D

Injection Date:	23-Oct-2024 04:10:41	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258

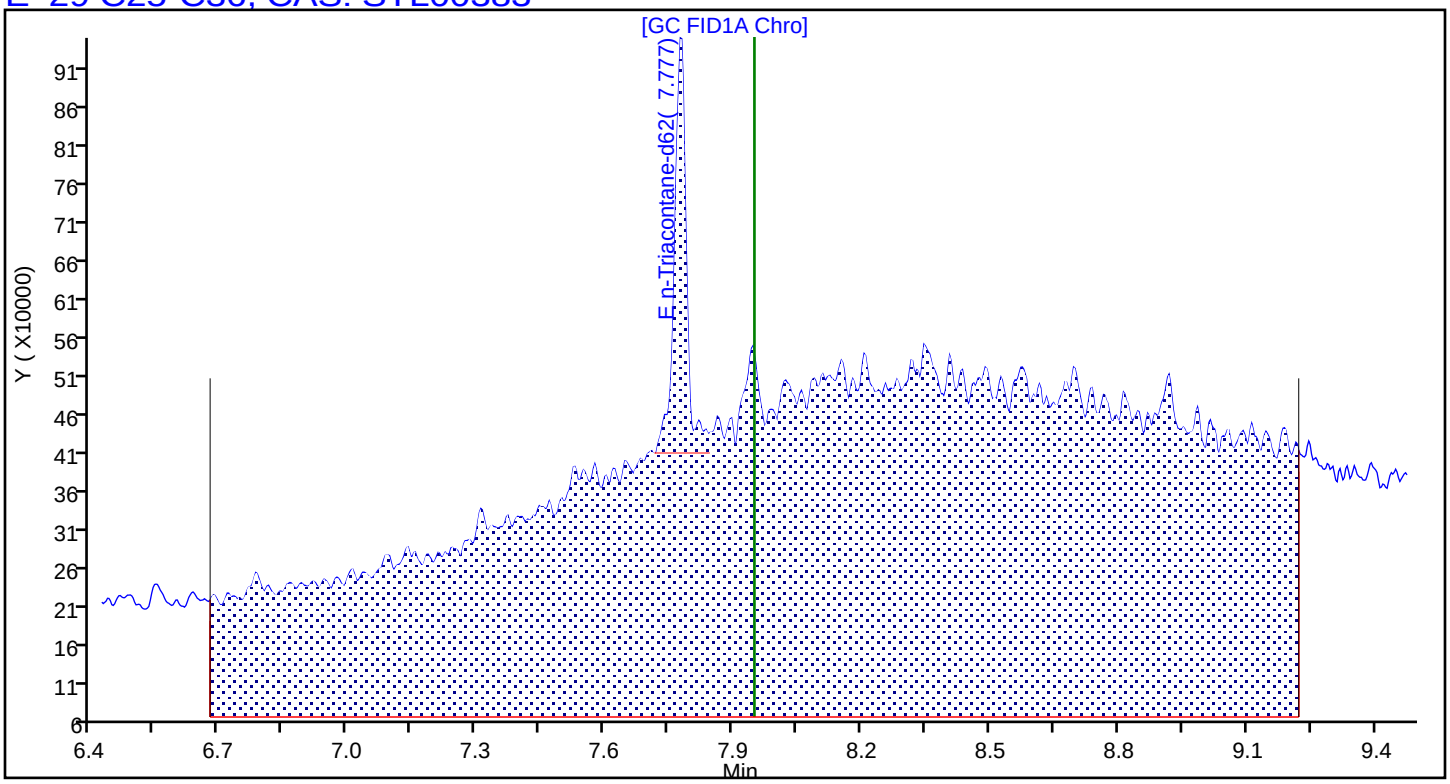


Report Date: 23-Oct-2024 14:57:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a102.D
Injection Date: 23-Oct-2024 04:10:41 Instrument ID: TAC129
Lims ID: CCV
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/60 | Calibration Date: 10/23/2024 06:50

Instrument ID: TAC129 | Calib Start Date: 09/23/2024 09:44

GC Column: | ID: | Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a118.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		191370		589	500	17.9	25.0
RRO (nC25-nC36)	Lin2		104457		588	500	17.6	25.0
o-Terphenyl	Ave	161005	159243		10.3	10.4	-1.1	25.0
n-Triacontane-d62	Ave	135932	124135		6.62	7.25	-8.7	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475531/60 Calibration Date: 10/23/2024 06:50

Instrument ID: TAC129 Calib Start Date: 09/23/2024 09:44

GC Column: ID: Calib End Date: 09/23/2024 13:06

Lab File ID: 10222024a118.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.34	2.01	6.68
RRO (nC25-nC36)	7.95	6.68	9.22
o-Terphenyl	5.26	5.16	5.36
n-Triacontane-d62	7.78	7.68	7.88

Report Date: 23-Oct-2024 14:57:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a118.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Oct-2024 06:50:51 ALS Bottle#: 0 Worklist Smp#: 60
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129
Sublist: chrom-TPH-TAC129Front*sub2

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:57:25 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:32:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	1081557	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		100457937	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		94850348	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		95685000	500.0	589.3	
A	14 C12-C24	4.742	(2.897-6.587)		79450232	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		105836268	NC	NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1656123	10.4	10.3	
A	25 C24-C32	7.490	(6.587-8.393)		32631983	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	899976	7.25	6.62	
A	27 C24-C36	7.905	(6.587-9.223)		53063394	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		53063394	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		52228742	500.0	588.2	
A	31 C24-C40	8.392	(6.657-10.127)		67403621	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		56244158	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2024 14:57:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a118.D

Injection Date: 23-Oct-2024 06:50:51 Instrument ID: TAC129

Lims ID: CCV

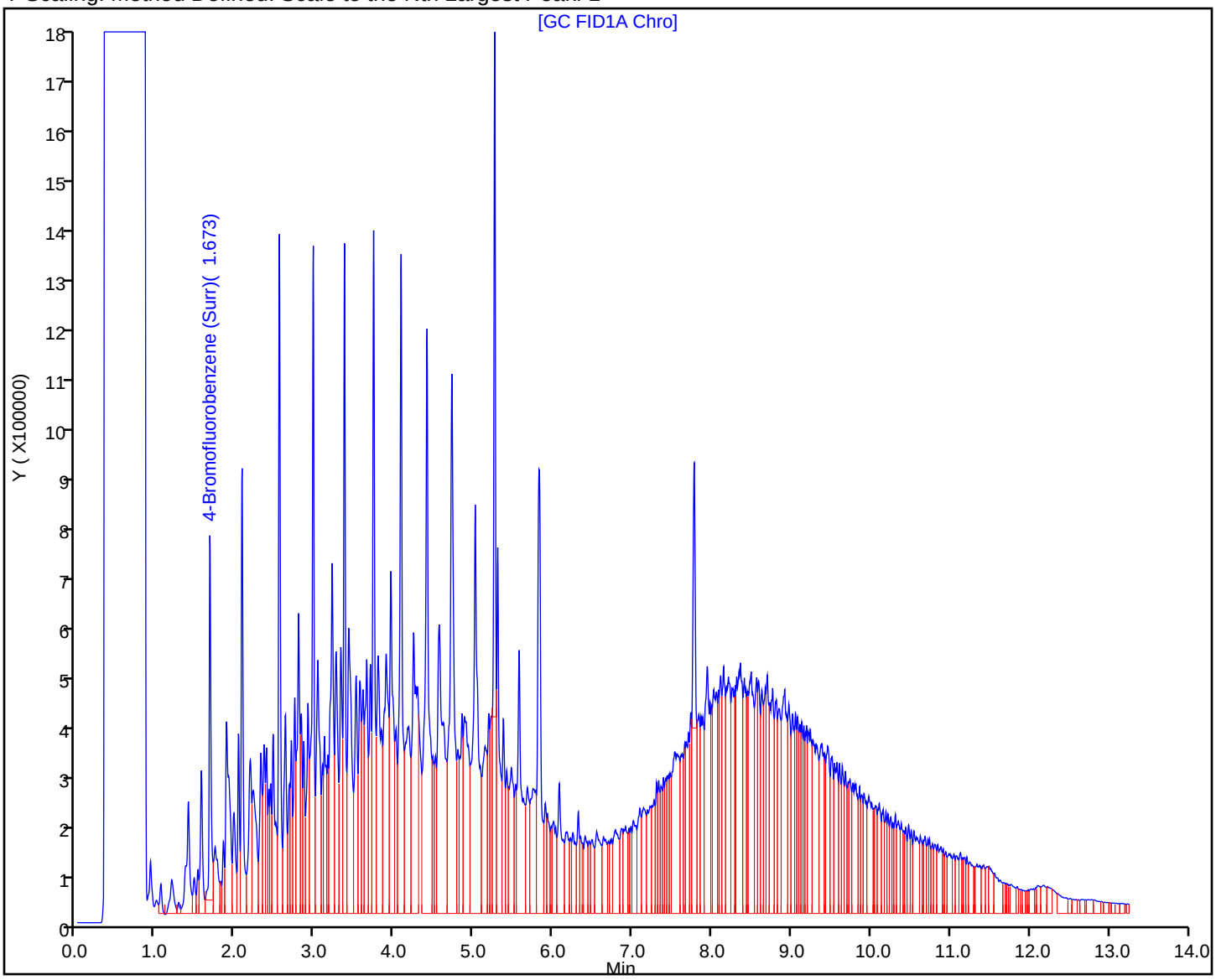
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 60

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

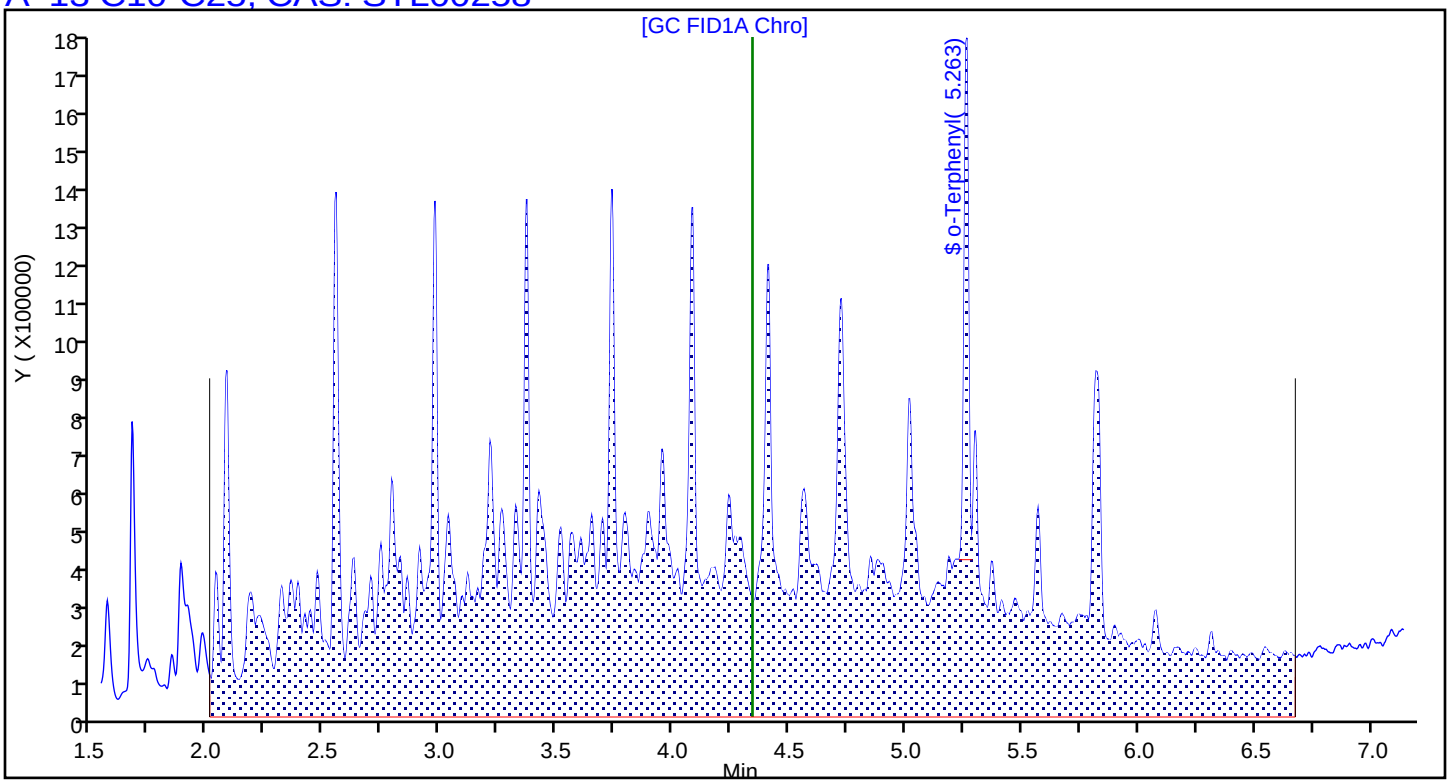


Report Date: 23-Oct-2024 14:57:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a118.D				
Injection Date:	23-Oct-2024 06:50:51	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



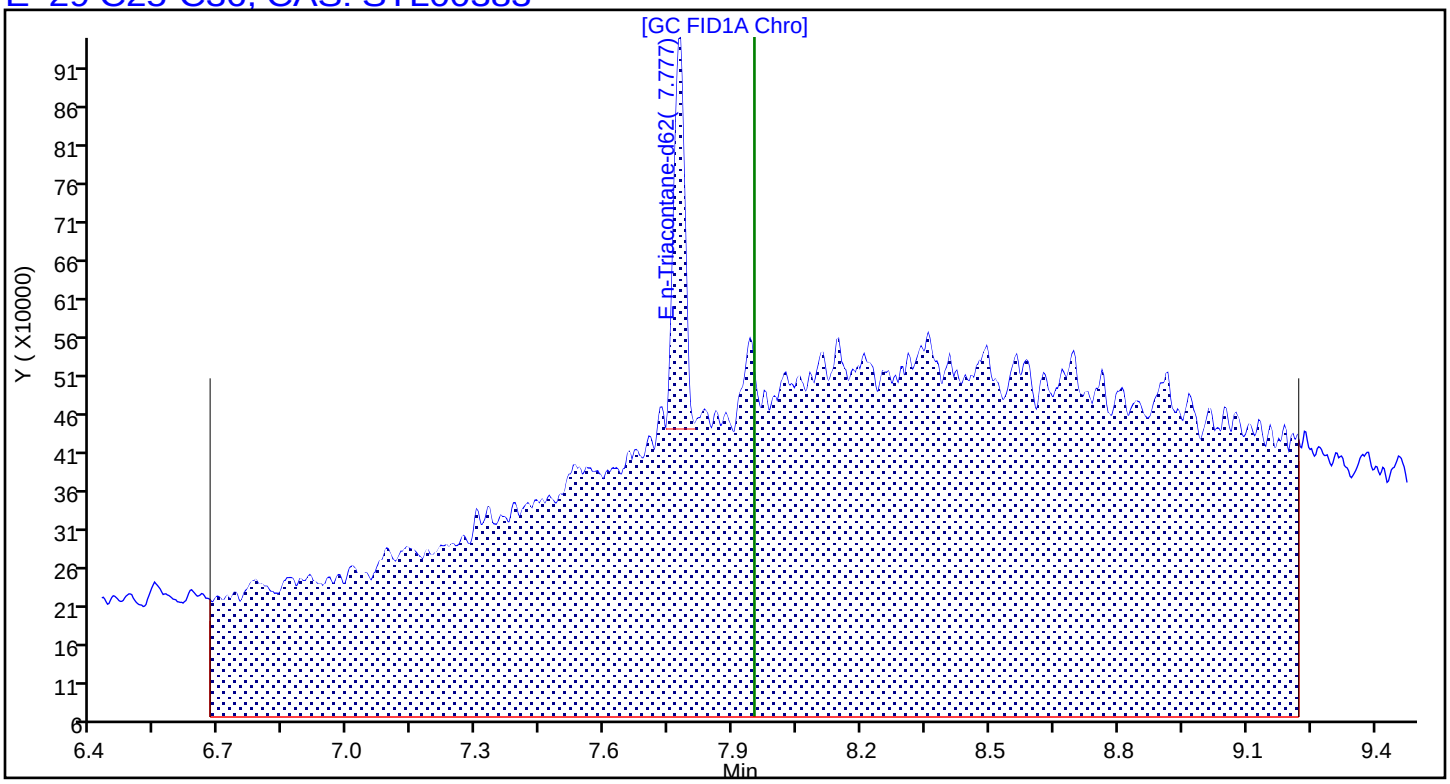
Report Date: 23-Oct-2024 14:57:25 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a118.D

Injection Date:	23-Oct-2024 06:50:51	Instrument ID:	TAC129		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 29 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: ICV 580-472180/14 | Calibration Date: 09/20/2024 18:19

Instrument ID: TAC129_R | Calib Start Date: 09/20/2024 14:16

GC Column: | ID: | Calib End Date: 09/20/2024 17:59

Lab File ID: 09202024a035.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		159051		509	500	1.8	25.0
RRO (nC25-nC36)	Lin2		84975		494	500	-1.2	25.0
o-Terphenyl	Ave	155115	146188		9.80	10.4	-5.8	25.0
n-Triacontane-d62	Ave	146468	132018		6.53	7.25	-9.9	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: ICV 580-472180/14 Calibration Date: 09/20/2024 18:19

Instrument ID: TAC129_R Calib Start Date: 09/20/2024 14:16

GC Column: ID: Calib End Date: 09/20/2024 17:59

Lab File ID: 09202024a035.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.56	2.20	6.92
RRO (nC25-nC36)	8.26	6.92	9.59
o-Terphenyl	5.51	5.41	5.61
n-Triacontane-d62	8.07	7.87	8.27

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a035.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 20-Sep-2024 18:19:11 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: SW Instrument ID: TAC129_R
Sublist:

Method: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Sep-2024 08:01:55 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1629

First Level Reviewer: S6XW Date: 23-Sep-2024 07:57:54

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.890	1.893	-0.003	1005713	NC	NC	
A	12 C9-C25	4.405	(1.757-7.053)		83408383	NC	NC	
A	13 C10-C24	4.523	(2.203-6.843)		78947398	NC	NC	
A	14 C10-C25	4.563	(2.203-6.923)		79525359	500.0	509.2	
A	16 C12-C24	4.975	(3.107-6.843)		65841823	NC	NC	
A	17 C10-C28	4.988	(2.203-7.773)		87616379	NC	NC	
$	19 o-Terphenyl	5.507	5.507	0.000	1520357	10.4	9.80	M
A	27 C24-C32	7.775	(6.843-8.707)		25977660	NC	NC	
E	28 n-Triacontane-d62	8.070	8.070	0.000	957130	7.25	6.53	
A	30 C24-C36	8.215	(6.843-9.587)		43065633	NC	NC	
A	29 Motor Oil	8.215	(6.843-9.587)		43065633	NC	NC	
E	31 C25-C36	8.255	(6.923-9.587)		42487671	500.0	493.9	
A	33 C24-C40	8.710	(6.913-10.507)		55450166	NC	NC	
A	35 C28-C40	9.108	(7.773-10.443)		46566983	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-ICV_10000_00020 Amount Added: 0.05 Units: mL
Amount Added: 1.00 Units: mL Run Reagent

Report Date: 23-Sep-2024 08:01:57 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a035.D

Injection Date: 20-Sep-2024 18:19:11 Instrument ID: TAC129_R

Lims ID: ICV

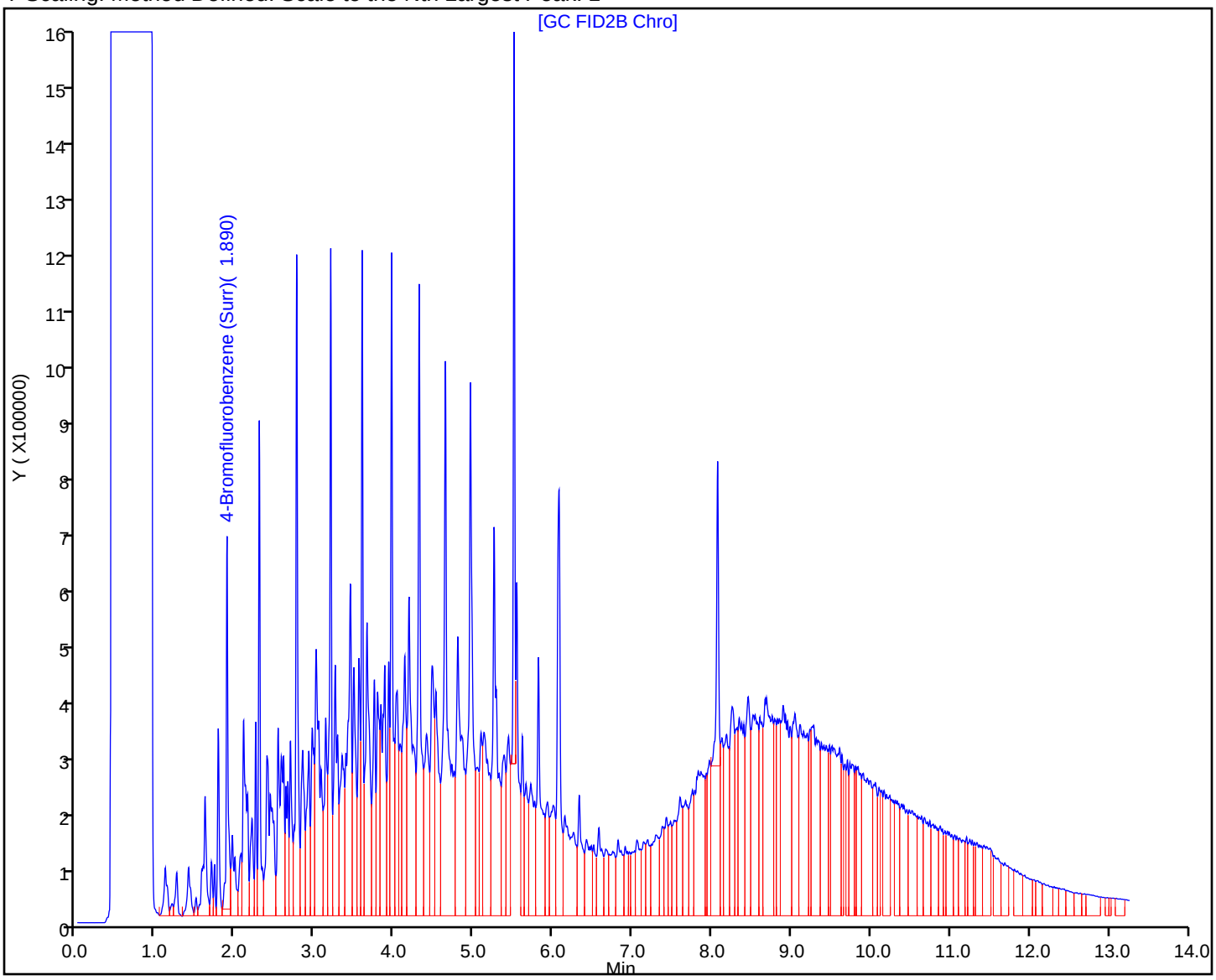
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

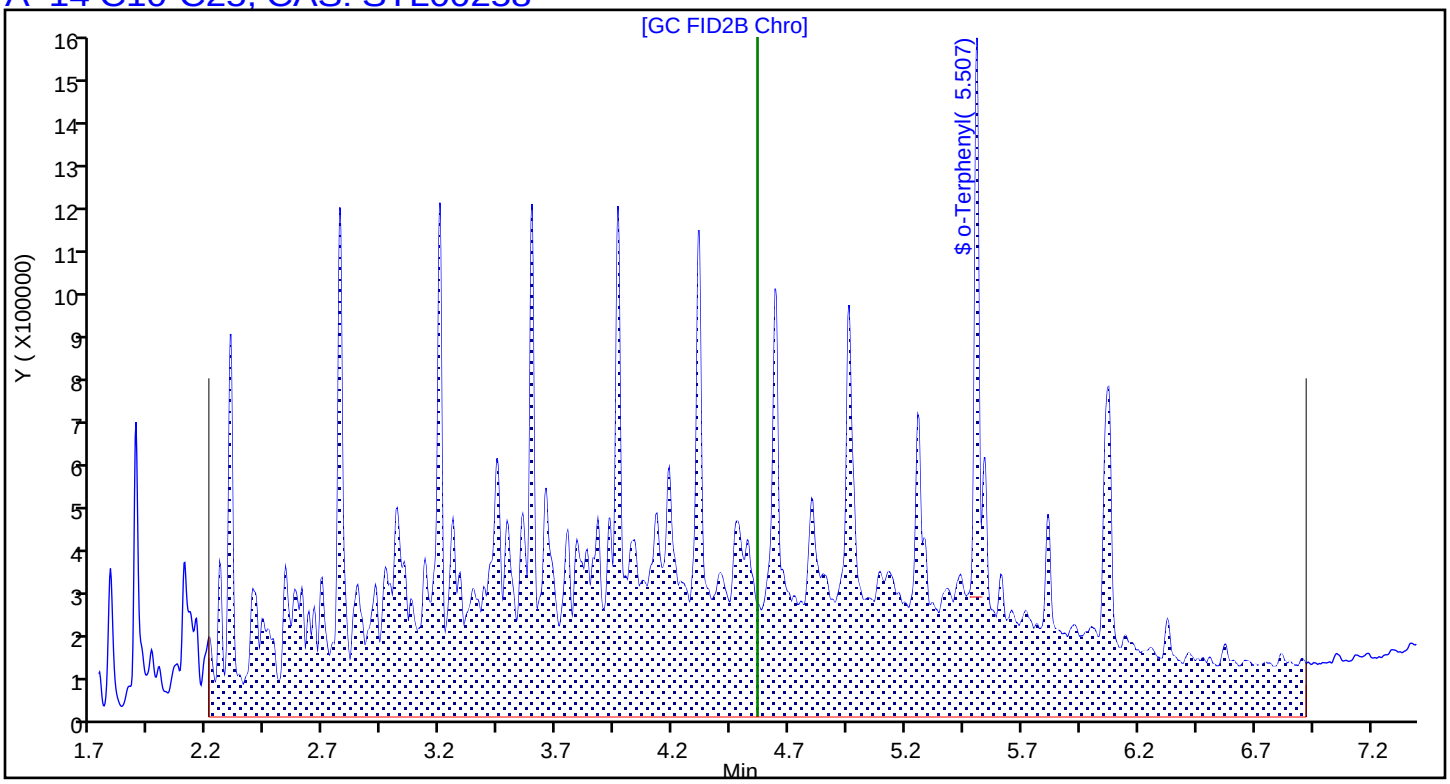


Report Date: 23-Sep-2024 08:01:57 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a035.D				
Injection Date:	20-Sep-2024 18:19:11	Instrument ID:	TAC129_R		
Lims ID:	ICV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

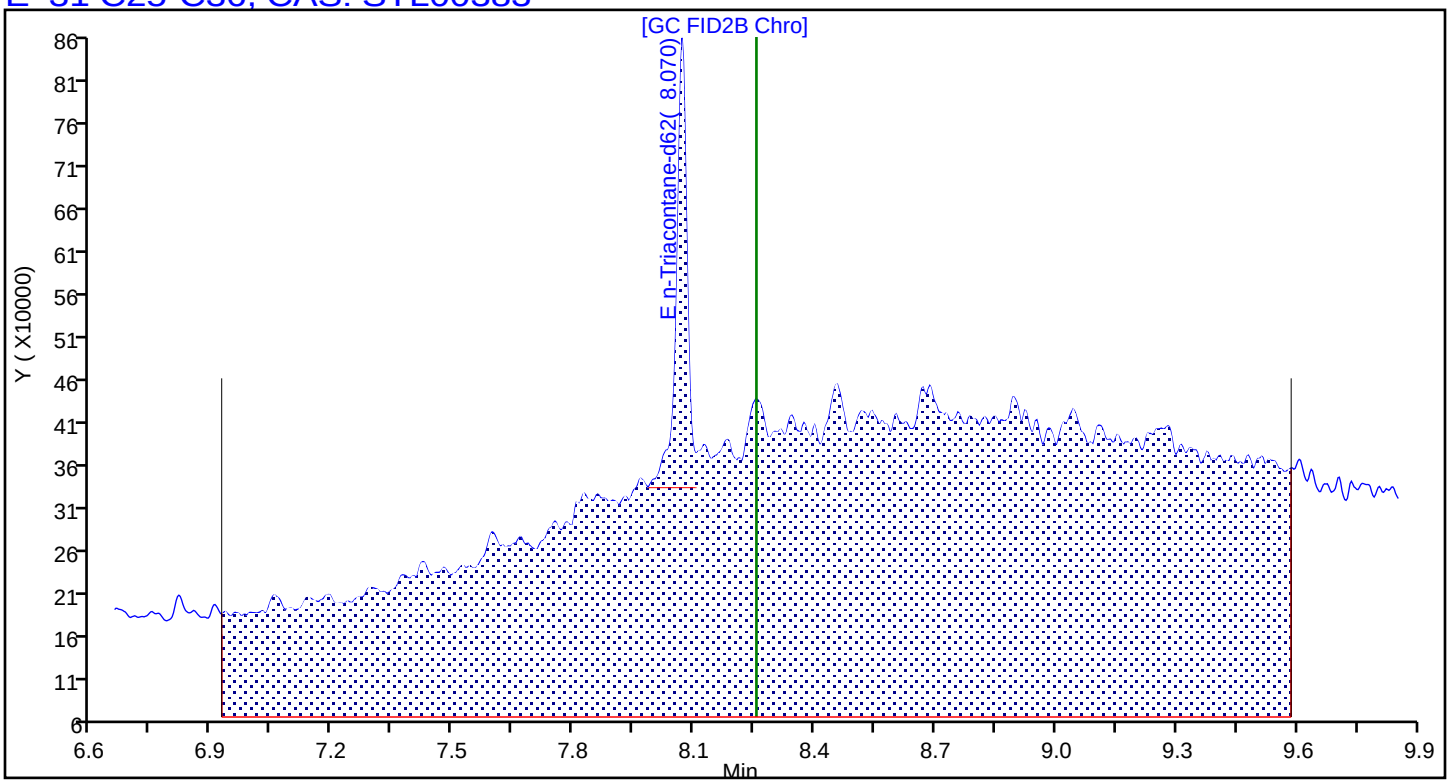


Report Date: 23-Sep-2024 08:01:57 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a035.D				
Injection Date:	20-Sep-2024 18:19:11	Instrument ID:	TAC129_R		
Lims ID:	ICV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

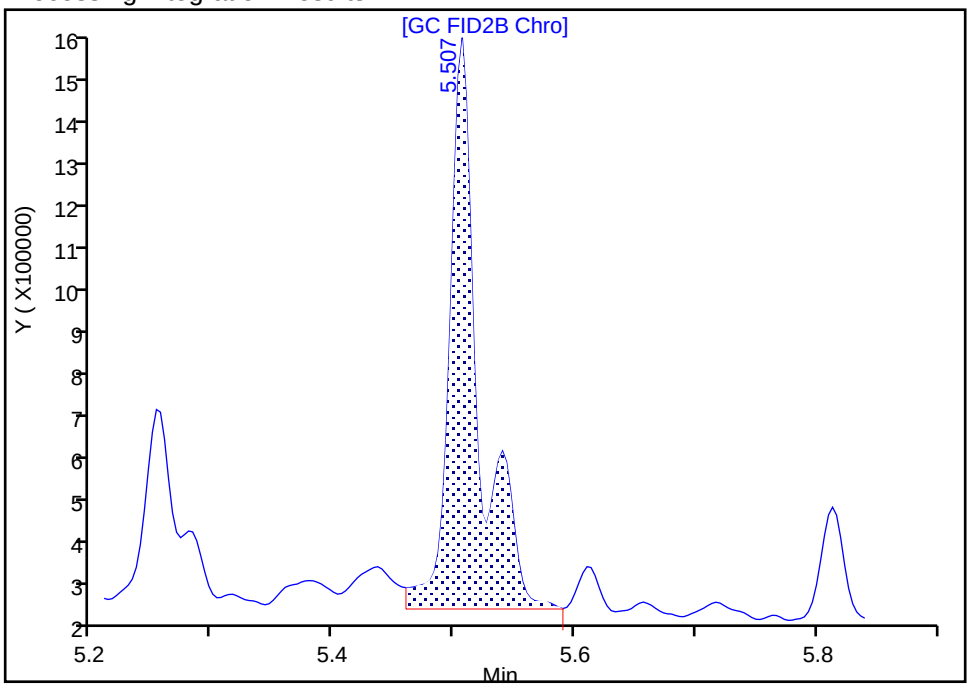
Data File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a035.D
Injection Date: 20-Sep-2024 18:19:11 Instrument ID: TAC129_R
Lims ID: ICV
Client ID:
Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO
Column: Detector GC FID1A

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

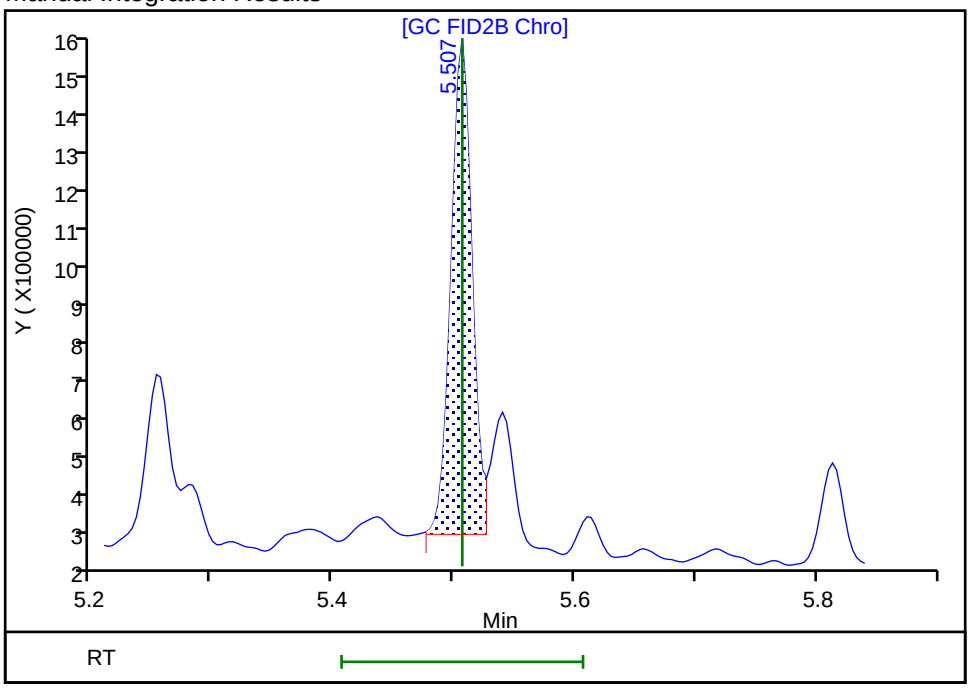
Processing Integration Results

RT: 5.51
Area: 2197056
Amount: 14.164089
Amount Units: ng/uL



Manual Integration Results

RT: 5.51
Area: 1520357
Amount: 9.801512
Amount Units: ng/uL



Reviewer: S6XW, 23-Sep-2024 07:57:20 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCVRT 580-475534/3 | Calibration Date: 10/22/2024 11:59

Instrument ID: TAC129_R | Calib Start Date: 09/20/2024 14:16

GC Column: | ID: | Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a005.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		168576		540	500	8.0	25.0
RRO (nC25-nC36)	Lin2		89975		523	500	4.6	25.0
o-Terphenyl	Ave	155115	158364		10.6	10.4	2.1	25.0
n-Triacontane-d62	Ave	146468	152033		7.53	7.25	3.8	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCVRT 580-475534/3 Calibration Date: 10/22/2024 11:59

Instrument ID: TAC129_R Calib Start Date: 09/20/2024 14:16

GC Column: ID: Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a005.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.48	2.15	6.81
RRO (nC25-nC36)	8.11	6.81	9.42
o-Terphenyl	5.39	5.29	5.49
n-Triacontane-d62	7.93	7.73	8.13

Report Date: 22-Oct-2024 15:38:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a005.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 22-Oct-2024 11:59:17 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 22-Oct-2024 15:38:07 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1673

First Level Reviewer: S6XW Date: 22-Oct-2024 12:54:34

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.803	1.803	0.000	1072649	NC	NC	
A	12 C9-C25	4.298	(1.673-6.923)		88546372	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		83605405	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		84287797	500.0	539.8	
A	16 C12-C24	4.863	(3.007-6.720)		70051596	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		93017520	NC	NC	
$	19 o-Terphenyl	5.390	5.390	0.000	1646986	10.4	10.6	M
A	27 C24-C32	7.642	(6.720-8.563)		28091634	NC	NC	
E	28 n-Triacontane-d62	7.933	7.933	0.000	1102240	7.25	7.53	
A	30 C24-C36	8.068	(6.720-9.417)		45669836	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		45669836	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		44987443	500.0	523.1	
A	33 C24-C40	8.562	(6.790-10.333)		58028256	NC	NC	
A	35 C28-C40	8.953	(7.637-10.270)		48450644	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 22-Oct-2024 15:38:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a005.D

Injection Date: 22-Oct-2024 11:59:17 Instrument ID: TAC129_R

Lims ID: CCVRT

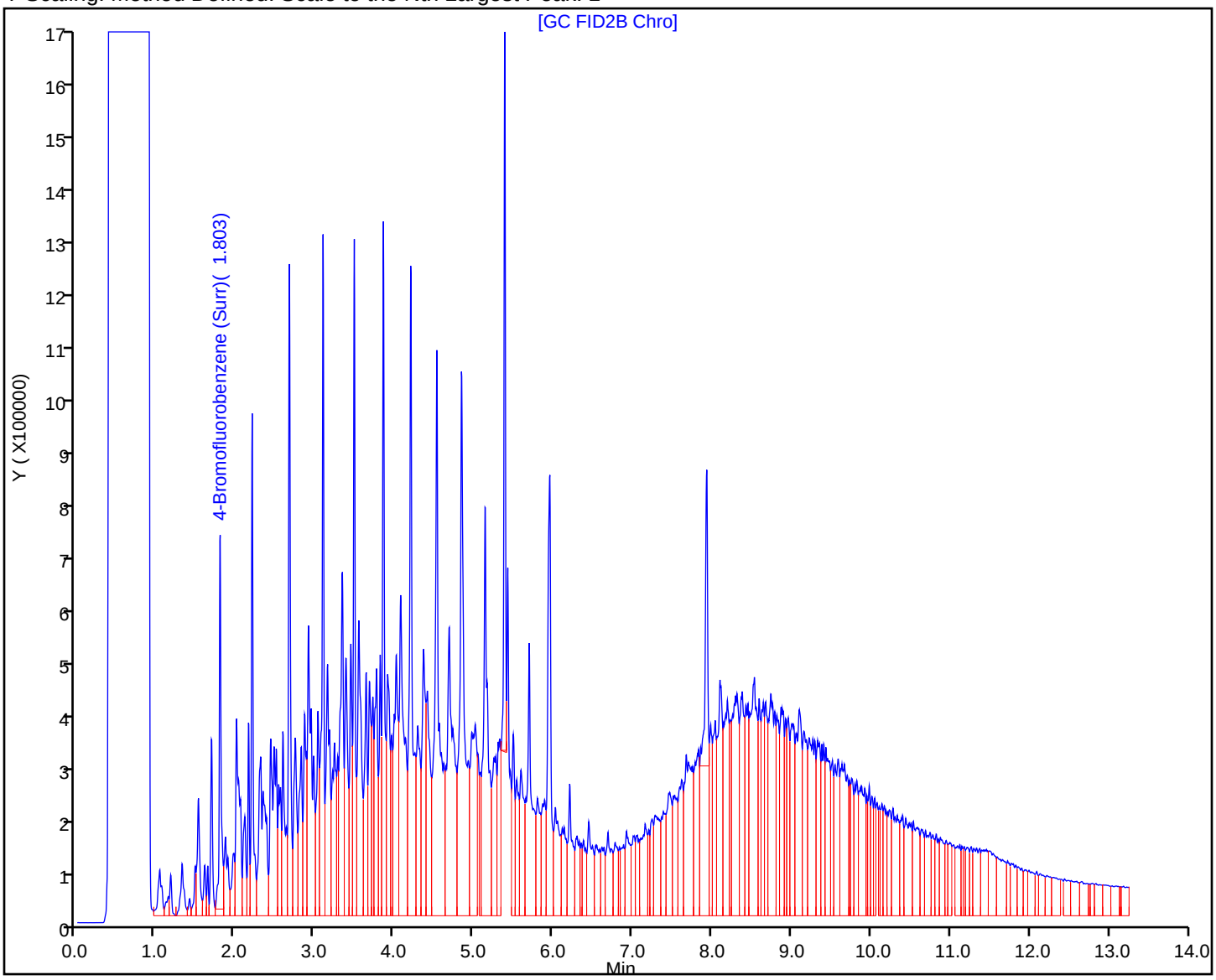
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

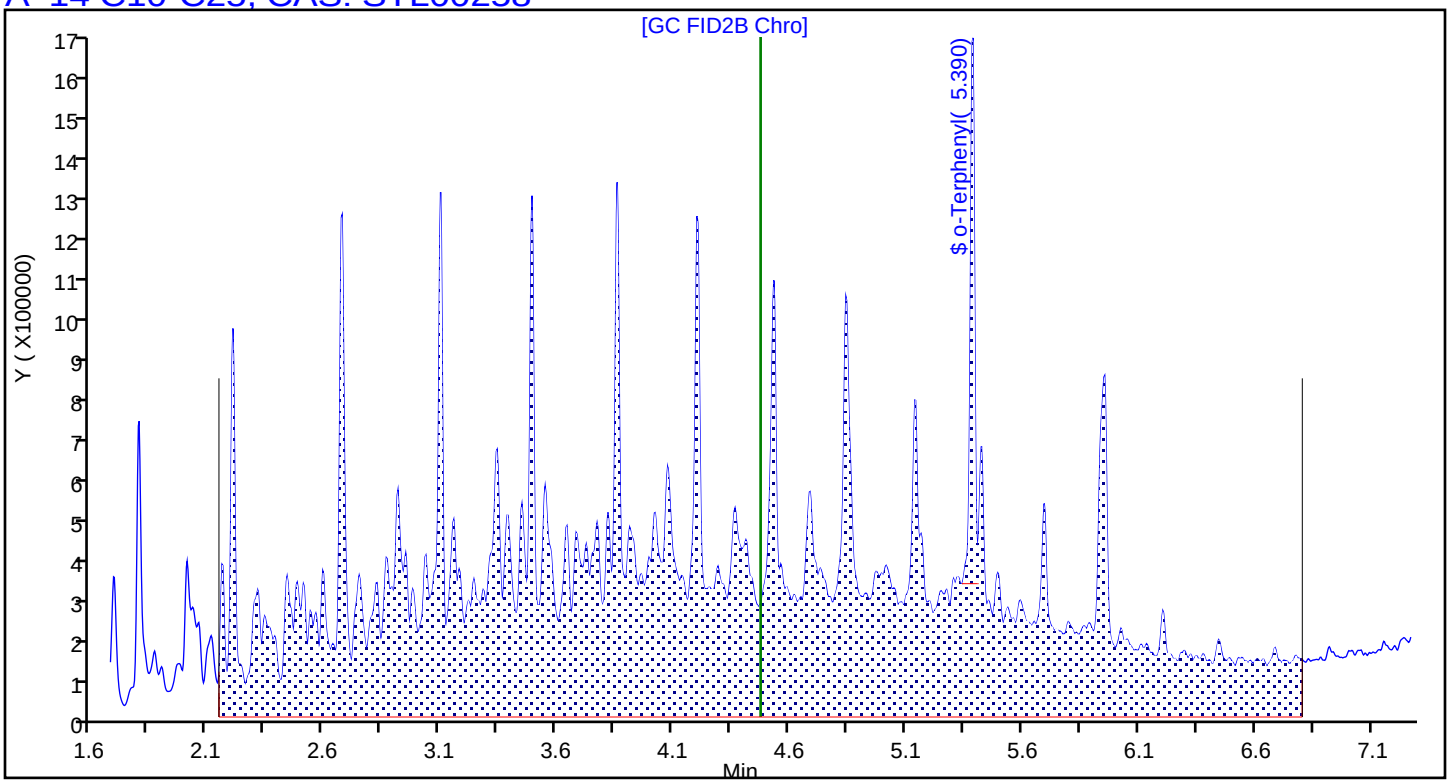


Report Date: 22-Oct-2024 15:38:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a005.D				
Injection Date:	22-Oct-2024 11:59:17	Instrument ID:	TAC129_R		
Lims ID:	CCVRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



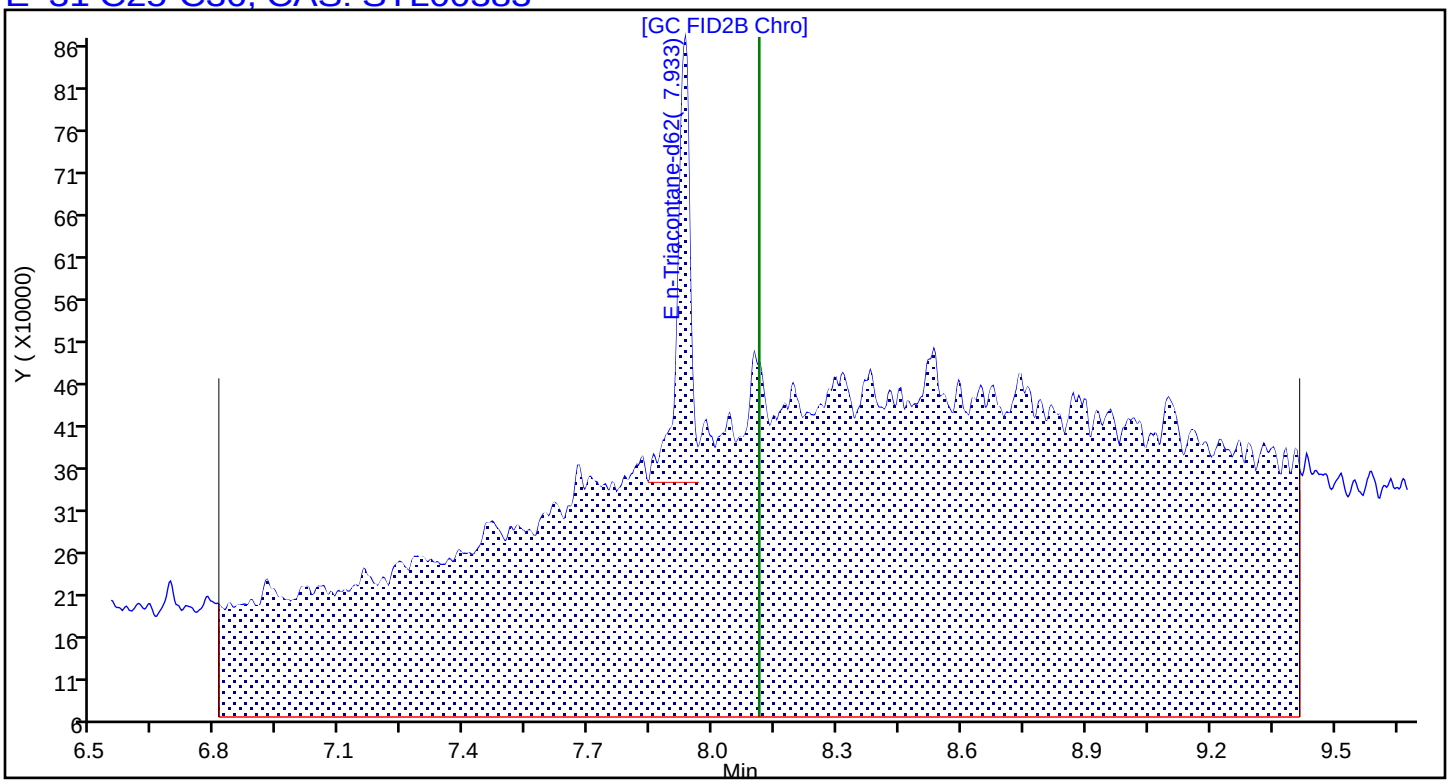
Report Date: 22-Oct-2024 15:38:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a005.D

Injection Date:	22-Oct-2024 11:59:17	Instrument ID:	TAC129_R		
Lims ID:	CCVRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

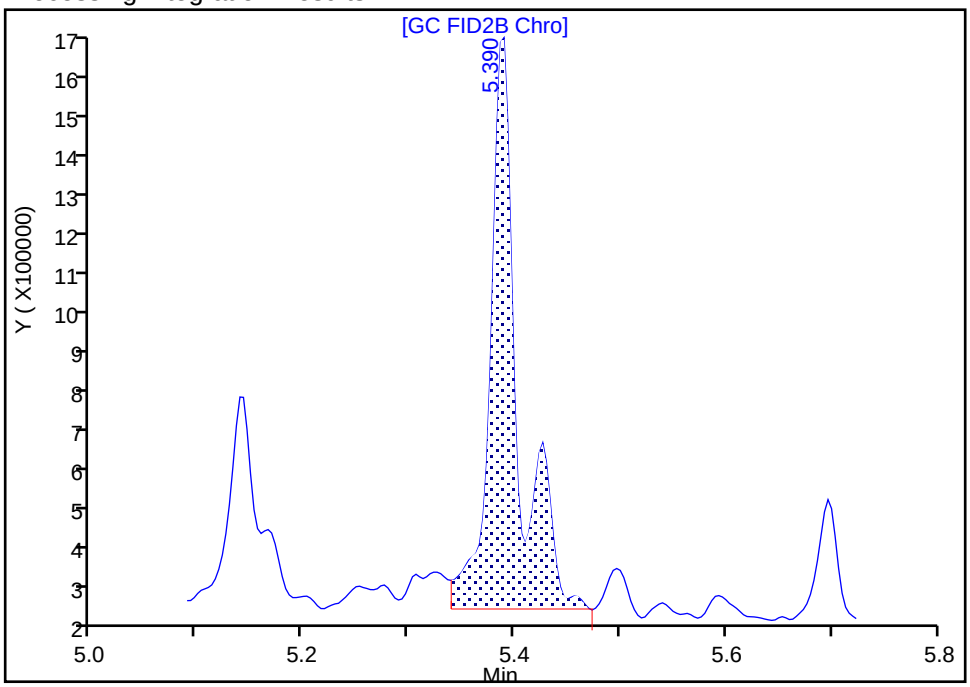
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a005.D				
Injection Date:	22-Oct-2024 11:59:17	Instrument ID:	TAC129_R		
Lims ID:	CCVRT				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

