DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278-0090

7 March 2025

Ms. Karyn Treinen
USEPA Region 2
Special Projects Branch/Federal Facilities Section
290 Broadway, 18th Floor
New York, NY 10007-1866

Mr. Patrick Powers
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7015

Mr. Mark Sergott
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza – Corning Tower, Room 1787
Albany, NY 12237

SUBJECT: Final Ash Landfill Annual Report and Year 18 Review for the Former Seneca Army Depot in Romulus, NY; EPA Site ID# NY0213820830 and NY Site ID# 8-50-006

Dear Ms. Treinen, Mr. Powers, and Mr. Sergott:

On behalf of the Army, please find attached your records the Final Ash Landfill Annual Report and Year 18 Review for the Former Seneca Army Depot, located in Romulus, New York.

If you have any questions about the attached document, please call me at 917-936-6273.

Sincerely,

HEINS.THOMAS.ROBERT.1599821364

Digitally signed by HEINS.THOMAS.ROBERT.1599821364
DN: CN=HEINS.THOMAS.ROBERT.1599821364, OU=USA, OU=PKI, OU=DoD, O=U.S. Government, C=US
Date: 2025.03.06 12:19:23-05'00'

Thomas R. Heins, PE
Corps of Engineers, Project Manager
US Army BRAC Base Environmental Coordinator

cc: C. Heaton, CEHNC
B. Hodges, CEHNC
T. Reese, EA
F. DeSantis EA

ASH LANDFILL ANNUAL REPORT AND YEAR 18 REVIEW
FINAL

Long-Term Monitoring/Land Use Control Management
Former Seneca Army Depot
Romulus, New York

PREPARED FOR:

U.S. ARMY CORPS OF ENGINEERS,
ENGINEERING AND SUPPORT CENTER,
HUNTSVILLE
5021 Bradford Drive East
Huntsville, Alabama 35805

CONTRACT NO. W912DY22D0131
TASK ORDER NO. W912DY22F0374

March 2025

This page intentionally left blank

Ash Landfill Annual Report and Year 18 Review Long-Term Monitoring/Land Use Control Management
Former Seneca Army Depot
Romulus, New York

Contract No. W912DY22D0131
Task Order No. W912DY22F0374

Prepared for

U.S. Army Corps of Engineers
Engineering and Support Center
Huntsville
5021 Bradford Drive East
Huntsville, Alabama 35805

Prepared by

EA Engineering, Science, and Technology, Inc., PBC
225 Schilling Circle, Suite 400
Hunt Valley, Maryland 21031

March 2025

This page intentionally left blank

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDIXES

LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
bgs	Below ground surface
COC	Contaminant of concern
CSM	Conceptual site model
CVOC	Chlorinated volatile organic compound
cy	Cubic yard(s)
DCE	Dichloroethene
DO	Dissolved oxygen
EA	EA Engineering, Science, and Technology, Inc., PBC
EPA	U.S. Environmental Protection Agency
ICWP	Incinerator Cooling Water Pond
LTM	Long-term monitoring
LUC	Land use control
mg/L	Milligram(s) per liter
mV	Millivolt(s)
NCFL	Non-combustible fill landfill
NTCRA	Non-Time Critical Removal Action
NYS	New York State
OPS	Operating properly and successfully
ORP	Oxidation-reduction potential
OU	Operable unit
PAH	Polycyclic aromatic hydrocarbon
Parsons	Parsons Engineering Science