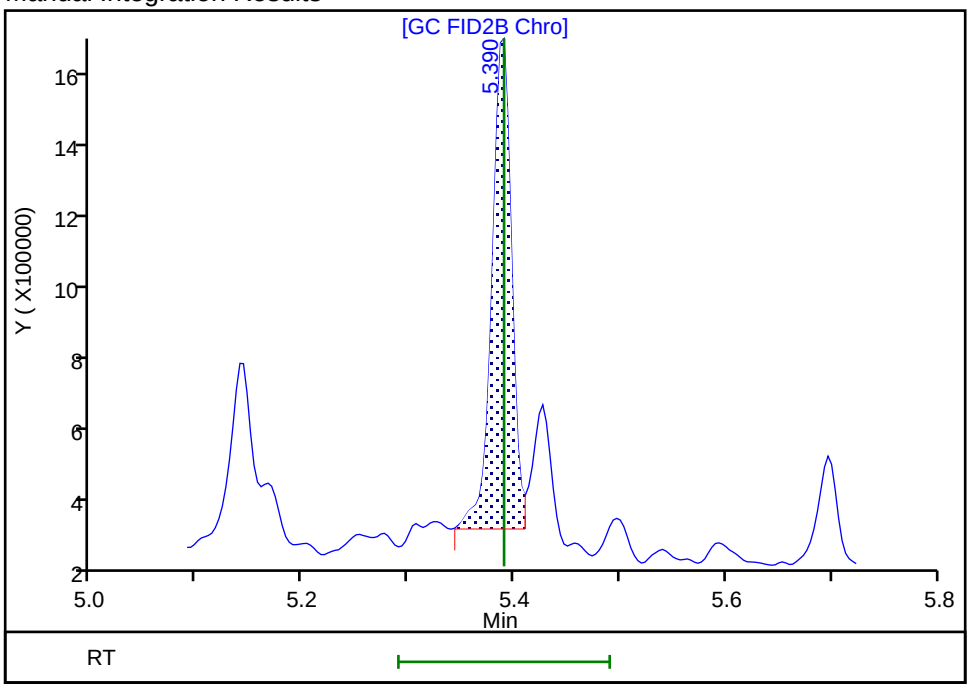
Processing Integration Results

RT: 5.39
Area: 2473205
Amount: 15.944379
Amount Units: ng/uL



Manual Integration Results

RT: 5.39
Area: 1646986
Amount: 10.617870
Amount Units: ng/uL



Reviewer: S6XW, 22-Oct-2024 12:18:24 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/22 | Calibration Date: 10/22/2024 19:51

Instrument ID: TAC129_R | Calib Start Date: 09/20/2024 14:16

GC Column: | ID: | Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a051.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		182362		584	500	16.8	25.0
RRO (nC25-nC36)	Lin2		99681		580	500	15.9	25.0
o-Terphenyl	Ave	155115	167254		11.2	10.4	7.8	25.0
n-Triacontane-d62	Ave	146468	164964		8.17	7.25	12.6	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/22 Calibration Date: 10/22/2024 19:51

Instrument ID: TAC129_R Calib Start Date: 09/20/2024 14:16

GC Column: ID: Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a051.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.48	2.15	6.81
RRO (nC25-nC36)	8.11	6.81	9.42
o-Terphenyl	5.40	5.30	5.50
n-Triacontane-d62	7.95	7.75	8.15

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a051.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 22-Oct-2024 19:51:17 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:33:19

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.800	1.800	0.000	1155612	NC	NC	
A	12 C9-C25	4.298	(1.673-6.923)		95701585	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		90435694	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		91180966	500.0	584.1	
A	16 C12-C24	4.863	(3.007-6.720)		76008104	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		100604048	NC	NC	
$	19 o-Terphenyl	5.397	5.397	0.000	1739441	10.4	11.2	
A	27 C24-C32	7.642	(6.720-8.563)		30736946	NC	NC	
E	28 n-Triacontane-d62	7.947	7.947	0.000	1195989	7.25	8.17	
A	30 C24-C36	8.068	(6.720-9.417)		50585614	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		50585614	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		49840342	500.0	579.7	
A	33 C24-C40	8.562	(6.790-10.333)		64871527	NC	NC	
A	35 C28-C40	8.953	(7.637-10.270)		54473423	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

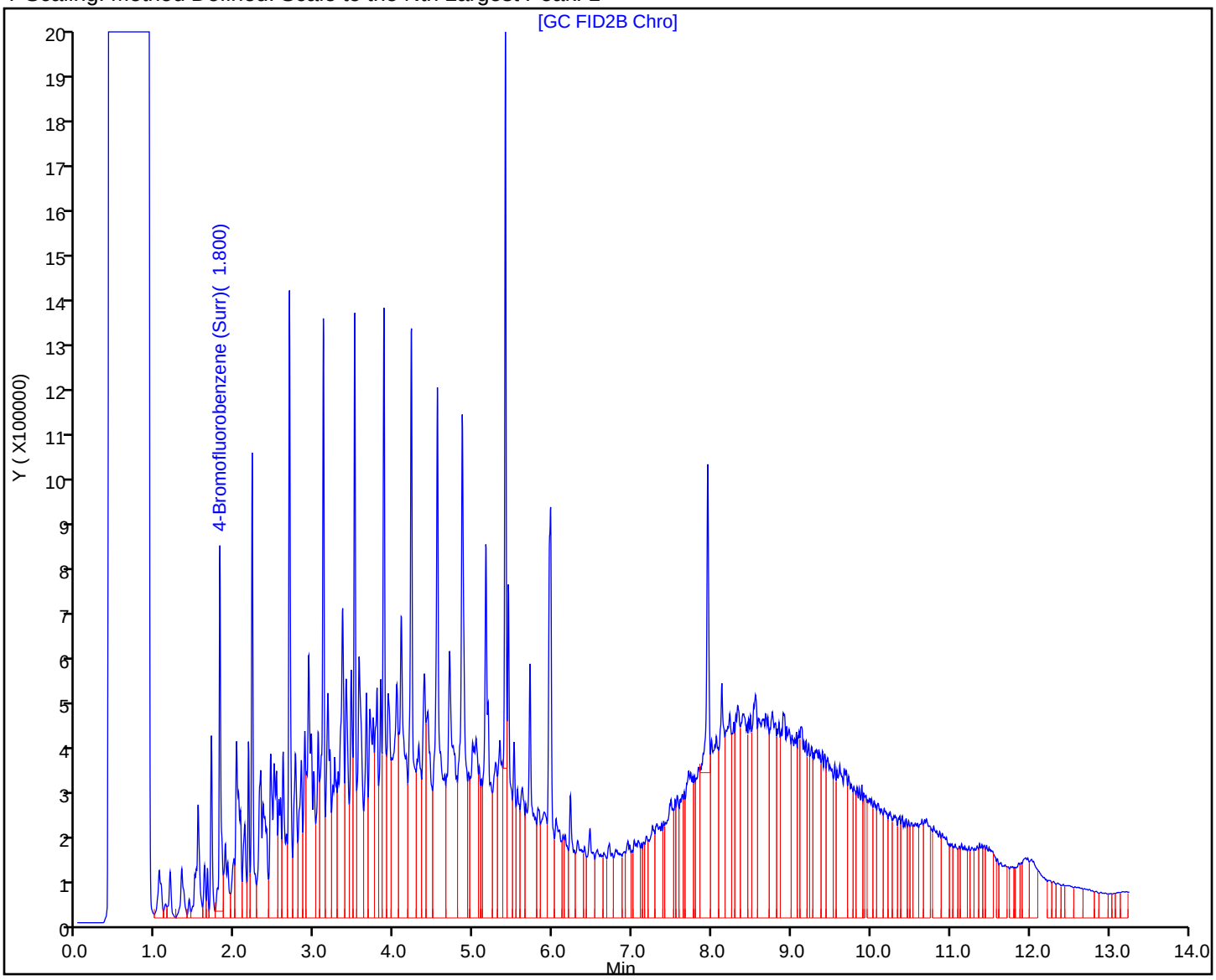
Report Date: 23-Oct-2024 16:55:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a051.D

Injection Date:	22-Oct-2024 19:51:17	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

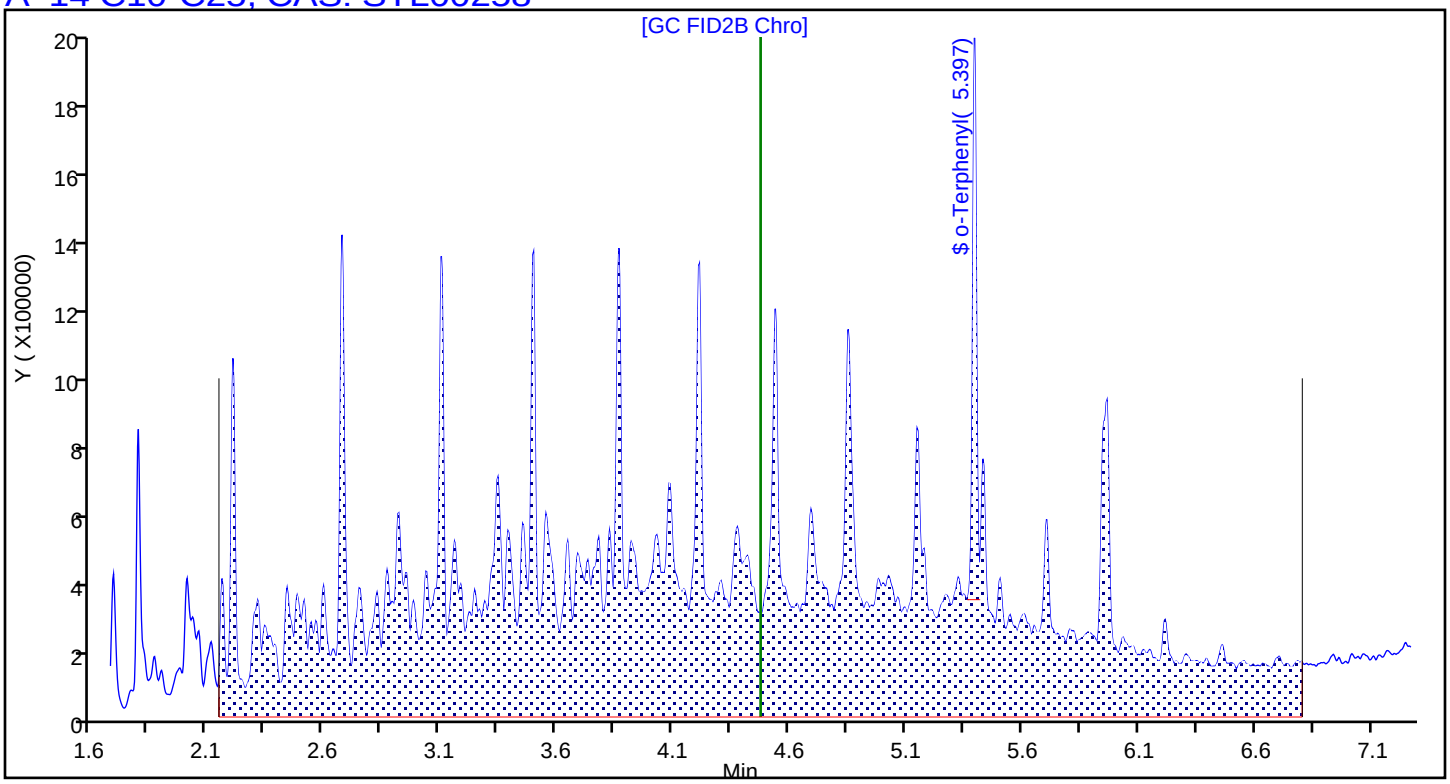


Report Date: 23-Oct-2024 16:55:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a051.D				
Injection Date:	22-Oct-2024 19:51:17	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



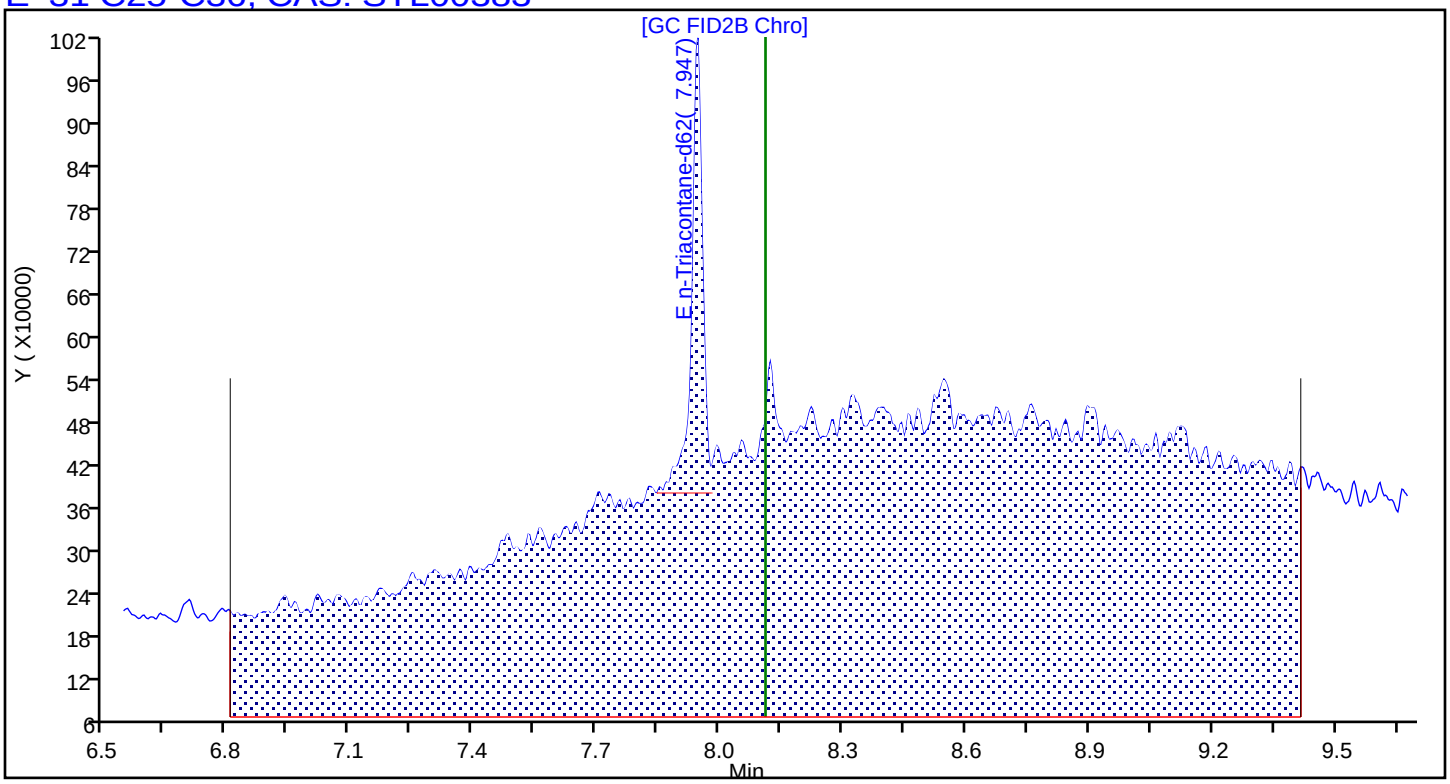
Report Date: 23-Oct-2024 16:55:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a051.D

Injection Date:	22-Oct-2024 19:51:17	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/34 | Calibration Date: 10/22/2024 23:31

Instrument ID: TAC129_R | Calib Start Date: 09/20/2024 14:16

GC Column: | ID: | Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a073.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		180684		579	500	15.7	25.0
RRO (nC25-nC36)	Lin2		103199		600	500	20.1	25.0
o-Terphenyl	Ave	155115	174510		11.7	10.4	12.5	25.0
n-Triacontane-d62	Ave	146468	178963		8.86	7.25	22.2	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/34 Calibration Date: 10/22/2024 23:31

Instrument ID: TAC129_R Calib Start Date: 09/20/2024 14:16

GC Column: ID: Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a073.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.48	2.15	6.81
RRO (nC25-nC36)	8.11	6.81	9.42
o-Terphenyl	5.40	5.30	5.50
n-Triacontane-d62	7.95	7.75	8.15

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a073.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 22-Oct-2024 23:31:35 ALS Bottle#: 0 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:18 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:33:50

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
3	4-Bromofluorobenzene (Surr)	1.797	1.797	0.000	1137860	NC	NC	
A	12 C9-C25	4.298	(1.673-6.923)		94906430	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		89577586	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		90342013	500.0	578.7	
A	16 C12-C24	4.863	(3.007-6.720)		75343578	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		100504088	NC	NC	
$	19 o-Terphenyl	5.400	5.400	0.000	1814906	10.4	11.7	M
A	27 C24-C32	7.642	(6.720-8.563)		31855146	NC	NC	
E	28 n-Triacontane-d62	7.950	7.950	0.000	1297485	7.25	8.86	
A	30 C24-C36	8.068	(6.720-9.417)		52364096	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		52364096	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		51599669	500.0	600.3	
A	33 C24-C40	8.562	(6.790-10.333)		67747035	NC	NC	
A	35 C28-C40	8.953	(7.637-10.270)		56534818	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2024 16:55:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a073.D

Injection Date: 22-Oct-2024 23:31:35 Instrument ID: TAC129_R

Lims ID: CCV

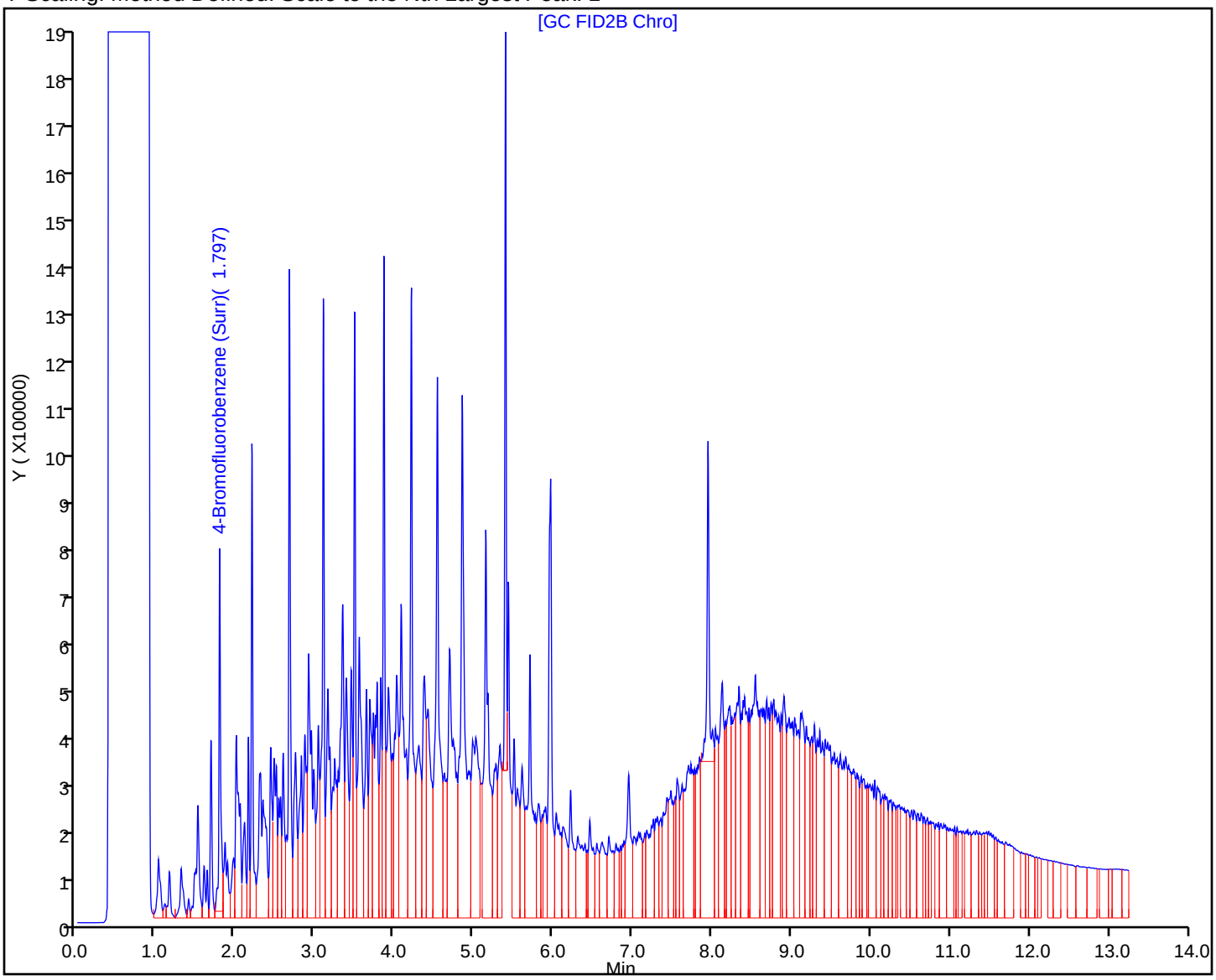
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 34

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

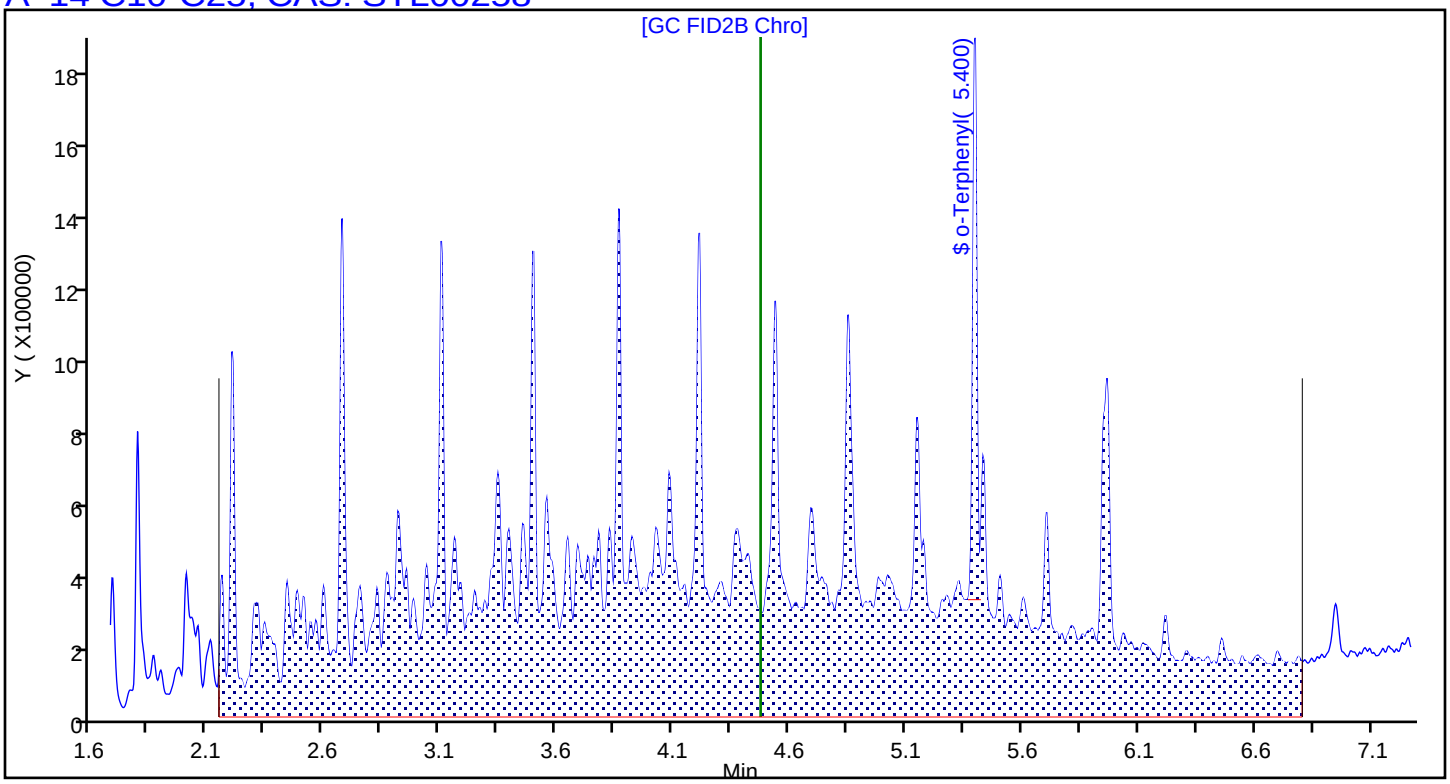


Report Date: 23-Oct-2024 16:55:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a073.D				
Injection Date:	22-Oct-2024 23:31:35	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258

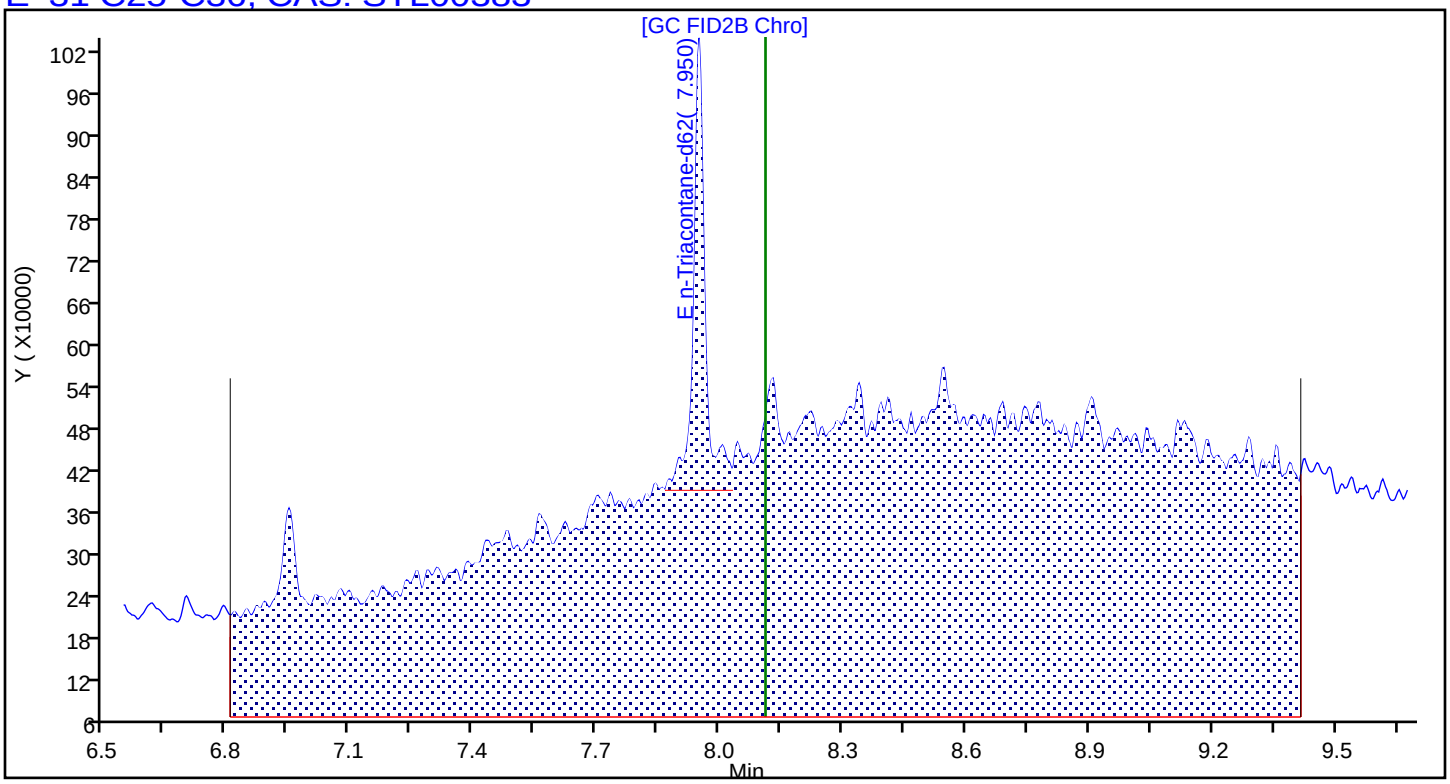


Report Date: 23-Oct-2024 16:55:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a073.D				
Injection Date:	22-Oct-2024 23:31:35	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E_31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

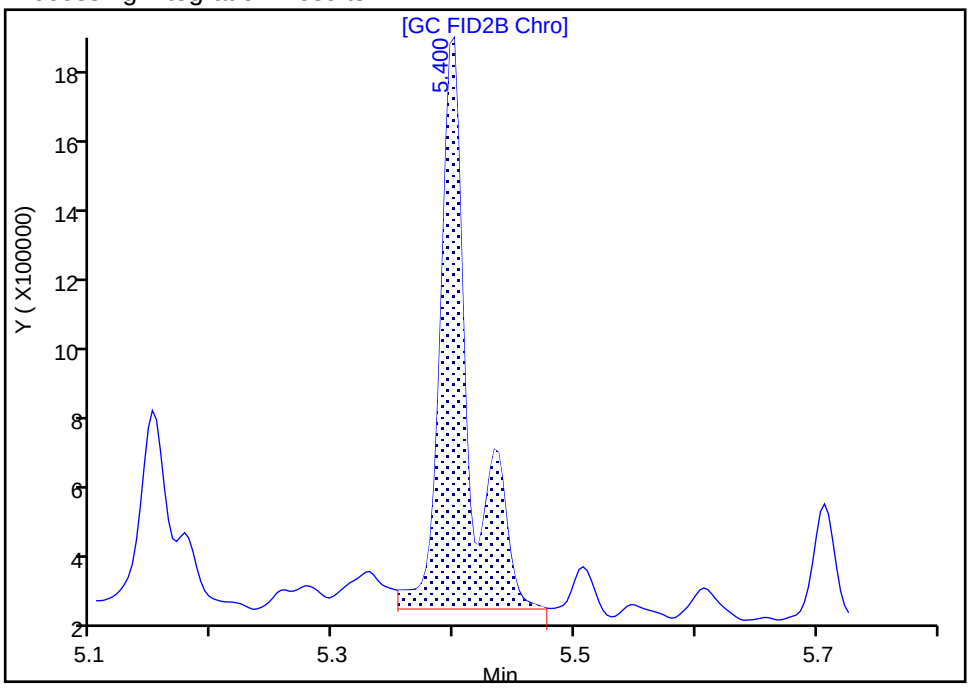
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a073.D				
Injection Date:	22-Oct-2024 23:31:35	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

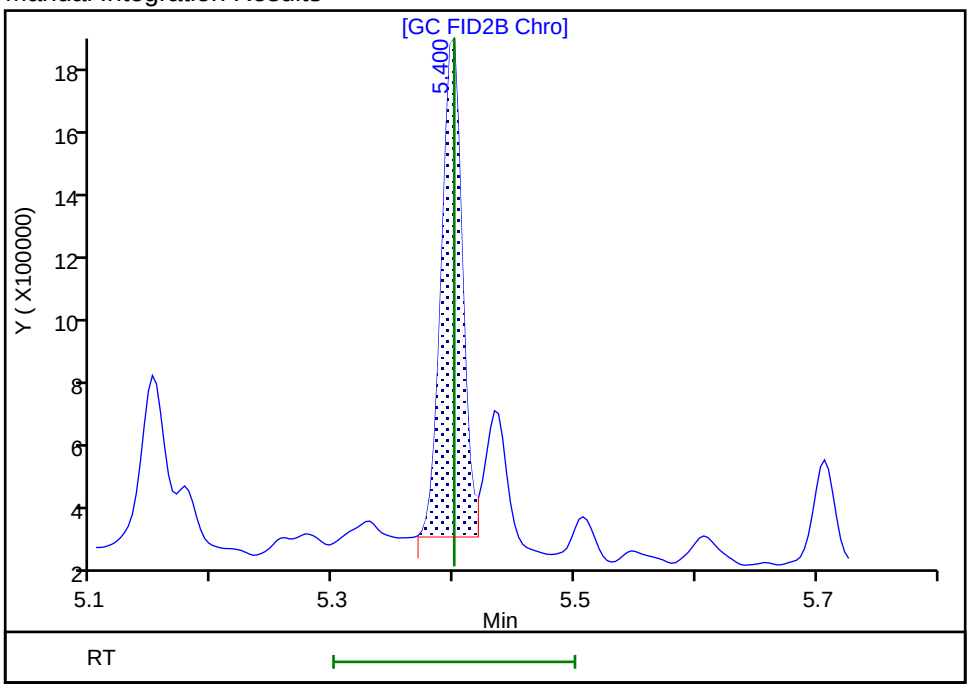
Processing Integration Results

RT: 5.40
Area: 2578249
Amount: 16.621582
Amount Units: ng/uL



Manual Integration Results

RT: 5.40
Area: 1814906
Amount: 11.700425
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 08:33:34 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/46 | Calibration Date: 10/23/2024 03:10

Instrument ID: TAC129_R | Calib Start Date: 09/20/2024 14:16

GC Column: | ID: | Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a095.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
DRO (nC10-<nC25)	Lin2		182782		585	500	17.1	25.0
RRO (nC25-nC36)	Lin2		103494		602	500	20.4	25.0
o-Terphenyl	Ave	155115	178014		11.9	10.4	14.8	25.0
n-Triacontane-d62	Ave	146468	171698		8.50	7.25	17.2	25.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Lab Sample ID: CCV 580-475534/46 Calibration Date: 10/23/2024 03:10

Instrument ID: TAC129_R Calib Start Date: 09/20/2024 14:16

GC Column: ID: Calib End Date: 09/20/2024 17:59

Lab File ID: 10222024a095.D

Analyte	RT	RT WINDOW	
		FROM	TO
DRO (nC10-<nC25)	4.48	2.15	6.81
RRO (nC25-nC36)	8.11	6.81	9.42
o-Terphenyl	5.40	5.30	5.50
n-Triacontane-d62	7.95	7.75	8.15

Report Date: 23-Oct-2024 16:55:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a095.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Oct-2024 03:10:53 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVRT
Operator ID: SW Instrument ID: TAC129_R
Sublist: chrom-TPH-TAC129Rear*sub2

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:31 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 08:34:14

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.800	1.800	0.000	1157165	NC	NC	
A	12 C9-C25	4.298	(1.673-6.923)		95962013	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		90630910	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		91390777	500.0	585.5	
A	16 C12-C24	4.863	(3.007-6.720)		76145077	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		101061663	NC	NC	
$	19 o-Terphenyl	5.400	5.400	0.000	1851346	10.4	11.9	M
A	27 C24-C32	7.642	(6.720-8.563)		31570194	NC	NC	
E	28 n-Triacontane-d62	7.950	7.950	0.000	1244809	7.25	8.50	
A	30 C24-C36	8.068	(6.720-9.417)		52506647	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		52506647	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		51746779	500.0	602.0	
A	33 C24-C40	8.562	(6.790-10.333)		68519141	NC	NC	
A	35 C28-C40	8.953	(7.637-10.270)		57741086	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

TPH-CCV_500_00148 Amount Added: 1.00 Units: mL

Report Date: 23-Oct-2024 16:55:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a095.D

Injection Date: 23-Oct-2024 03:10:53 Instrument ID: TAC129_R

Lims ID: CCV

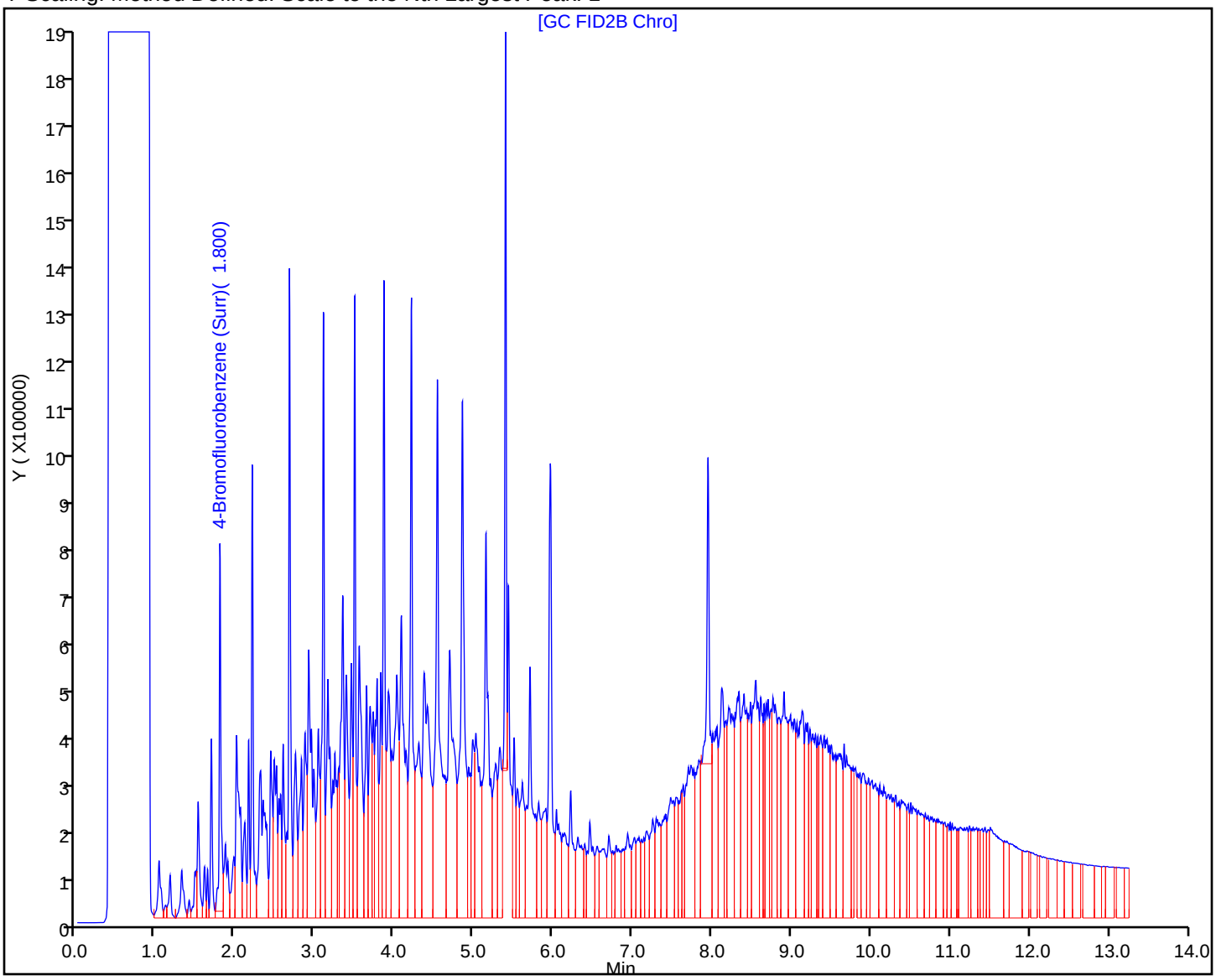
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 46

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

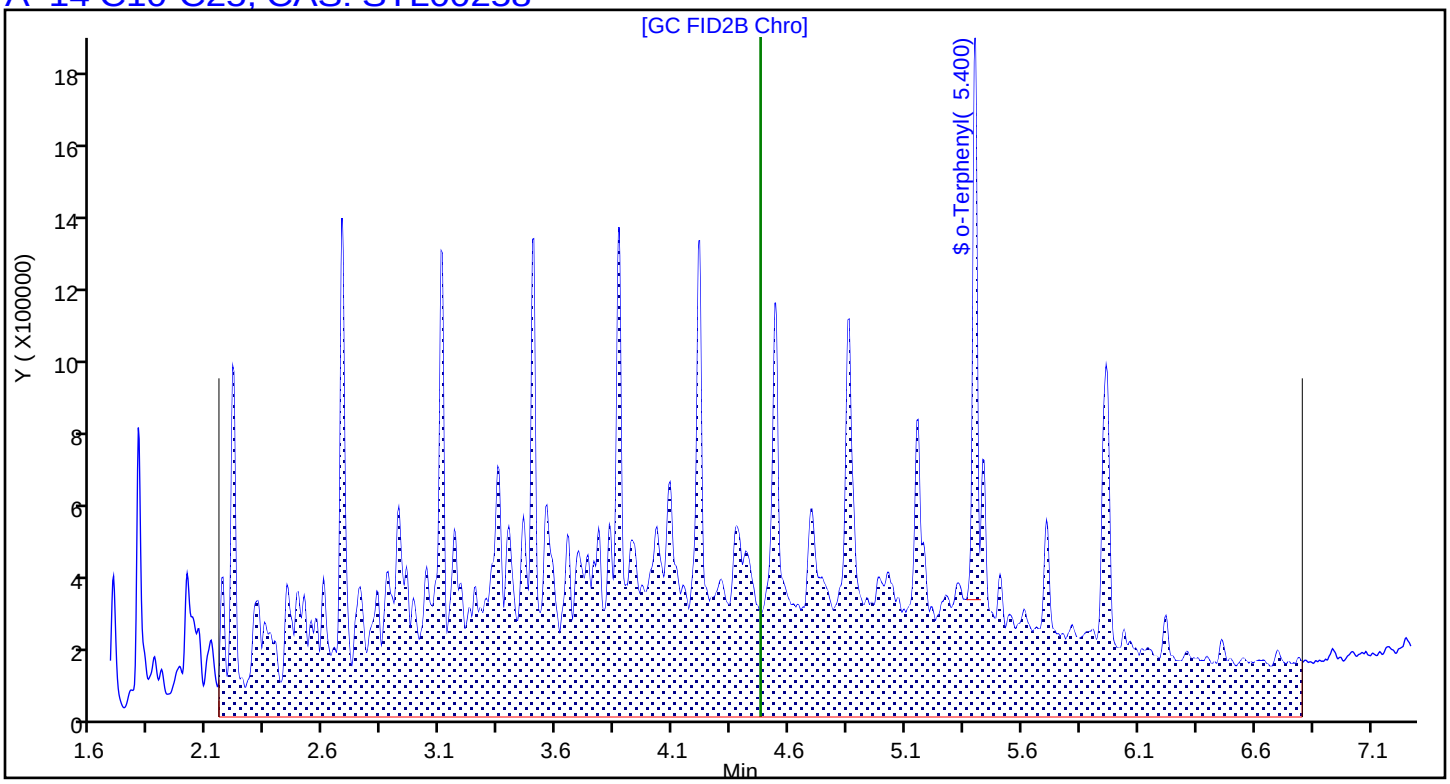


Report Date: 23-Oct-2024 16:55:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a095.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



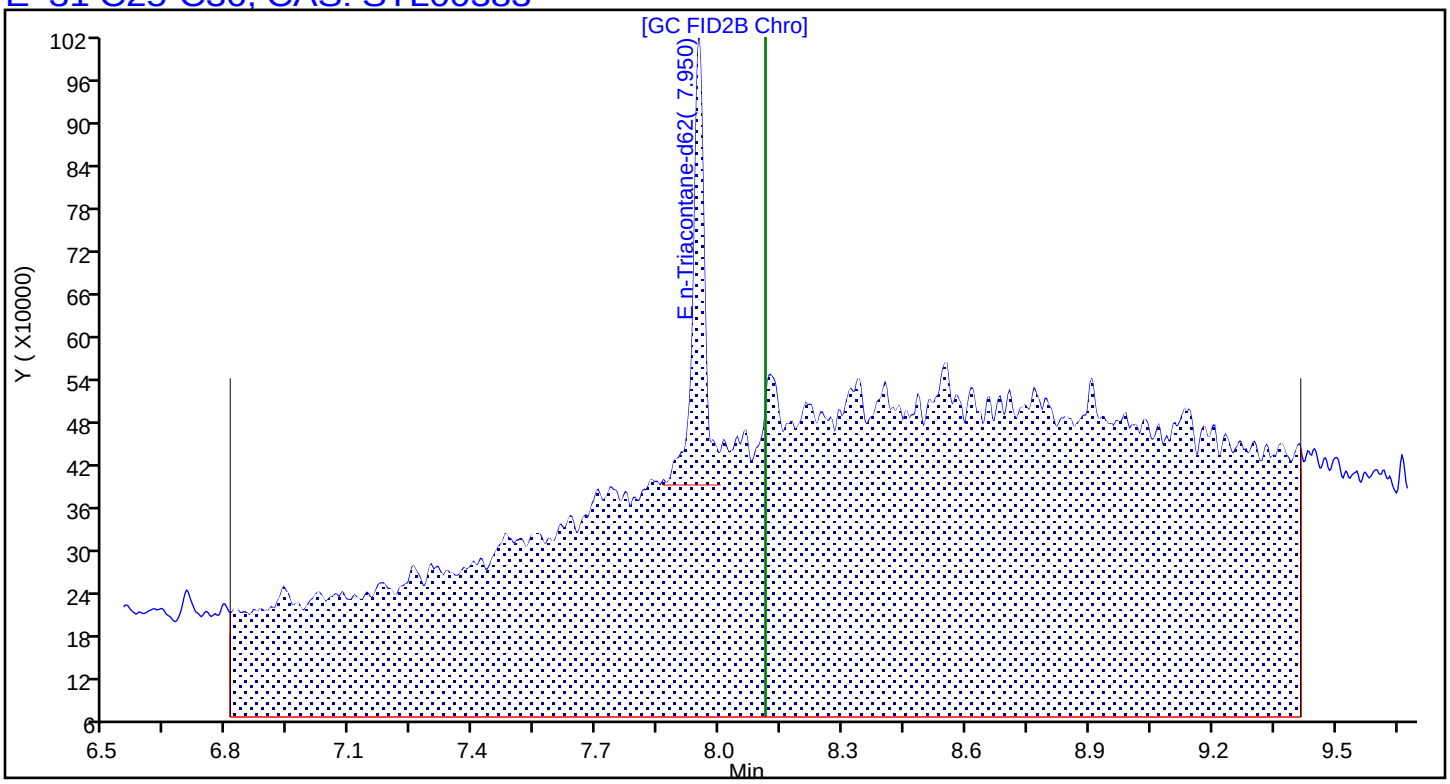
Report Date: 23-Oct-2024 16:55:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a095.D

Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 31 C25-C36, CAS: STL00383



Manual Integration/User Assign Peak Report

Eurofins Seattle

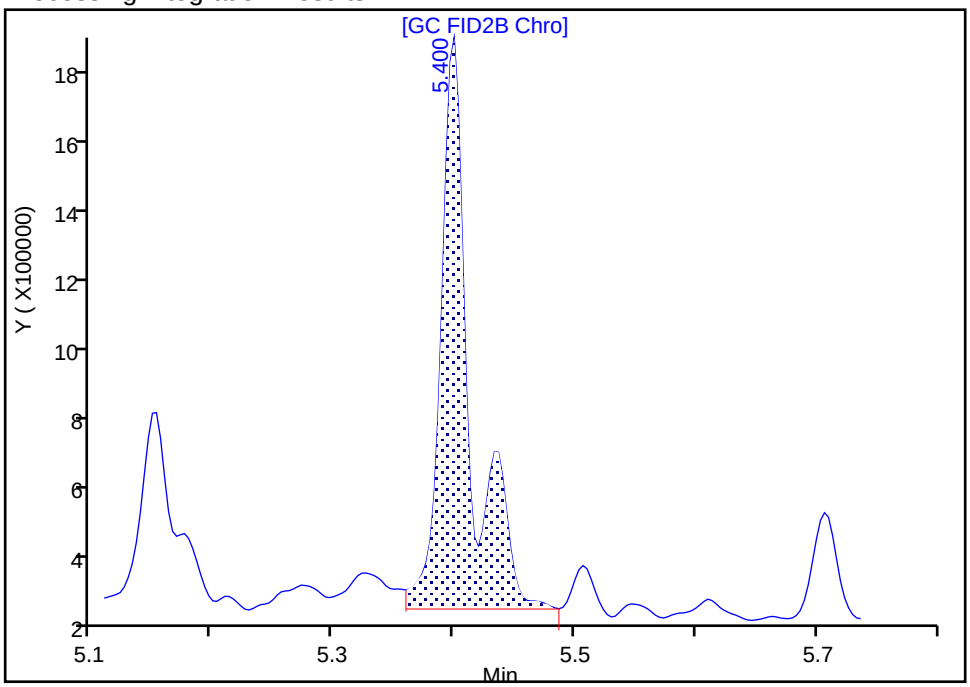
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a095.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129_R		
Lims ID:	CCV				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

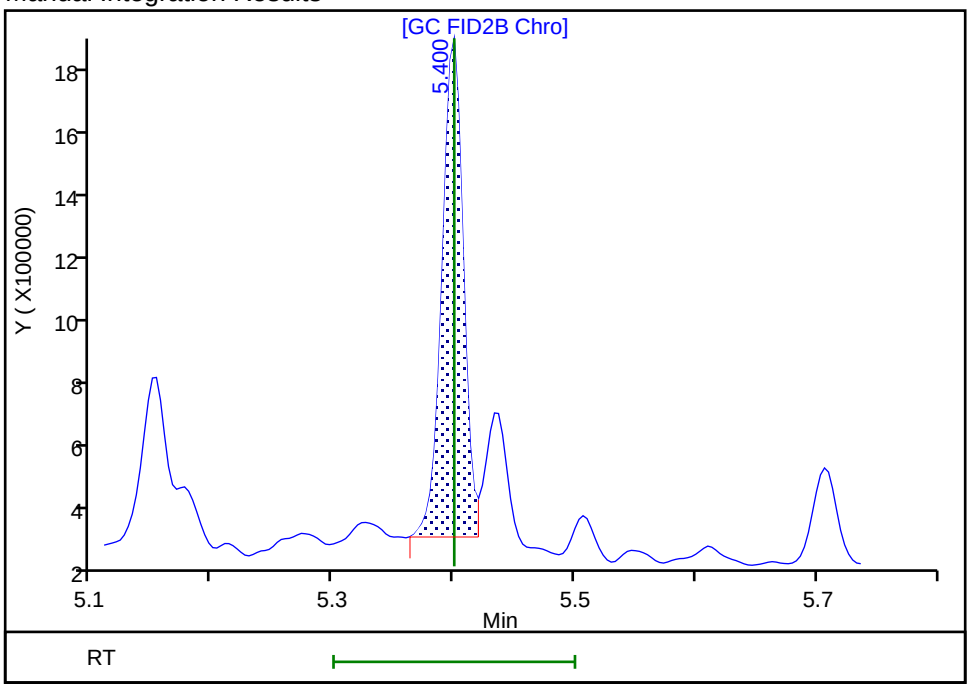
Processing Integration Results

RT: 5.40
Area: 2631659
Amount: 16.965909
Amount Units: ng/uL



Manual Integration Results

RT: 5.40
Area: 1851346
Amount: 11.935348
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 08:34:02 -07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Shouldering

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: | Lab Sample ID: MB 580-475429/1-A

Matrix: Solid | Lab File ID: 10222024a053.D

Analysis Method: AK102 & 103 | Date Collected:

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10(g) | Date Analyzed: 10/22/2024 20:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	15	U	20	15	8.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	109		60-120
93952-07-9	n-Triacontane-d62	86		60-120

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a053.D
Lims ID: MB 580-475429/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Oct-2024 20:11:15 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 580-475429/1-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:49:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 n-Nonane	1.640	1.703	-0.063	7765		NC	
3 4-Bromofluorobenzene (Surr)	1.797	1.800	-0.003	655455	NC	NC	
A 5 Jet fuel	2.772	(0.980-4.563)		394946		NC	
A 8 C8-C20	3.373	(0.980-5.767)		494430		NC	
9 C13	3.530	3.493	0.037	1224		NC	
10 n-Tetradecane	3.867	3.860	0.007	2503		NC	
$ 7 n-Decanoic Acid (Surr)	4.080	4.037	0.043	1595		NC	
11 C15	4.230	4.207	0.023	2691		NC	
A 12 C9-C25	4.298	(1.673-6.923)		412006		NC	
A 13 C10-C24	4.433	(2.147-6.720)		346675		NC	
A 14 C10-C25	4.477	(2.147-6.807)		354390		0.1196	
15 Hexadecane	4.530	4.533	-0.003	3776		NC	
A 16 C12-C24	4.863	(3.007-6.720)		282346		NC	
A 17 C10-C28	4.892	(2.147-7.637)		483382		NC	
$ 19 o-Terphenyl	5.397	5.397	0.000	1761132	10.4	11.4	
20 C19	5.337	5.427	-0.090	2327		NC	
21 icosane	5.760	5.700	0.060	2096		NC	
A 22 Mineral oil	6.002	(3.007-8.997)		822376		NC	
24 C25	6.927	6.923	0.004	10889		NC	
25 n-Hexacosane	7.167	7.157	0.010	6491		NC	
26 n-Octacosane	7.617	7.607	0.010	8453		NC	
A 27 C24-C32	7.642	(6.720-8.563)		381370		NC	
E 28 n-Triacontane-d62	7.943	7.947	-0.004	909470	7.25	6.21	
A 30 C24-C36	8.068	(6.720-9.417)		735984		NC	
A 29 Motor Oil	8.068	(6.720-9.417)		735984		NC	
E 31 C25-C36	8.112	(6.807-9.417)		728269		6.11	
32 Dotriacontane	8.487	8.460	0.027	17562		NC	
A 33 C24-C40	8.562	(6.790-10.333)		1466800		NC	
34 Tetratriacontane	8.857	8.893	-0.036	40969		NC	
A 35 C28-C40	8.953	(7.637-10.270)		1268681		NC	
37 C38	9.777	9.760	0.017	95185		NC	
38 C40	10.143	10.183	-0.040	68153		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 23-Oct-2024 16:55:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a053.D

Injection Date: 22-Oct-2024 20:11:15 Instrument ID: TAC129_R

Lims ID: MB 580-475429/1-A

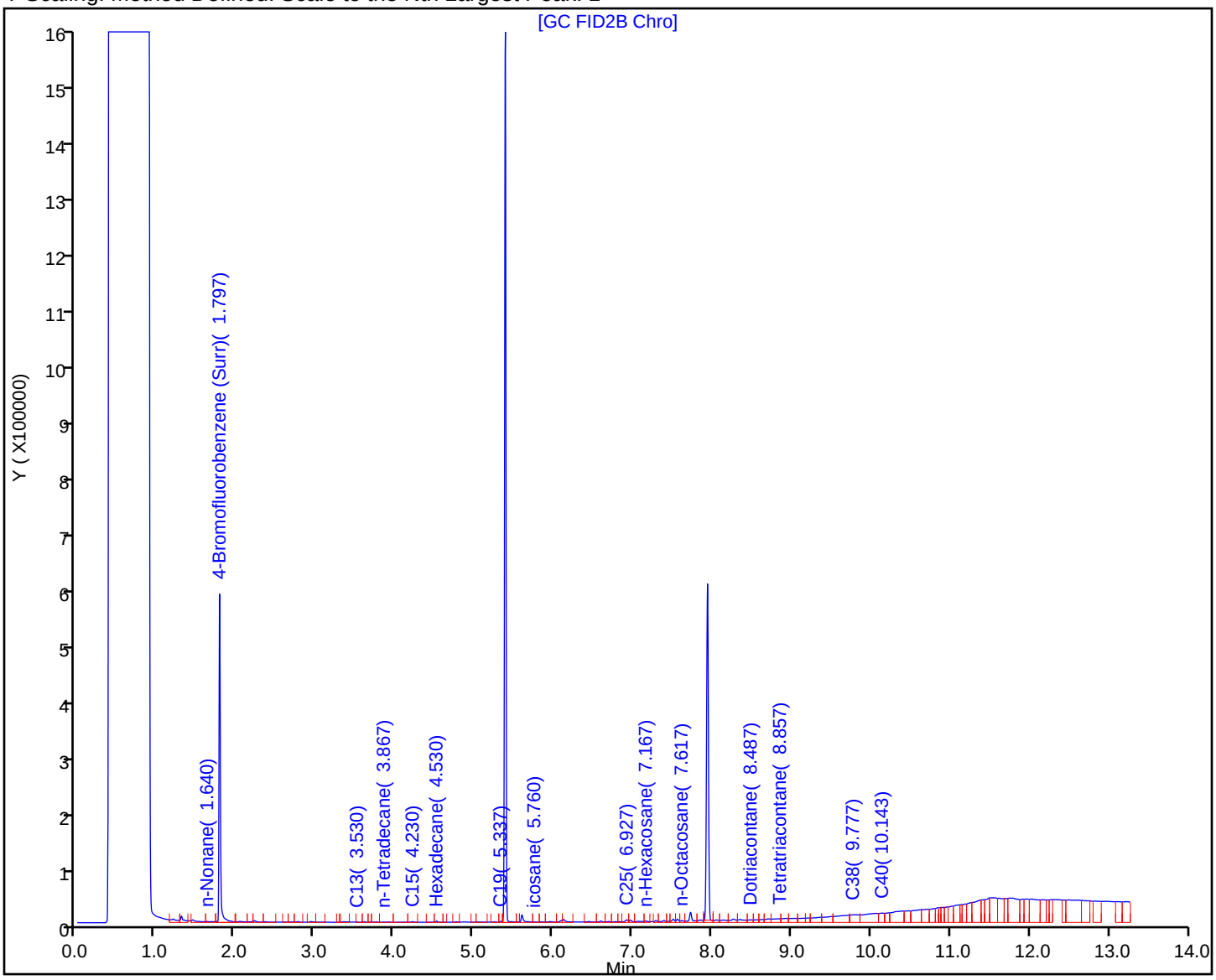
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a053.D
Lims ID: MB 580-475429/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Oct-2024 20:11:15 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 580-475429/1-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:49:35

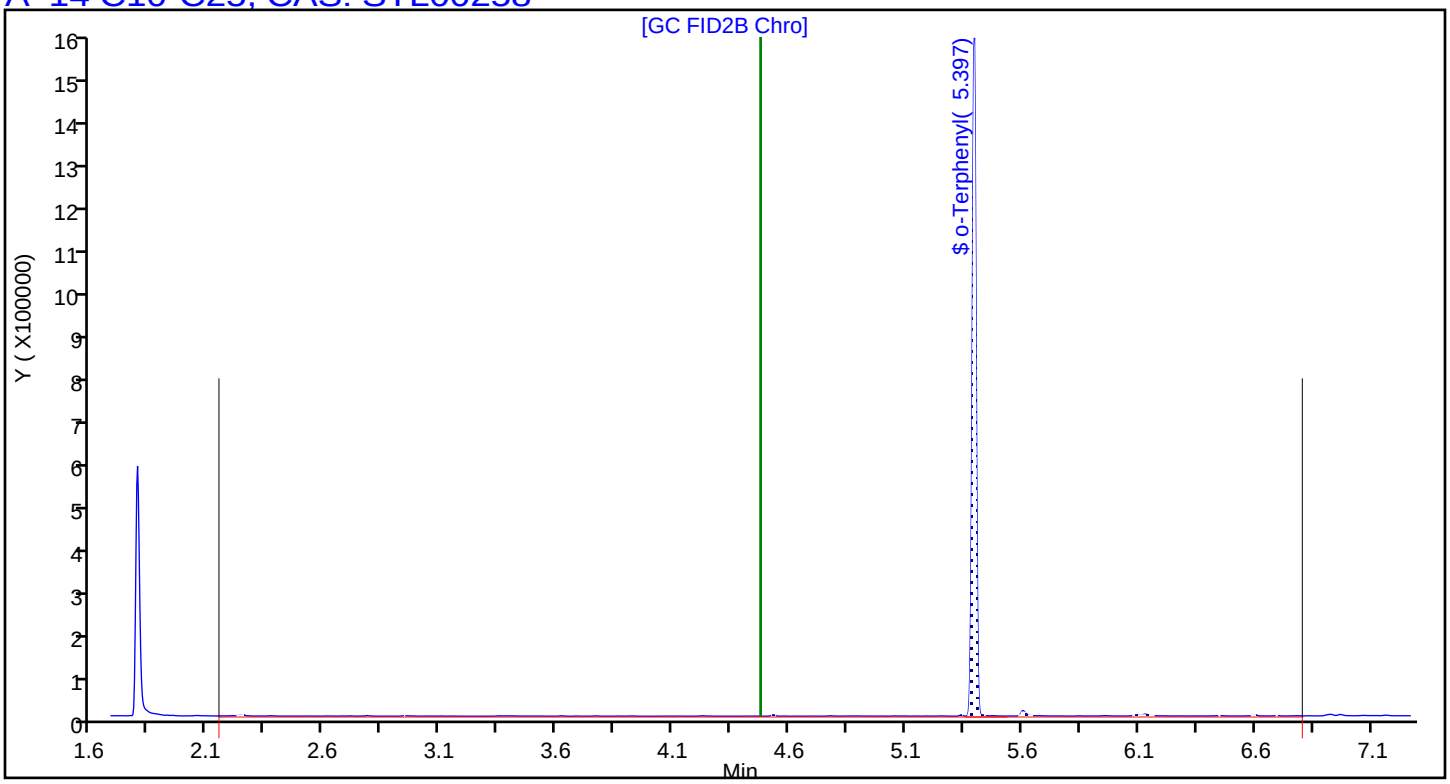
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	11.4	109.17
E 28 n-Triacontane-d62	7.25	6.21	85.65

Report Date: 23-Oct-2024 16:55:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a053.D				
Injection Date:	22-Oct-2024 20:11:15	Instrument ID:	TAC129_R		
Lims ID:	MB 580-475429/1-A				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: | Lab Sample ID: MB 580-475429/1-B

Matrix: Solid | Lab File ID: 10222024a086.D

Analysis Method: AK102/103 | Date Collected:

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10(g) | Date Analyzed: 10/23/2024 01:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	15	U	20	15	8.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		60-120
93952-07-9	n-Triacontane-d62	98		60-120

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a086.D
Lims ID: MB 580-475429/1-B
Client ID:
Sample Type: MB
Inject. Date: 23-Oct-2024 01:31:10 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 580-475429/1-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.067	1.053	0.014	4476		NC	
	2 n-Nonane	1.527	1.563	-0.036	1482		NC	
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	691228	NC	NC	
A	5 Jet fuel	2.693	(0.943-4.443)		264467		NC	
A	7 C8-C20	3.292	(0.943-5.640)		379378		NC	
	6 C13	3.350	3.373	-0.023	2713		NC	
	8 n-Tetradecane	3.740	3.740	0.000	24442		NC	
	9 C15	4.100	4.087	0.013	6233		NC	
A	10 C9-C25	4.160	(1.533-6.787)		410032		NC	
A	12 C10-C24	4.297	(2.007-6.587)		366521		NC	
A	13 C10-C25	4.342	(2.007-6.677)		374019		1.37	
	11 Hexadecane	4.410	4.413	-0.003	22668		NC	
A	14 C12-C24	4.742	(2.897-6.587)		326199		NC	
A	15 C10-C28	4.750	(2.007-7.493)		504721		NC	
	16 n-Octadecane	5.017	5.023	-0.006	10944		NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1882996	10.4	11.7	
	18 C19	5.213	5.303	-0.090	7659		NC	
	19 icosane	5.570	5.573	-0.003	9266		NC	
A	20 Mineral oil	5.855	(2.897-8.813)		728372		NC	
	22 C25	6.777	6.787	-0.010	9184		NC	
	23 n-Hexacosane	7.007	7.017	-0.010	8186		NC	
	24 n-Octacosane	7.453	7.463	-0.010	7581		NC	
A	25 C24-C32	7.490	(6.587-8.393)		314869		NC	
E	26 n-Triacontane-d62	7.770	7.777	-0.007	970454	7.25	7.14	
A	27 C24-C36	7.905	(6.587-9.223)		506839		NC	
A	28 Motor Oil	7.905	(6.587-9.223)		506839		NC	
E	29 C25-C36	7.950	(6.677-9.223)		499341		1.19	
	30 Dotriacontane	8.290	8.297	-0.007	13127		NC	
A	31 C24-C40	8.392	(6.657-10.127)		854042		NC	
	32 Tetratriacontane	8.717	8.713	0.004	20854		NC	
A	33 C28-C40	8.778	(7.493-10.063)		688122		NC	
	35 C38	9.550	9.560	-0.010	49631		NC	
	36 C40	9.993	9.977	0.016	18156		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 23-Oct-2024 14:57:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a086.D

Injection Date: 23-Oct-2024 01:31:10 Instrument ID: TAC129

Lims ID: MB 580-475429/1-B

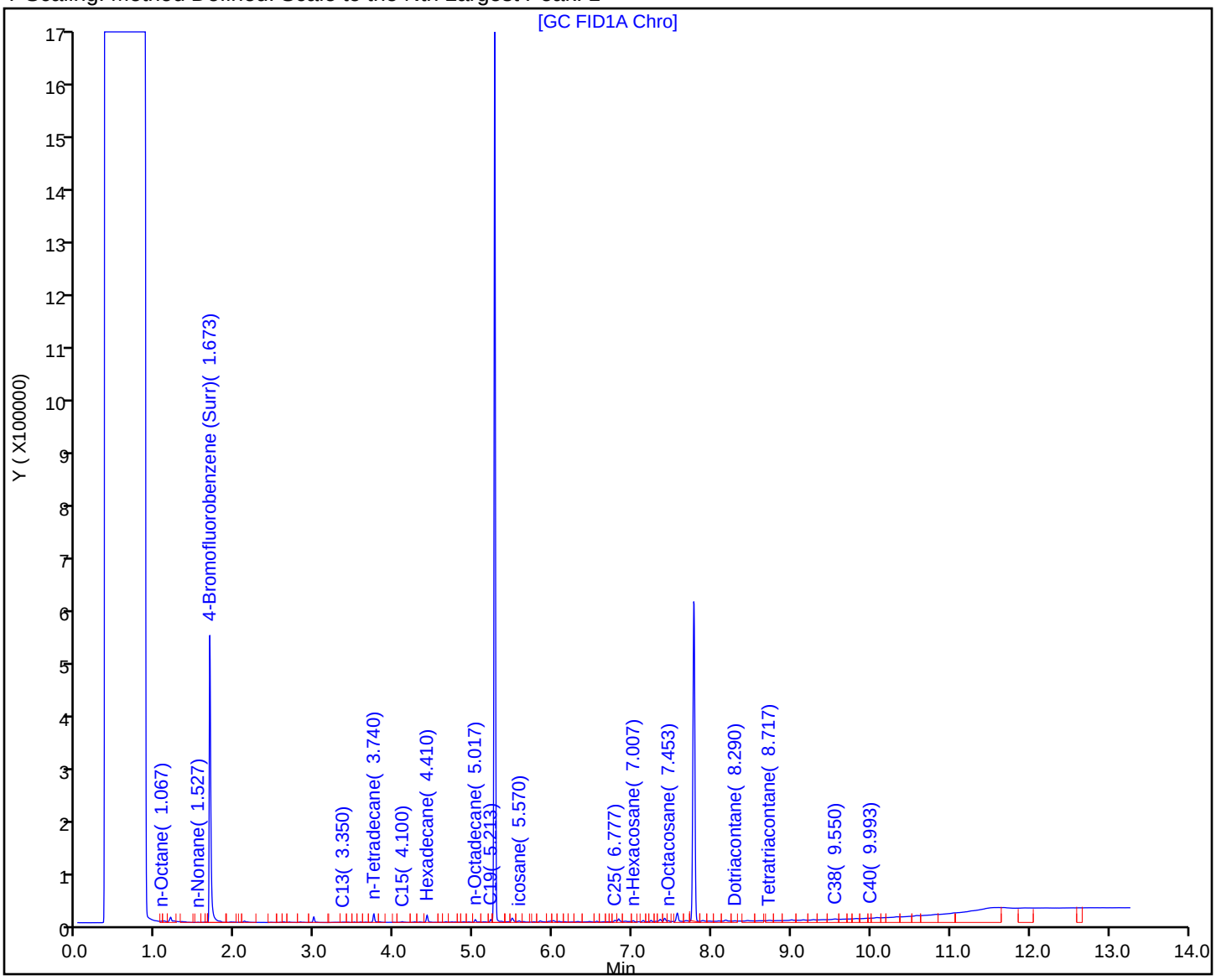
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 42

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a086.D
Lims ID: MB 580-475429/1-B
Client ID:
Sample Type: MB
Inject. Date: 23-Oct-2024 01:31:10 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 580-475429/1-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

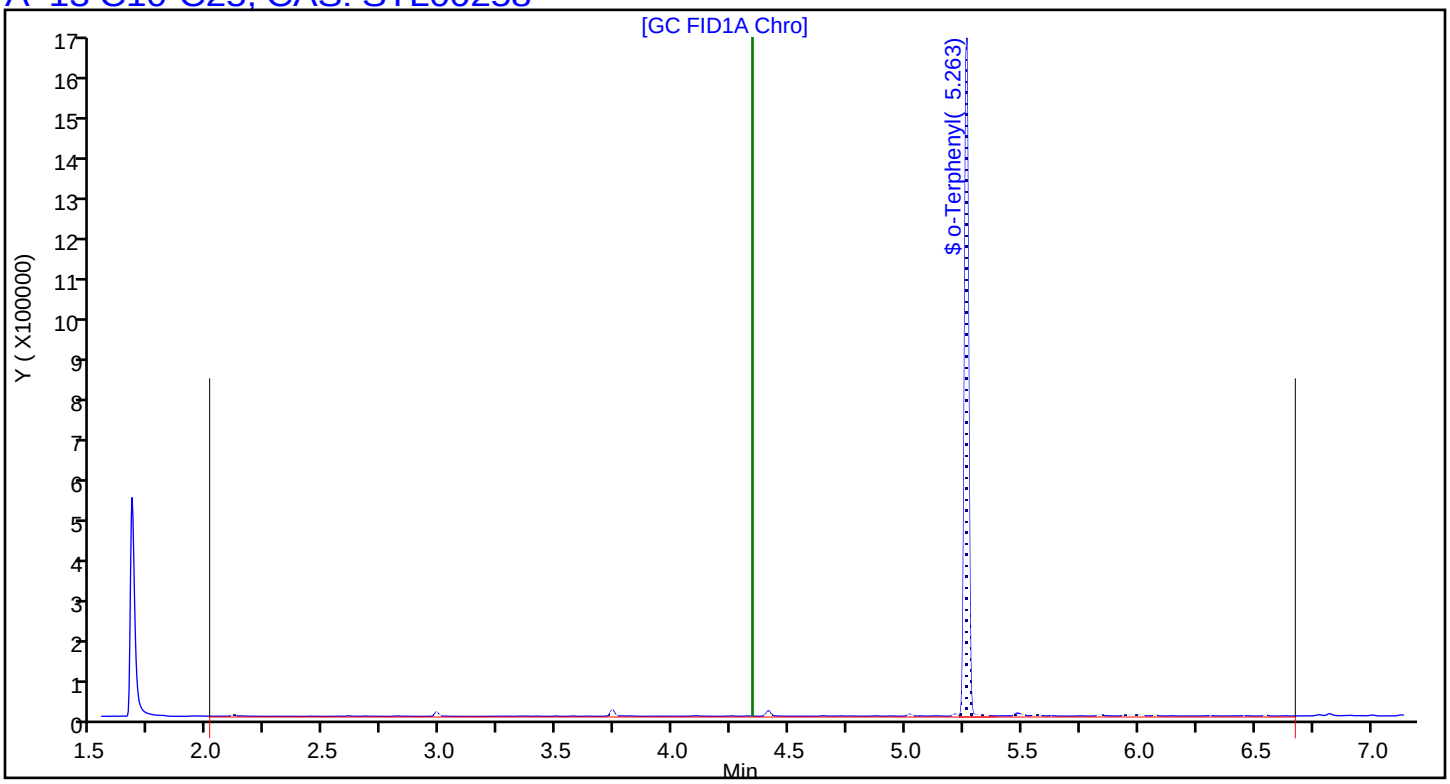
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	11.7	112.45
E 26 n-Triacontane-d62	7.25	7.14	98.47

Report Date: 23-Oct-2024 14:57:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a086.D				
Injection Date:	23-Oct-2024 01:31:10	Instrument ID:	TAC129		
Lims ID:	MB 580-475429/1-B				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: | Lab Sample ID: LCS 580-475429/2-A

Matrix: Solid | Lab File ID: 10222024a055.D

Analysis Method: AK102 & 103 | Date Collected:

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10(g) | Date Analyzed: 10/22/2024 20:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	492		20	15	8.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		60-120
93952-07-9	n-Triacontane-d62	81		60-120

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a055.D
Lims ID: LCS 580-475429/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Oct-2024 20:31:21 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 580-475429/2-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:49:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	3 4-Bromofluorobenzene (Surr)	1.797	1.800	-0.003	877477	NC	NC	
A	12 C9-C25	4.298	(1.673-6.923)		80406132	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		76174854	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		76817620	500.0	491.8	
A	16 C12-C24	4.863	(3.007-6.720)		64437725	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		84916280	NC	NC	
$	19 o-Terphenyl	5.397	5.397	0.000	1567006	10.4	10.1	
A	27 C24-C32	7.642	(6.720-8.563)		26736427	NC	NC	
E	28 n-Triacontane-d62	7.947	7.947	0.000	859822	7.25	5.87	
A	30 C24-C36	8.068	(6.720-9.417)		43709002	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		43709002	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		43066237	500.0	500.6	
A	33 C24-C40	8.562	(6.790-10.333)		55613746	NC	NC	
A	35 C28-C40	8.953	(7.637-10.270)		46711980	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 23-Oct-2024 16:55:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a055.D

Injection Date: 22-Oct-2024 20:31:21 Instrument ID: TAC129_R

Lims ID: LCS 580-475429/2-A

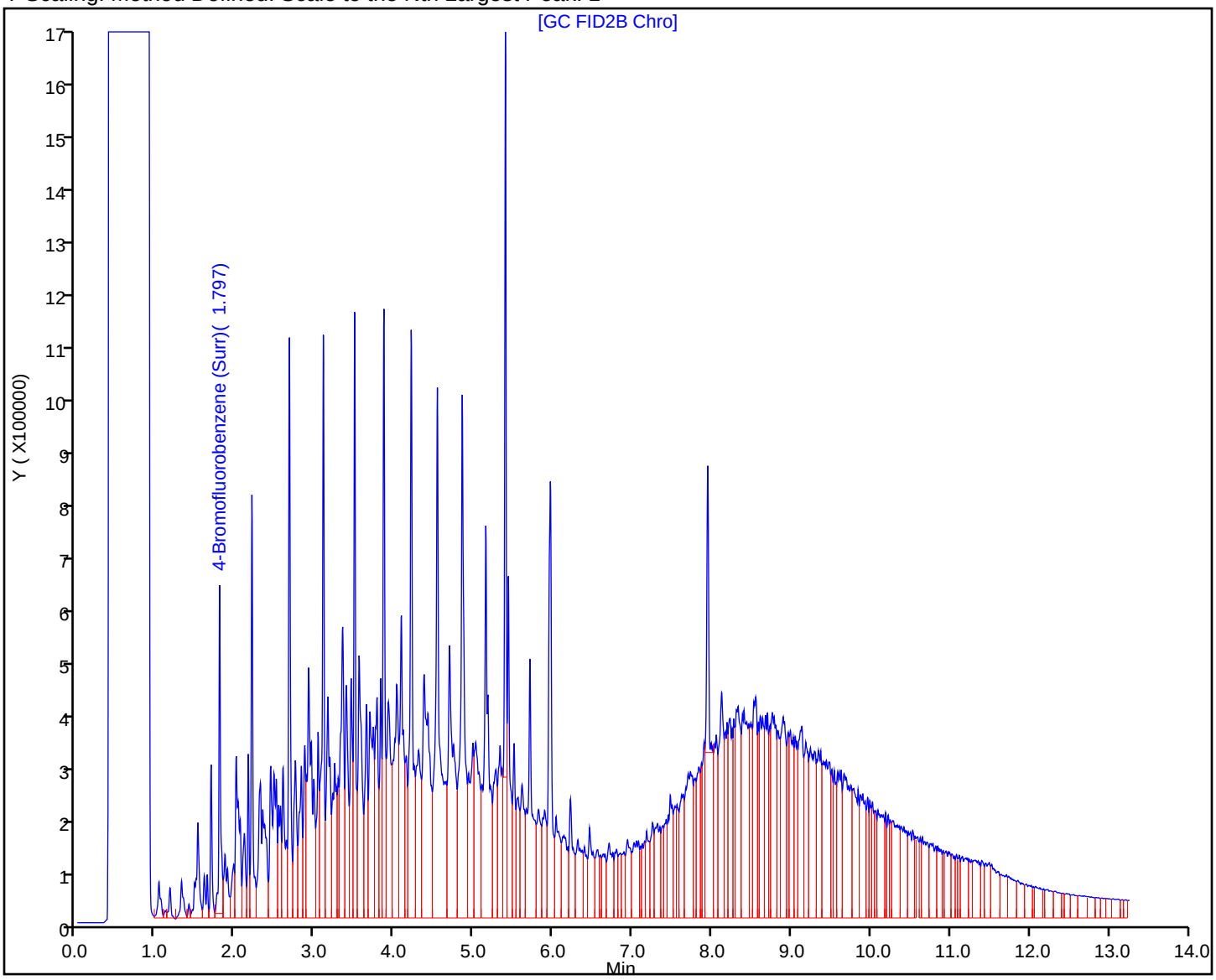
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a055.D
Lims ID: LCS 580-475429/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Oct-2024 20:31:21 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 580-475429/2-A
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:49:41

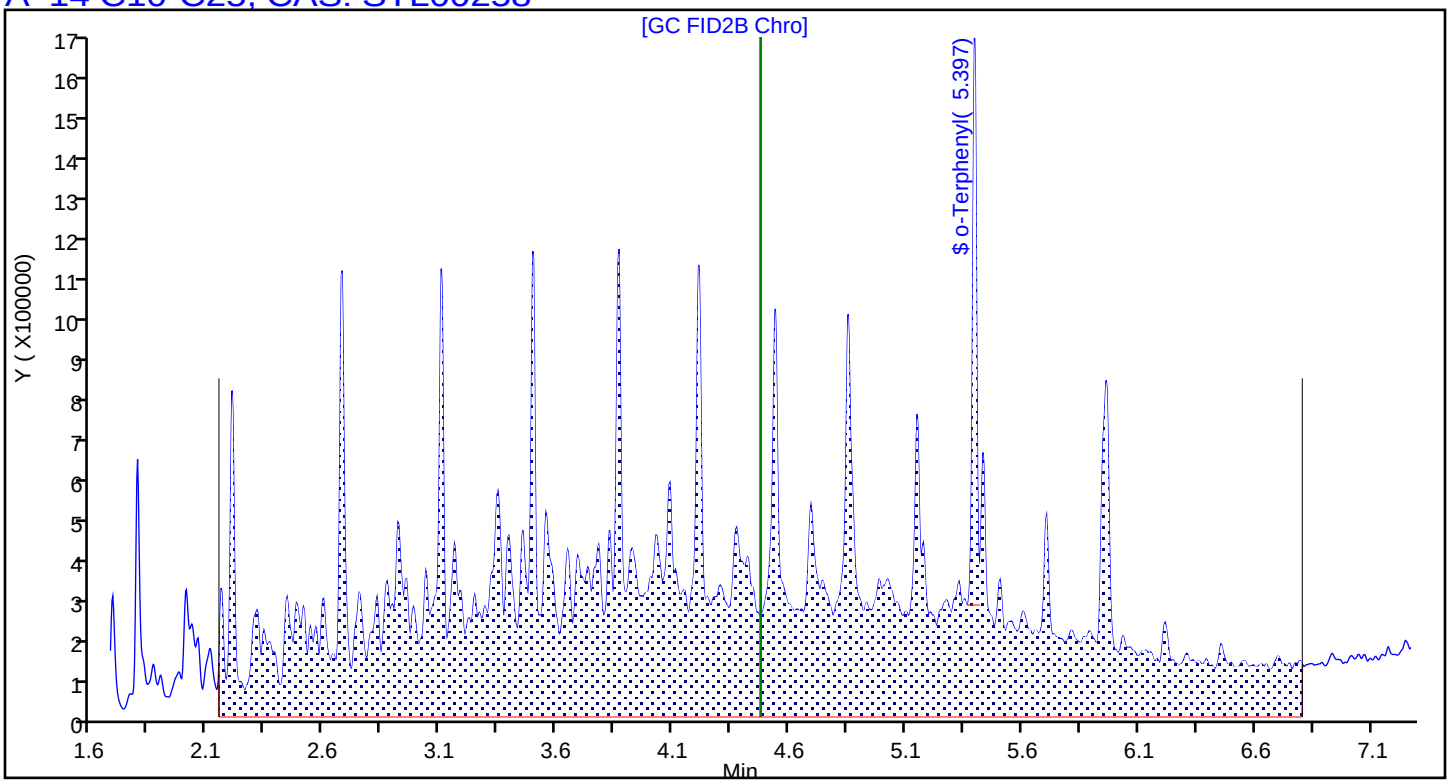
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	10.1	97.14
E 28 n-Triacontane-d62	7.25	5.87	80.97

Report Date: 23-Oct-2024 16:55:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a055.D				
Injection Date:	22-Oct-2024 20:31:21	Instrument ID:	TAC129_R		
Lims ID:	LCS 580-475429/2-A				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: | Lab Sample ID: LCS 580-475429/2-B

Matrix: Solid | Lab File ID: 10222024a088.D

Analysis Method: AK102/103 | Date Collected:

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10(g) | Date Analyzed: 10/23/2024 01:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ID:

% Moisture: % Solids: | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	523		20	15	8.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		60-120
93952-07-9	n-Triacontane-d62	86		60-120

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a088.D
Lims ID: LCS 580-475429/2-B
Client ID:
Sample Type: LCS
Inject. Date: 23-Oct-2024 01:51:16 ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 580-475429/2-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:14

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	837819	NC	NC	
A	10 C9-C25	4.160	(1.533-6.787)		88954833	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		84252659	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		85003773	500.0	523.4	
A	14 C12-C24	4.742	(2.897-6.587)		71106515	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		94131499	NC	NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1599579	10.4	9.93	
A	25 C24-C32	7.490	(6.587-8.393)		29327533	NC	NC	
E	26 n-Triacontane-d62	7.773	7.777	-0.004	843780	7.25	6.21	
A	27 C24-C36	7.905	(6.587-9.223)		47618077	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		47618077	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		46866963	500.0	527.3	
A	31 C24-C40	8.392	(6.657-10.127)		60401547	NC	NC	
A	33 C28-C40	8.778	(7.493-10.063)		50377679	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 23-Oct-2024 14:57:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a088.D

Injection Date: 23-Oct-2024 01:51:16 Instrument ID: TAC129

Lims ID: LCS 580-475429/2-B

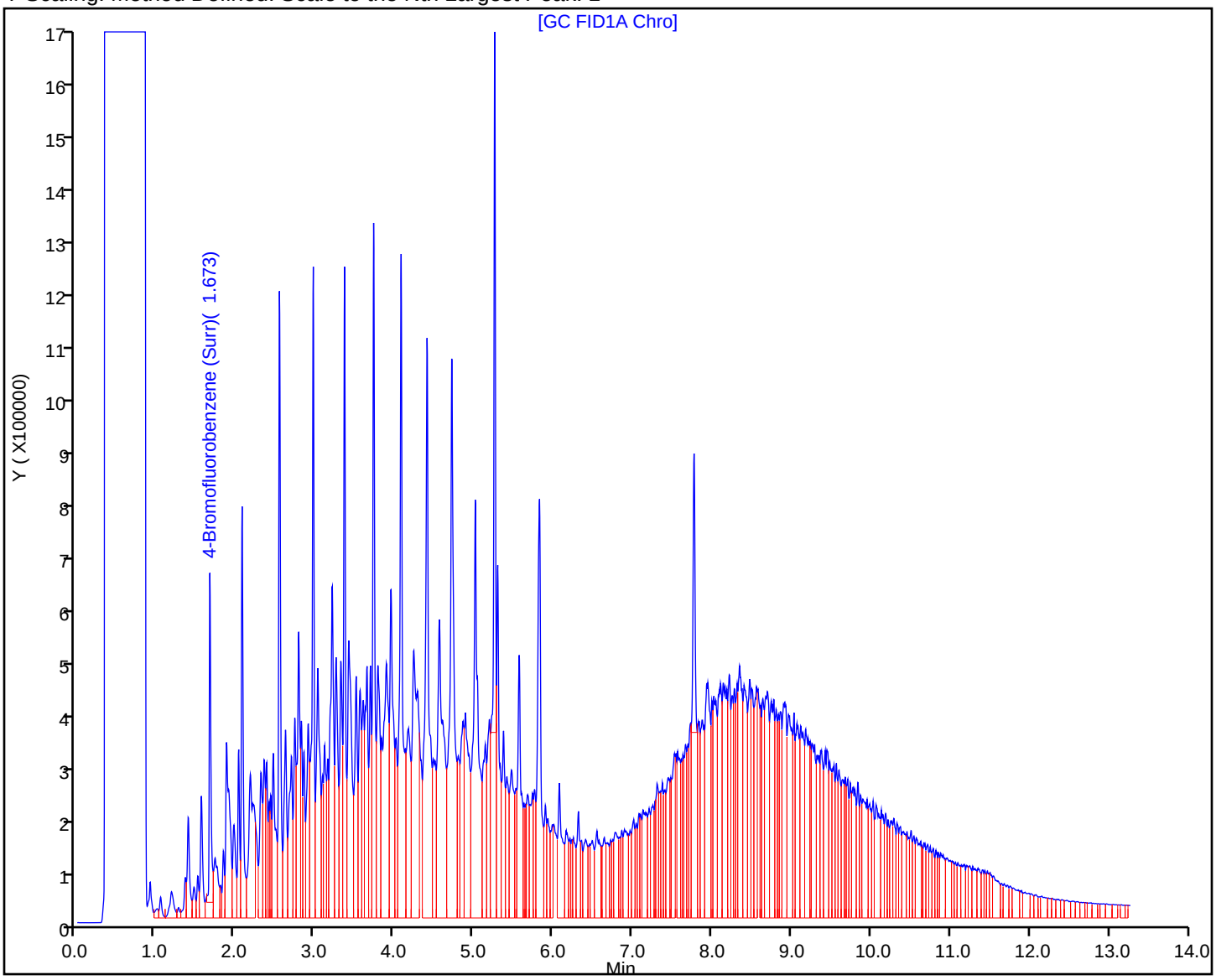
Client ID:

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 43

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a088.D
Lims ID: LCS 580-475429/2-B
Client ID:
Sample Type: LCS
Inject. Date: 23-Oct-2024 01:51:16 ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 580-475429/2-B
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:14

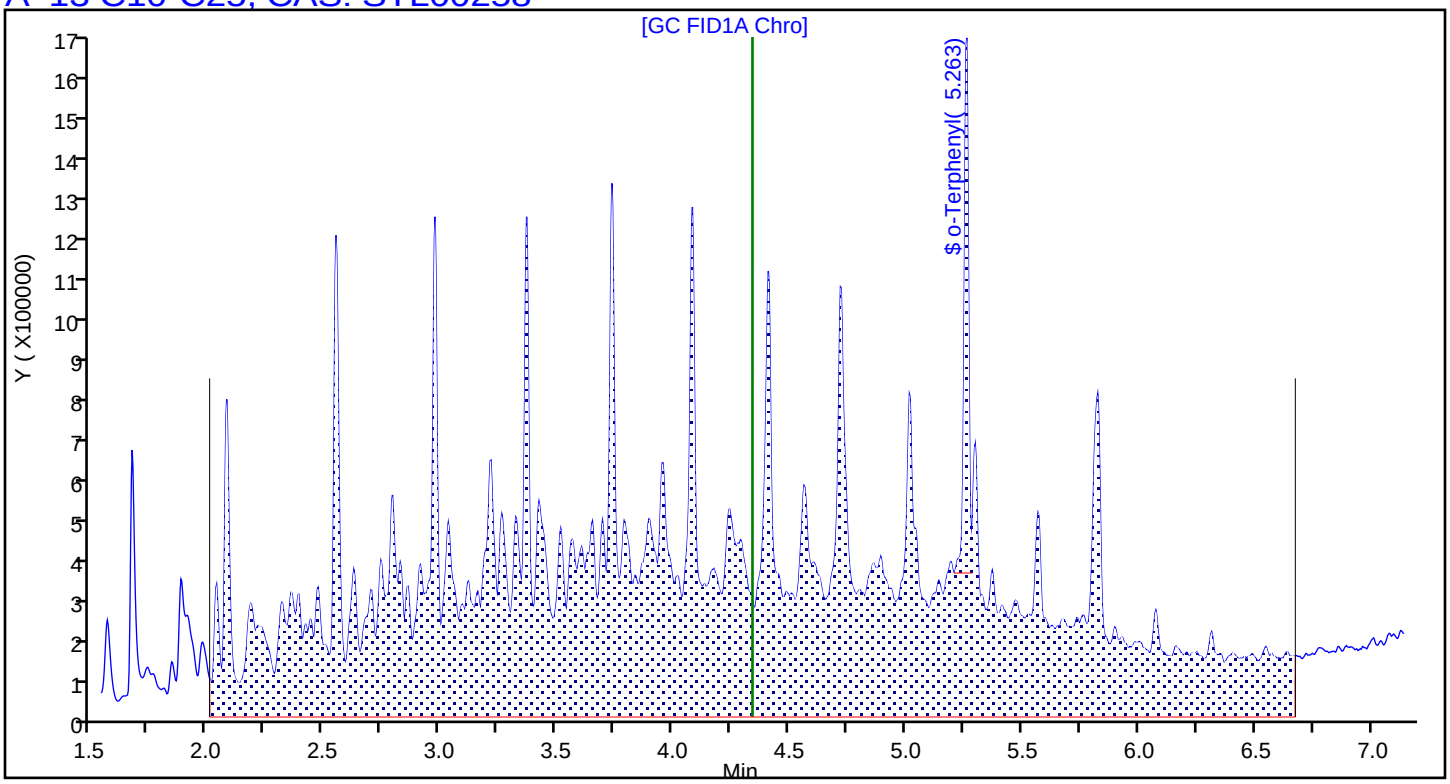
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.93	95.53
E 26 n-Triacontane-d62	7.25	6.21	85.62

Report Date: 23-Oct-2024 14:57:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a088.D				
Injection Date:	23-Oct-2024 01:51:16	Instrument ID:	TAC129		
Lims ID:	LCS 580-475429/2-B				
Client ID:					
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 MS | Lab Sample ID: 580-144975-10 MS

Matrix: Solid | Lab File ID: 10222024a059.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.09(g) | Date Analyzed: 10/22/2024 21:11

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	907		31	24	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80	M	50-150
93952-07-9	n-Triacontane-d62	72	M	50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D
Lims ID: 580-144975-A-10-B MS
Client ID: RIR24SS227BKG01.5
Sample Type: MS
Inject. Date: 22-Oct-2024 21:11:23 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-B MS
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:28

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.030	1.063	-0.033	189759		NC	
	2 n-Nonane	1.690	1.703	-0.013	393912		NC	
	3 4-Bromofluorobenzene (Surr)	1.800	1.800	0.000	774104	NC	NC	
	4 n-Decane	2.207	2.210	-0.003	1070788		NC	
A	5 Jet fuel	2.772	(0.980-4.563)		49725317		NC	
	6 Dodecane	3.103	3.100	0.003	1731625		NC	
A	8 C8-C20	3.373	(0.980-5.767)		75477267		NC	
	9 C13	3.497	3.493	0.004	1549982		NC	
	10 n-Tetradecane	3.863	3.860	0.003	1956109		NC	
$	7 n-Decanoic Acid (Surr)	4.030	4.037	-0.007	2020284		NC	
	11 C15	4.210	4.207	0.003	2513943		NC	
A	12 C9-C25	4.298	(1.673-6.923)		94675721	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		88591720	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		90027886	500.0	576.7	
	15 Hexadecane	4.540	4.533	0.007	3181339		NC	
A	16 C12-C24	4.863	(3.007-6.720)		77058001	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		110461343	NC	NC	
	18 n-Octadecane	5.150	5.143	0.007	2417307		NC	
$	19 o-Terphenyl	5.397	5.397	0.000	1297636	10.4	8.37	M
	20 C19	5.507	5.427	0.080	893606		NC	
	21 icosane	5.707	5.700	0.007	1537221		NC	
A	22 Mineral oil	6.002	(3.007-8.997)		146304906		NC	
	23 n-Tetracosane	6.703	6.690	0.013	950043		NC	
	24 C25	6.917	6.923	-0.006	1796613		NC	
	25 n-Hexacosane	7.160	7.157	0.003	1183858		NC	
	26 n-Octacosane	7.570	7.607	-0.037	6248926		NC	
A	27 C24-C32	7.642	(6.720-8.563)		52749477	NC	NC	
E	28 n-Triacontane-d62	7.950	7.947	0.003	769826	7.25	5.26	a
A	30 C24-C36	8.068	(6.720-9.417)		83487602	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		83487602	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		82051436	500.0	956.0	
	32 Dotriacontane	8.430	8.460	-0.030	2917486		NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 33 C24-C40	8.562	(6.790-10.333)		102808052	NC	NC	
34 Tetratriacontane	8.867	8.893	-0.026	3081726		NC	
A 35 C28-C40	8.953	(7.637-10.270)		80973194	NC	NC	
36 n-Hexatriacontane	9.357	9.327	0.030	5737772		NC	
37 C38	9.753	9.760	-0.007	2989918		NC	
38 C40	10.183	10.183	0.000	447514		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Report Date: 23-Oct-2024 16:55:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D

Injection Date: 22-Oct-2024 21:11:23 Instrument ID: TAC129_R

Lims ID: 580-144975-A-10-B MS

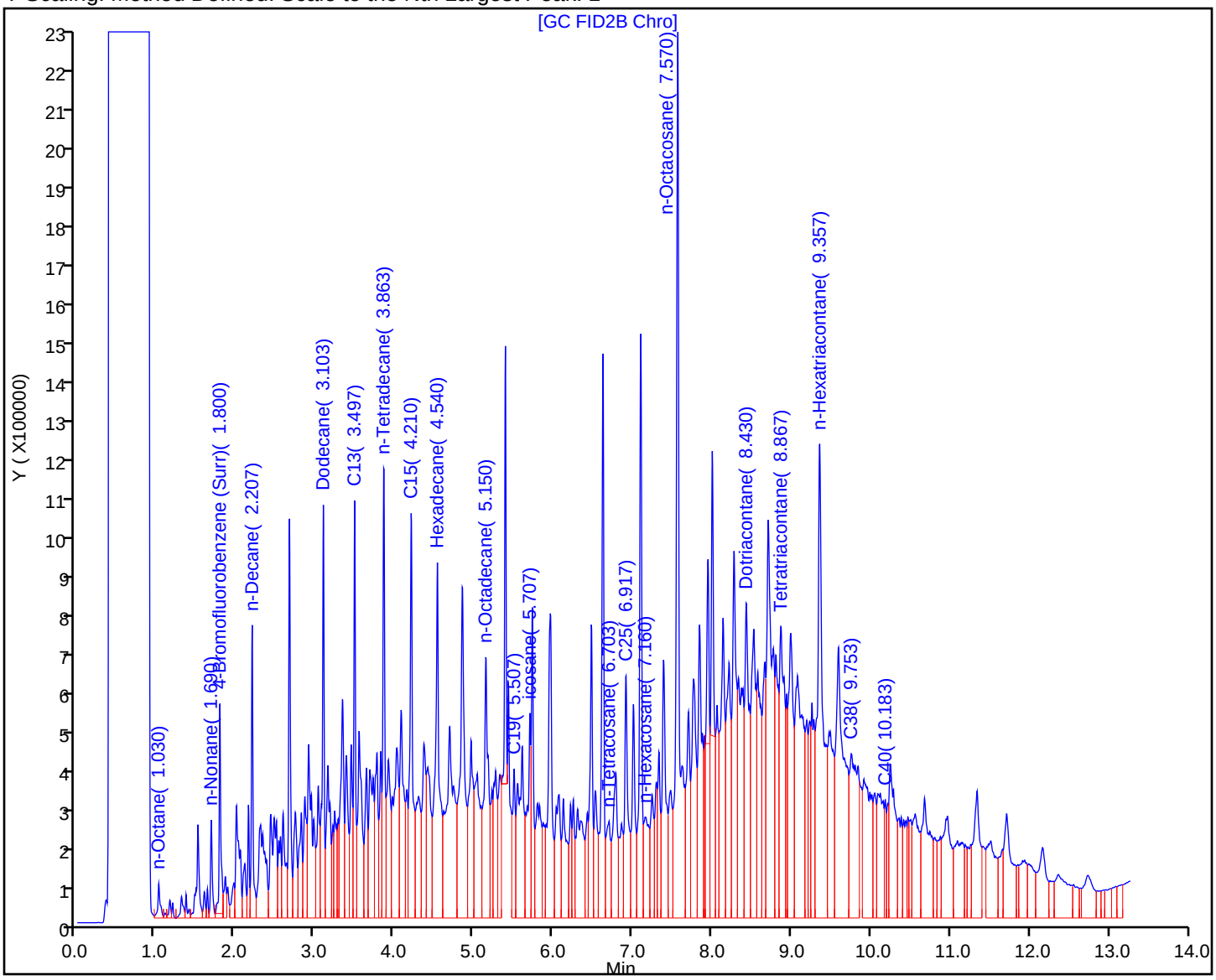
Client ID: RIR24SS227BKG01.5

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D
Lims ID: 580-144975-A-10-B MS
Client ID: RIR24SS227BKG01.5
Sample Type: MS
Inject. Date: 22-Oct-2024 21:11:23 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-B MS
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:28

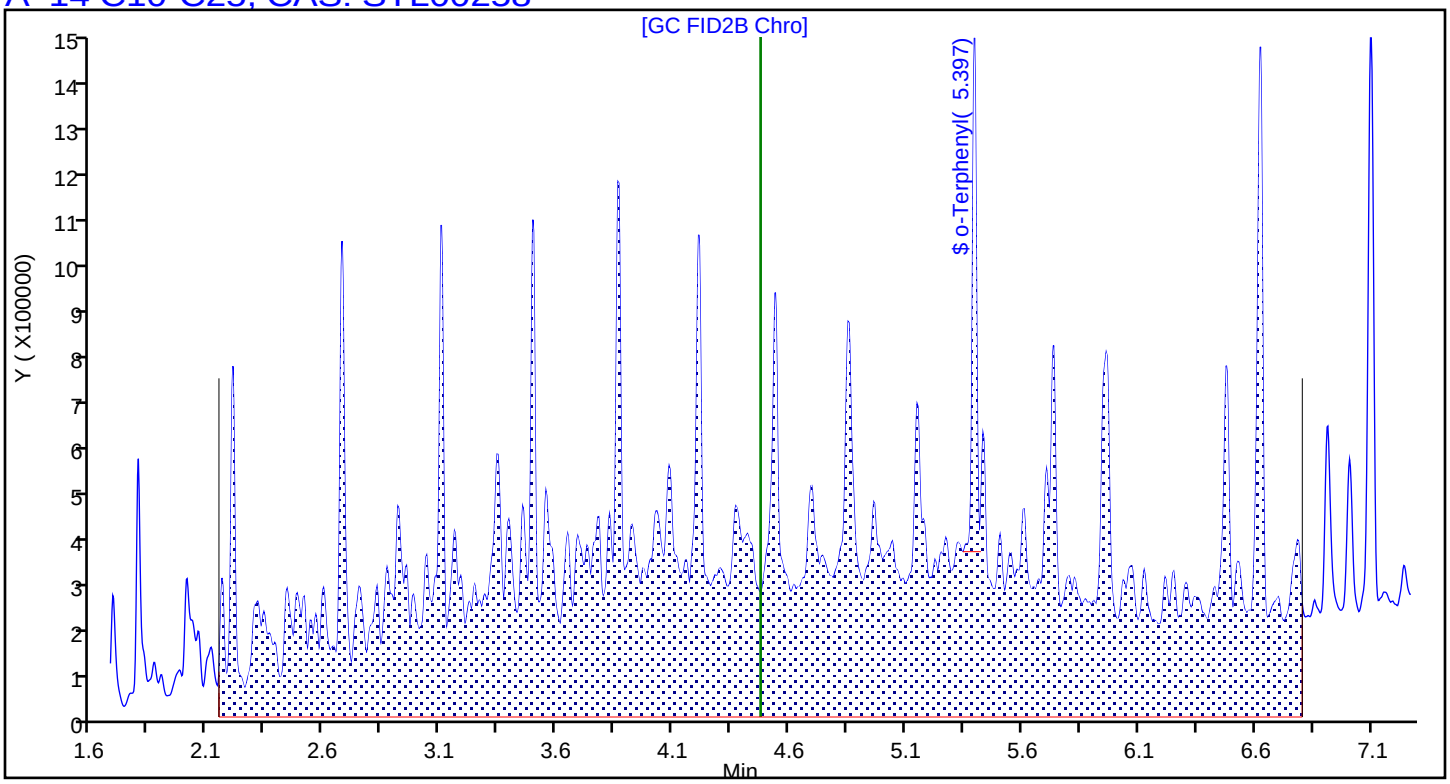
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	8.37	80.44
E 28 n-Triacontane-d62	7.25	5.26	72.50

Report Date: 23-Oct-2024 16:55:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D				
Injection Date:	22-Oct-2024 21:11:23	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-B MS				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Eurofins Seattle

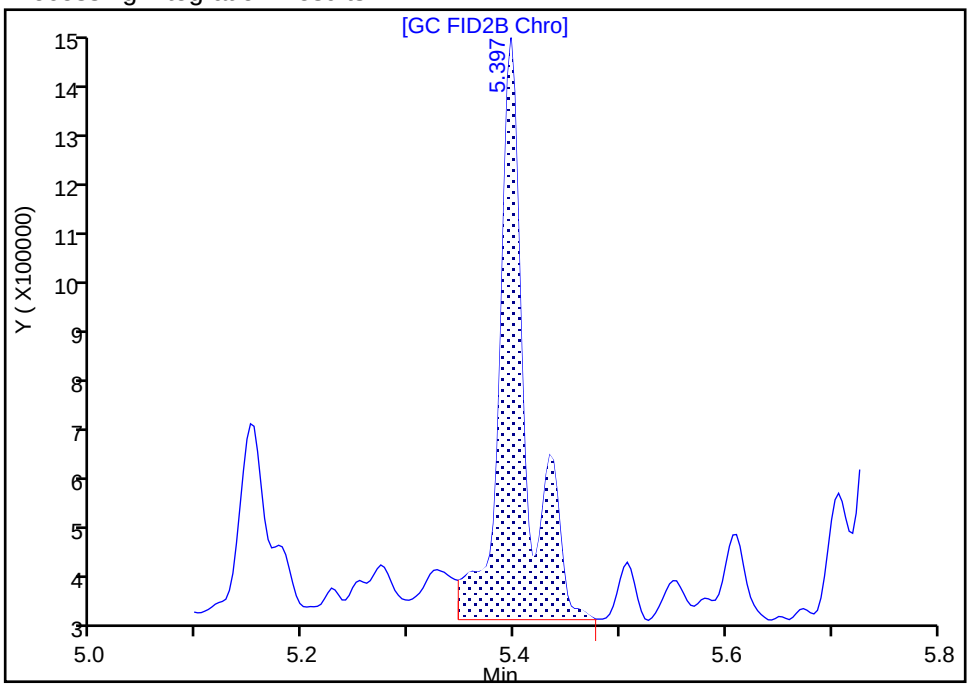
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D				
Injection Date:	22-Oct-2024 21:11:23	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-B MS				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

$ 19 o-Terphenyl, CAS: 84-15-1

Signal: 1

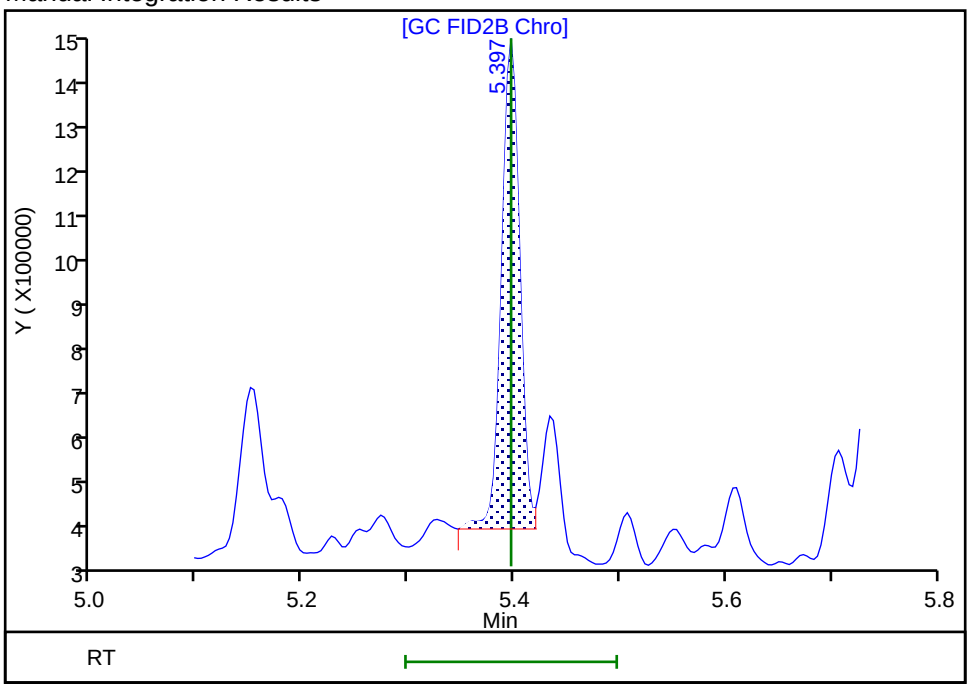
Processing Integration Results

RT: 5.40
Area: 2051273
Amount: 13.224248
Amount Units: ng/uL



Manual Integration Results

RT: 5.40
Area: 1297636
Amount: 8.365664
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:51:14 -07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins Seattle

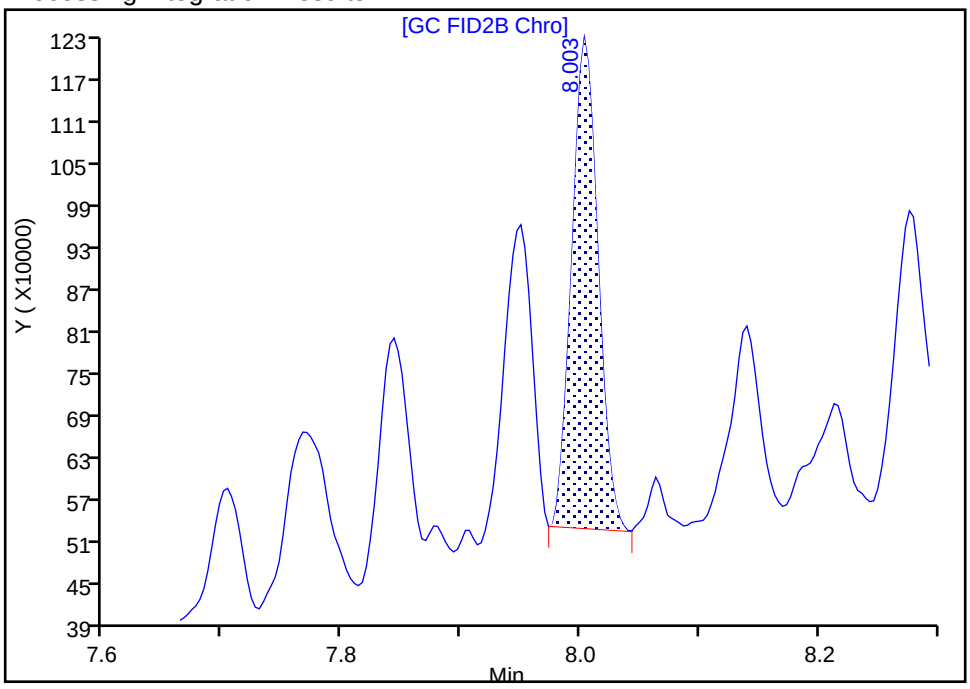
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a059.D				
Injection Date:	22-Oct-2024 21:11:23	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-B MS				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

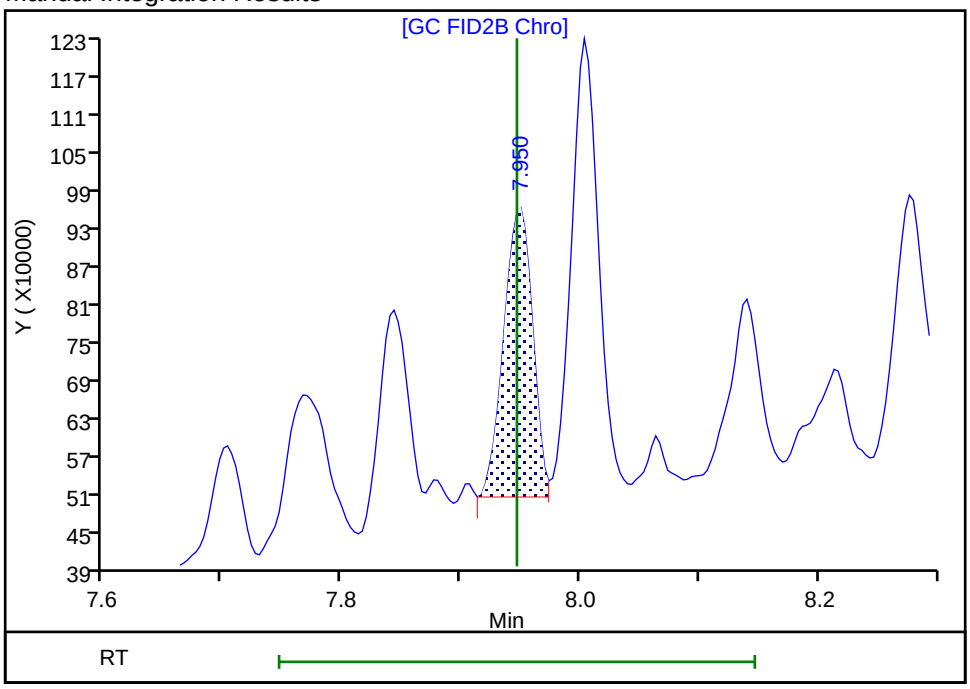
Processing Integration Results

RT: 8.00
Area: 1077092
Amount: 7.353783
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 769826
Amount: 5.255942
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:51:24 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 MS | Lab Sample ID: 580-144975-10 MS

Matrix: Solid | Lab File ID: 10222024a092.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.09(g) | Date Analyzed: 10/23/2024 02:30

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	818		31	24	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		50-150
93952-07-9	n-Triacontane-d62	138		50-150

Report Date: 23-Oct-2024 14:57:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a092.D
Lims ID: 580-144975-A-10-E MS
Client ID: RIR24SS227BKG01.5
Sample Type: MS
Inject. Date: 23-Oct-2024 02:30:56 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-E MS
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:30

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.040	1.053	-0.013	81894		NC	
	2 n-Nonane	1.560	1.563	-0.003	372186		NC	
	39 4-Bromofluorobenzene (Surr)	1.670	1.673	-0.003	768010	NC	NC	
	3 n-Decane	2.077	2.080	-0.003	1116628		NC	
A	5 Jet fuel	2.693	(0.943-4.443)		52036409		NC	
	4 Dodecane	2.977	2.980	-0.003	2001286		NC	
A	7 C8-C20	3.292	(0.943-5.640)		75980285		NC	
	6 C13	3.370	3.373	-0.003	1737207		NC	
	8 n-Tetradecane	3.737	3.740	-0.003	2093122		NC	
	9 C15	4.083	4.087	-0.004	2618743		NC	
A	10 C9-C25	4.160	(1.533-6.787)		88306888	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		83474307	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		84464987	500.0	520.1	
	11 Hexadecane	4.410	4.413	-0.003	3426666		NC	
A	14 C12-C24	4.742	(2.897-6.587)		71013557	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		97379763	NC	NC	
	16 n-Octadecane	5.020	5.023	-0.003	2980200		NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1450531	10.4	9.01	
	18 C19	5.300	5.303	-0.003	1441862		NC	
	19 icosane	5.570	5.573	-0.003	2075315		NC	
A	20 Mineral oil	5.855	(2.897-8.813)		120961596		NC	
	21 n-Tetracosane	6.550	6.557	-0.007	586849		NC	
	22 C25	6.783	6.787	-0.004	458018		NC	
	23 n-Hexacosane	7.003	7.017	-0.014	615504		NC	
	24 n-Octacosane	7.440	7.463	-0.023	791779		NC	
A	25 C24-C32	7.490	(6.587-8.393)		37759768	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	1358654	7.25	10.0	
A	27 C24-C36	7.905	(6.587-9.223)		59429169	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		59429169	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		58438490	500.0	658.6	
	30 Dotriacontane	8.320	8.297	0.023	1918303		NC	
A	31 C24-C40	8.392	(6.657-10.127)		73209516	NC	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
32 Tetratriacontane	8.717	8.713	0.004	1182048		NC	
A 33 C28-C40	8.778	(7.493-10.063)		59338801	NC	NC	
34 n-Hexatriacontane	9.123	9.140	-0.017	1926149		NC	
35 C38	9.567	9.560	0.007	579550		NC	
36 C40	9.970	9.977	-0.007	420344		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 23-Oct-2024 14:57:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a092.D

Injection Date: 23-Oct-2024 02:30:56 Instrument ID: TAC129

Lims ID: 580-144975-A-10-E MS

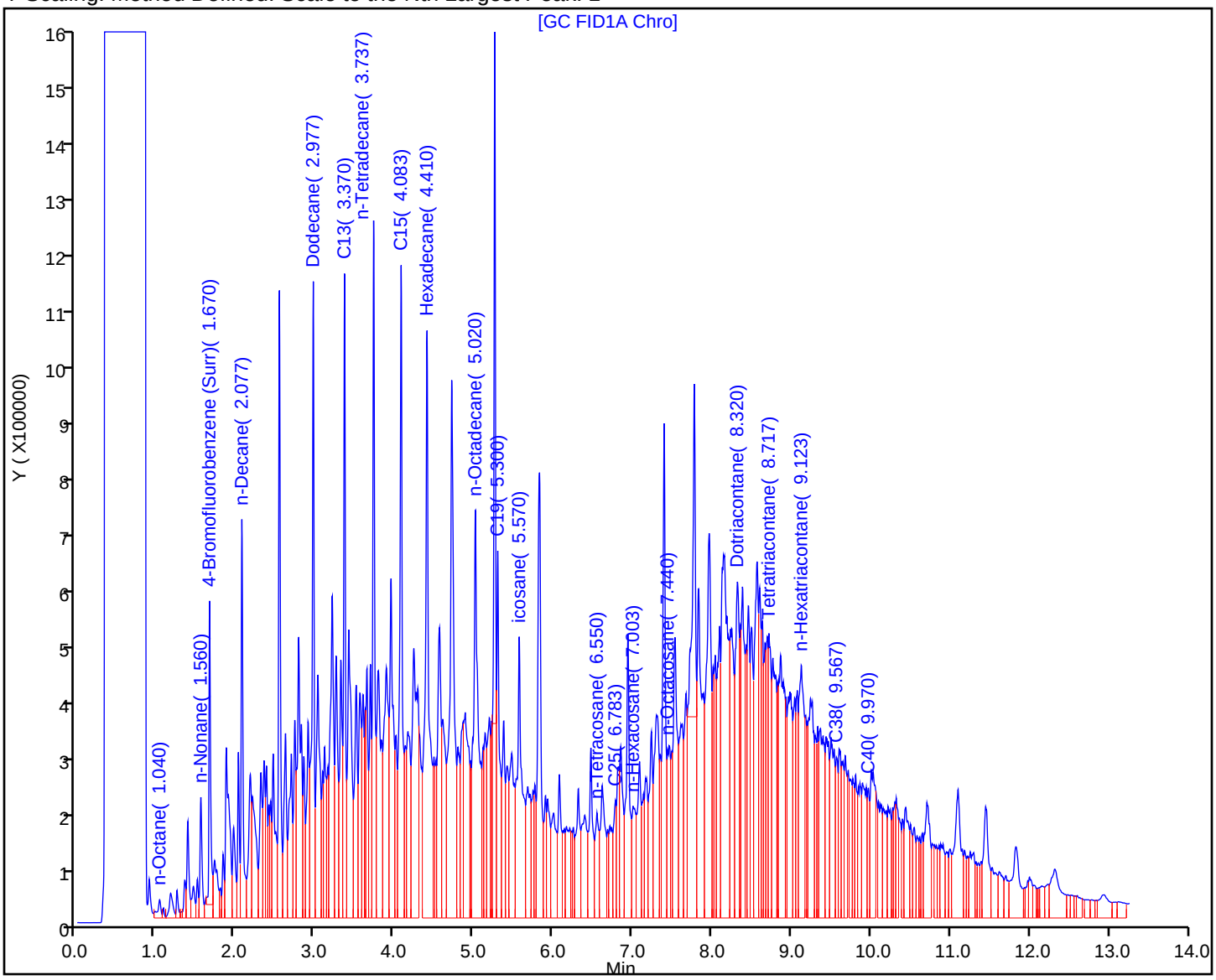
Client ID: RIR24SS227BKG01.5

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 45

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a092.D
Lims ID: 580-144975-A-10-E MS
Client ID: RIR24SS227BKG01.5
Sample Type: MS
Inject. Date: 23-Oct-2024 02:30:56 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-E MS
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:30

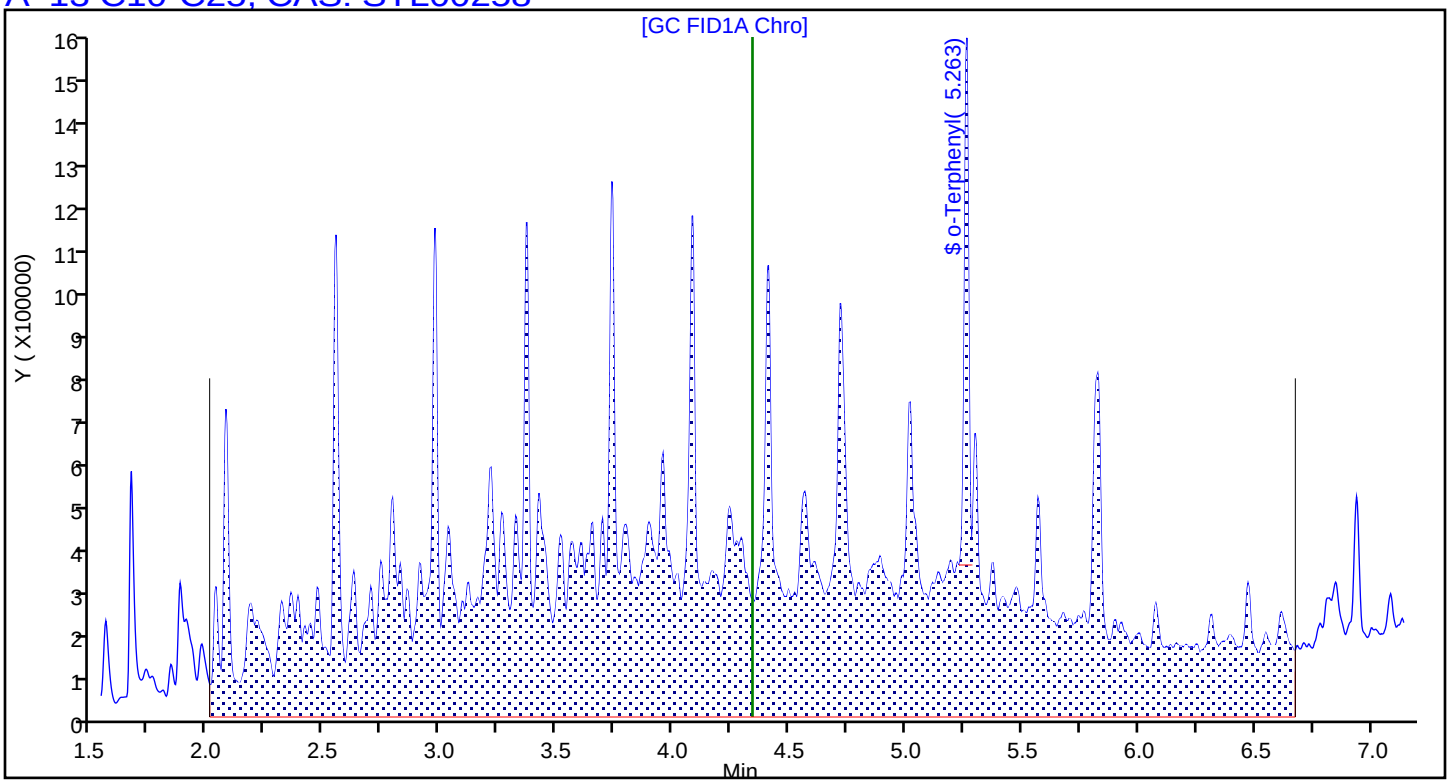
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.01	86.63
E 26 n-Triacontane-d62	7.25	10.0	137.86

Report Date: 23-Oct-2024 14:57:07 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a092.D				
Injection Date:	23-Oct-2024 02:30:56	Instrument ID:	TAC129		
Lims ID:	580-144975-A-10-E MS				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 MSD | Lab Sample ID: 580-144975-10 MSD

Matrix: Solid | Lab File ID: 10222024a061.D

Analysis Method: AK102 & 103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.76(g) | Date Analyzed: 10/22/2024 21:31

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475534 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129_R

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	922		30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		50-150
93952-07-9	n-Triacontane-d62	69	M	50-150

Report Date: 23-Oct-2024 16:55:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a061.D
Lims ID: 580-144975-A-10-C MSD
Client ID: RIR24SS227BKG01.5
Sample Type: MSD
Inject. Date: 22-Oct-2024 21:31:20 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-C MSD
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:41

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.023	1.063	-0.040	235024		NC	
	2 n-Nonane	1.690	1.703	-0.013	448412		NC	
	3 4-Bromofluorobenzene (Surr)	1.797	1.800	-0.003	810586	NC	NC	
	4 n-Decane	2.207	2.210	-0.003	1152814		NC	
A	5 Jet fuel	2.772	(0.980-4.563)		52361559		NC	
	6 Dodecane	3.103	3.100	0.003	1800453		NC	
A	8 C8-C20	3.373	(0.980-5.767)		80184306		NC	
	9 C13	3.497	3.493	0.004	1605811		NC	
	10 n-Tetradecane	3.863	3.860	0.003	2133636		NC	
$	7 n-Decanoic Acid (Surr)	4.037	4.037	0.000	1764850		NC	
	11 C15	4.210	4.207	0.003	2372410		NC	
A	12 C9-C25	4.298	(1.673-6.923)		102800851	NC	NC	
A	13 C10-C24	4.433	(2.147-6.720)		95962874	NC	NC	
A	14 C10-C25	4.477	(2.147-6.807)		97507119	500.0	624.8	
	15 Hexadecane	4.540	4.533	0.007	3398132		NC	
A	16 C12-C24	4.863	(3.007-6.720)		83878469	NC	NC	
A	17 C10-C28	4.892	(2.147-7.637)		123185333	NC	NC	
	18 n-Octadecane	5.150	5.143	0.007	2378103		NC	
$	19 o-Terphenyl	5.397	5.397	0.000	1325017	10.4	8.54	
	20 C19	5.433	5.427	0.006	1558866		NC	
	21 icosane	5.667	5.700	-0.033	648025		NC	
A	22 Mineral oil	6.002	(3.007-8.997)		164860561		NC	
	23 n-Tetracosane	6.693	6.690	0.003	1031781		NC	
	24 C25	6.913	6.923	-0.010	2365056		NC	
	25 n-Hexacosane	7.160	7.157	0.003	1311033		NC	
	26 n-Octacosane	7.577	7.607	-0.030	8203265		NC	
A	27 C24-C32	7.642	(6.720-8.563)		62078022	NC	NC	
E	28 n-Triacontane-d62	7.950	7.947	0.003	728941	7.25	4.98	a
A	30 C24-C36	8.068	(6.720-9.417)		96255229	NC	NC	
A	29 Motor Oil	8.068	(6.720-9.417)		96255229	NC	NC	
E	31 C25-C36	8.112	(6.807-9.417)		94710984	500.0	1103.8	
	32 Dotriacontane	8.443	8.460	-0.017	3262766		NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 33 C24-C40	8.562	(6.790-10.333)		117647011	NC	NC	
34 Tetratriacontane	8.873	8.893	-0.020	3944969		NC	
A 35 C28-C40	8.953	(7.637-10.270)		90328925	NC	NC	
36 n-Hexatriacontane	9.357	9.327	0.030	5113963		NC	
37 C38	9.763	9.760	0.003	2387918		NC	
38 C40	10.167	10.183	-0.016	948748		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Report Date: 23-Oct-2024 16:55:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a061.D

Injection Date: 22-Oct-2024 21:31:20 Instrument ID: TAC129_R

Lims ID: 580-144975-A-10-C MSD

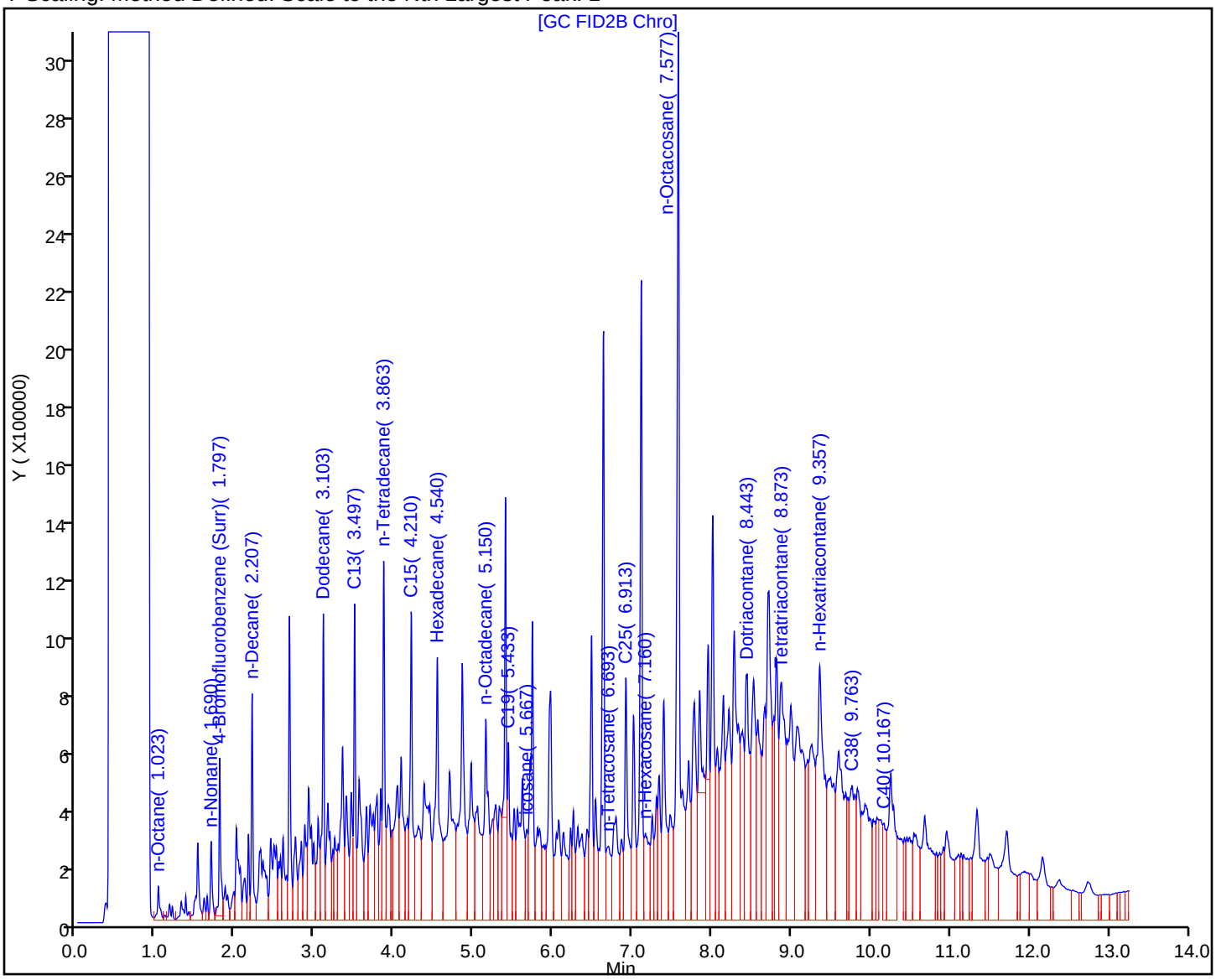
Client ID: RIR24SS227BKG01.5

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 27

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a061.D
Lims ID: 580-144975-A-10-C MSD
Client ID: RIR24SS227BKG01.5
Sample Type: MSD
Inject. Date: 22-Oct-2024 21:31:20 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-C MSD
Operator ID: SW Instrument ID: TAC129_R

Method: \\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\TPH-TAC129Rear.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 16:55:05 Calib Date: 20-Sep-2024 17:59:07
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129_R\20240920-96134.b\09202024a033.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 16:51:41

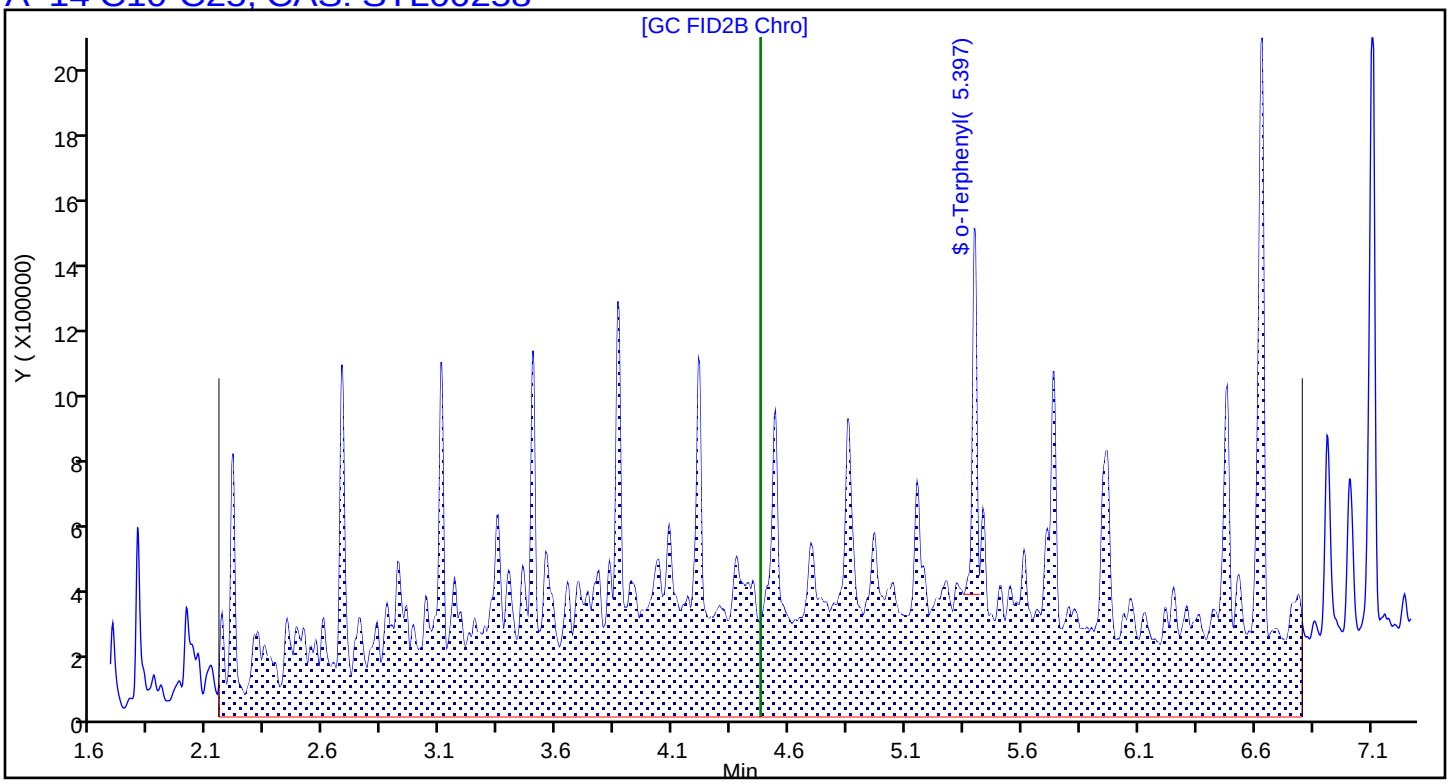
Compound	Amount Added	Amount Recovered	% Rec.
$ 19 o-Terphenyl	10.4	8.54	82.14
E 28 n-Triacontane-d62	7.25	4.98	68.65

Report Date: 23-Oct-2024 16:55:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a061.D				
Injection Date:	22-Oct-2024 21:31:20	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-C MSD				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_14 C10-C25, CAS: STL00258



Manual Integration/User Assign Peak Report

Eurofins Seattle

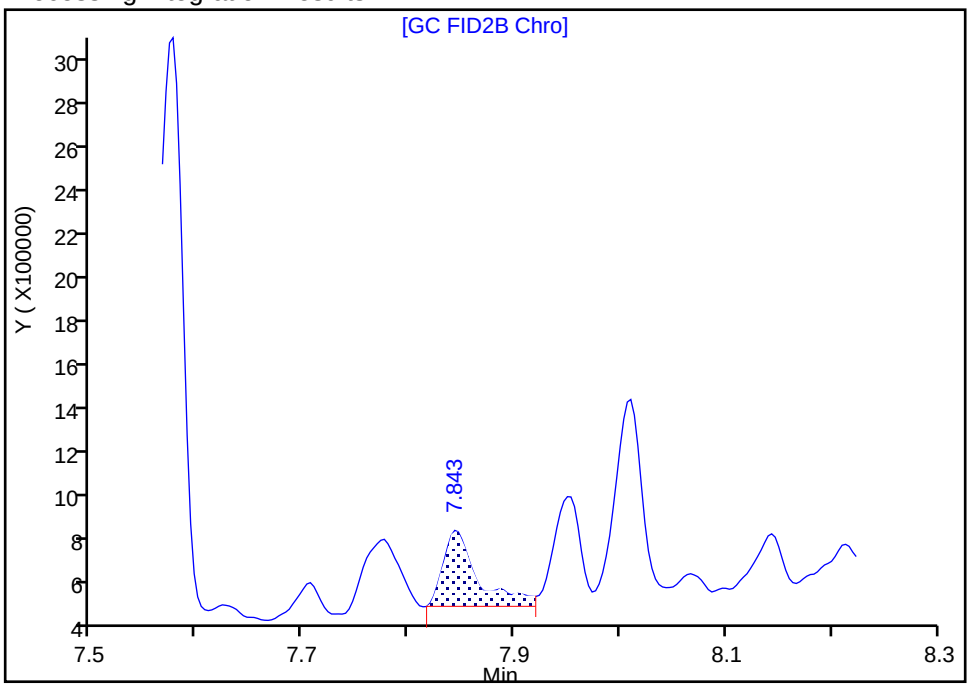
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a061.D				
Injection Date:	22-Oct-2024 21:31:20	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-10-C MSD				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

E 28 n-Triacontane-d62, CAS: 93952-07-9

Signal: 1

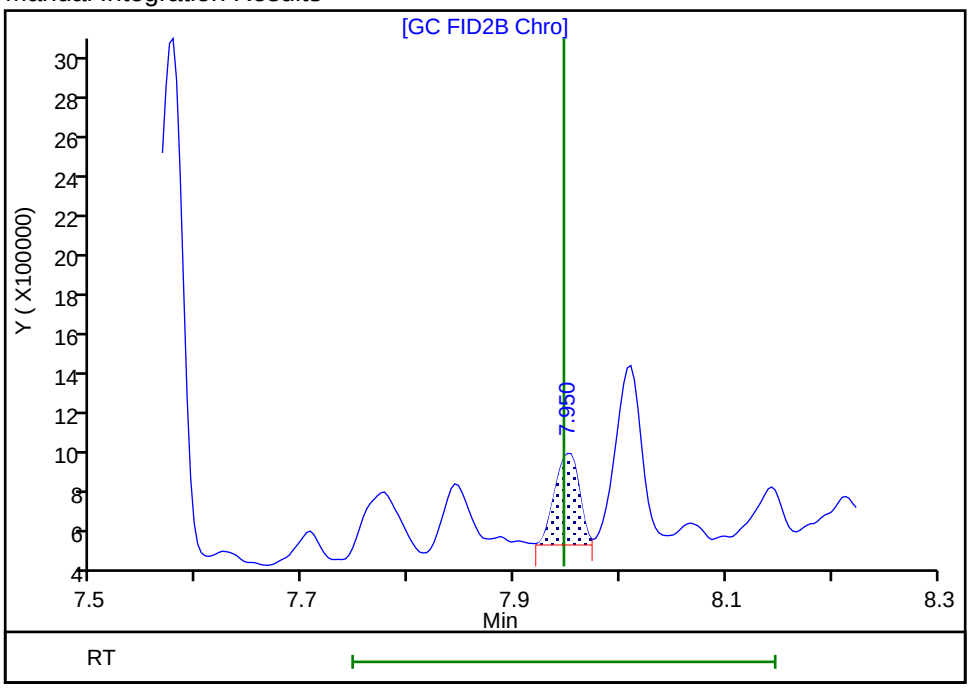
Processing Integration Results

RT: 7.84
Area: 798928
Amount: 5.454635
Amount Units: ng/uL



Manual Integration Results

RT: 7.95
Area: 728941
Amount: 4.976802
Amount Units: ng/uL



Reviewer: S6XW, 23-Oct-2024 16:51:37 -07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Wrong Peak

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Seattle | Job No.: 580-144975-1

SDG No.: SP9 & Background

Client Sample ID: RIR24SS227BKG01.5 MSD | Lab Sample ID: 580-144975-10 MSD

Matrix: Solid | Lab File ID: 10222024a094.D

Analysis Method: AK102/103 | Date Collected: 10/17/2024 13:30

Extraction Method: 3546 | Date Extracted: 10/21/2024 12:59

Sample wt/vol: 10.76(g) | Date Analyzed: 10/23/2024 02:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: | ID:

% Moisture: 37.0 % Solids: 63.0 | GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 475531 | Units: mg/Kg

Preparation Batch No.: 475429 | Instrument ID: TAC129

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
STL00258	DRO (nC10-<nC25)	774		30	22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		50-150
93952-07-9	n-Triacontane-d62	138		50-150

Eurofins Seattle
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a094.D
Lims ID: 580-144975-A-10-F MSD
Client ID: RIR24SS227BKG01.5
Sample Type: MSD
Inject. Date: 23-Oct-2024 02:51:06 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-F MSD
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:36

	Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
	1 n-Octane	1.047	1.053	-0.006	86457		NC	
	2 n-Nonane	1.563	1.563	0.000	398538		NC	
	39 4-Bromofluorobenzene (Surr)	1.673	1.673	0.000	777274	NC	NC	
	3 n-Decane	2.077	2.080	-0.003	1178521		NC	
A	5 Jet fuel	2.693	(0.943-4.443)		53013753		NC	
	4 Dodecane	2.977	2.980	-0.003	2022369		NC	
A	7 C8-C20	3.292	(0.943-5.640)		77089027		NC	
	6 C13	3.370	3.373	-0.003	1758109		NC	
	8 n-Tetradecane	3.740	3.740	0.000	2128655		NC	
	9 C15	4.083	4.087	-0.004	2592620		NC	
A	10 C9-C25	4.160	(1.533-6.787)		89180134	NC	NC	
A	12 C10-C24	4.297	(2.007-6.587)		84257317	NC	NC	
A	13 C10-C25	4.342	(2.007-6.677)		85223366	500.0	524.8	
	11 Hexadecane	4.410	4.413	-0.003	3466925		NC	
A	14 C12-C24	4.742	(2.897-6.587)		71546984	NC	NC	
A	15 C10-C28	4.750	(2.007-7.493)		96787389	NC	NC	
	16 n-Octadecane	5.020	5.023	-0.003	2893990		NC	
$	17 o-Terphenyl	5.263	5.263	0.000	1485695	10.4	9.23	
	18 C19	5.303	5.303	0.000	1411229		NC	
	19 icosane	5.570	5.573	-0.003	1533997		NC	
A	20 Mineral oil	5.855	(2.897-8.813)		119888697		NC	
	21 n-Tetracosane	6.550	6.557	-0.007	491535		NC	
	22 C25	6.813	6.787	0.026	1010141		NC	
	23 n-Hexacosane	7.020	7.017	0.003	602598		NC	
	24 n-Octacosane	7.460	7.463	-0.003	606524		NC	
A	25 C24-C32	7.490	(6.587-8.393)		35968743	NC	NC	
E	26 n-Triacontane-d62	7.777	7.777	0.000	1363011	7.25	10.0	
A	27 C24-C36	7.905	(6.587-9.223)		57909162	NC	NC	
A	28 Motor Oil	7.905	(6.587-9.223)		57909162	NC	NC	
E	29 C25-C36	7.950	(6.677-9.223)		56943113	500.0	641.7	
	30 Dotriacontane	8.320	8.297	0.023	2263076		NC	
A	31 C24-C40	8.392	(6.657-10.127)		72001825	NC	NC	

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
32 Tetratriacontane	8.703	8.713	-0.010	1587251		NC	
A 33 C28-C40	8.778	(7.493-10.063)		59453671	NC	NC	
34 n-Hexatriacontane	9.137	9.140	-0.003	1243930		NC	
35 C38	9.580	9.560	0.020	498558		NC	
36 C40	9.967	9.977	-0.010	380653		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Report Date: 23-Oct-2024 14:57:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a094.D

Injection Date: 23-Oct-2024 02:51:06 Instrument ID: TAC129

Lims ID: 580-144975-A-10-F MSD

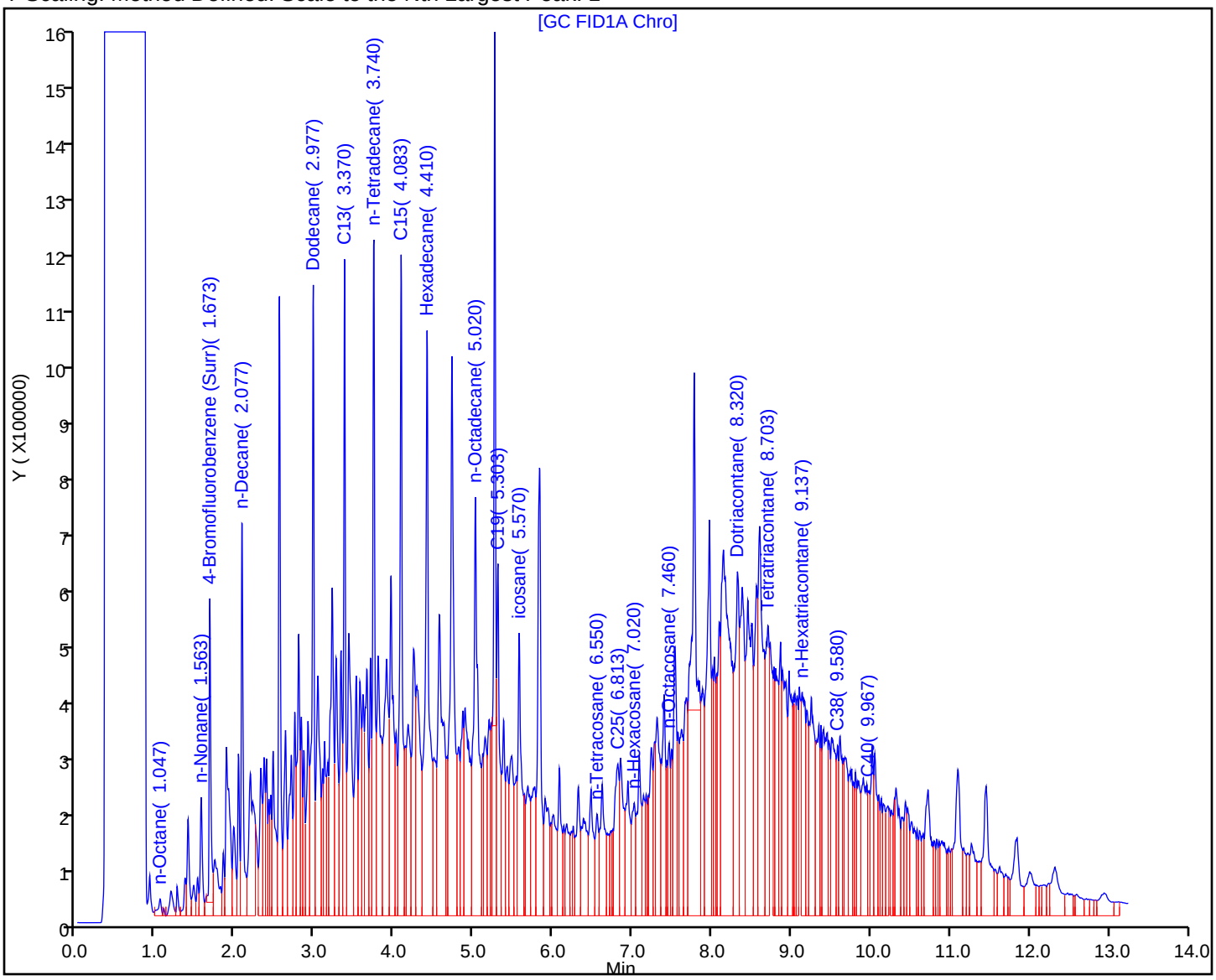
Client ID: RIR24SS227BKG01.5

Operator ID: SW ALS Bottle#: 0 Worklist Smp#: 46

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: Ak 102 DRO AK103 RRO

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a094.D
Lims ID: 580-144975-A-10-F MSD
Client ID: RIR24SS227BKG01.5
Sample Type: MSD
Inject. Date: 23-Oct-2024 02:51:06 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 580-144975-A-10-F MSD
Operator ID: SW Instrument ID: TAC129

Method: \\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\TPH-TAC129Front.m
Limit Group: Ak 102 DRO AK103 RRO
Last Update: 23-Oct-2024 14:56:56 Calib Date: 23-Sep-2024 13:06:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Seattle\ChromData\TAC129\20240923-96181.b\09232024a026.D

Column 1 : Det: GC FID1A
Process Host: CTX1611

First Level Reviewer: S6XW Date: 23-Oct-2024 14:54:36

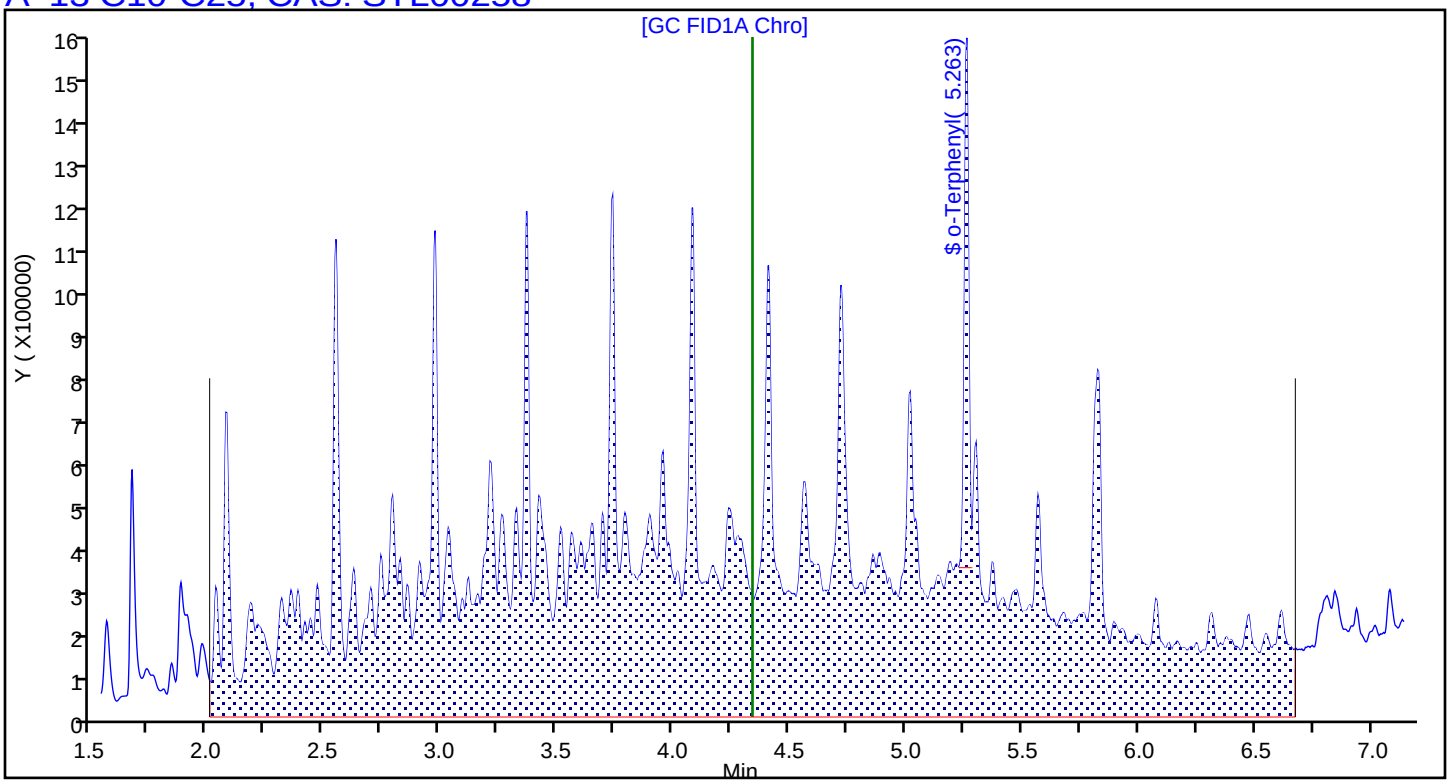
Compound	Amount Added	Amount Recovered	% Rec.
$ 17 o-Terphenyl	10.4	9.23	88.73
E 26 n-Triacontane-d62	7.25	10.0	138.31

Report Date: 23-Oct-2024 14:57:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a094.D				
Injection Date:	23-Oct-2024 02:51:06	Instrument ID:	TAC129		
Lims ID:	580-144975-A-10-F MSD				
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		
Column:		Detector	GC FID1A		

A_13 C10-C25, CAS: STL00258



DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Start Date: 09/20/2024 12:02

Analysis Batch Number: 472180 End Date: 09/20/2024 18:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-472180/2		09/20/2024 12:02	1		
IC 580-472180/3		09/20/2024 14:16	1	09202024a013.D	
IC 580-472180/4		09/20/2024 14:35	1	09202024a015.D	
IC 580-472180/5		09/20/2024 14:55	1	09202024a017.D	
IC 580-472180/6		09/20/2024 15:15	1	09202024a019.D	
IC 580-472180/7		09/20/2024 15:34	1	09202024a021.D	
IC 580-472180/8		09/20/2024 15:54	1	09202024a023.D	
ICRT 580-472180/9		09/20/2024 16:14	1	09202024a025.D	
IC 580-472180/10		09/20/2024 16:34	1	09202024a027.D	
IC 580-472180/11		09/20/2024 17:19	1	09202024a029.D	
IC 580-472180/12		09/20/2024 17:39	1	09202024a031.D	
IC 580-472180/13		09/20/2024 17:59	1	09202024a033.D	
ICV 580-472180/14		09/20/2024 18:19	1	09202024a035.D	

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129_R Start Date: 10/22/2024 11:39

Analysis Batch Number: 475534 End Date: 10/23/2024 04:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-475534/2		10/22/2024 11:39	1	10222024a003.D	
CCVRT 580-475534/3		10/22/2024 11:59	1	10222024a005.D	
ZZZZZ		10/22/2024 12:19	1		
ZZZZZ (Client)		10/22/2024 12:39	1		
ZZZZZ (Client)		10/22/2024 12:59	1		
ZZZZZ (Client)		10/22/2024 13:20	1		
ZZZZZ (Client)		10/22/2024 13:40	1		
ZZZZZ (Client)		10/22/2024 14:00	1		
ZZZZZ (Client)		10/22/2024 14:21	1		
CCV 580-475534/12		10/22/2024 14:41	1		
ZZZZZ (QC)		10/22/2024 17:10	1		
ZZZZZ (QC)		10/22/2024 17:30	1		
ZZZZZ (QC)		10/22/2024 17:50	1		
ZZZZZ (Client)		10/22/2024 18:10	1		
ZZZZZ (Client)		10/22/2024 18:31	1		
ZZZZZ (Client)		10/22/2024 18:51	1		
ZZZZZ (Client)		10/22/2024 19:11	1		
ZZZZZ (Client)		10/22/2024 19:31	1		
CCV 580-475534/22		10/22/2024 19:51	1	10222024a051.D	
MB 580-475429/1-A		10/22/2024 20:11	1	10222024a053.D	
LCS 580-475429/2-A		10/22/2024 20:31	1	10222024a055.D	
580-144975-10	RIR24SS227BKG01.5	10/22/2024 20:51	1	10222024a057.D	
580-144975-10 MS	RIR24SS227BKG01.5 MS	10/22/2024 21:11	1	10222024a059.D	
580-144975-10 MSD	RIR24SS227BKG01.5 MSD	10/22/2024 21:31	1	10222024a061.D	
580-144975-1	RIR24SS219SP902	10/22/2024 21:51	1	10222024a063.D	
580-144975-2	RIR24SS219SP9029	10/22/2024 22:11	1	10222024a065.D	
580-144975-3	RIR24SS220SP902	10/22/2024 22:31	1	10222024a067.D	
580-144975-4	RIR24SS221SP903	10/22/2024 22:51	1	10222024a069.D	
580-144975-5	RIR24SS222SP903	10/22/2024 23:11	1	10222024a071.D	
CCV 580-475534/34		10/22/2024 23:31	1	10222024a073.D	
580-144975-6	RIR24SS223SP903.5	10/22/2024 23:51	1	10222024a075.D	
580-144975-7	RIR24SS224SP904.5	10/23/2024 00:11	1	10222024a077.D	
580-144975-8	RIR24SS225BKG02	10/23/2024 00:31	1	10222024a079.D	
580-144975-9	RIR24SS226BKG04.5	10/23/2024 00:51	1	10222024a081.D	
580-144975-11	RIR24SS228BKG03.5	10/23/2024 01:11	1	10222024a083.D	
ZZZZZ (Client)		10/23/2024 01:31	1		
ZZZZZ (Client)		10/23/2024 01:51	1		
ZZZZZ (Client)		10/23/2024 02:11	1		
ZZZZZ (Client)		10/23/2024 02:30	1		
ZZZZZ (Client)		10/23/2024 02:51	5		
CCV 580-475534/46		10/23/2024 03:10	1	10222024a095.D	
ZZZZZ (Client)		10/23/2024 03:30	1		
ZZZZZ (Client)		10/23/2024 03:50	1		
CCV 580-475534/50		10/23/2024 04:10	1		

AK102 & 103

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129 Start Date: 09/23/2024 09:04

Analysis Batch Number: 472407 End Date: 09/23/2024 13:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ (QC)		09/23/2024 09:04	1		
RTC 580-472407/2		09/23/2024 09:24	1		
IC 580-472407/3		09/23/2024 09:44	1	09232024a006.D	
IC 580-472407/4		09/23/2024 10:04	1	09232024a008.D	
IC 580-472407/5		09/23/2024 10:24	1	09232024a010.D	
IC 580-472407/6		09/23/2024 10:44	1	09232024a012.D	
IC 580-472407/7		09/23/2024 11:04	1	09232024a014.D	
IC 580-472407/8		09/23/2024 11:25	1	09232024a016.D	
ICRT 580-472407/9		09/23/2024 11:45	1	09232024a018.D	
IC 580-472407/10		09/23/2024 12:05	1	09232024a020.D	
IC 580-472407/11		09/23/2024 12:25	1	09232024a022.D	
IC 580-472407/12		09/23/2024 12:46	1	09232024a024.D	
IC 580-472407/13		09/23/2024 13:06	1	09232024a026.D	
ICV 580-472407/14		09/23/2024 13:26	1	09232024a028.D	

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: TAC129 Start Date: 10/22/2024 11:39

Analysis Batch Number: 475531 End Date: 10/23/2024 06:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-475531/2		10/22/2024 11:39	1	10222024a004.D	
CCVRT 580-475531/3		10/22/2024 11:59	1	10222024a006.D	
ZZZZZ		10/22/2024 12:19	1		
ZZZZZ (Client)		10/22/2024 12:39	1		
ZZZZZ (Client)		10/22/2024 12:59	1		
ZZZZZ (Client)		10/22/2024 13:20	1		
ZZZZZ (Client)		10/22/2024 13:40	1		
ZZZZZ (Client)		10/22/2024 14:00	1		
ZZZZZ (Client)		10/22/2024 14:21	1		
ZZZZZ (Client)		10/22/2024 14:41	1		
CCV 580-475531/13		10/22/2024 15:02	1	10222024a024.D	
CCV 580-475531/25		10/22/2024 20:11	1	10222024a054.D	
CCV 580-475531/38		10/23/2024 00:11	1	10222024a078.D	
MB 580-475429/1-B		10/23/2024 01:31	1	10222024a086.D	
LCS 580-475429/2-B		10/23/2024 01:51	1	10222024a088.D	
580-144975-10	RIR24SS227BKG01.5	10/23/2024 02:11	1	10222024a090.D	
580-144975-10 MS	RIR24SS227BKG01.5 MS	10/23/2024 02:30	1	10222024a092.D	
580-144975-10 MSD	RIR24SS227BKG01.5 MSD	10/23/2024 02:51	1	10222024a094.D	
580-144975-1	RIR24SS219SP902	10/23/2024 03:10	1	10222024a096.D	
580-144975-2	RIR24SS219SP9029	10/23/2024 03:30	1	10222024a098.D	
580-144975-3	RIR24SS220SP902	10/23/2024 03:50	1	10222024a100.D	
CCV 580-475531/51		10/23/2024 04:10	1	10222024a102.D	
580-144975-4	RIR24SS221SP903	10/23/2024 04:30	1	10222024a104.D	
580-144975-5	RIR24SS222SP903	10/23/2024 04:50	1	10222024a106.D	
580-144975-6	RIR24SS223SP903.5	10/23/2024 05:10	1	10222024a108.D	
580-144975-7	RIR24SS224SP904.5	10/23/2024 05:30	1	10222024a110.D	
580-144975-8	RIR24SS225BKG02	10/23/2024 05:50	1	10222024a112.D	
580-144975-9	RIR24SS226BKG04.5	10/23/2024 06:10	1	10222024a114.D	
580-144975-11	RIR24SS228BKG03.5	10/23/2024 06:30	1	10222024a116.D	
CCV 580-475531/60		10/23/2024 06:50	1	10222024a118.D	

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 472180 Batch Start Date: 09/20/24 12:02 Batch Analyst: Waldrop, Stephanie

Batch Method: AK102 & 103 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	TPH-CCV_500 00142	TPH-IC_10 00017	TPH-IC_100 00028	TPH-IC_1000 00025	TPH-IC_10000 00120
IC 580-472180/3		AK102 & 103			1 mL					
IC 580-472180/4		AK102 & 103			1 mL		1 mL			
IC 580-472180/5		AK102 & 103			1 mL					
IC 580-472180/6		AK102 & 103			1 mL					
IC 580-472180/7		AK102 & 103			1 mL			1 mL		
IC 580-472180/8		AK102 & 103			1 mL					
ICRT 580-472180/9		AK102 & 103			1 mL	1 mL				
IC 580-472180/10		AK102 & 103			1 mL				1 mL	
IC 580-472180/11		AK102 & 103			1 mL					
IC 580-472180/12		AK102 & 103			1 mL					
IC 580-472180/13		AK102 & 103			1 mL					1 mL
ICV 580-472180/14		AK102 & 103			1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TPH-IC_20 00030	TPH-IC_200 00011	TPH-IC_2000 00012	TPH-IC_5 00010	TPH-IC_50 00027	TPH-IC_5000 00024
IC 580-472180/3		AK102 & 103						1 mL		
IC 580-472180/4		AK102 & 103								
IC 580-472180/5		AK102 & 103			1 mL					
IC 580-472180/6		AK102 & 103							1 mL	
IC 580-472180/7		AK102 & 103								
IC 580-472180/8		AK102 & 103				1 mL				
ICRT 580-472180/9		AK102 & 103								
IC 580-472180/10		AK102 & 103								
IC 580-472180/11		AK102 & 103					1 mL			
IC 580-472180/12		AK102 & 103								1 mL
IC 580-472180/13		AK102 & 103								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 472180 Batch Start Date: 09/20/24 12:02 Batch Analyst: Waldrop, Stephanie

Batch Method: AK102 & 103 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TPH-IC_20 00030	TPH-IC_200 00011	TPH-IC_2000 00012	TPH-IC_5 00010	TPH-IC_50 00027	TPH-IC_5000 00024
ICV 580-472180/14		AK102 & 103								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TPH-ICV_10000 00020					
IC 580-472180/3		AK102 & 103								
IC 580-472180/4		AK102 & 103								
IC 580-472180/5		AK102 & 103								
IC 580-472180/6		AK102 & 103								
IC 580-472180/7		AK102 & 103								
IC 580-472180/8		AK102 & 103								
ICRT 580-472180/9		AK102 & 103								
IC 580-472180/10		AK102 & 103								
IC 580-472180/11		AK102 & 103								
IC 580-472180/12		AK102 & 103								
IC 580-472180/13		AK102 & 103								
ICV 580-472180/14		AK102 & 103			0.05 mL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 472407 Batch Start Date: 09/23/24 09:04 Batch Analyst: Waldrop, Stephanie

Batch Method: AK102 & 103 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	TPH-IC_10 00017	TPH-IC_100 00028	TPH-IC_1000 00025	TPH-IC_10000 00120	TPH-IC_20 00030
IC 580-472407/3		AK102 & 103			1 mL					
IC 580-472407/4		AK102 & 103			1 mL	1 mL				
IC 580-472407/5		AK102 & 103			1 mL					1 mL
IC 580-472407/6		AK102 & 103			1 mL					
IC 580-472407/7		AK102 & 103			1 mL		1 mL			
IC 580-472407/8		AK102 & 103			1 mL					
IC 580-472407/10		AK102 & 103			1 mL			1 mL		
IC 580-472407/11		AK102 & 103			1 mL					
IC 580-472407/12		AK102 & 103			1 mL					
IC 580-472407/13		AK102 & 103			1 mL				1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	TPH-IC_200 00011	TPH-IC_2000 00012	TPH-IC_5 00010	TPH-IC_50 00027	TPH-IC_5000 00024	
IC 580-472407/3		AK102 & 103					1 mL			
IC 580-472407/4		AK102 & 103								
IC 580-472407/5		AK102 & 103								
IC 580-472407/6		AK102 & 103						1 mL		
IC 580-472407/7		AK102 & 103								
IC 580-472407/8		AK102 & 103			1 mL					
IC 580-472407/10		AK102 & 103								
IC 580-472407/11		AK102 & 103				1 mL				
IC 580-472407/12		AK102 & 103							1 mL	
IC 580-472407/13		AK102 & 103								

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 472407 Batch Start Date: 09/23/24 09:04 Batch Analyst: Waldrop, Stephanie

Batch Method: AK102 & 103 Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475429 Batch Start Date: 10/21/24 12:59 Batch Analyst: Anderson, Tess O

Batch Method: 3546 Batch End Date: 10/21/24 20:51

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00140	TPH_SURR 00090		
MB 580-475429/1		3546, AK102 & 103			10 g	10 mL		100 uL		
LCS 580-475429/2		3546, AK102 & 103			10 g	10 mL	100 uL	100 uL		
580-144975-A-10	RIR24SS227BKG01.5	3546, AK102 & 103	Solid	T	10.01 g	10 mL		100 uL		
580-144975-A-10 MS	RIR24SS227BKG01.5	3546, AK102 & 103	Solid	T	10.09 g	10 mL	100 uL	100 uL		
580-144975-A-10 MSD	RIR24SS227BKG01.5	3546, AK102 & 103	Solid	T	10.76 g	10 mL	100 uL	100 uL		
580-144975-A-1	RIR24SS219SP902	3546, AK102 & 103	Solid	T	10.11 g	10 mL		100 uL		
580-144975-A-2	RIR24SS219SP9029	3546, AK102 & 103	Solid	T	10.27 g	10 mL		100 uL		
580-144975-A-3	RIR24SS220SP902	3546, AK102 & 103	Solid	T	10.97 g	10 mL		100 uL		
580-144975-A-4	RIR24SS221SP903	3546, AK102 & 103	Solid	T	10.30 g	10 mL		100 uL		
580-144975-A-5	RIR24SS222SP903	3546, AK102 & 103	Solid	T	10.57 g	10 mL		100 uL		
580-144975-A-6	RIR24SS223SP903.5	3546, AK102 & 103	Solid	T	10.38 g	10 mL		100 uL		
580-144975-A-7	RIR24SS224SP904.5	3546, AK102 & 103	Solid	T	10.08 g	10 mL		100 uL		
580-144975-A-8	RIR24SS225BKG02	3546, AK102 & 103	Solid	T	10.60 g	10 mL		100 uL		
580-144975-A-9	RIR24SS226BKG04.5	3546, AK102 & 103	Solid	T	10.13 g	10 mL		100 uL		
580-144975-A-11	RIR24SS228BKG03.5	3546, AK102 & 103	Solid	T	10.61 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475429 Batch Start Date: 10/21/24 12:59 Batch Analyst: Anderson, Tess O

Batch Method: 3546 Batch End Date: 10/21/24 20:51

Batch Notes	
Method/Fraction	3546 / AK102_103
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	Mars 5
Microwave Program ID	US EPA 3546 115C
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	TA
Blank Matrix ID	3049571
Analyst ID - Spike Analyst	TA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3861863
Na2SO4 ID	3835289
Filter ID	09-790F
Analyst ID - Concentration	ER
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital Readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	24176600
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: ER rb: ER

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 472407 Batch Start Date: 09/23/24 09:04 Batch Analyst: Waldrop, Stephanie

Batch Method: AK102/103 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	TPH-CCV_50000142	TPH-ICV_10000 00020			
ICRT 580-472407/9		AK102/103			1 mL	1 mL				
ICV 580-472407/14		AK102/103			1 mL		0.05 mL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475429 Batch Start Date: 10/21/24 12:59 Batch Analyst: Anderson, Tess O

Batch Method: 3546 Batch End Date: 10/21/24 20:51

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00140	TPH_SURR 00090		
MB 580-475429/1		3546, 3630C, AK102/103			10 g	10 mL		100 uL		
LCS 580-475429/2		3546, 3630C, AK102/103			10 g	10 mL	100 uL	100 uL		
580-144975-A-10	RIR24SS227BKG01.5	3546, 3630C, AK102/103	Solid	T	10.01 g	10 mL		100 uL		
580-144975-A-10 MS	RIR24SS227BKG01.5	3546, 3630C, AK102/103	Solid	T	10.09 g	10 mL	100 uL	100 uL		
580-144975-A-10 MSD	RIR24SS227BKG01.5	3546, 3630C, AK102/103	Solid	T	10.76 g	10 mL	100 uL	100 uL		
580-144975-A-1	RIR24SS219SP902	3546, 3630C, AK102/103	Solid	T	10.11 g	10 mL		100 uL		
580-144975-A-2	RIR24SS219SP9029	3546, 3630C, AK102/103	Solid	T	10.27 g	10 mL		100 uL		
580-144975-A-3	RIR24SS220SP902	3546, 3630C, AK102/103	Solid	T	10.97 g	10 mL		100 uL		
580-144975-A-4	RIR24SS221SP903	3546, 3630C, AK102/103	Solid	T	10.30 g	10 mL		100 uL		
580-144975-A-5	RIR24SS222SP903	3546, 3630C, AK102/103	Solid	T	10.57 g	10 mL		100 uL		
580-144975-A-6	RIR24SS223SP903.5	3546, 3630C, AK102/103	Solid	T	10.38 g	10 mL		100 uL		
580-144975-A-7	RIR24SS224SP904.5	3546, 3630C, AK102/103	Solid	T	10.08 g	10 mL		100 uL		
580-144975-A-8	RIR24SS225BKG02	3546, 3630C, AK102/103	Solid	T	10.60 g	10 mL		100 uL		
580-144975-A-9	RIR24SS226BKG04.5	3546, 3630C, AK102/103	Solid	T	10.13 g	10 mL		100 uL		
580-144975-A-11	RIR24SS228BKG03.5	3546, 3630C, AK102/103	Solid	T	10.61 g	10 mL		100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475429 Batch Start Date: 10/21/24 12:59 Batch Analyst: Anderson, Tess O

Batch Method: 3546 Batch End Date: 10/21/24 20:51

Batch Notes	
Method/Fraction	3546 / AK102_103
Balance ID	SEA240
Balance is Level? (Y/N)	yes
Microwave Oven ID	Mars 5
Microwave Program ID	US EPA 3546 115C
Pipette/Syringe/Dispenser ID	MP5
Analyst ID - Extraction	TA
Blank Matrix ID	3049571
Analyst ID - Spike Analyst	TA
Sufficient Volume for Batch QC	yes
Prep Solvent ID	3861863
Na2SO4 ID	3835289
Filter ID	09-790F
Analyst ID - Concentration	ER
Equipment ID - Concentration 1	Turbovap 6
Thermometer ID - Concentration 1	Digital Readout
Concentration 1 Uncorrected Temperature	44 Degrees C
Concentration 1 Corrected Temperature	40 Degrees C
Vial Lot Number	24176600
Pipette Tip Lot ID	13-678-20D
Batch Comment	vb: ER rb: ER

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475474 Batch Start Date: 10/21/24 20:57 Batch Analyst: Ripley, Echo

Batch Method: 3630C Batch End Date: 10/22/24 08:14

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount				
MB 580-475429/1-A		3630C, AK102/103			1 g	1 mL				
LCS 580-475429/2-A		3630C, AK102/103			1 g	1 mL				
580-144975-A-10-A	RIR24SS227BKG01.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-10-B MS	RIR24SS227BKG01.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-10-C MSD	RIR24SS227BKG01.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-1-A	RIR24SS219SP902	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-2-A	RIR24SS219SP9029	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-3-A	RIR24SS220SP902	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-4-A	RIR24SS221SP903	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-5-A	RIR24SS222SP903	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-6-A	RIR24SS223SP903.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-7-A	RIR24SS224SP904.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-8-A	RIR24SS225BKG02	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-9-A	RIR24SS226BKG04.5	3630C, AK102/103	Solid	T	1 g	1 mL				
580-144975-A-11-A	RIR24SS228BKG03.5	3630C, AK102/103	Solid	T	1 g	1 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475474 Batch Start Date: 10/21/24 20:57 Batch Analyst: Ripley, Echo

Batch Method: 3630C Batch End Date: 10/22/24 08:14

Batch Notes	
Analyst ID - Spike Analyst	TA
Analyst ID - Concentration	ER
Solvent Lot #	3861863
Na2SO4 ID	3835289
Pipette Tip Lot ID	13-678-20D
Vial Lot Number	24176600
Batch Comment	vb: TA rb: TA

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Seattle Job Number: 580-144975-1

SDG No.: SP9 & Background

Project: Ralston Island RI / 697DCK-24-C-00040

Client Sample ID	Lab Sample ID
RIR24SS219SP902	580-144975-1
RIR24SS219SP9029	580-144975-2
RIR24SS220SP902	580-144975-3
RIR24SS221SP903	580-144975-4
RIR24SS222SP903	580-144975-5
RIR24SS223SP903.5	580-144975-6
RIR24SS224SP904.5	580-144975-7
RIR24SS225BKG02	580-144975-8
RIR24SS226BKG04.5	580-144975-9
RIR24SS227BKG01.5	580-144975-10
RIR24SS228BKG03.5	580-144975-11

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Seattle Job Number: 580-144975-1

SDG Number: SP9 & Background

Matrix: Solid Instrument ID: LMA01

Method: 2540G DL Date: 12/31/2013 17:53

Analyte	Wavelength/ Mass	LOQ (%)	DL (%)
Percent Moisture		0.1	0.1
Percent Solids		0.1	0.1

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: LMA01 Analysis Method: 2540G

Start Date: 10/21/2024 16:03 End Date: 10/21/2024 16:03

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ (Client)			16:03																										
ZZZZZZ (QC)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
580-144975-1	1	T	16:03	X	X																								
580-144975-2	1	T	16:03	X	X																								
580-144975-3	1	T	16:03	X	X																								
580-144975-4	1	T	16:03	X	X																								
580-144975-5	1	T	16:03	X	X																								
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										
ZZZZZZ (Client)			16:03																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Instrument ID: LMA01 Analysis Method: 2540G

Start Date: 10/21/2024 17:45 End Date: 10/21/2024 17:45

Lab Sample Id	D/F	Type	Time	Analytes																								
				% Sol	Moist																							
580-144975-6	1	T	17:45	X	X																							
580-144975-6 DU	1	T	17:45	X	X																							
580-144975-7	1	T	17:45	X	X																							
580-144975-8	1	T	17:45	X	X																							
580-144975-9	1	T	17:45	X	X																							
580-144975-10	1	T	17:45	X	X																							
580-144975-11	1	T	17:45	X	X																							
ZZZZZZ (Client)			17:45																									
ZZZZZZ (Client)			17:45																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475449 Batch Start Date: 10/21/24 16:03 Batch Analyst: Chambers, Shamir

Batch Method: 2540G Batch End Date: 10/21/24 16:17

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	AnalysisComment					
580-144975-A-1	RIR24SS219SP902	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-2	RIR24SS219SP9029	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-3	RIR24SS220SP902	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-4	RIR24SS221SP903	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-5	RIR24SS222SP903	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					

Batch Notes	
Balance ID	LMA01
Balance is Level? (Y/N)	yes
Oven ID	LMA01
Thermometer ID	LMA01
Date samples were placed in the oven	10/21/2024
Time samples were place in the oven	16:03
Temperature - Start - Uncorrected	25.0 Degrees C
Oven Temp In	25.0 Degrees C
Date samples were removed from oven	10/21/2024
Time Samples were removed from oven	16:17
Analyst ID - Weighing	SC
Temperature - End - Uncorrected	160 Degrees C
Oven Temp Out	160 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475449 Batch Start Date: 10/21/24 16:03 Batch Analyst: Chambers, Shamir

Batch Method: 2540G Batch End Date: 10/21/24 16:17

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475460 Batch Start Date: 10/21/24 17:45 Batch Analyst: Chambers, Shamir

Batch Method: 2540G Batch End Date: 10/21/24 17:57

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	AnalysisComment					
580-144975-A-6	RIR24SS223SP903.5	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-6 DU	RIR24SS223SP903.5	2540G		T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-7	RIR24SS224SP904.5	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-8	RIR24SS225BKG02	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-9	RIR24SS226BKG04.5	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-10	RIR24SS227BKG01.5	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					
580-144975-A-11	RIR24SS228BKG03.5	2540G	Solid	T	Percent Solids calculated by LecoMoisture preprocessor.					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Seattle Job No.: 580-144975-1

SDG No.: SP9 & Background

Batch Number: 475460 Batch Start Date: 10/21/24 17:45 Batch Analyst: Chambers, Shamir

Batch Method: 2540G Batch End Date: 10/21/24 17:57

Batch Notes	
Balance ID	LMA01
Balance is Level? (Y/N)	yes
Oven ID	LMA01
Thermometer ID	LMA01
Date samples were placed in the oven	10/21/2024
Time samples were place in the oven	17:45
Temperature - Start - Uncorrected	25.0 Degrees C
Oven Temp In	25.0 Degrees C
Date samples were removed from oven	10/21/2024
Time Samples were removed from oven	17:57
Analyst ID - Weighing	SC
Temperature - End - Uncorrected	160 Degrees C
Oven Temp Out	160 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

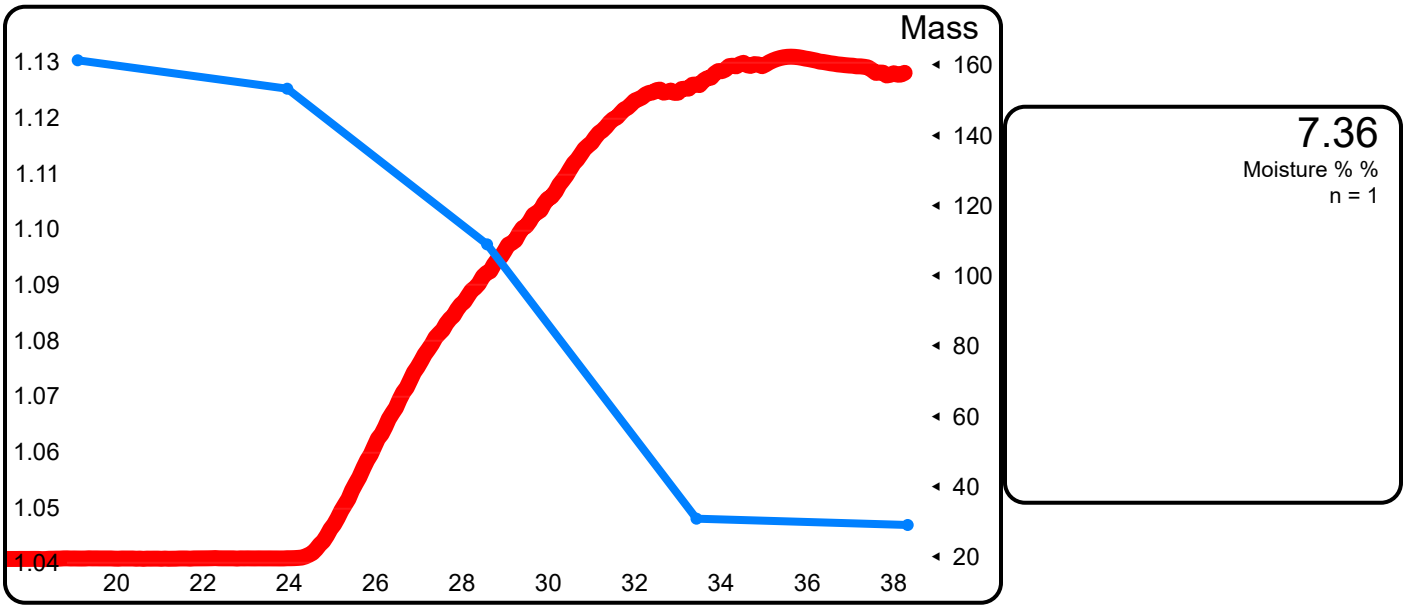
Overview

- Name: 580-144938-a-2
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.1304 g	14:39 mm:ss

Set Plots



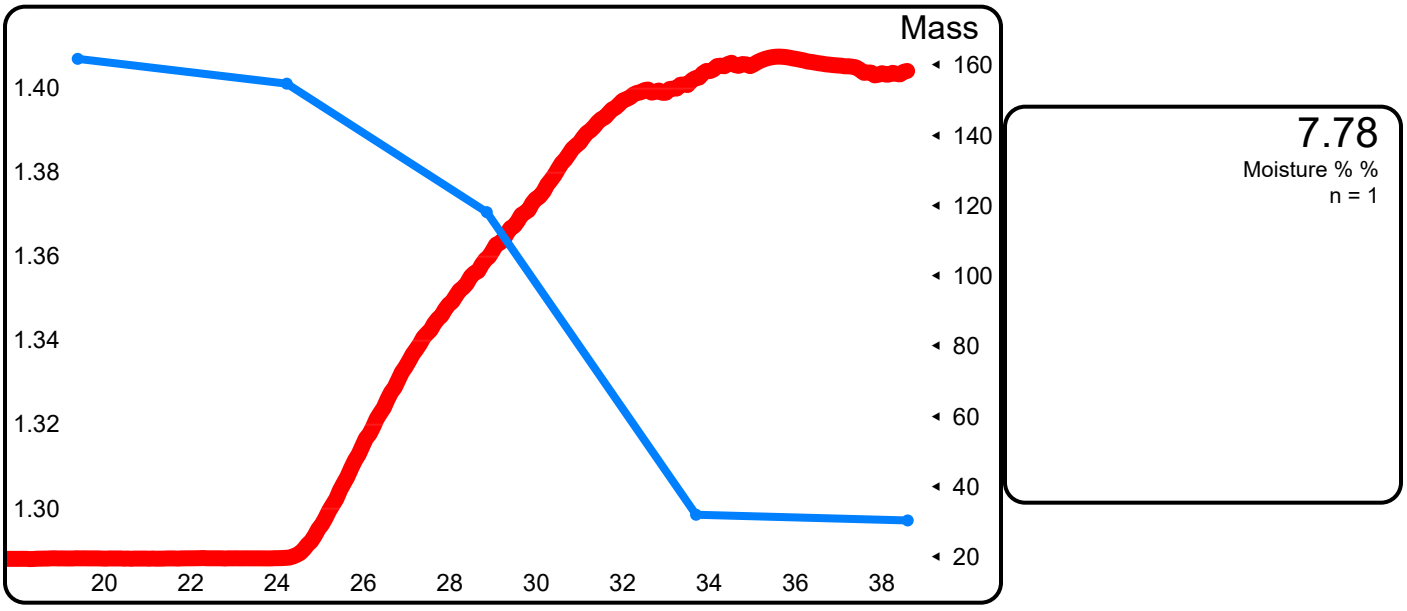
Overview

- Name: DU 580-144938-a-2
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.4071 g	14:55 mm:ss

Set Plots



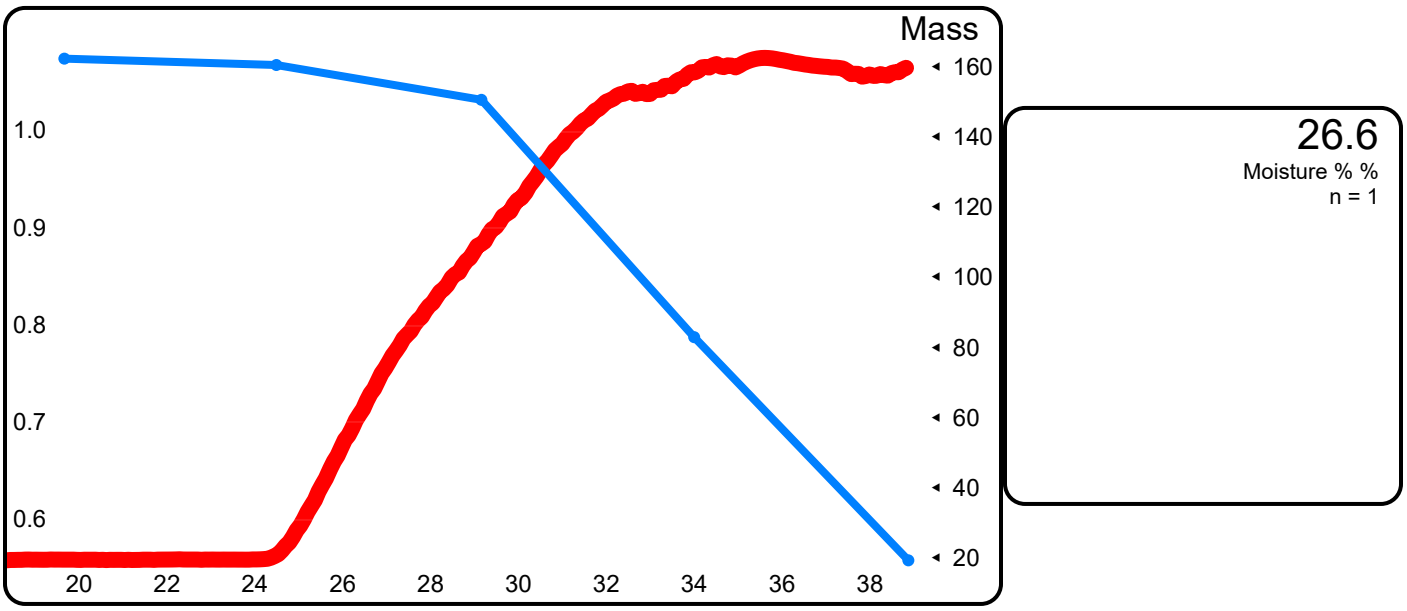
Overview

- Name: 580-145013-a-1
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.0752 g	10:19 mm:ss

Set Plots



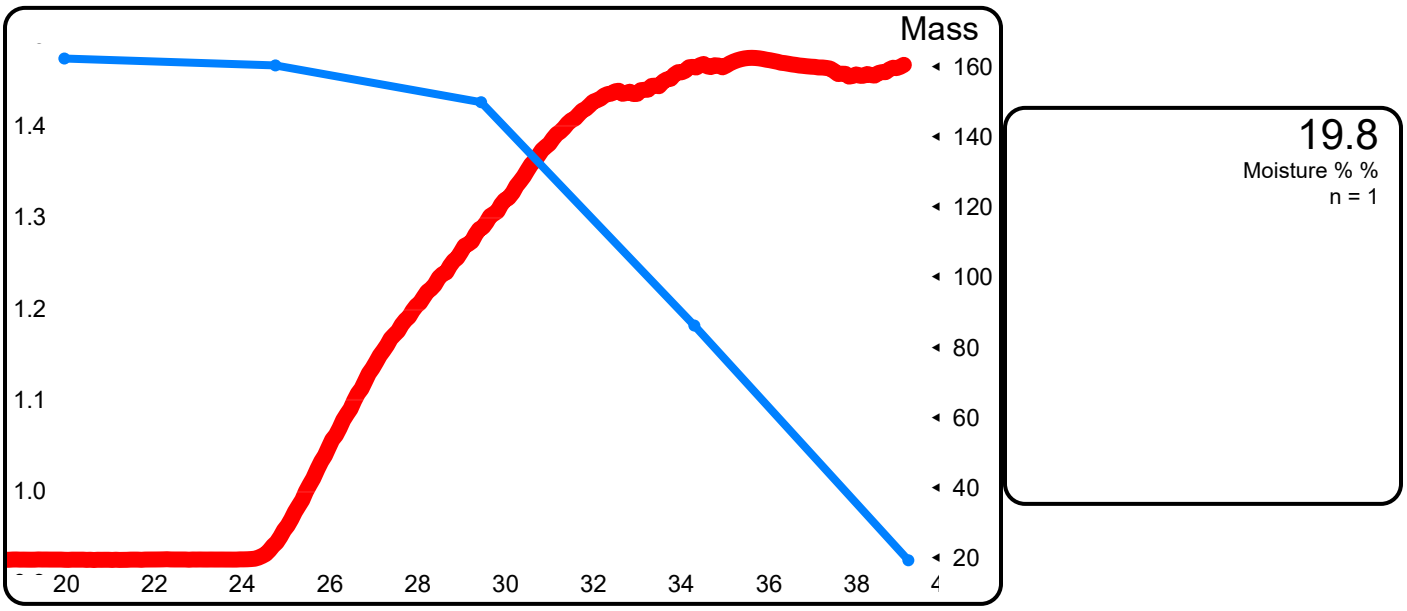
Overview

- Name: 580-145013-a-2
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.4756 g	10:37 mm:ss

Set Plots



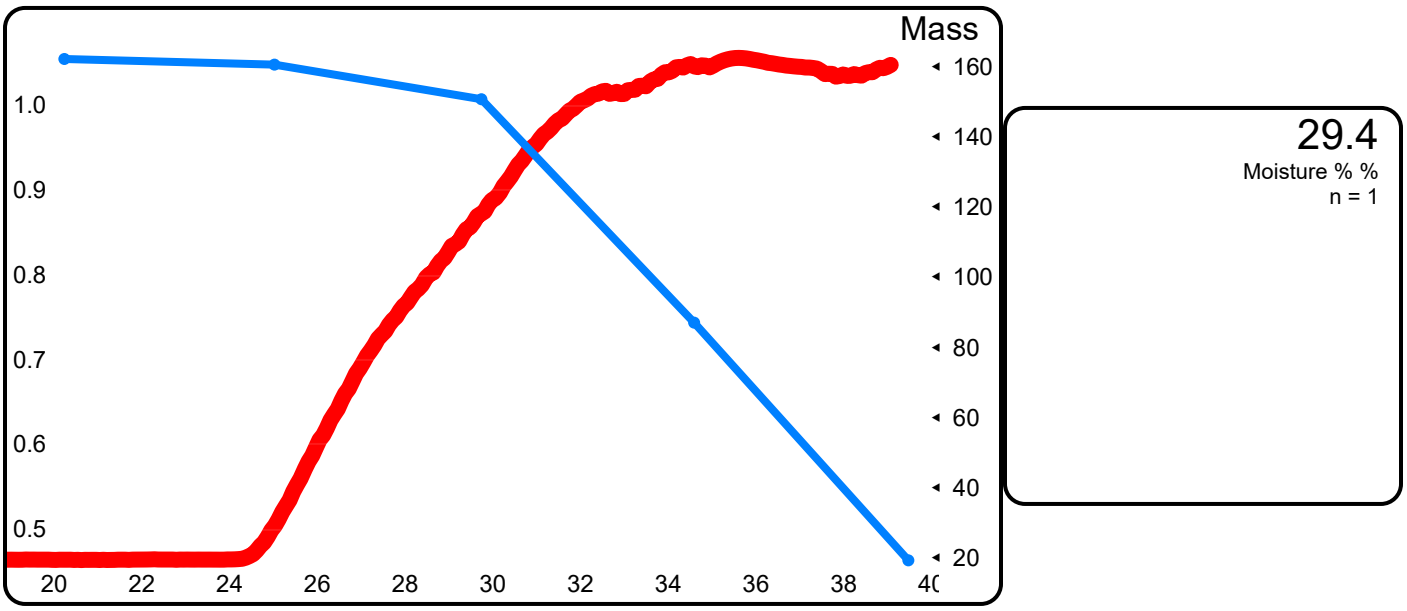
Overview

- Name: 580-141942-a-34
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.0566 g	10:55 mm:ss

Set Plots



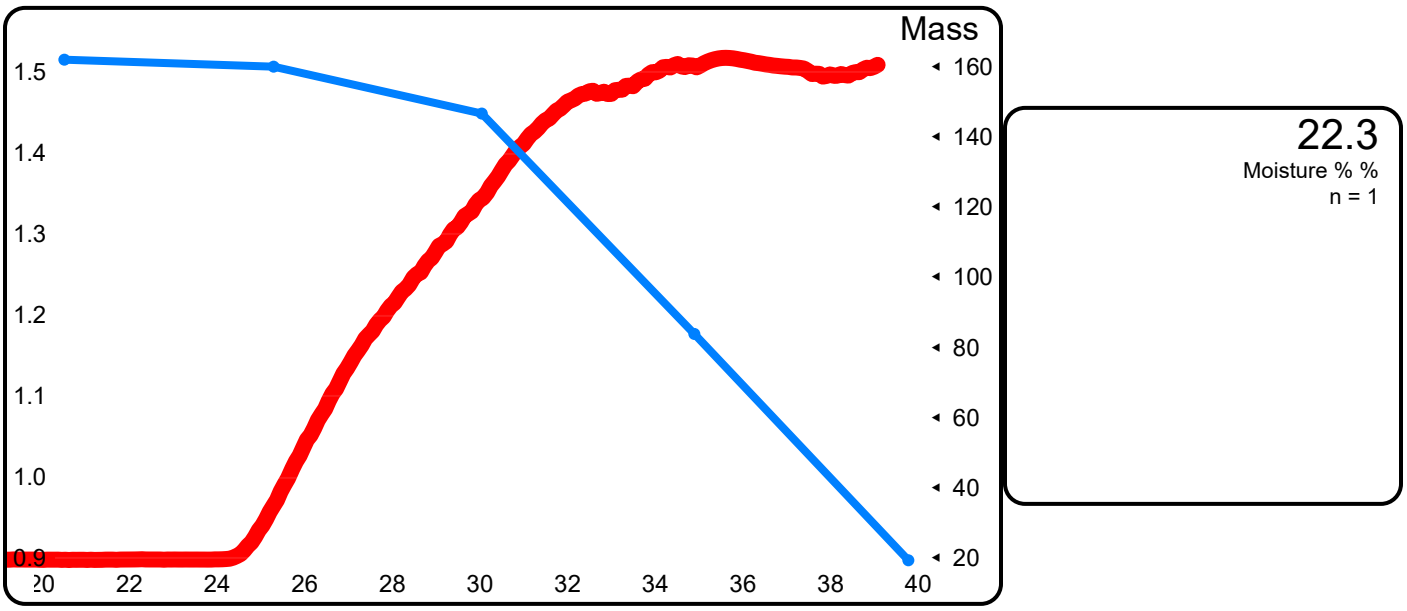
Overview

- Name: 580-145013-a-3
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.5171 g	11:13 mm:ss

Set Plots



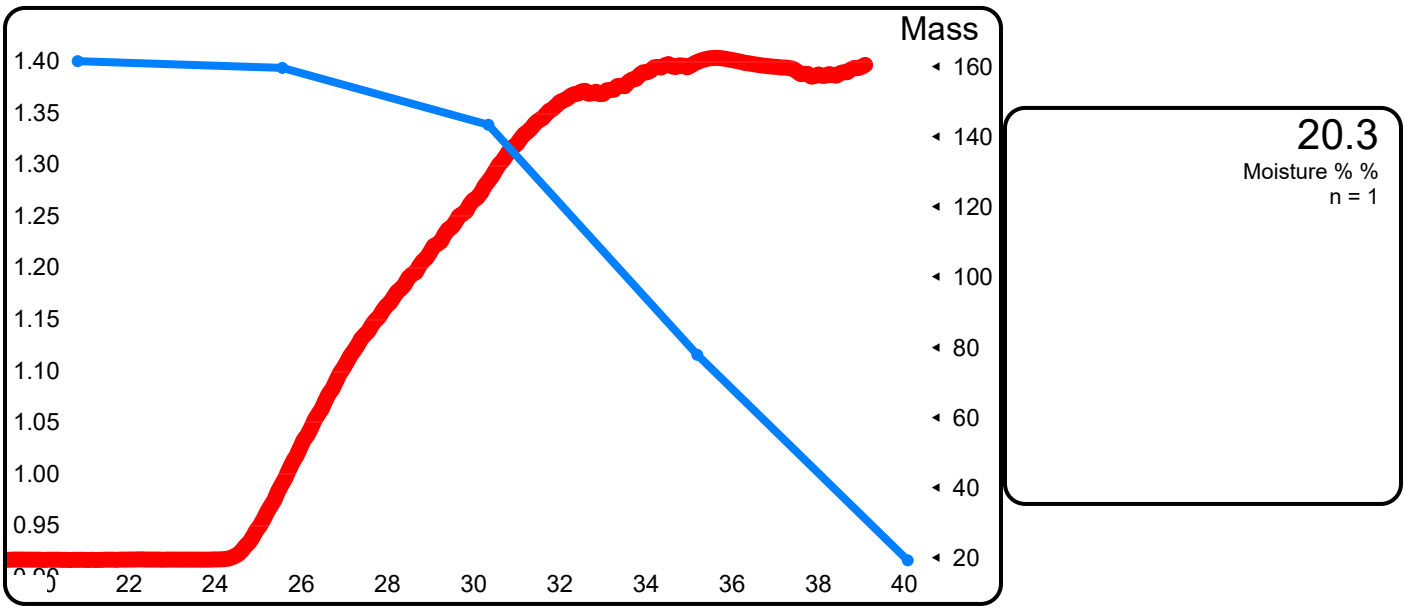
Overview

- Name: 580-144975-a-1
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.4014 g	11:31 mm:ss

Set Plots



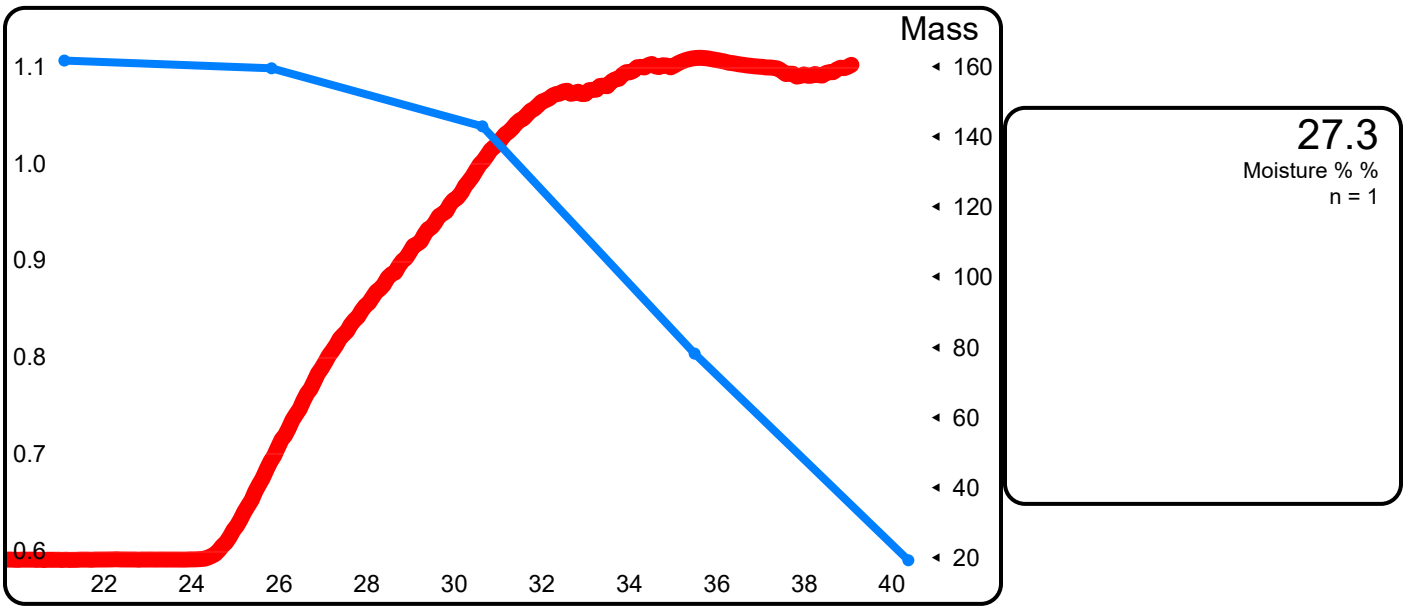
Overview

- Name: 580-144975-a-2
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.1079 g	11:49 mm:ss

Set Plots



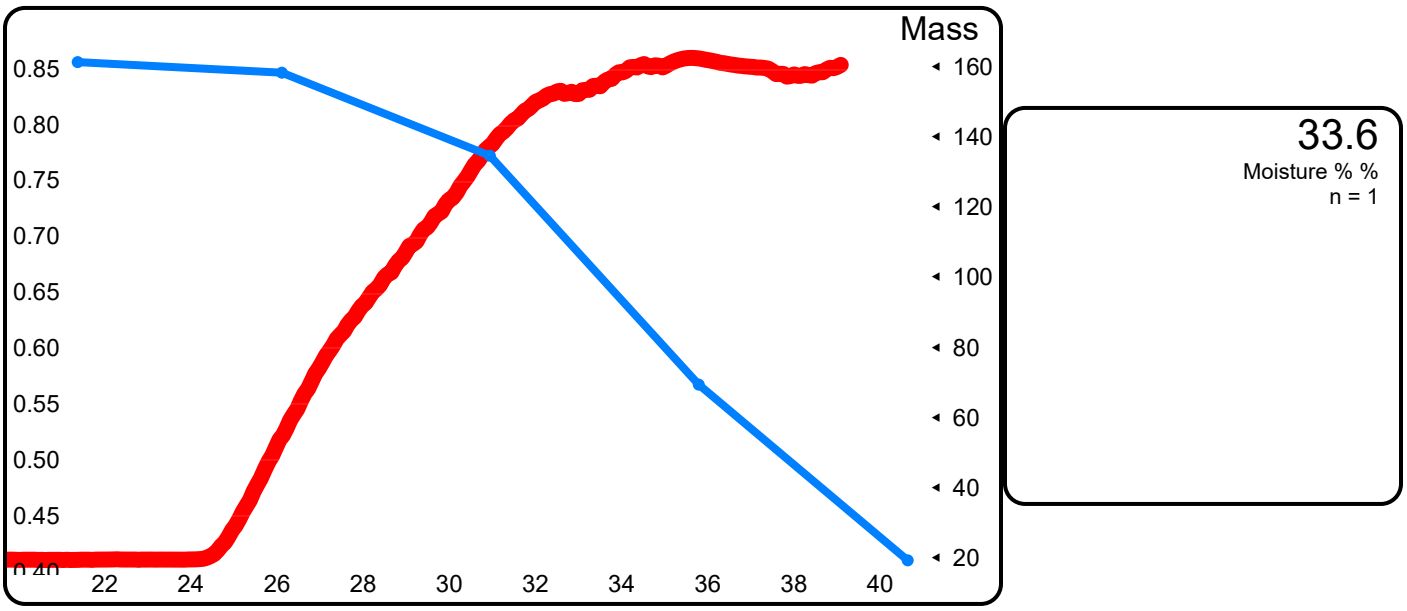
Overview

- Name: 580-144975-a-3
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.8570 g	12:07 mm:ss

Set Plots



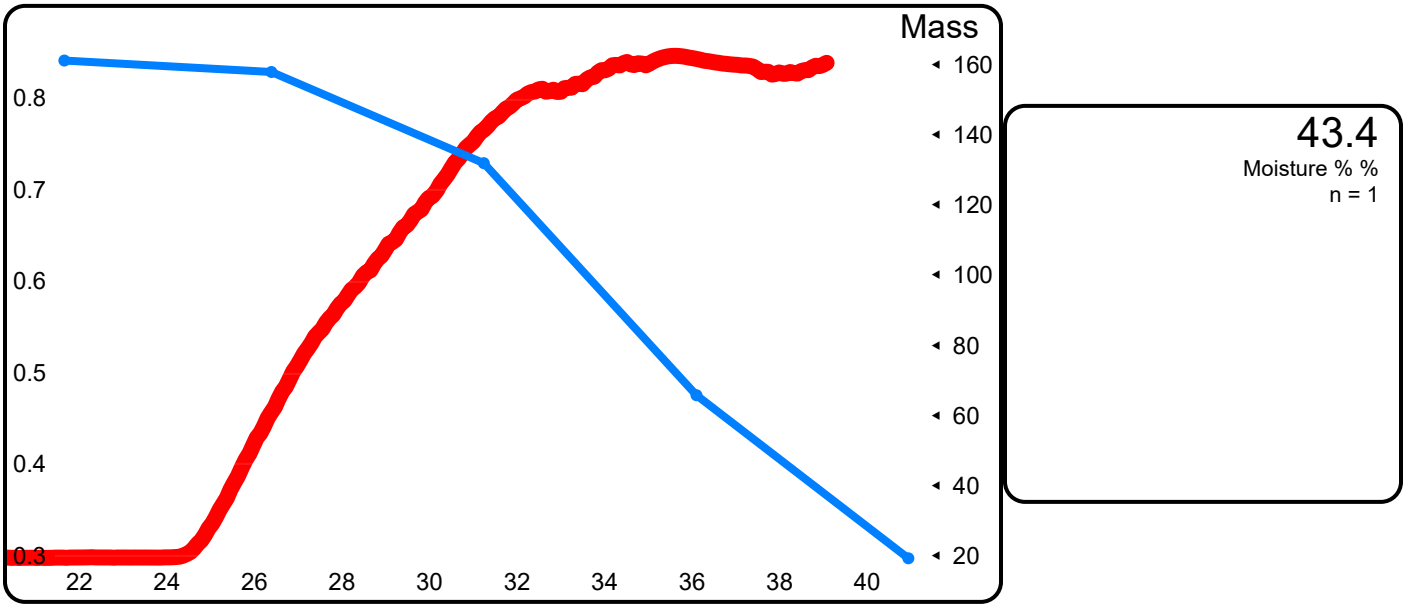
Overview

- Name: 580-144975-a-4
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.8429 g	12:25 mm:ss

Set Plots



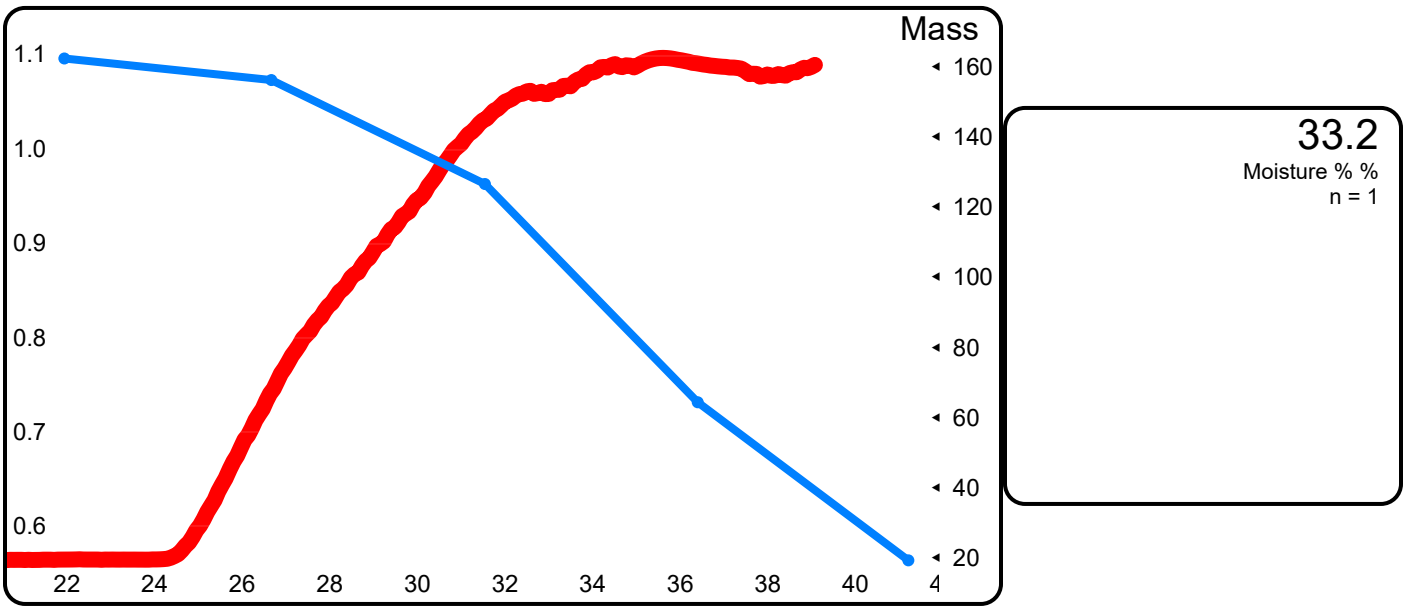
Overview

- Name: 580-144975-a-5
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
1.0972 g	12:43 mm:ss

Set Plots



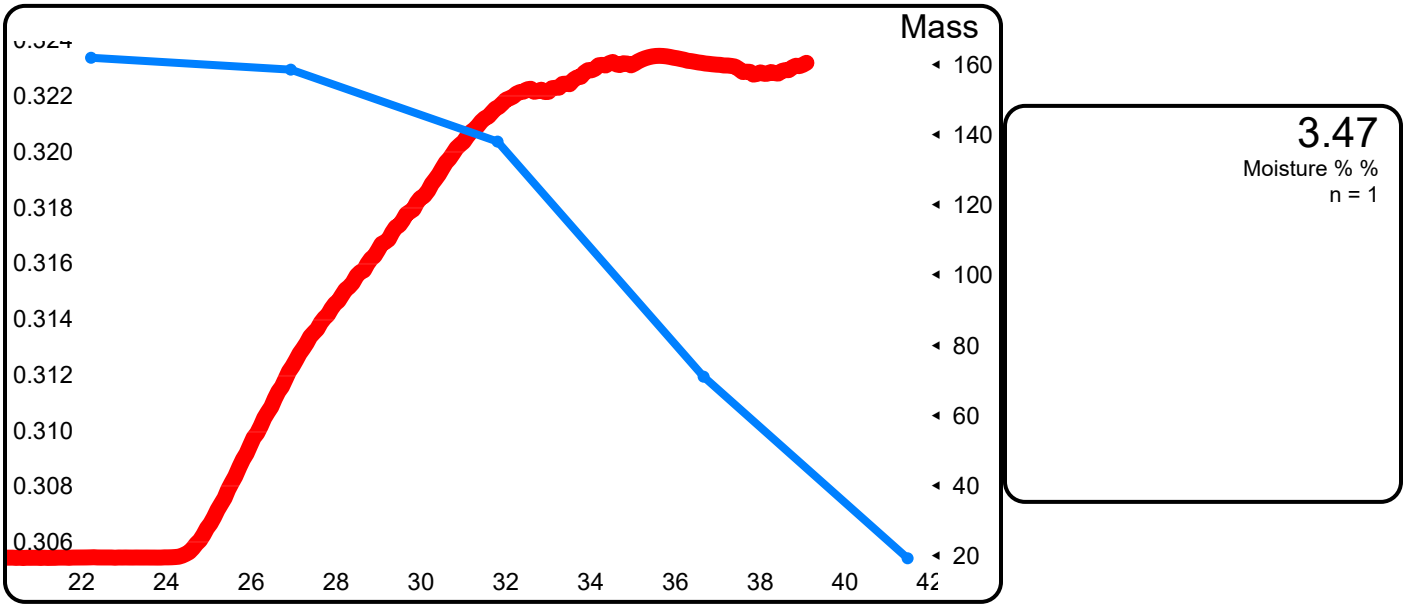
Overview

- Name: 580-144957-a-1
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.3232 g	12:59 mm:ss

Set Plots



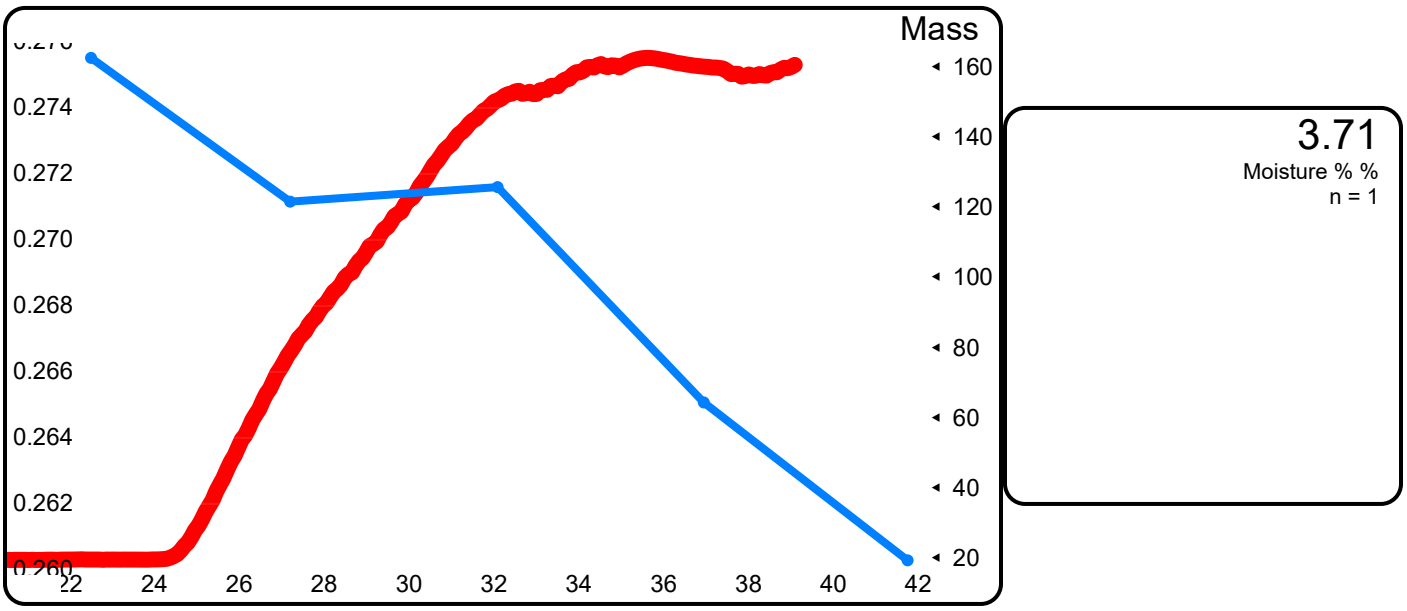
Overview

- Name: 580-144957-a-2
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.2753 g	13:16 mm:ss

Set Plots



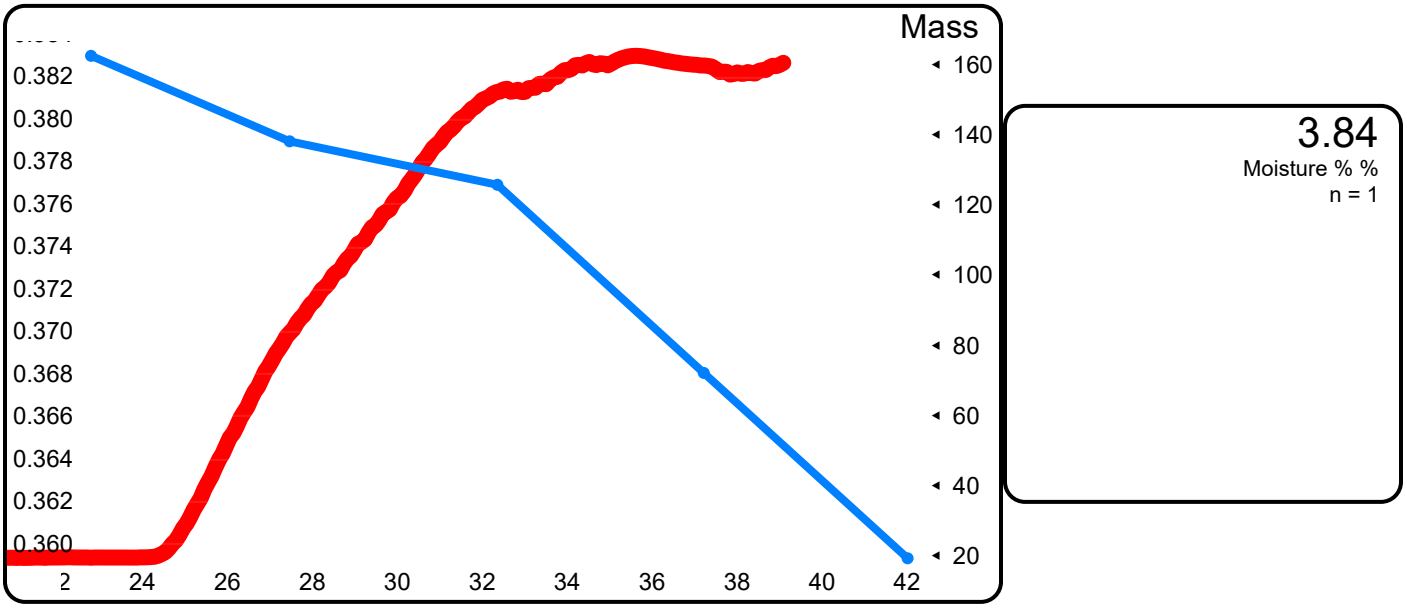
Overview

- Name: 580-144957-a-3
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.3828 g	13:32 mm:ss

Set Plots



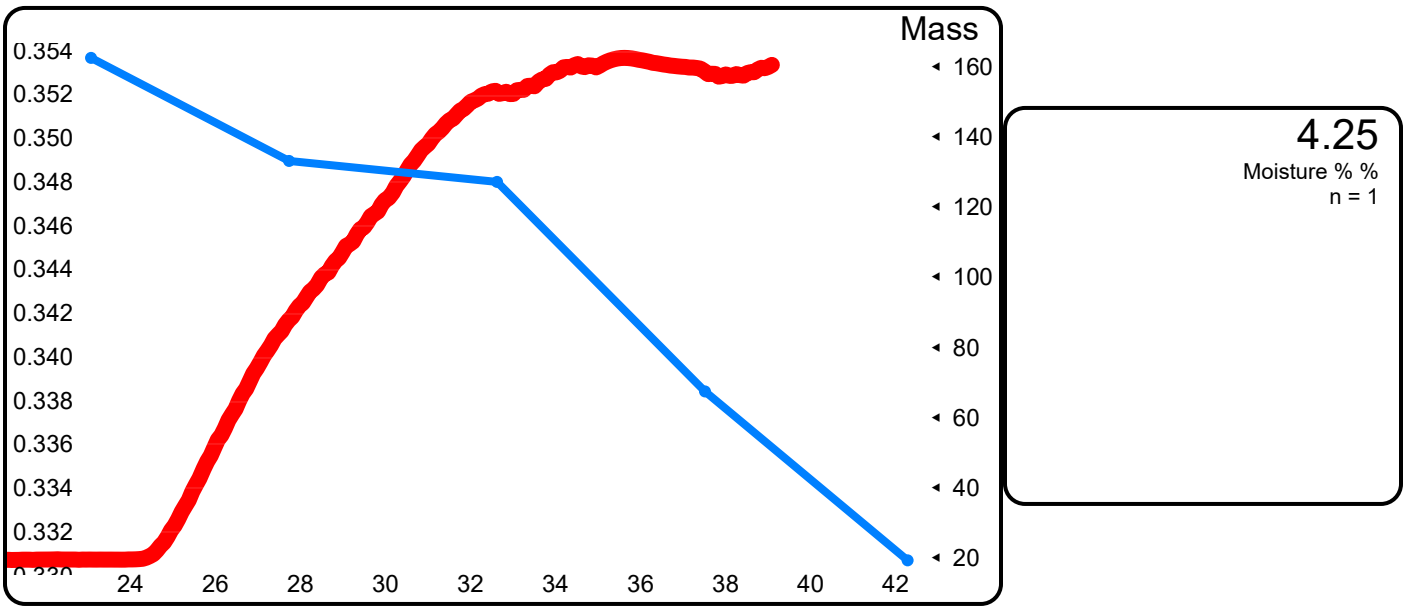
Overview

- Name: 580-144957-a-4
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.3535 g	13:50 mm:ss

Set Plots



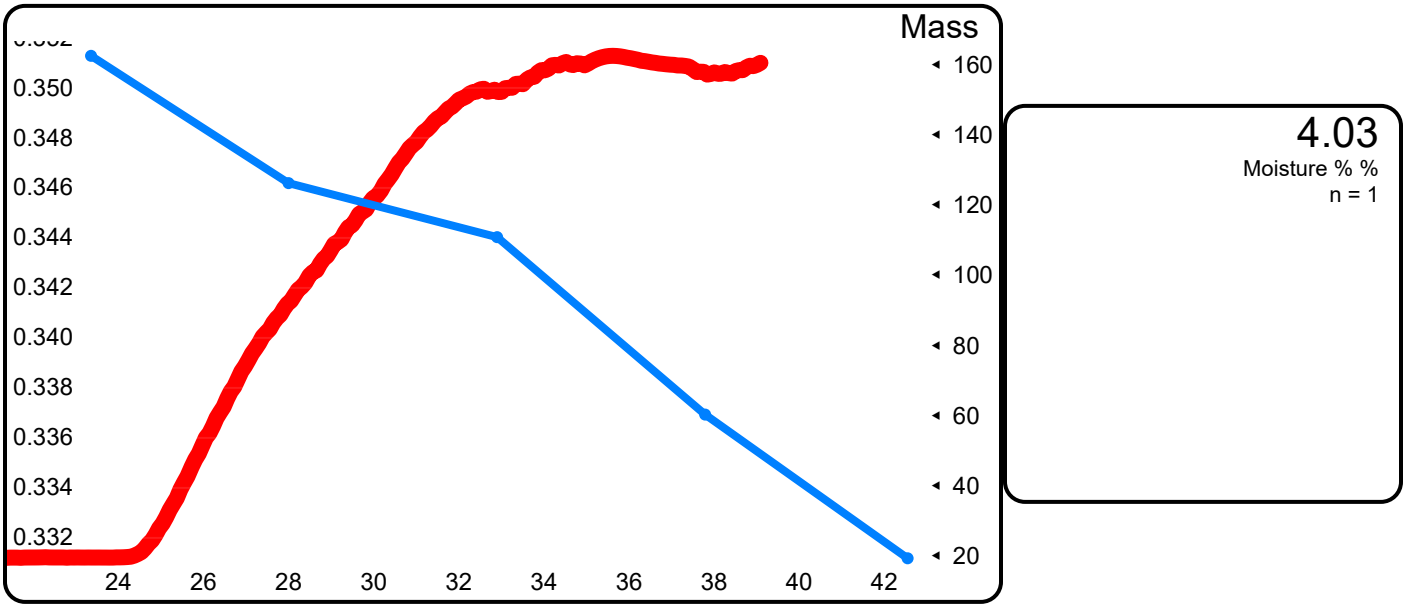
Overview

- Name: 580-144957-a-5
- Method: STANDARD
- Analysis Date: 10/21/2024 4:03:48 PM

Replicates

Initial Mass	Analysis Duration
0.3511 g	14:06 mm:ss

Set Plots



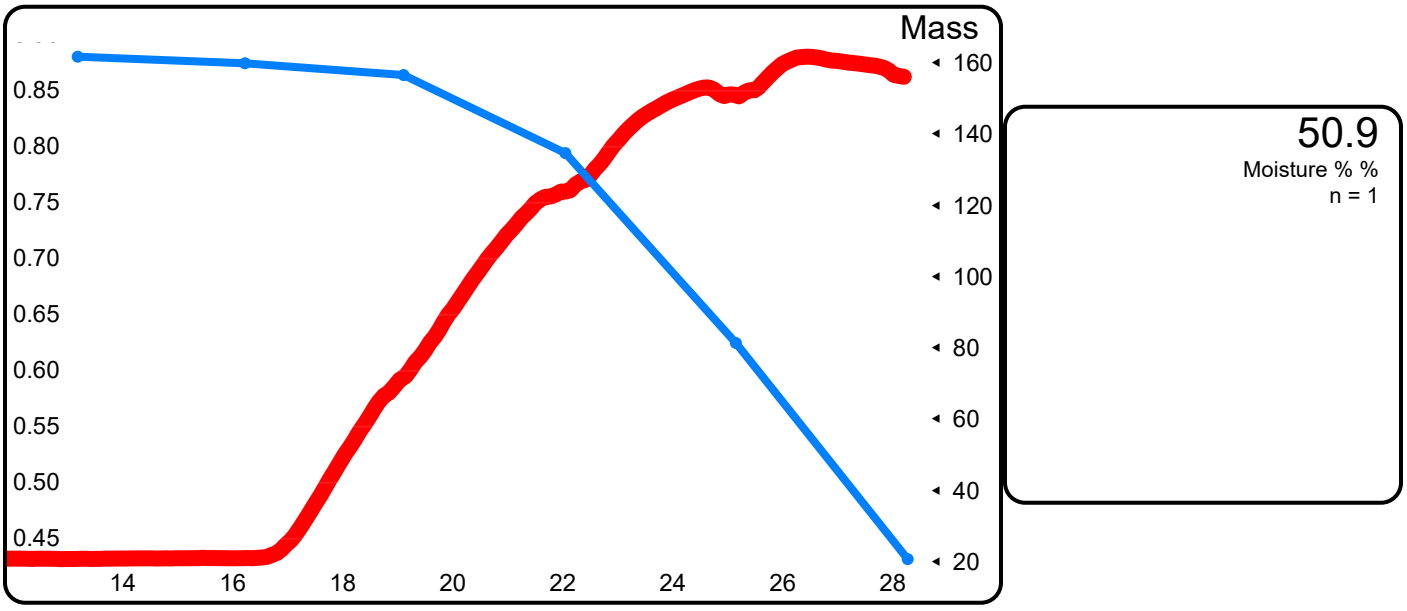
Overview

- Name: 580-144975-a-6
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.8815 g	12:19 mm:ss

Set Plots



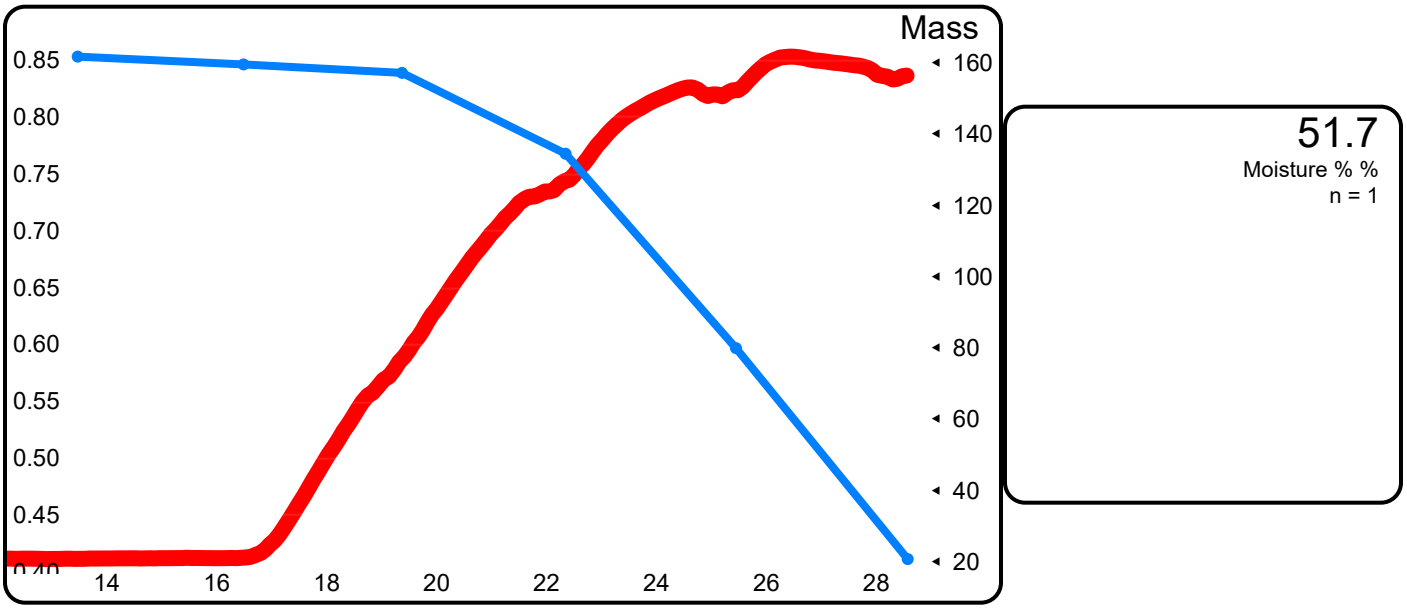
Overview

- Name: DU 580-144975-a-6
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.8543 g	12:37 mm:ss

Set Plots



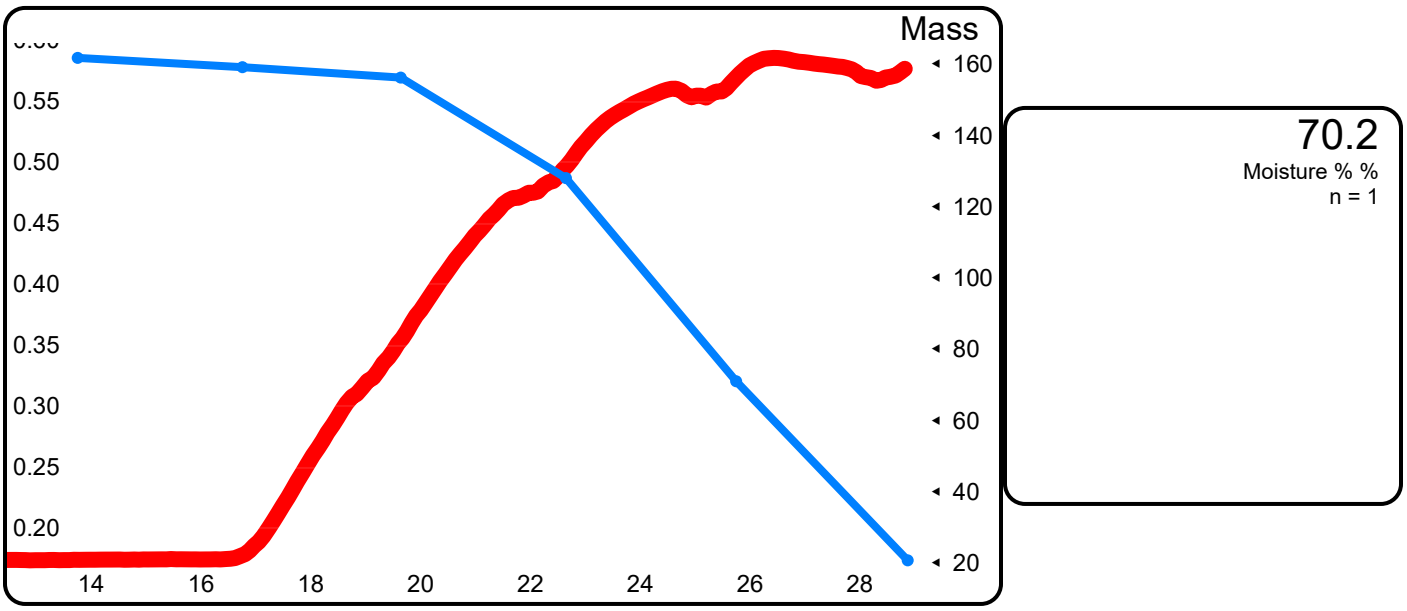
Overview

- Name: 580-144975-a-7
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.5862 g	12:55 mm:ss

Set Plots



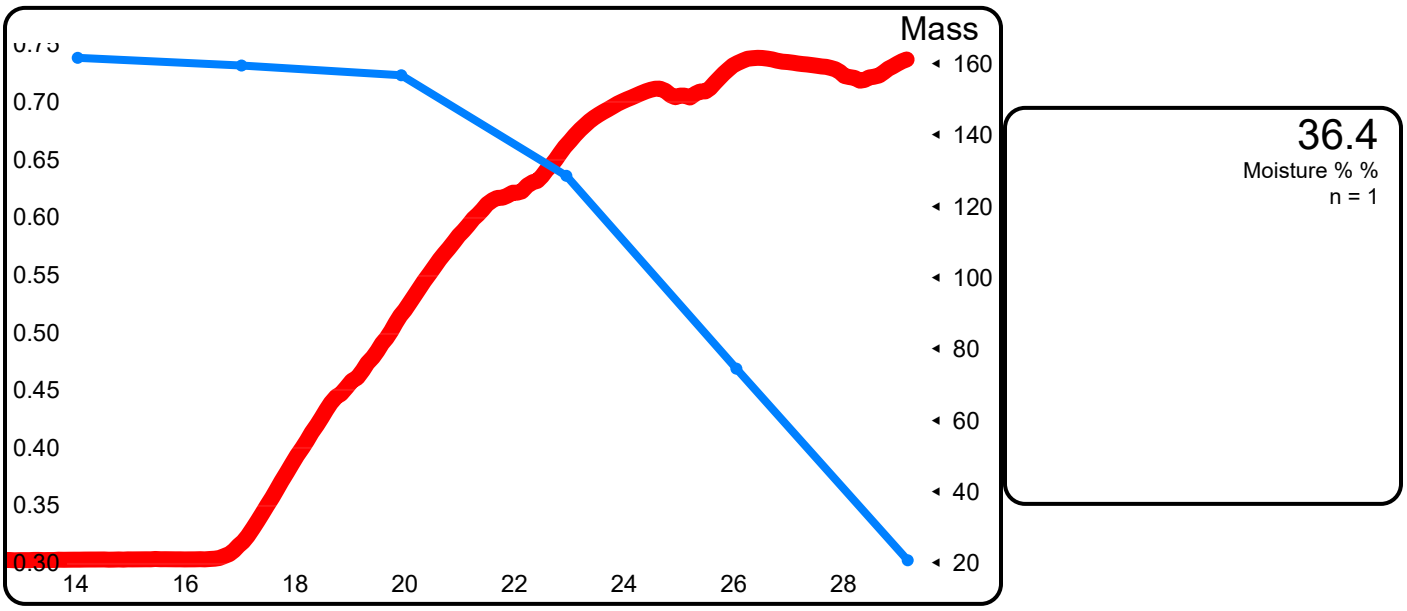
Overview

- Name: 580-144975-a-8
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.7396 g	10:05 mm:ss

Set Plots



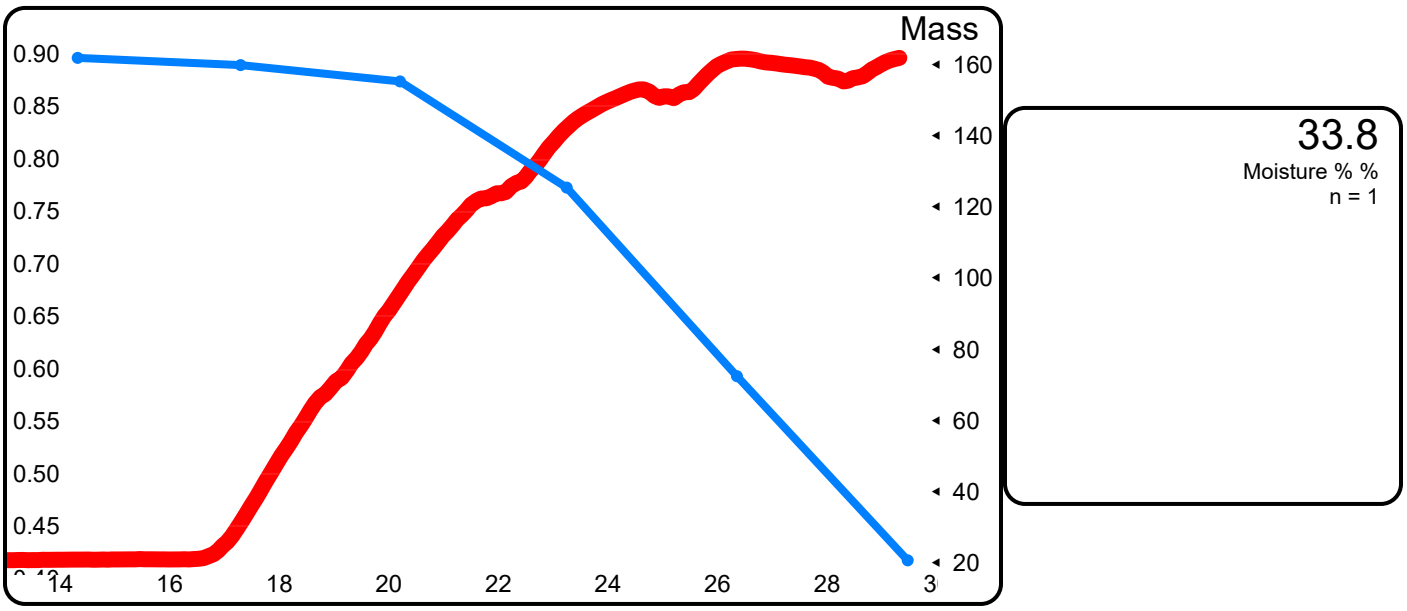
Overview

- Name: 580-144975-a-9
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.8976 g	10:24 mm:ss

Set Plots



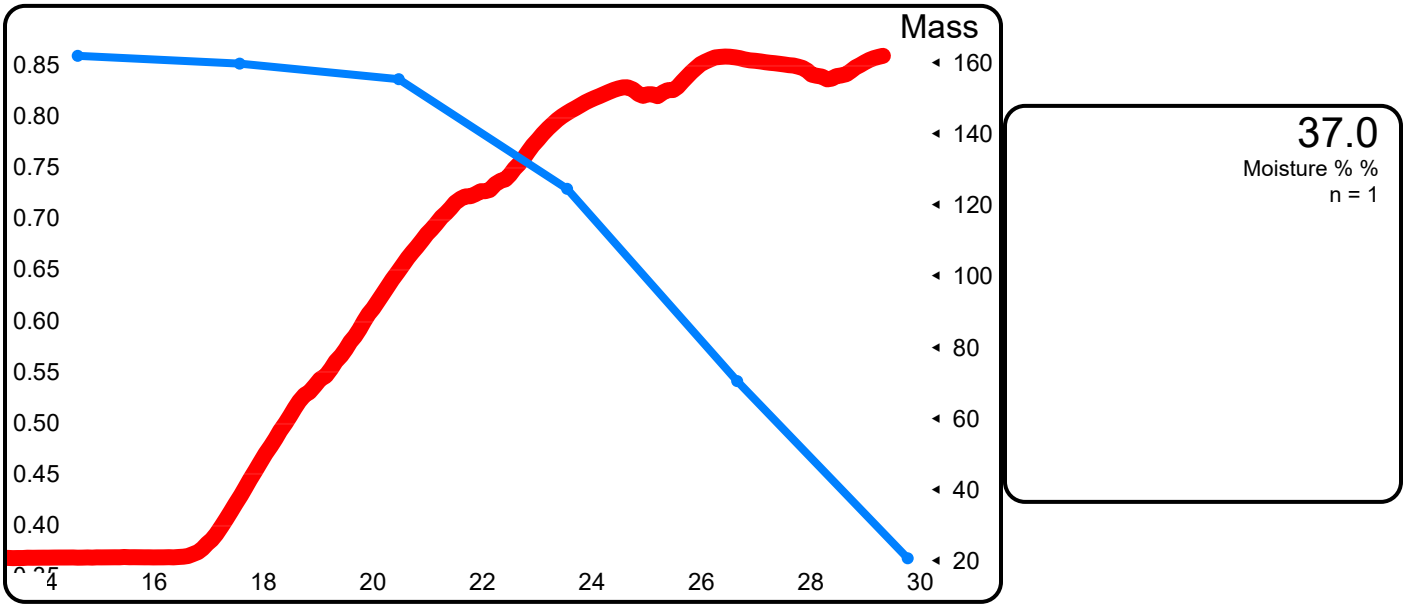
Overview

- Name: 580-144975-a-10
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.8609 g	10:42 mm:ss

Set Plots



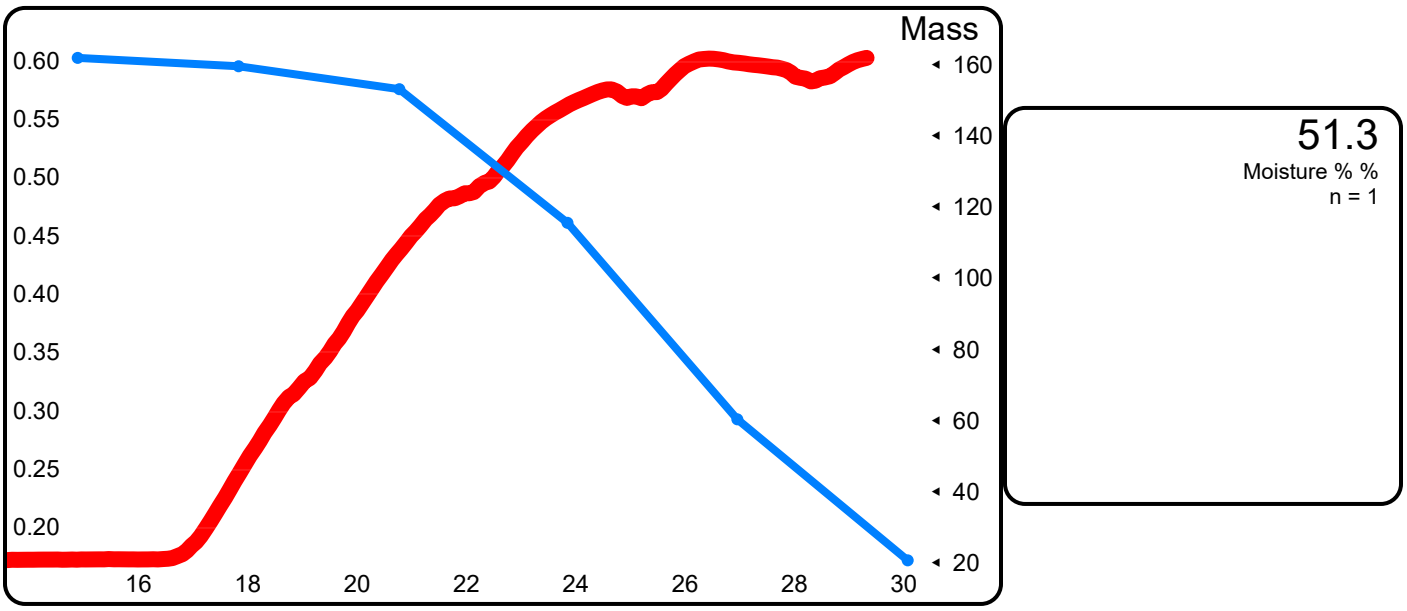
Overview

- Name: 580-144975-a-11
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.6039 g	11:00 mm:ss

Set Plots



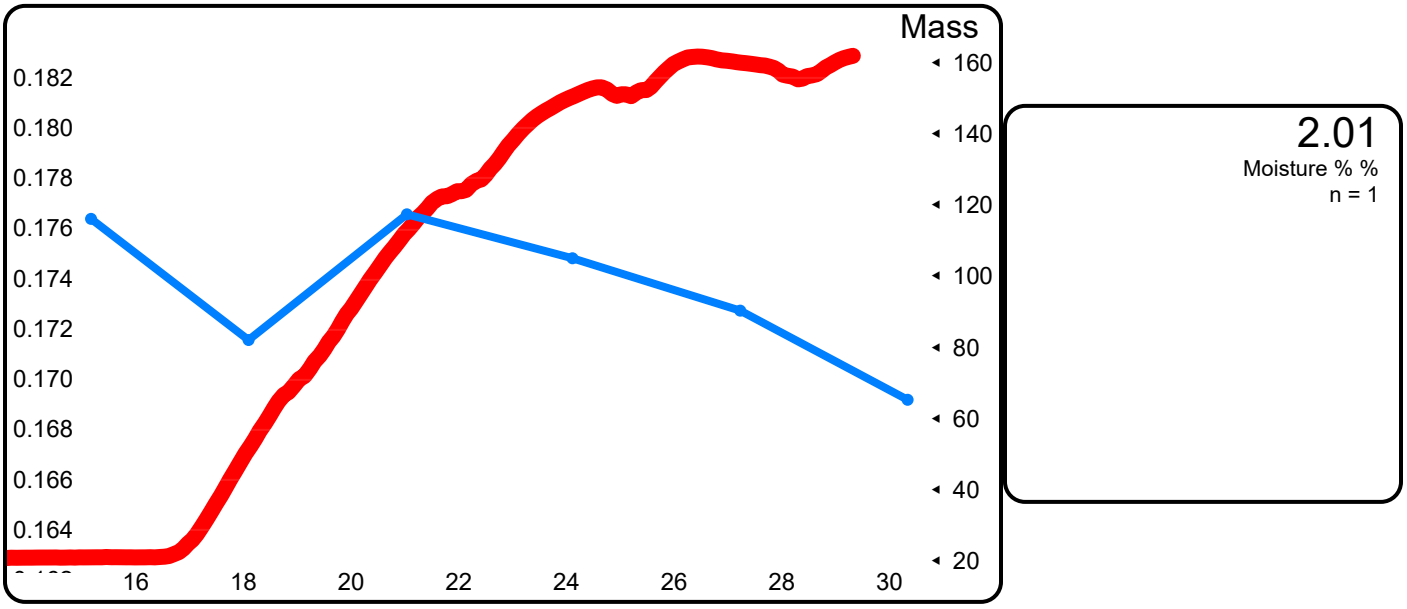
Overview

- Name: 580-144957-a-6
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.1763 g	11:16 mm:ss

Set Plots



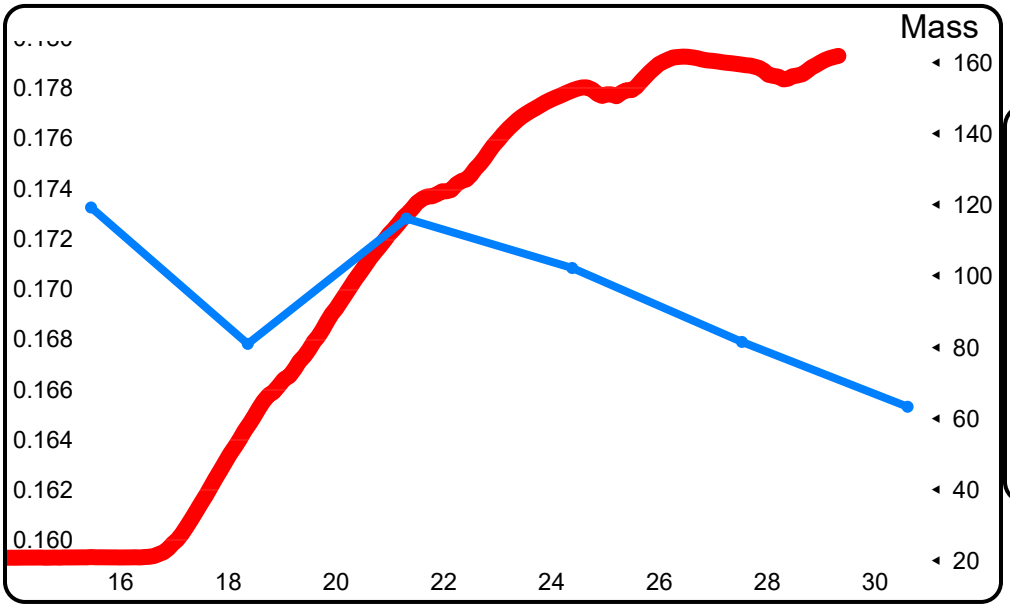
Overview

- Name: 580-144957-a-7
- Method: STANDARD
- Analysis Date: 10/21/2024 5:45:28 PM

Replicates

Initial Mass	Analysis Duration
0.1732 g	11:34 mm:ss

Set Plots



3.03
Moisture % %
n = 1

Shipping and Receiving Documents

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Robert Melrose	Lab PM: Schick, Laura	Carrier Tracking No(s):	COC No: 001
Client Contact: Julie Dahl	Phone: 907-355-0132	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin: Alaska	Page: 1of 1
Company: TALCES JV, LLC	PWSID:			Job #:
Address: 2710 Wesleyan Drive	Due Date Requested:			Preservation Codes: N - None
City: Anchorage	TAT Requested (days): 5 DAY TAT Rush: ~~24hr prelim results~~			
State, Zip: AK, 99508	Compliance Project: Δ Yes Δ No			
Phone: 907-830-8360	PO #: Purchase Order Requested			
Email: jdahl@alaskapeninsulacorp.com	WO #:			
Project Name: Ralston Island RI	Project #: 697DCK-24-C-00040			Other:
Site: SP9 & Background	SSOW#:			

Analysis Requested

Sample Identification	Location ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture	AK102 - DRO	AK102 - DRO with Silica Gel Cleanup	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	N		
RIR24SS219SPØ2		10/17/24	1000	G	S			✓	✓	✓	1	
RIR24SS219SPØ24		10/17/24	~~1002~~ 1006	G	S			✓	✓	✓	1	
RIR24SS220SPØ2		10/17/24	1030	G	S			✓	✓	✓	1	
RIR24SS221SPØ3		10/17/24	1100	G	S			✓	✓	✓	1	
RIR24SS222SPØ3		10/17/24	1130	G	S			✓	✓	✓	1	
RIR24SS223SPØ3.5		10/17/24	1200	G	S			✓	✓	✓	1	
RIR24SS224SPØ4.5		10/17/24	1230	G	S			✓	✓	✓	1	
RIR24SS225BKGØ2		10/17/24	1300	G	S			✓	✓	✓	1	
RIR24SS226BKGØ4.5		10/17/24	1302	G	S			✓	✓	✓	1	
RIR24SS227BKGØ1.5		10/17/24	1330	G	S			✓	✓	✓	3	MS/MSD
RIR24SS228BKGØ3.5		10/17/24	1332	G	S			✓	✓	✓	1	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II Report

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert Melrose, R.	10/18/24 1400	TALCES	James Mealpine	10/18/24 1400	EET
Relinquished by: James Mealpine	Date/Time: 10/18/24 1520	Company EET	Received by:	Date/Time: 0935 10/19/24	Company EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: AKIR3 1.1/1.4/LgRed/CL) Inone/bice

AB 2.8/2.4

Ver: 05/06/2024

580-144975 Chain of Custody

Revised COC James McAlpine 10/18/24

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Robert Melrose	Lab PM: Schick, Laura	Carrier Tracking No(s):	COC No:
Client Contact: Julie Dahl	Phone: 907-355-0132	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin: Alaska	Page:
Company: TALCES JV, LLC	PWSID:	Analysis Requested		Job #:
Address: 2710 Wesleyan Drive	Due Date Requested:			Preservation Codes: N - None
City: Anchorage	TAT Requested (days): Rush: 5-day prelim results			
State, Zip: AK, 99508	Compliance Project: Δ Yes Δ No			
Phone: 907-830-8360	PO #: Purchase Order Requested			
Email: jdahl@alaskapeninsulacorp.com	WO #:			Other:
Project Name: Ralston Island RI	Project #: 697DCK-24-C-00040			
Site: SP9 & Background	SSOW#:			

Sample Identification	Location ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture	AK102 - DRO	AK102 - DRO with Silica Gel Cleanup	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	N		
RIR24SS219SP902	SP9	10/17/24	1000	G	S			X	X	X	1	
RIR24SS219SP9029	SP9	10/17/24	1001	G	S			X	X	X	1	
RIR24SS220SP902	SP9	10/17/24	1030	G	S			X	X	X	1	
RIR24SS221SP903	SP9	10/17/24	1100	G	S			X	X	X	1	
RIR24SS222SP903	SP9	10/17/24	1130	G	S			X	X	X	1	
RIR24SS223SP903.5	SP9	10/17/24	1200	G	S			X	X	X	1	
RIR24SS224SP904.5	SP9	10/17/24	1230	G	S			X	X	X	1	
RIR24SS225BKG02	BKG	10/17/24	1300	G	S			X	X	X	1	
RIR24SS226BKG04.5	BKG	10/17/24	1302	G	S			X	X	X	1	
RIR24SS227BKG01.5	BKG	10/17/24	1330	G	S		Y	X	X	X	3	MS/MSD
RIR24SS228BKG03.5	BKG	10/17/24	1332	G	S			X	X	X	1	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II Report

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Cooler ID No. Cooler #5M1 TAL Work Order _____

COOLER RECEIPT FORM

Project Ralston Island RI

Cooler received on 10/18/24 and opened on 10/18/24 by James Mcalpine

(signature)

Temperature upon receipt:

Cooler: Corr 4.3 (5M) °C, Uncorr 4.1 °C Therm ID: AKIR3

Temp. Blank: Corr 1.4 °C, Uncorr 1.1 °C Therm ID: AKIR3

1.	Were custody seals on outside of cooler and intact? a. If yes, how many and where: no b. Were signature and date correct?	YES (NO)
2.	Were custody papers taped to lid inside cooler?	YES (NO)
3.	Were custody papers properly filled out(ink, signed, etc)?	(YES) NO
4.	Did you sign custody papers in the appropriate place?	(YES) NO
5.	Did you attach shipper's packing slip to this form?	(YES) NO
6.	What kind of packing material was used? none	
7.	Was sufficient ice used?	(YES) NO
8.	Were all bottles sealed in separate plastic bags?	YES (NO)
9.	Did all bottles arrive in good condition (unbroken)?	(YES) NO
10.	Were all bottle labels complete (no., date, signed, pres, etc)?	(YES) NO
11.	Did all bottle labels and tags agree with custody papers?	(YES) NO
12.	Were correct bottles used for the test indicated?	(YES) NO
13.	If present, were voa vials checked for absence of airbubbles and noted if found? N/A	~~YES NO~~
14.	Adequate volume of voa vials received per sample? N/A	~~YES NO~~
15.	Was sufficient amount of sample sent in each bottle?	(YES) NO
16.	Were correct preservatives used?	(YES) NO
17.	Were extra labels added to pre-tared containers? N/A	~~YES NO~~
18.	Corrective action taken, if necessary: a. Name of person contacted: N/A b. Date: _____	

10/15/10

Alaska AIR CARGO

DELIVERY SLIP

Station : SEA

AWB	HAWB	Origin	Std Pcs/Wt	SCC	Shipment Des	Consignee	Clearing Agent	Customs Ref.Numb	ULD	Dlv.Pc	Dlv.Wt.	DN Details
27-34561774		ANC	1/33	COL,NON,SPX	SOIL SAMPLES	EUROFINS ENVIRONMENT TESTING NORTHWEST				1	33.00	DN71485(1/33L)

bove consignment(s) received in full and apparent good order and condition except as noted in the remarks section

Delivered By : 1079427 _____ (Signature)

Delivered To : ASSAAD ALSEMAAN _____ (Signature)

Delivered Date/Ti : 19-Oct-2024 09:03:00

Remarks :

Vehicle Number :

Contact Address :

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Robert Melrose	Lab PM: Schick, Laura	Carrier Tracking No(s):	COC No: 001
Client Contact: Julie Dahl	Phone: 907-355-0132	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin: Alaska	Page: 1of 1
Company: TALCES JV, LLC	PWSID:			Job #:
Address: 2710 Wesleyan Drive	Due Date Requested:			Preservation Codes: N - None
City: Anchorage	TAT Requested (days): 5 DAY TAT Rush: ~~24hr prelim results~~			
State, Zip: AK, 99508	Compliance Project: Δ Yes Δ No			
Phone: 907-830-8360	PO #: Purchase Order Requested			
Email: jdahl@alaskapeninsulacorp.com	WO #:			
Project Name: Ralston Island RI	Project #: 697DCK-24-C-00040			Other:
Site: SP9 & Background	SSOW#:			

Analysis Requested

Sample Identification / Location ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD	Moisture	AK102 - DRO	AK102 - DRO with Silica Gel Cleanup	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
RIR24SS219 SPØ2	10/17/24	1000	G	S			✓	✓	✓	1	
RIR24SS219 SPØ24	10/17/24	~~1002~~ 1006	G	S			✓	✓	✓	1	
RIR24SS220SPØ2	10/17/24	1030	G	S			✓	✓	✓	1	
RIR24SS 221 SPØ3	10/17/24	1100	G	S			✓	✓	✓	1	
RIR24SS 222SPØ3	10/17/24	1130	G	S			✓	✓	✓	1	
RIR24SS 223SPØ3.5	10/17/24	1200	G	S			✓	✓	✓	1	
RIR24SS 224SPØ4.5	10/17/24	1230	G	S			✓	✓	✓	1	
RIR24SS225BKGØ2	10/17/24	1300	G	S			✓	✓	✓	1	
RIR24SS226BKGØ4.5	10/17/24	1302	G	S			✓	✓	✓	1	
RIR24SS227BKGØ1.5	10/17/24	1330	G	S			✓	✓	✓	3	MS/MSD
RIR24SS228BKGØ3.5	10/17/24	1332	G	S			✓	✓	✓	1	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II Report

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Robert Melrose, R.	10/18/24 1400	TALCES	James Mealpine	10/18/24 1401	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
James Mealpine	10/18/24 1520	EET		0935 10/19/24	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: AKIR3 1.1/1.4/6gRed/CD Inner blue

A3 2.8/2.4

Ver: 05/06/2024

Cooler ID No. Cooler #5M1 TAL Work Order _____

COOLER RECEIPT FORM

Project Ralston Island RI

Cooler received on 10/18/24 and opened on 10/18/24 by James Mcalpine

(signature)

Temperature upon receipt:

Cooler: Corr 4.3 (5M) °C, Uncorr 4.1 °C Therm ID: AKIR3

Temp. Blank: Corr 1.4 °C, Uncorr 1.1 °C Therm ID: AKIR3

1. Were custody seals on outside of cooler and intact? YES (NO)
   a. If yes, how many and where: no
   b. Were signature and date correct?
2. Were custody papers taped to lid inside cooler? YES (NO)
3. Were custody papers properly filled out(ink, signed, etc)? (YES) NO
4. Did you sign custody papers in the appropriate place? (YES) NO
5. Did you attach shipper's packing slip to this form? (YES) NO
6. What kind of packing material was used? none
7. Was sufficient ice used? (YES) NO
8. Were all bottles sealed in separate plastic bags? YES (NO)
9. Did all bottles arrive in good condition (unbroken)? (YES) NO
10. Were all bottle labels complete (no., date, signed, pres, etc)? (YES) NO
11. Did all bottle labels and tags agree with custody papers? (YES) NO
12. Were correct bottles used for the test indicated? (YES) NO
13. If present, were voa vials checked for absence of airbubbles and noted if found? N/A ~~YES NO~~
14. Adequate volume of voa vials received per sample? N/A ~~YES NO~~
15. Was sufficient amount of sample sent in each bottle? (YES) NO
16. Were correct preservatives used? (YES) NO
17. Were extra labels added to pre-tared containers? N/A ~~YES NO~~
18. Corrective action taken, if necessary:
    a. Name of person contacted: N/A
    b. Date: _____

10/15/10

Alaska AIR CARGO

DELIVERY SLIP

Station : SEA

AWB	HAWB	Origin	Std Pcs/Wt	SCC	Shipment Des	Consignee	Clearing Agent	Customs Ref.Numb	ULD	Dlv.Pc	Dlv.Wt.	DN Details
27-34561774		ANC	1/33	COL,NON,SPX	SOIL SAMPLES	EUROFINS ENVIRONMENT TESTING NORTHWEST				1	33.00	DN71485(1/33L)

bove consignment(s) received in full and apparent good order and condition except as noted in the remarks section

Delivered By : 1079427 _____ (Signature)

Delivered To : ASSAAD ALSEMAAN _____ (Signature)

Delivered Date/Ti : 19-Oct-2024 09:03:00

Remarks :

Vehicle Number :

Contact Address :

Revised COC James McAlpine 10/18/24

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Robert Melrose	Lab PM: Schick, Laura	Carrier Tracking No(s):	COC No:
Client Contact: Julie Dahl	Phone: 907-355-0132	E-Mail: Laura.Schick@et.eurofinsus.com	State of Origin: Alaska	Page:
Company: TALCES JV, LLC	PWSID:			Job #:
Address: 2710 Wesleyan Drive	Due Date Requested:			
City: Anchorage	TAT Requested (days): Rush: 5-day prelim results			
State, Zip: AK, 99508	Compliance Project: Δ Yes Δ No			
Phone: 907-830-8360	PO #: Purchase Order Requested			
Email: jdahl@alaskapeninsulacorp.com	WO #:			
Project Name: Ralston Island RI	Project #: 697DCK-24-C-00040			
Site: SP9 & Background	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Location ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture	AK102 - DRO	AK102 - DRO with Silica Gel Cleanup	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	N		
RIR24SS219SP902	SP9	10/17/24	1000	G	S			X	X	X	1	
RIR24SS219SP9029	SP9	10/17/24	1001	G	S			X	X	X	1	
RIR24SS220SP902	SP9	10/17/24	1030	G	S			X	X	X	1	
RIR24SS221SP903	SP9	10/17/24	1100	G	S			X	X	X	1	
RIR24SS222SP903	SP9	10/17/24	1130	G	S			X	X	X	1	
RIR24SS223SP903.5	SP9	10/17/24	1200	G	S			X	X	X	1	
RIR24SS224SP904.5	SP9	10/17/24	1230	G	S			X	X	X	1	
RIR24SS225BKG02	BKG	10/17/24	1300	G	S			X	X	X	1	
RIR24SS226BKG04.5	BKG	10/17/24	1302	G	S			X	X	X	1	
RIR24SS227BKG01.5	BKG	10/17/24	1330	G	S		Y	X	X	X	3	MS/MSD
RIR24SS228BKG03.5	BKG	10/17/24	1332	G	S			X	X	X	1	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II Report

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: TALCES JV, LLC

Job Number: 580-144975-1
SDG Number: SP9 & Background

Login Number: 144975
List Number: 1
Creator: Mcalpine, James 1

List Source: Eurofins Seattle

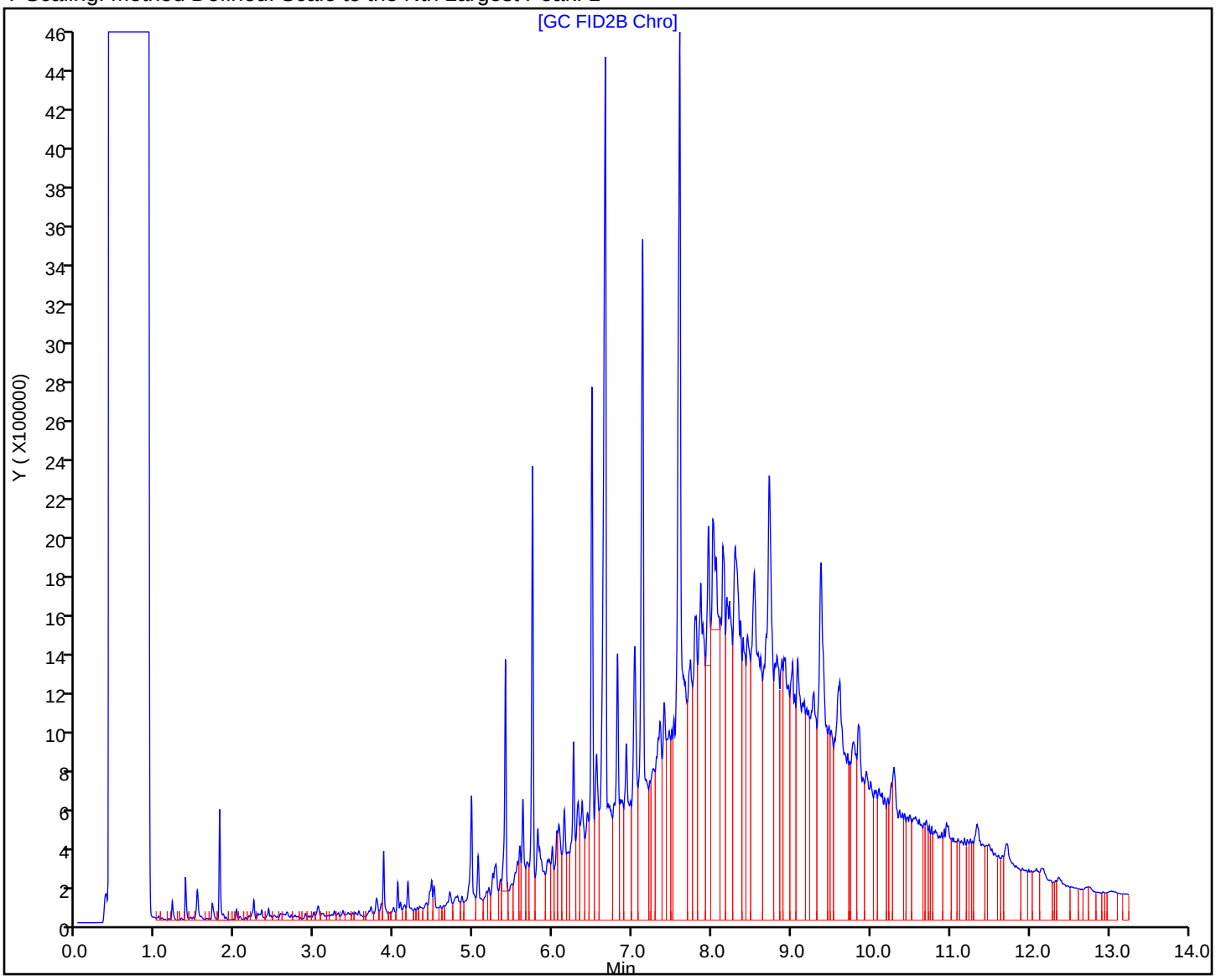
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report Date: 23-Oct-2024 16:55:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a063.D				
Injection Date:	22-Oct-2024 21:51:13	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-1-A	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

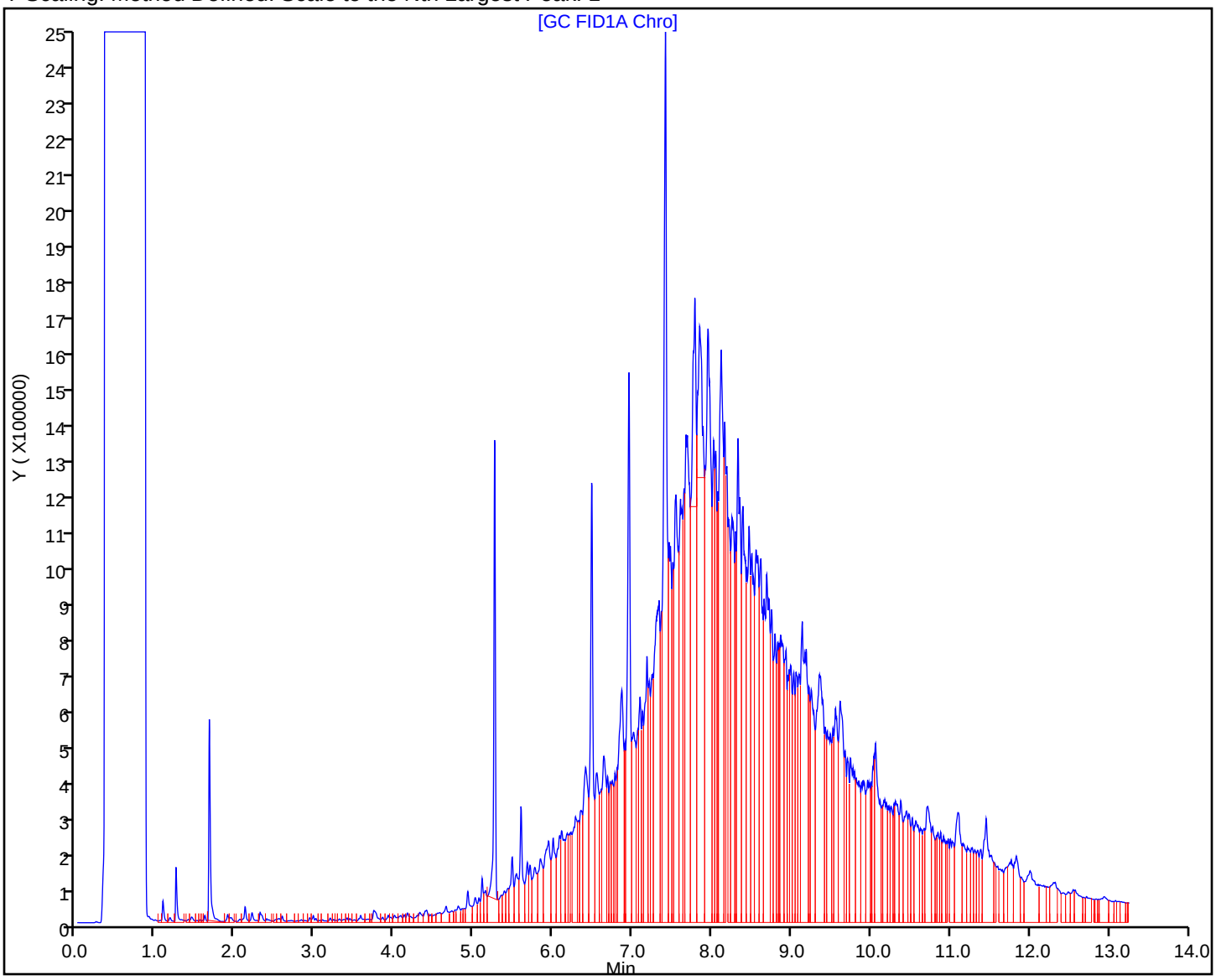


Report Date: 23-Oct-2024 14:57:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a096.D				
Injection Date:	23-Oct-2024 03:10:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-1-B	Lab Sample ID:	580-144975-1		
Client ID:	RIR24SS219SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

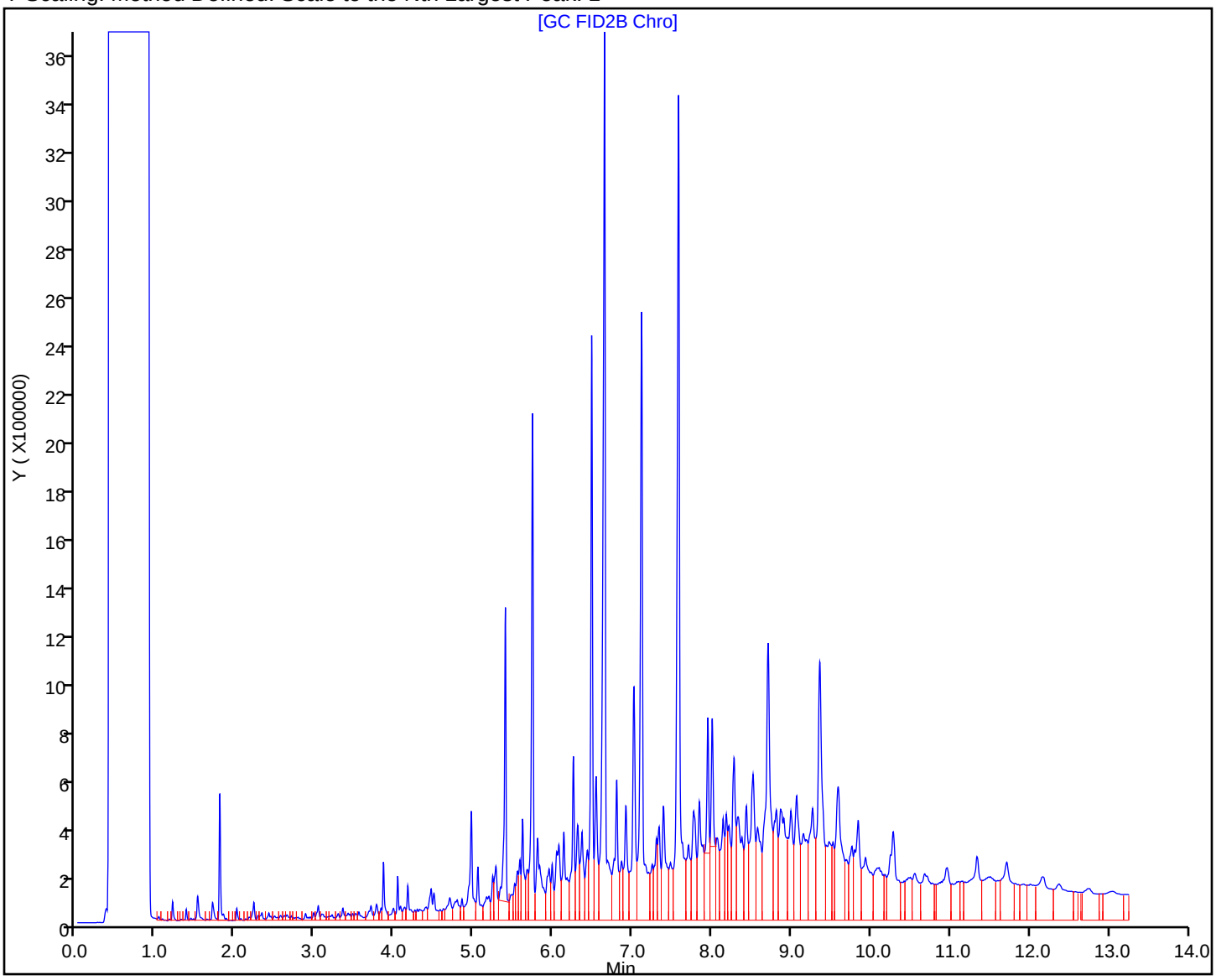


Report Date: 23-Oct-2024 16:55:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a065.D				
Injection Date:	22-Oct-2024 22:11:25	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-2-A	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

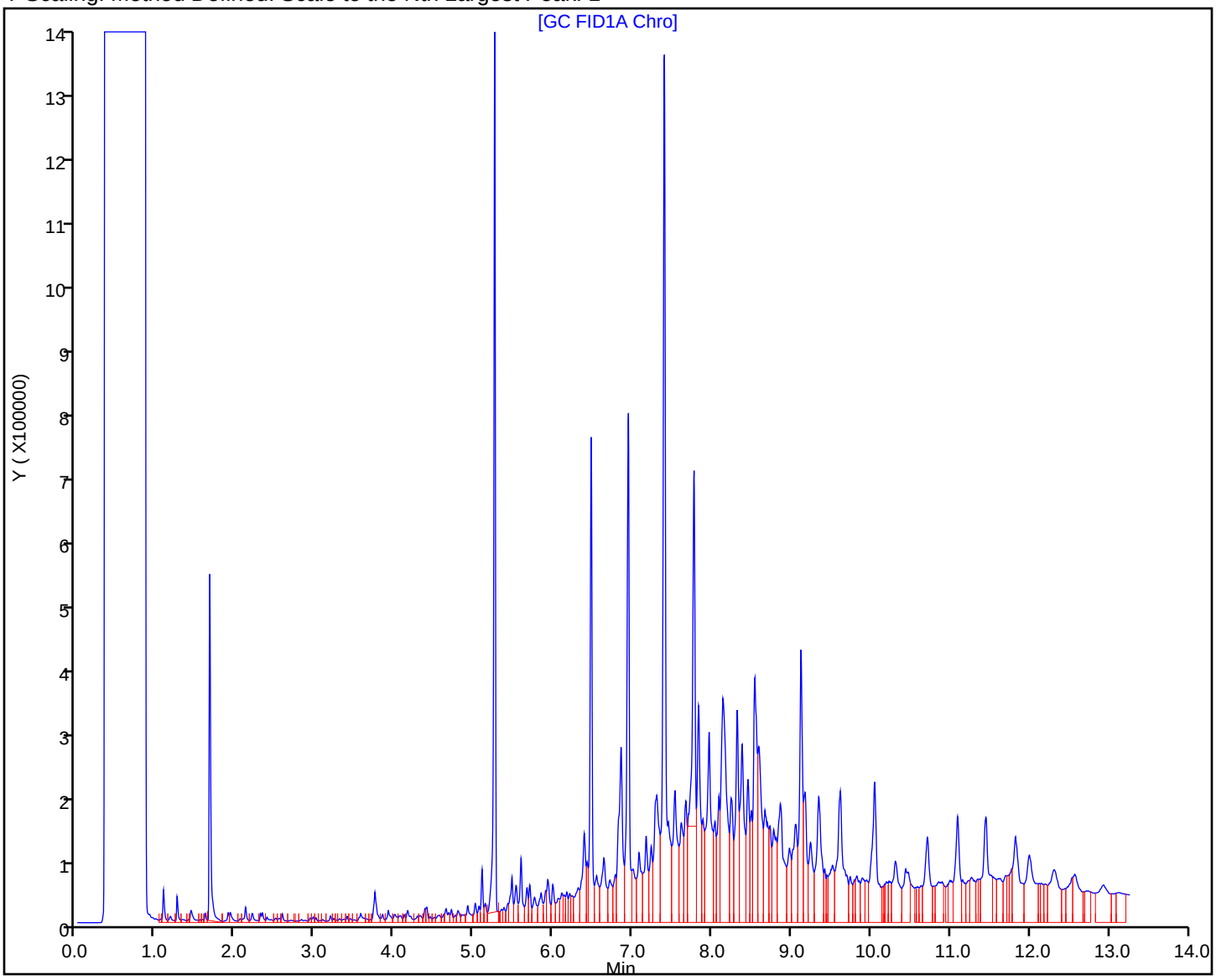


Report Date: 23-Oct-2024 14:57:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a098.D				
Injection Date:	23-Oct-2024 03:30:56	Instrument ID:	TAC129		
Lims ID:	580-144975-A-2-B	Lab Sample ID:	580-144975-2		
Client ID:	RIR24SS219SP9029				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

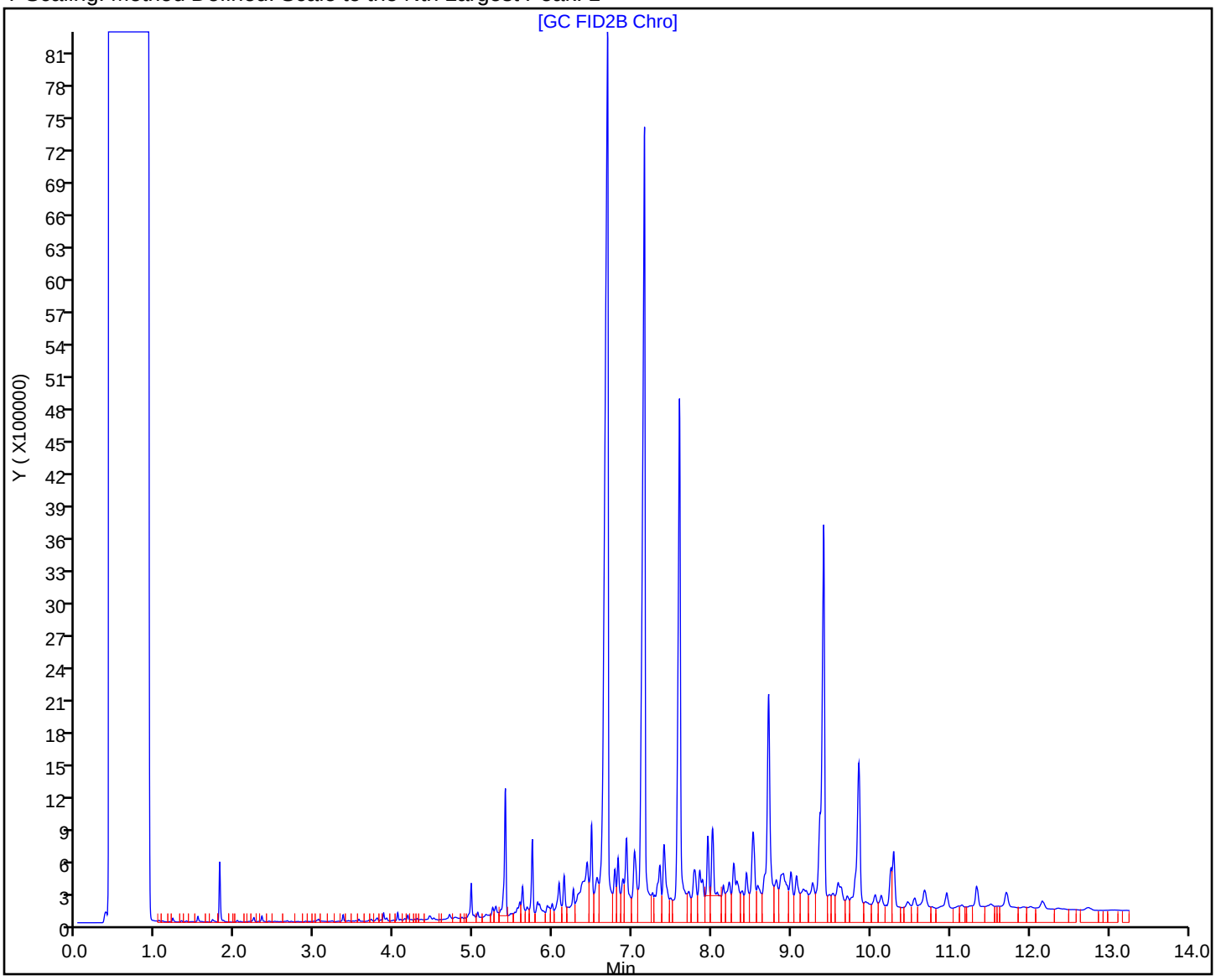


Report Date: 23-Oct-2024 16:55:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a067.D				
Injection Date:	22-Oct-2024 22:31:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-3-A	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

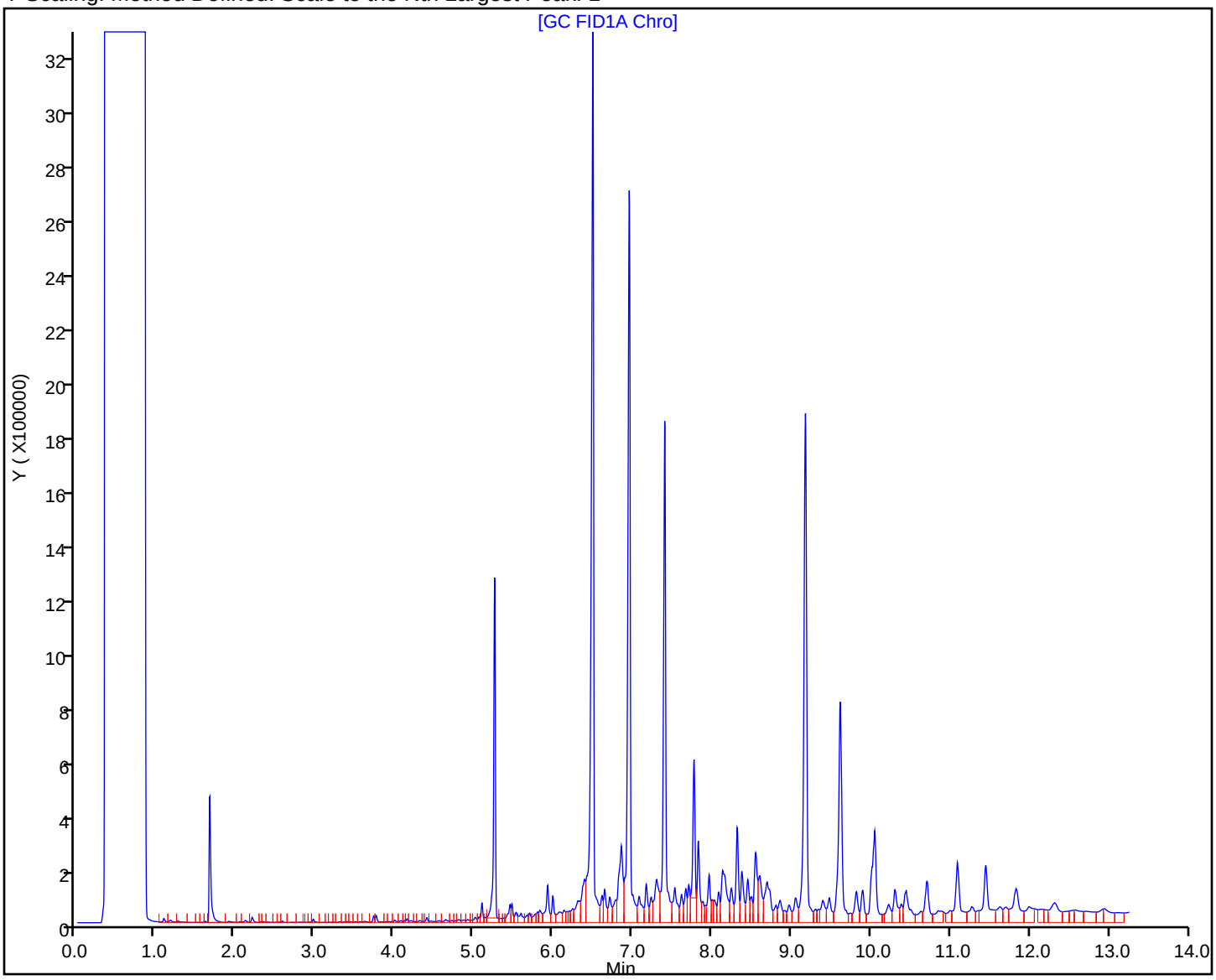


Report Date: 23-Oct-2024 14:57:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a100.D				
Injection Date:	23-Oct-2024 03:50:51	Instrument ID:	TAC129		
Lims ID:	580-144975-A-3-B	Lab Sample ID:	580-144975-3		
Client ID:	RIR24SS220SP902				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

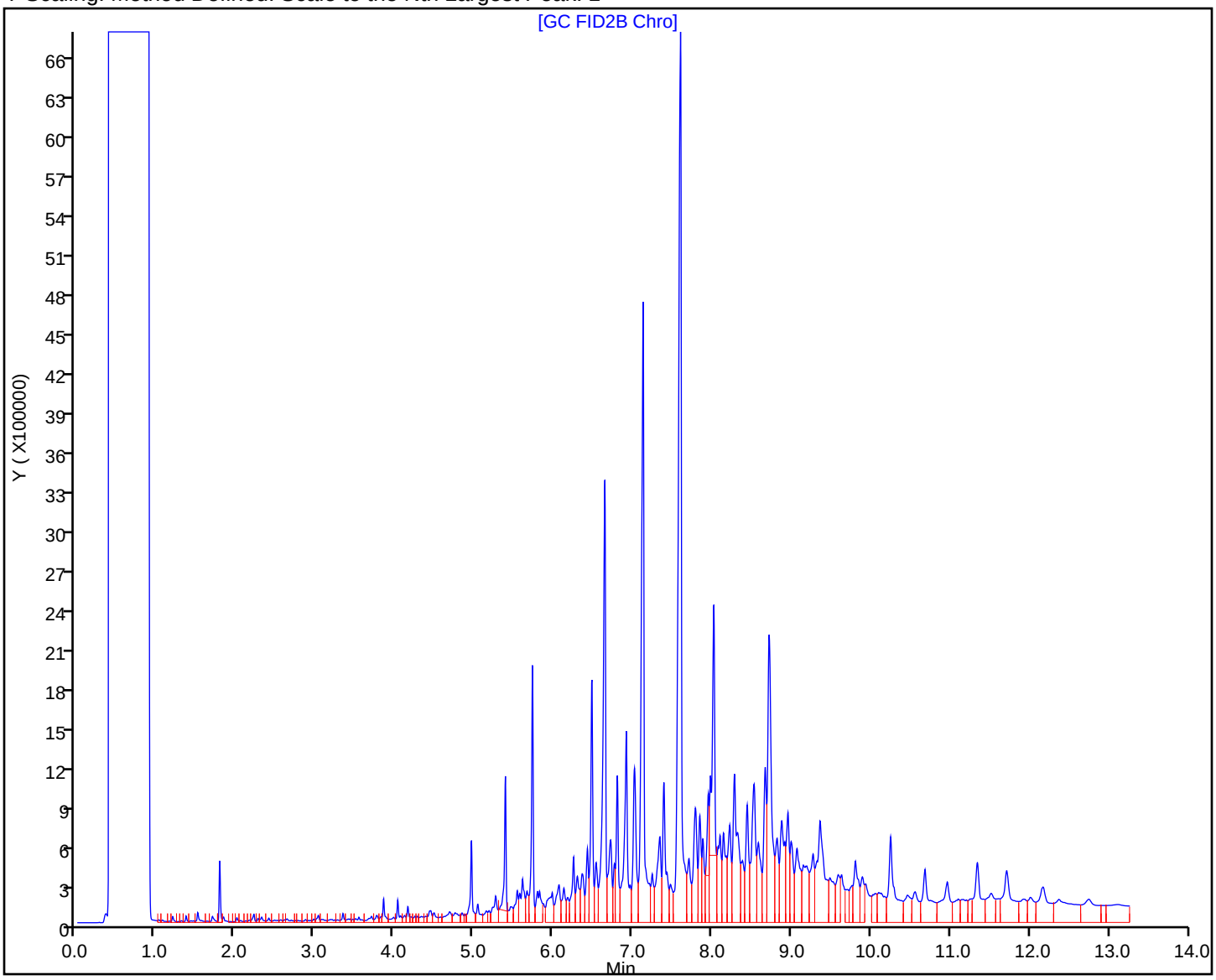


Report Date: 23-Oct-2024 16:55:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a069.D				
Injection Date:	22-Oct-2024 22:51:17	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-4-A	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

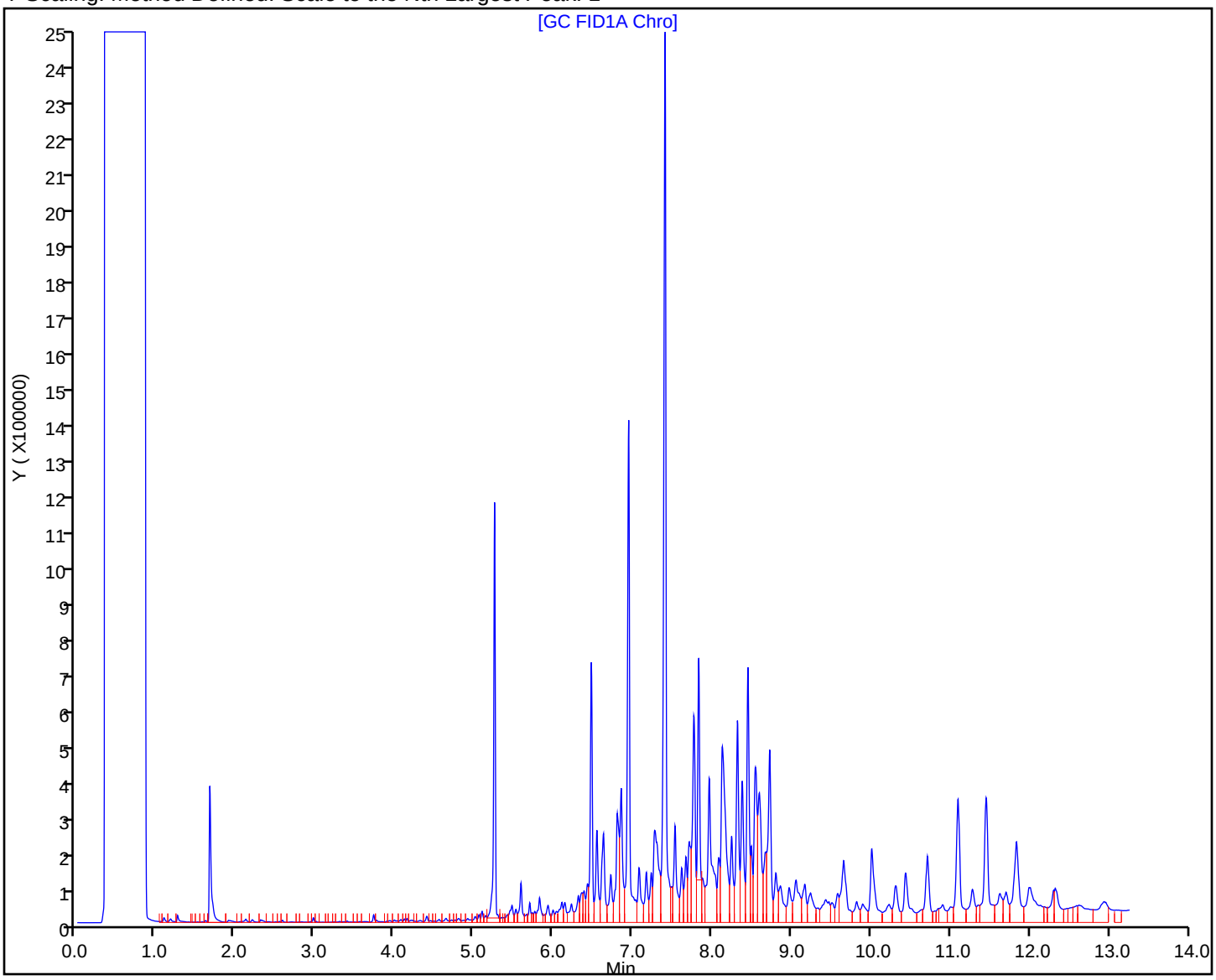


Report Date: 23-Oct-2024 14:57:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a104.D				
Injection Date:	23-Oct-2024 04:30:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-4-B	Lab Sample ID:	580-144975-4		
Client ID:	RIR24SS221SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

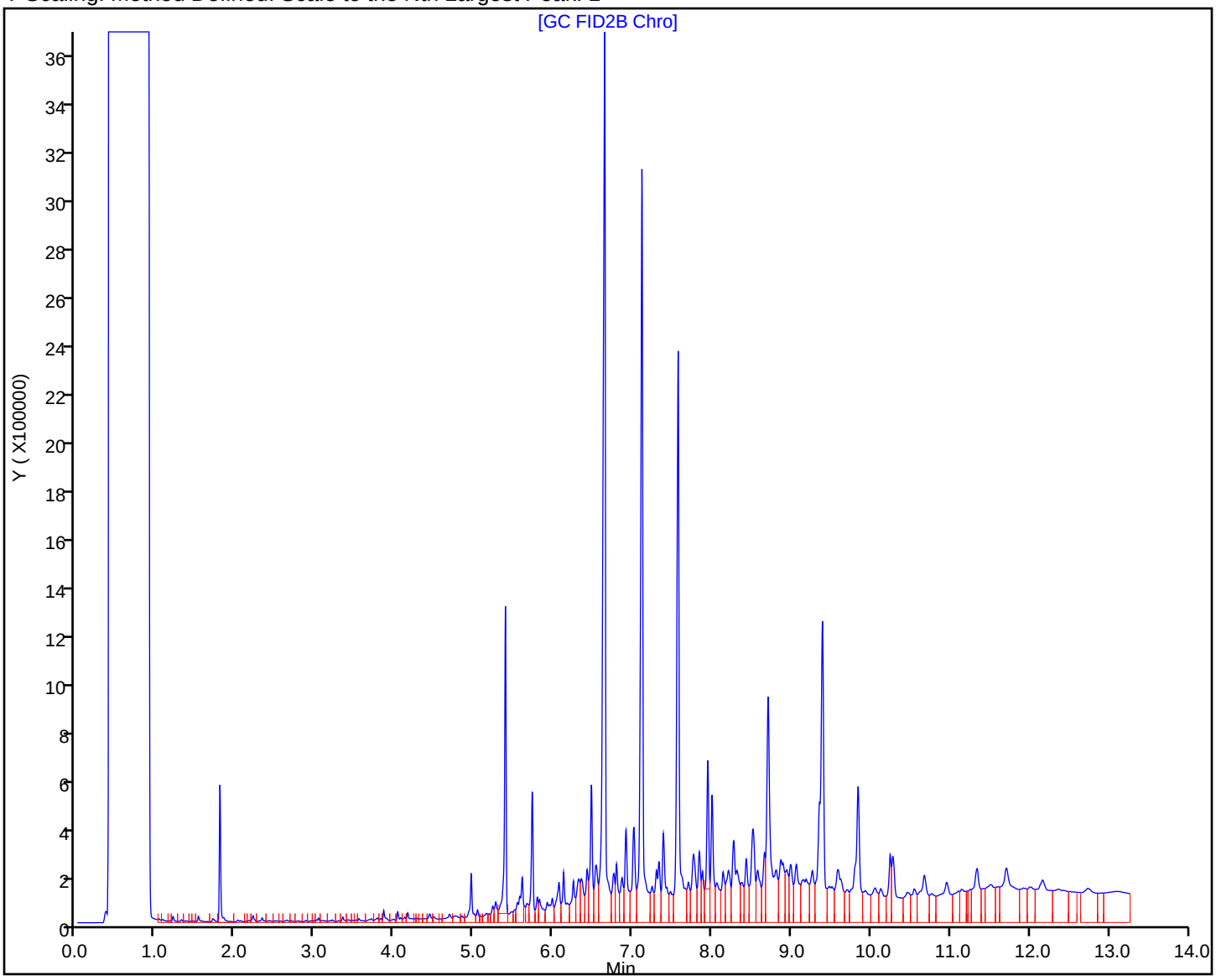


Report Date: 23-Oct-2024 16:55:17 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a071.D				
Injection Date:	22-Oct-2024 23:11:11	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-5-A	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

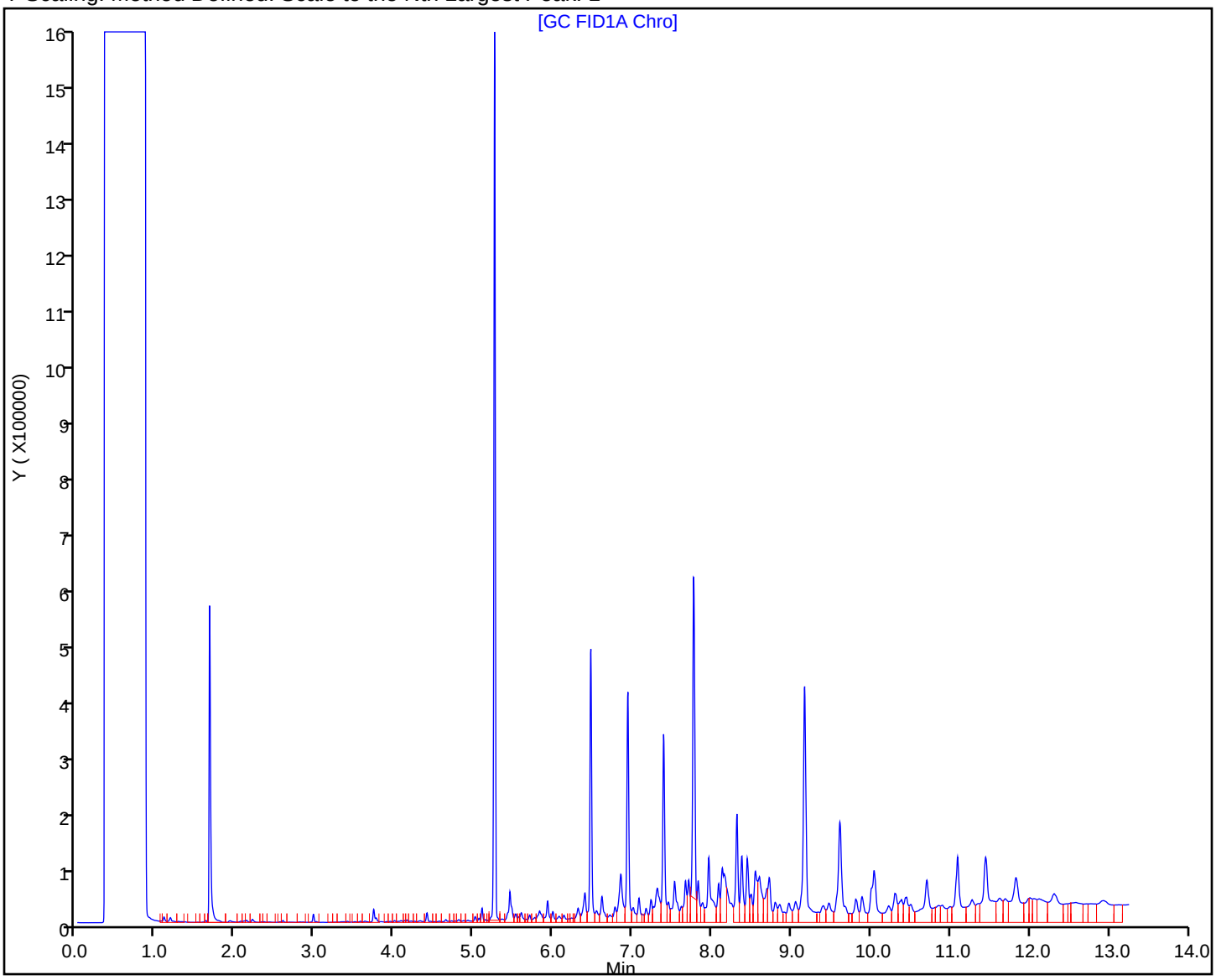


Report Date: 23-Oct-2024 14:57:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a106.D				
Injection Date:	23-Oct-2024 04:50:48	Instrument ID:	TAC129		
Lims ID:	580-144975-A-5-B	Lab Sample ID:	580-144975-5		
Client ID:	RIR24SS222SP903				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

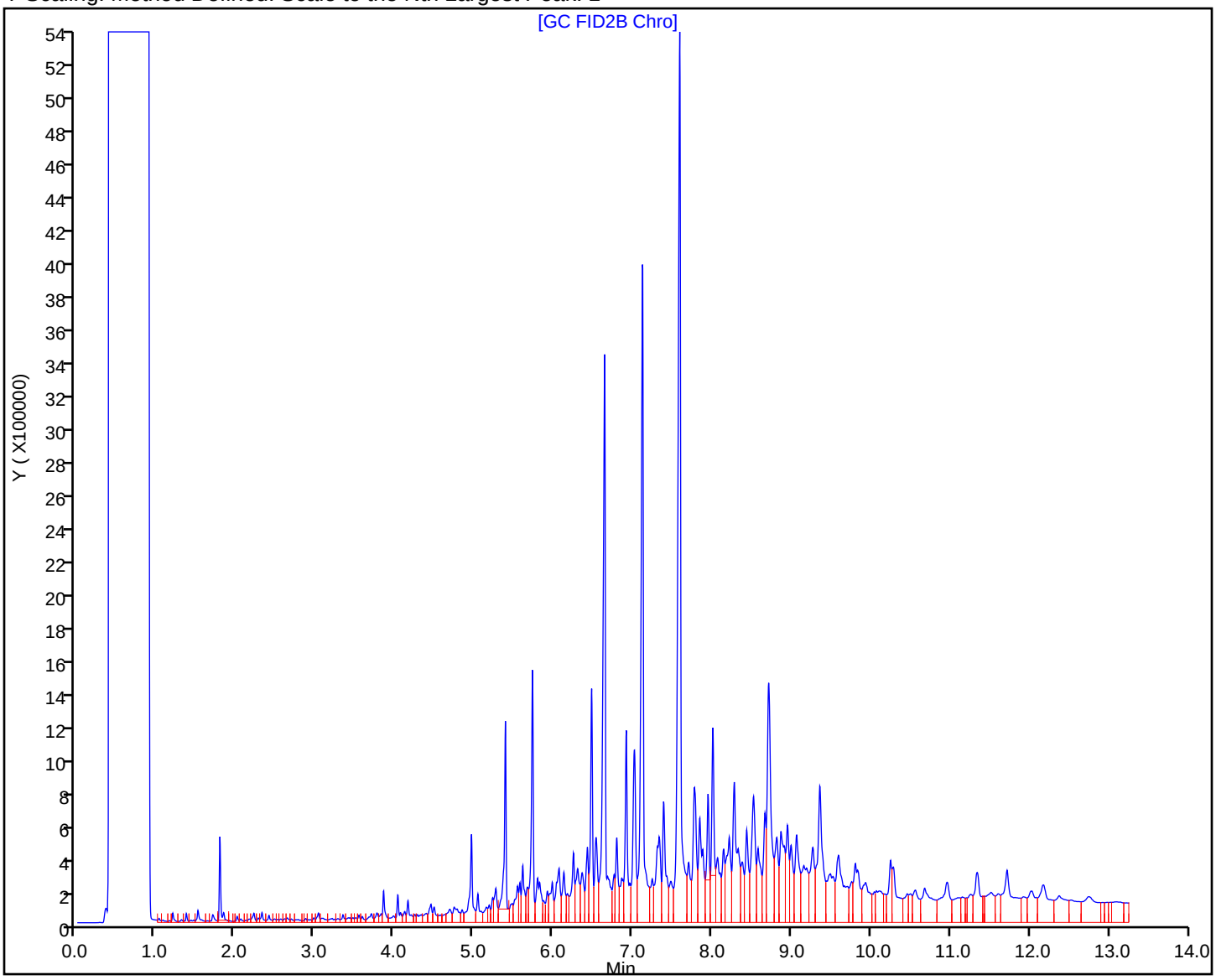


Report Date: 23-Oct-2024 16:55:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a075.D				
Injection Date:	22-Oct-2024 23:51:26	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-6-A	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

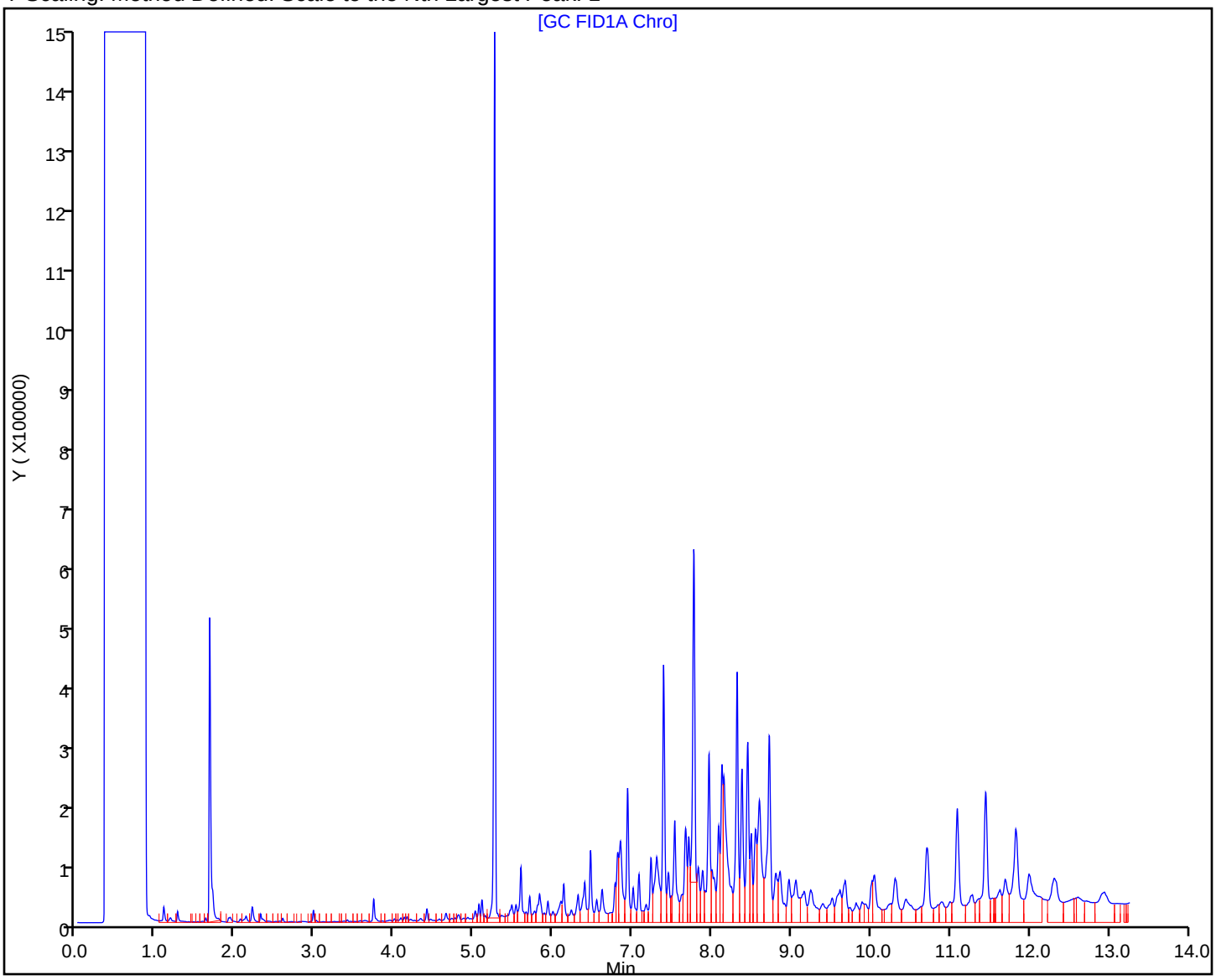


Report Date: 23-Oct-2024 14:57:19 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a108.D				
Injection Date:	23-Oct-2024 05:10:40	Instrument ID:	TAC129		
Lims ID:	580-144975-A-6-B	Lab Sample ID:	580-144975-6		
Client ID:	RIR24SS223SP903.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

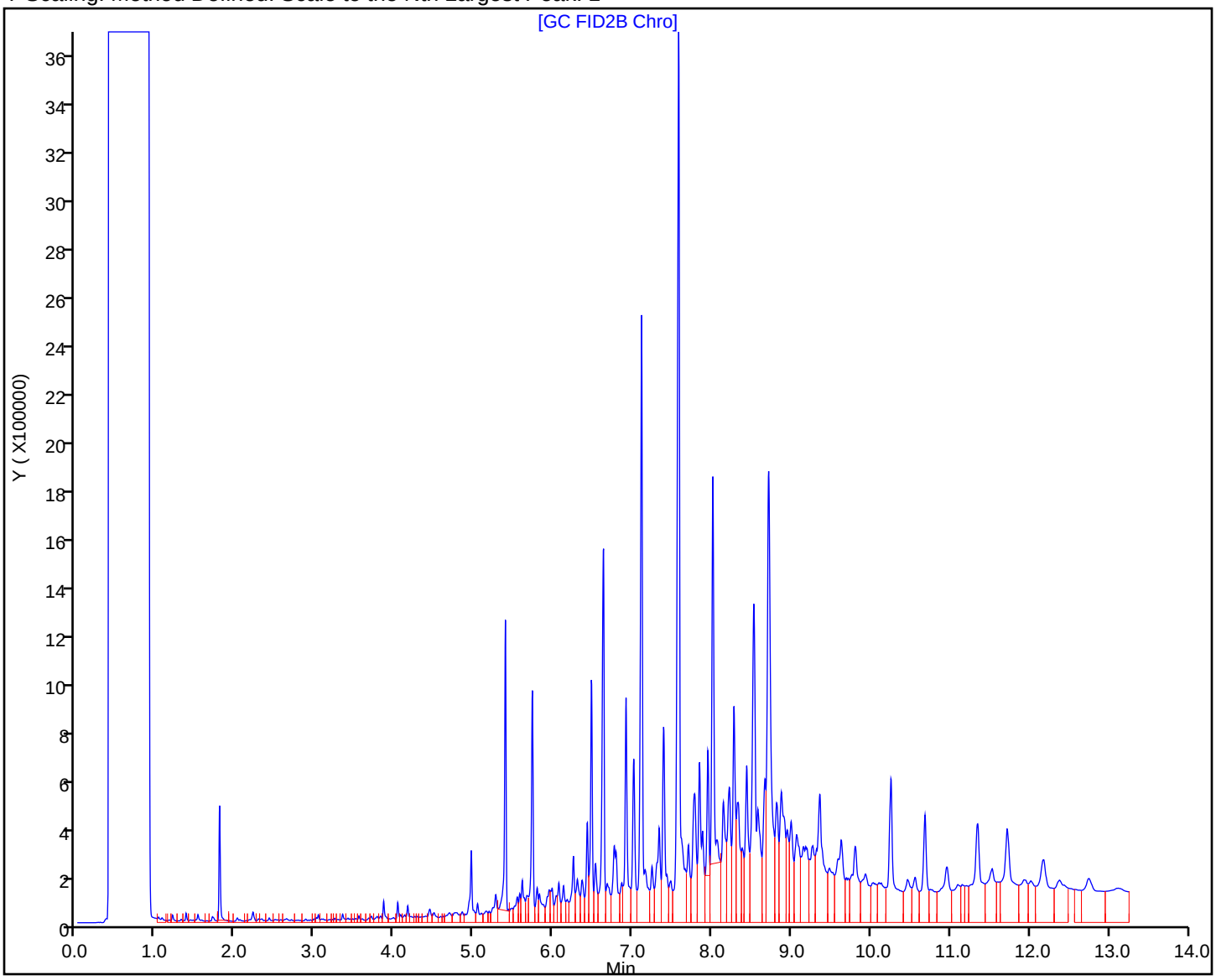


Report Date: 23-Oct-2024 16:55:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a077.D				
Injection Date:	23-Oct-2024 00:11:19	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-7-A	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

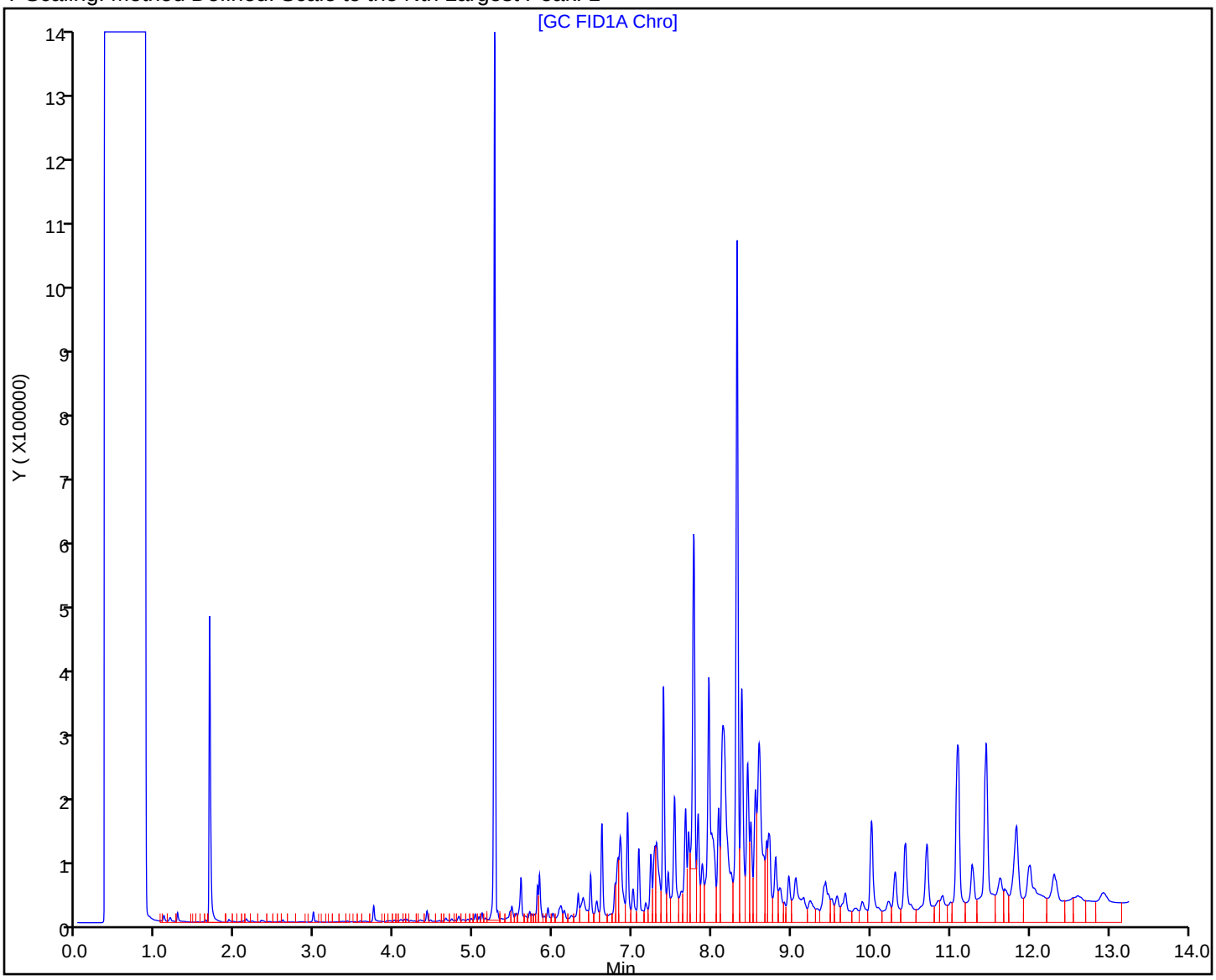


Report Date: 23-Oct-2024 14:57:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a110.D				
Injection Date:	23-Oct-2024 05:30:38	Instrument ID:	TAC129		
Lims ID:	580-144975-A-7-B	Lab Sample ID:	580-144975-7		
Client ID:	RIR24SS224SP904.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

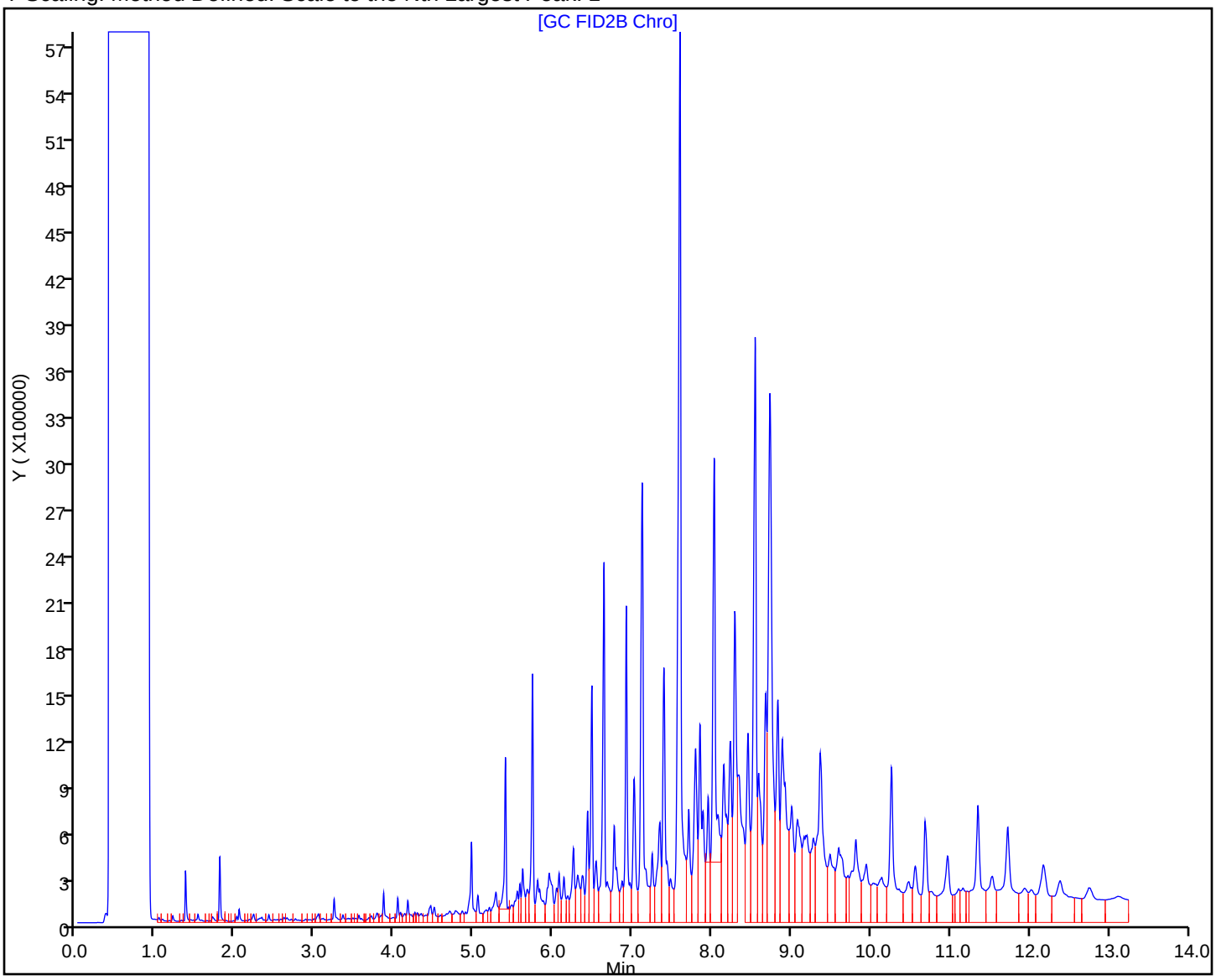


Report Date: 23-Oct-2024 16:55:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a079.D				
Injection Date:	23-Oct-2024 00:31:28	Instrument ID:	TAC129_R		
Lims ID:	580-144975-A-8-A	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

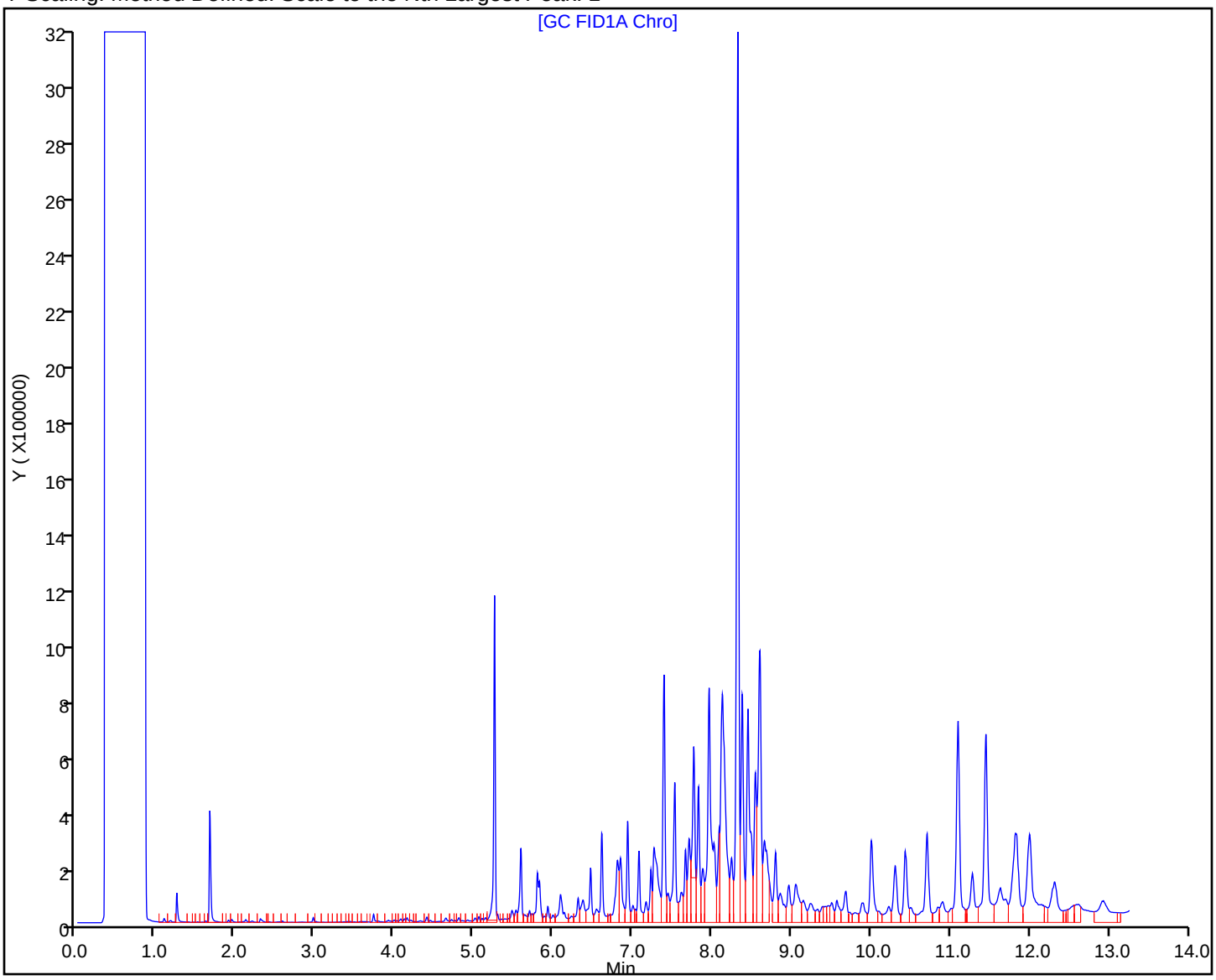


Report Date: 23-Oct-2024 14:57:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a112.D				
Injection Date:	23-Oct-2024 05:50:53	Instrument ID:	TAC129		
Lims ID:	580-144975-A-8-B	Lab Sample ID:	580-144975-8		
Client ID:	RIR24SS225BKG02				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20241022-96731.b\10222024a081.D				
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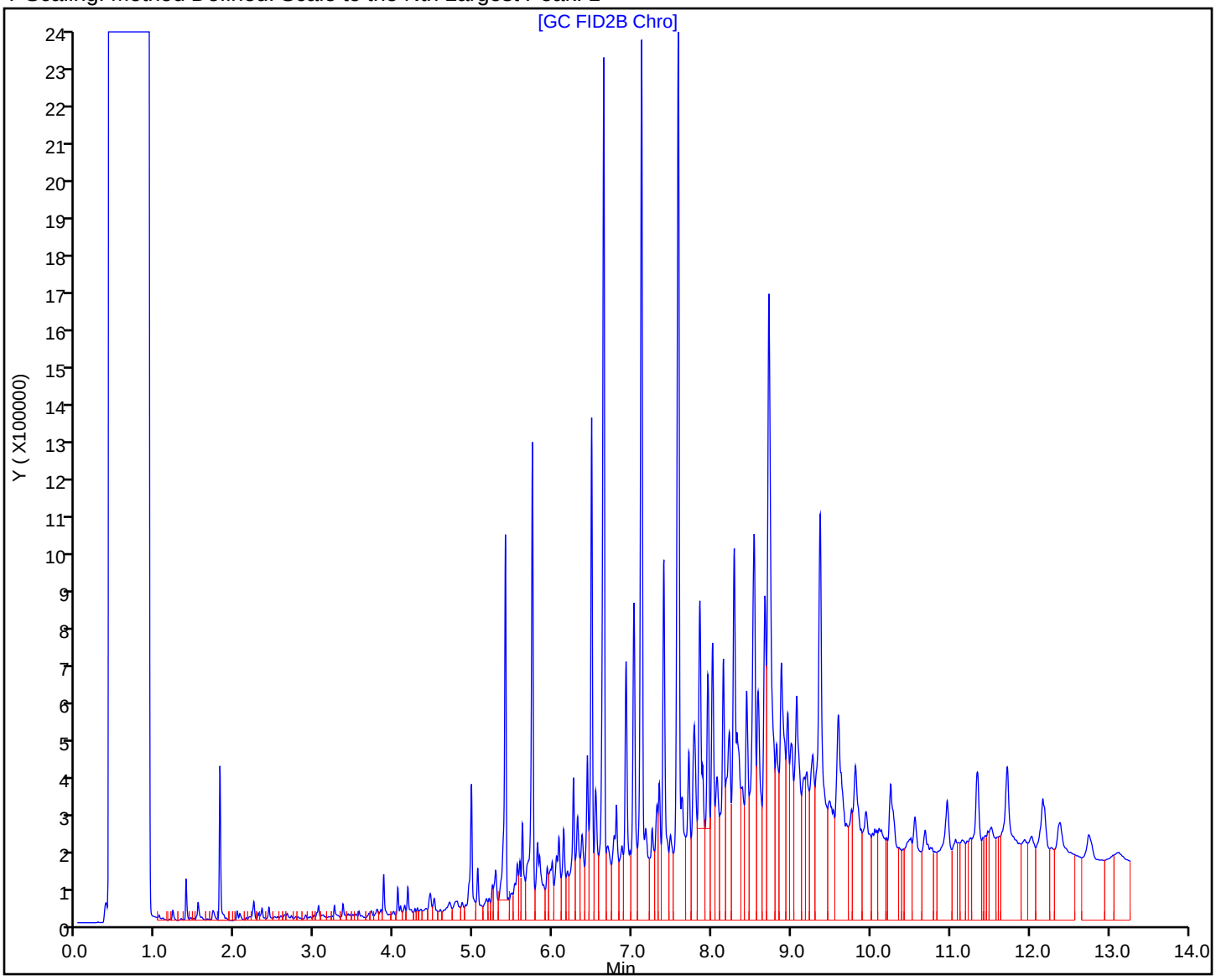
Lims ID:	580-144975-A-9-A	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

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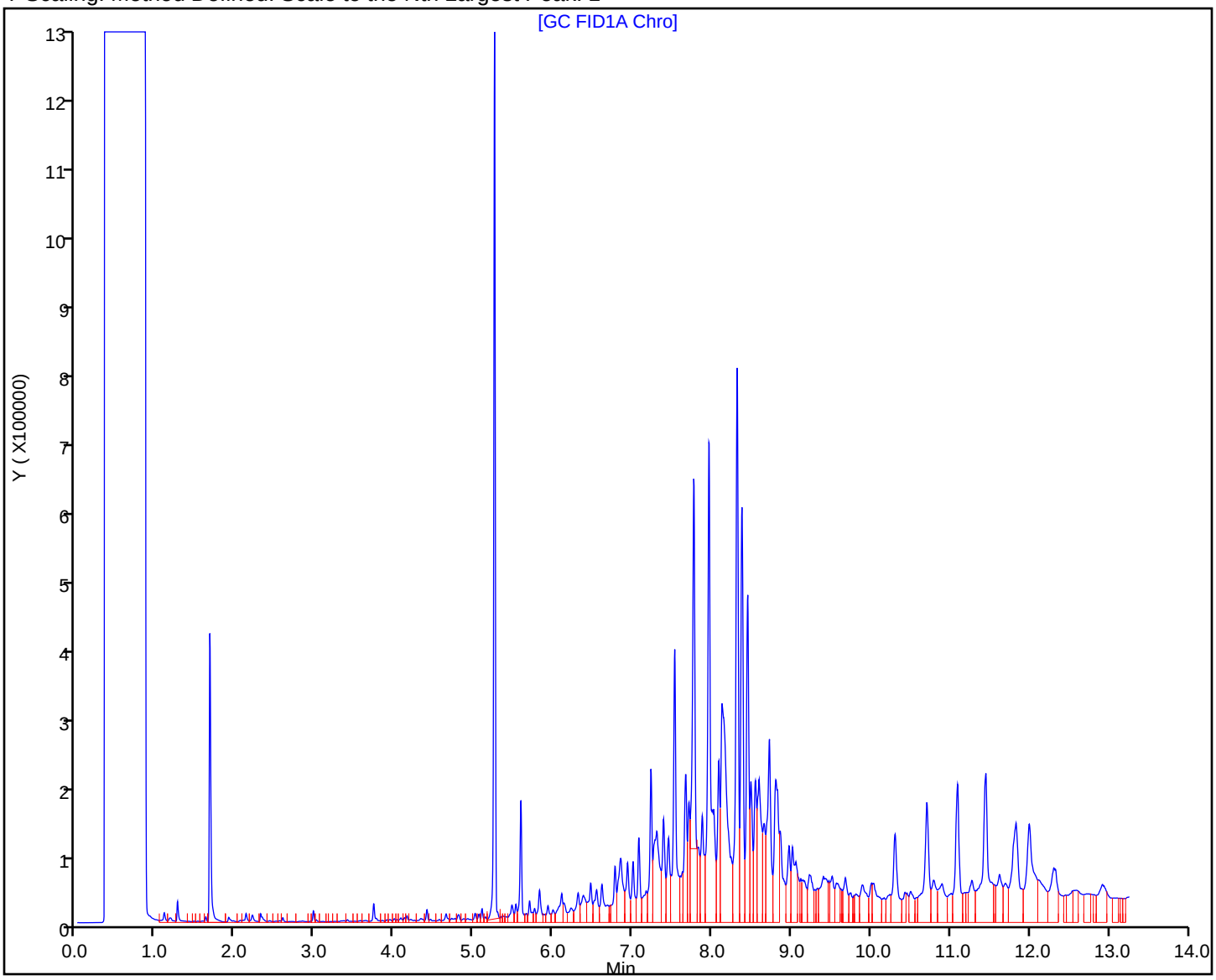
Lims ID:	580-144975-A-9-B	Lab Sample ID:	580-144975-9		
Client ID:	RIR24SS226BKG04.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 16:55:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

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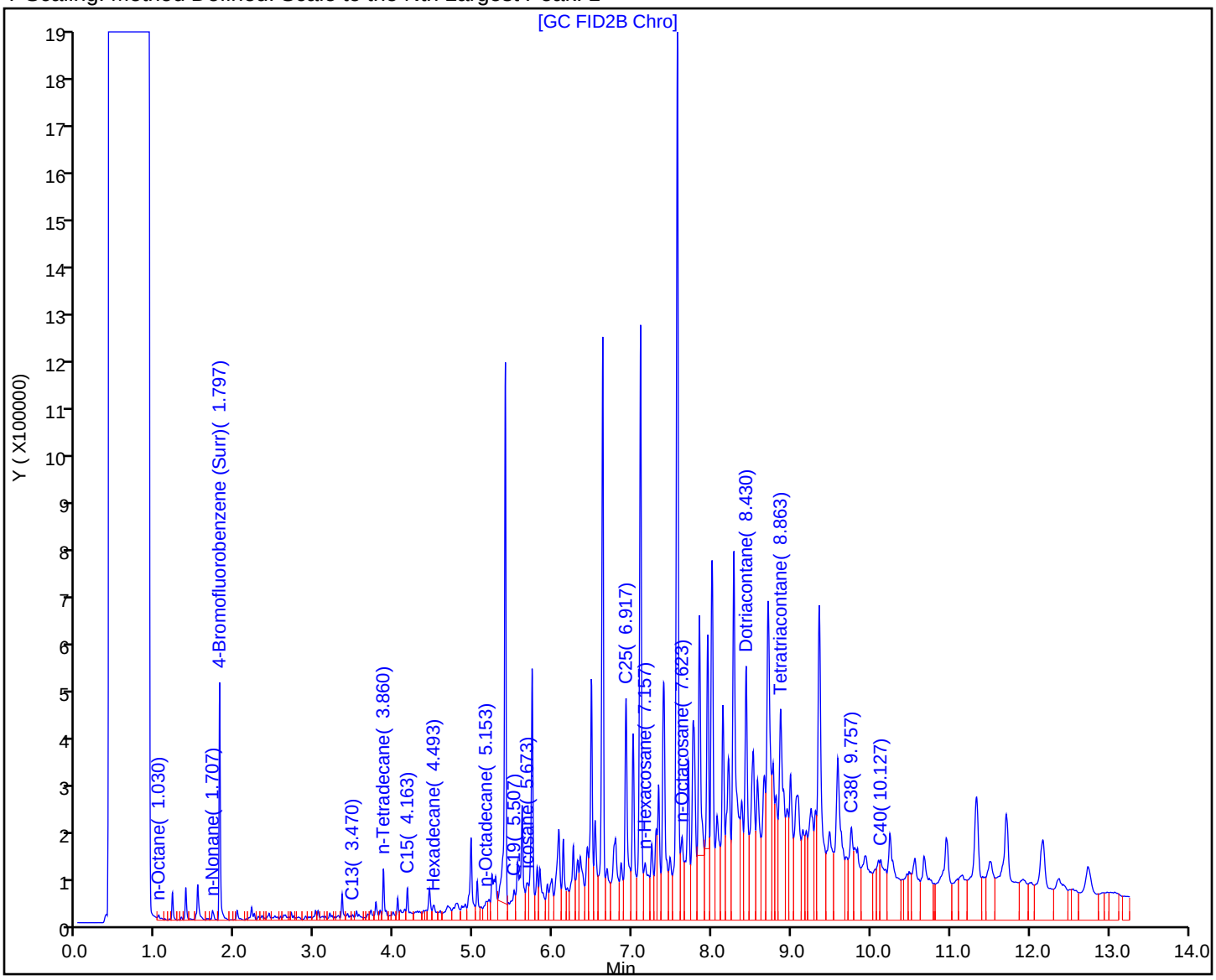
Lims ID:	580-144975-A-10-A	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20241022-96730.b\10222024a090.D				
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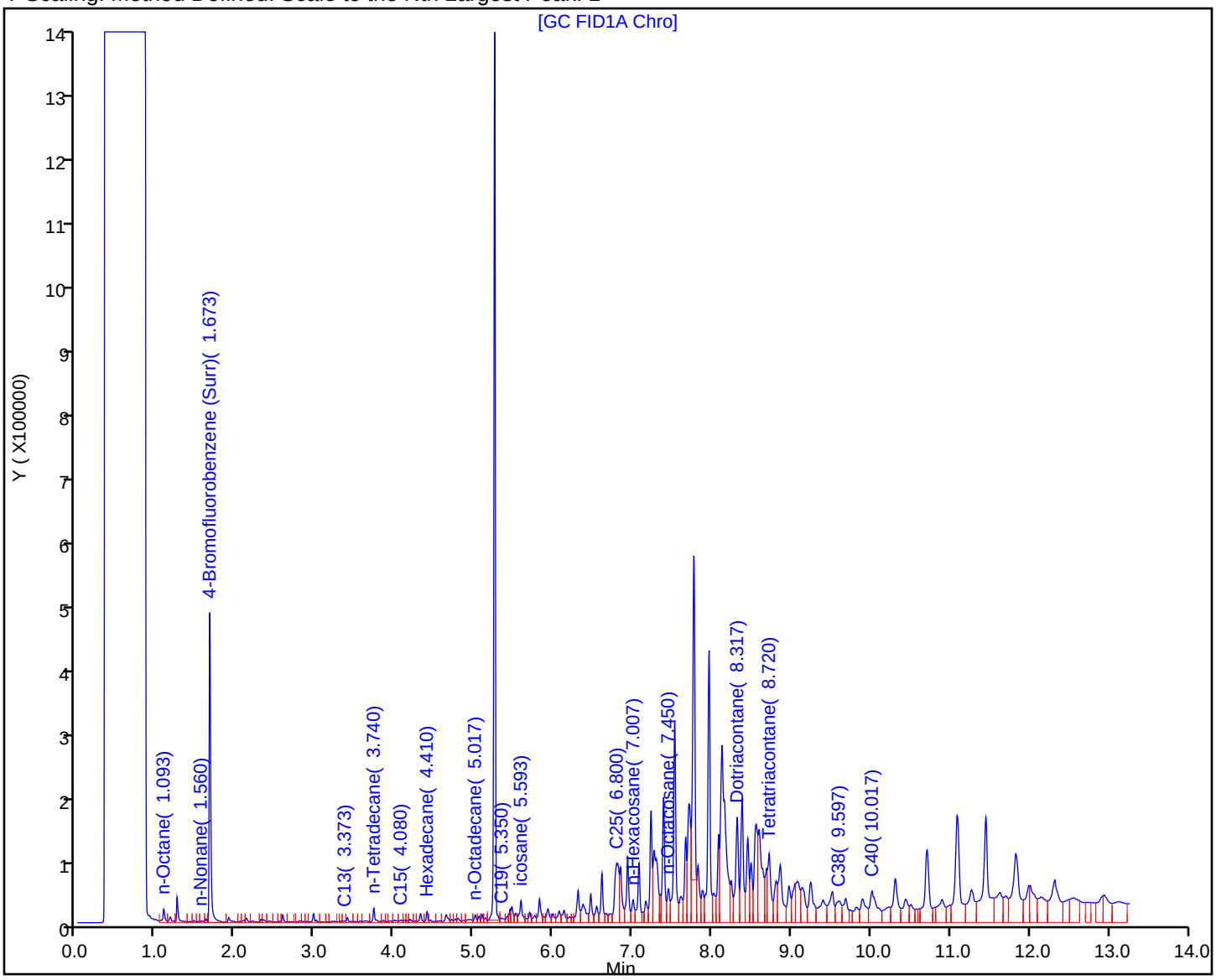
Lims ID:	580-144975-A-10-D	Lab Sample ID:	580-144975-10		
Client ID:	RIR24SS227BKG01.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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Eurofins Seattle

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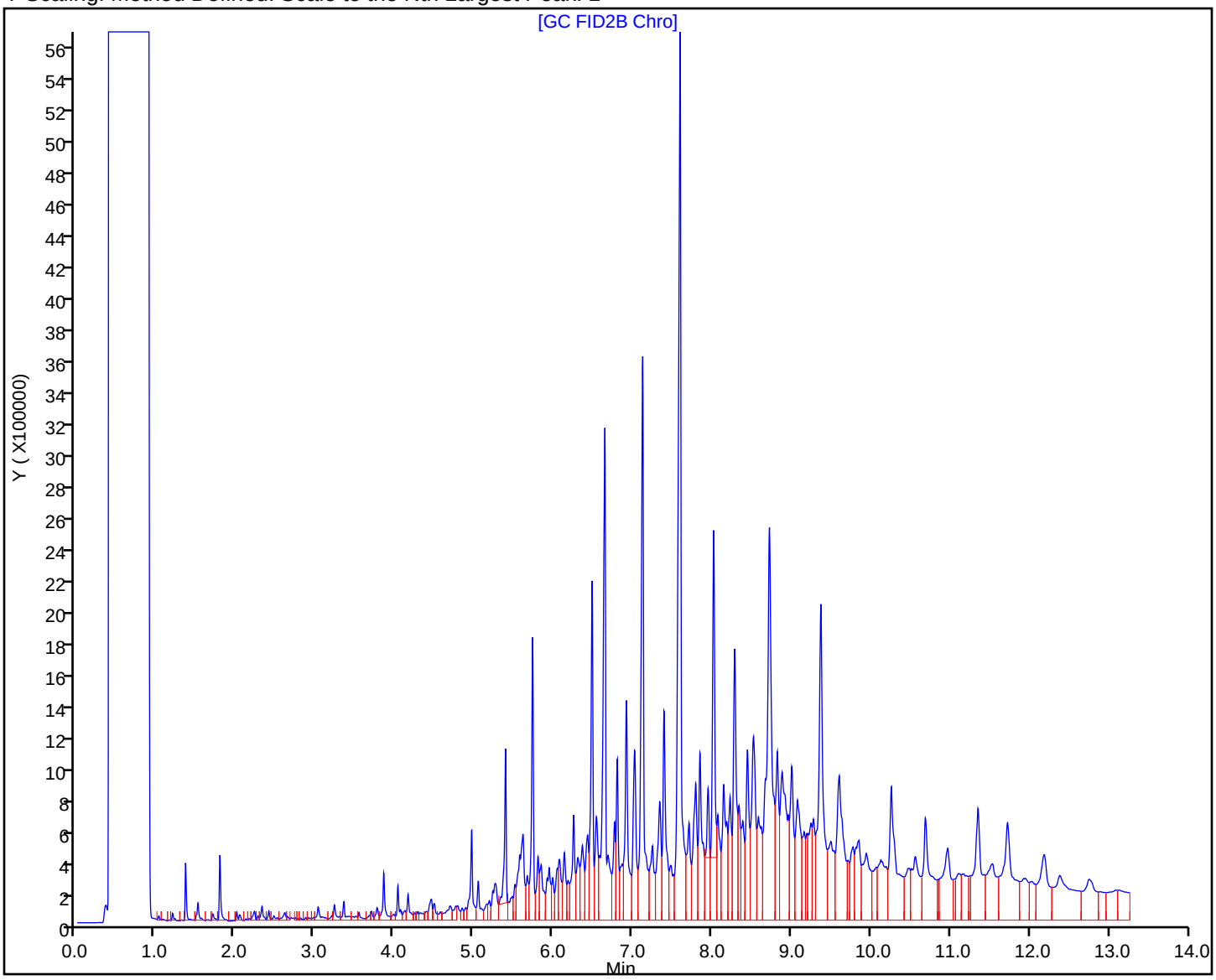
Lims ID:	580-144975-A-11-A	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Report Date: 23-Oct-2024 14:57:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Seattle

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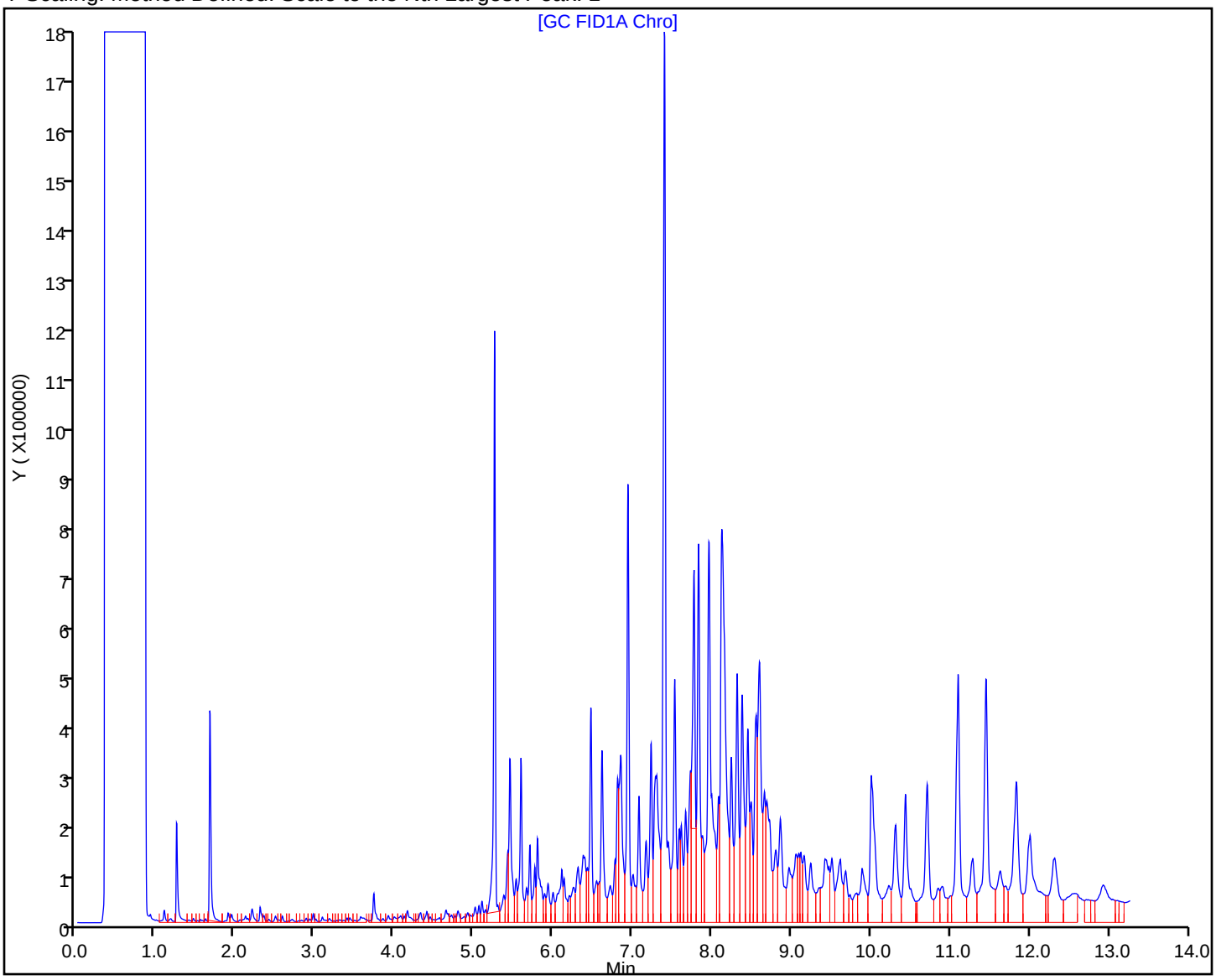
Lims ID:	580-144975-A-11-B	Lab Sample ID:	580-144975-11		
Client ID:	RIR24SS228BKG03.5				
Operator ID:	SW	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	Ak 102 DRO AK103 RRO		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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APPENDIX F
ADEC WASTE TRANSPORT AND DISPOSAL FORM

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ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SPILL PREVENTION AND RESPONSE
Contaminated Sites and Prevention Preparedness and Response Programs

Contaminated Media Transport and Treatment or Disposal Approval Form

HAZARD ID # or SPILL ID #	NAME OF CONTAMINATED SITE OR SPILL	
25376	FAA Ralston Island Former Radio Range Facility	
CONTAMINATED SITE OR SPILL LOCATION – ADDRESS OR OTHER APPROPRIATE DESCRIPTION		
Ralston Island in Lynn Canal; ~17 Miles NW of Auke Bay, ~30 Miles NW of Juneau, Auke Bay, AK 99821		
CURRENT PHYSICAL LOCATION OF MEDIA	**SOURCE OF THE CONTAMINATION (DAY TANK, FIRE TRAINING PIT, LUST, ETC.)**	
Ralston Island, AK	Former fuel pipeline investigation derived.	
CONTAMINANTS OF CONCERN	**ESTIMATED VOLUME**	**DATE(S) GENERATED**
DRO	Less than 1 cubic yard	4/21/24 to 5/5/24
POST TREATMENT ANALYSIS REQUIRED *(such as GRO, DRO, RRO, VOCs, metals, PFAS, and/or Chlorinated Solvents)*		
NA		
COMMENTS OR OTHER IMPORTANT INFORMATION		
Drill cuttings from investigative soil borings will be placed in 55-gal open top drums. Drums will be properly labeled and transported to Bicknell, Inc in Juneau, AK for soil treatment.		

TREATMENT FACILITY, LANDFILL, AND/OR FINAL DESTINATION OF MEDIA	PHYSICAL ADDRESS/PHONE NUMBER
Bicknell, Inc	2275 Brandy Lane, Juneau, AK 99801/907-789-5727
RESPONSIBLE PARTY	**ADDRESS/PHONE NUMBER**
FAA - Aemon Wetmore	FAA 222 West 7th Ave, Box 14, Anchorage, AK 99513/907-271-2113
WASTE MANAGEMENT CO. / ORGANIZER	**ADDRESS/PHONE NUMBER**
TALCES, LLC/Jody Dillon	2710 Wesleyan Drive, Anchorage, AK 99503/907-360-8300

***Note, disposal of polluted soil in a landfill requires prior approval from the landfill operator and ADEC Solid Waste Program.**

Jody Dillon
Name of the Person Requesting Approval (printed)

Lead Scientist/TALCES
Title/Association

Signature

4/18/24
Date

907-360-8300
Phone Number

----------DEC USE ONLY----------

Based on the information provided, ADEC approves transport of the above mentioned material. The Responsible Party or their consultant must submit to the DEC Project Manager a copy of weight receipts of the loads transported and a post treatment analytical report, if disposed of at an approved treatment facility. The contaminated soil shall be transported as a covered load in compliance with 18 AAC 60.015.

Alyssa Wood for ADEC
DEC Project Manager Name (printed)

Environmental Program Specialist III
Project Manager Title

Signature

4/23/2024
Date

907-269-4587
Phone Number

Instructions to Complete
Contaminated Media Transport and Treatment or Disposal Approval Form

The Alaska Department of Environmental Conservation (DEC) must approve the movement or disposal of contaminated soil and water from a site in accordance with 18 Alaska Administrative Code (AAC) 75.325(i), 18 AAC 75.370(b), and 18 AAC 78.274(b). The *Contaminated Media Transport and Treatment or Disposal Approval Form* should be used to document this approval. Soil treatment facilities regulated under 18 AAC 75.365 are required by their Operations Plans to only accept contaminated soil for which an approval form has been signed by a DEC project manager.

Site information can be found on the Contaminated Site Database (www.alaska.gov/Applications/SPAR/PublicMVC/CSP/Search/) or the Spills Database (http://dec.alaska.gov/Applications/SPAR/PublicMVC/PERP/SpillSearch).

Instructions to Complete:

1. **Hazard ID or Spill ID #:** For a contaminated site, the Hazard ID can be found on the Contaminated Sites Database. For a spill, the Spill ID can be found in the subject line of letters from DEC or the Spills Database. If the waste originates from multiple sites, all Hazard IDs or Spill IDs must be listed.

2. **Name of Contaminated Site or Spill:** For a contaminated site, the official site name can be found on the Contaminated Sites Database. For a spill, the official name of the spill is found in the subject line of letters from DEC or the Spills Database.

3. **Contaminated Site or Spill Location – Address or Other Appropriate Description:** This address or description captures the origin of the contaminated media or the location of the spill. For a contaminated site, the address or other appropriate description can be found on the Contaminated Sites Database. For a spill, this can be found on the Spill Report or the Spills Database.

4. **Current Physical Location of the Media:** Provide the physical location where the contaminated media (soil, water, etc.) is currently stored. This location may be the same as location provided in the "Contaminated Site or Spill Location", or it could be a hazardous waste facility or other location/staging area agreed upon in the DEC-approved work plan.

5. **Source of Contamination (Day Tank, Fire Training Pit, LUST, etc.):** List all sources which contributed to the contamination in the media being transported. Sources can include previous releases that have comingled. If the source is unknown, state "Unknown".

6. **Contaminants of Concern (CoCs):** List all contaminants detected above the most stringent Method 2 Tables B1 and B2 soil cleanup levels in 18 AAC 75.341(c) and (d), the Table C groundwater cleanup levels in 18 AAC 75.345, and other applicable action levels (e.g., TCLP results). Attach the laboratory data package for the contaminated media that is being disposed of and, if applicable, a data summary table or narrative to this form. Data gathered during site characterization activities may be sufficient to determine the CoCs. There are situations in which generator knowledge of the contaminant source may be accepted by a treatment or disposal facility in lieu of analytical sample results, such as, diesel-impacted media from a heating oil tank. If you are using generator knowledge in lieu of analytical sample results, include a statement which documents this knowledge in the Comments section.

7. **Estimated Volume:** Include the total volume of contaminated media to be transported; for instance, “Nine 55-gallon drums” or “”25 cubic yards of soil.”

8. **Date(s) Generated:** Provide the date the media was generated (e.g., excavated, pumped out of the ground, etc.). If the media was generated over multiple days, list the range of dates.

9. **Post Treatment Analysis Required (such as GRO, DRO, RRO, VOCs, PAHs, metals, PFAS, chlorinated solvents, etc.):** Provide the list of all contaminants that exceed the most stringent Method 2 cleanup levels. For DEC-approved soil treatment facilities in Alaska, specific post treatment analyses will be determined by the facility based upon the contaminants and requirements of their Operations Plan. If the media are being transported to a landfill or permitted liquid waste facility without off-site treatment, include “Not Applicable”.

10. **Comments or Other Important Information:** Provide any other information which needs to be conveyed.
    a. If generator knowledge of the CoCs is being used in lieu of sample analytical results, an explanation needs to be provided in this field.
    b. If the material is going to be placed in a landfill in Alaska, include a statement that the landfill has agreed to accept the material and provide the contact information for the landfill point of contact. If the material is going to be placed in a Class 2 or 3 landfill, attach the DEC Solid Waste Program’s approval letter to this form.
    c. If the media is going to an intermediate location or facility prior to its final destination, describe the complete transportation route with intermediate locations in this field.

11. **Treatment Facility, Landfill, and/or Final Destination of Media:** Include the name of the facility, landfill, or the final destination of the media. A list of DEC-approved Alaskan soil treatment facilities is available at www.dec.alaska.gov/spar/csp/offsite-remediation/. If multiple treatment facilities will be used, use separate forms to document what media will go to which facility. For material that will go to a waste transfer facility prior to disposal at another facility, the final destination should be listed.
    a. **Physical Address/Phone Number:** Provide the physical location and telephone number of the facility, landfill, or the final destination of the media.

12. **Responsible Party:** Provide the name of the party responsible for the contaminated site or spill.
    a. **Address/Phone Number:** Provide the mailing address and telephone number of the responsible party.

13. **Waste Management Co./Organizer:** Provide the name of company or person shipping and/or organizing the shipment of the media.
    a. **Address/Phone Number:** Provide the mailing address and telephone number of the waste management company or organizer.

Submit this completed form along with all necessary attachments to the assigned DEC project manager for approval, or contact the Contaminated Sites Program at (907) 269-7558 or the Prevention, Preparedness and Response Program at (907) 269-7557.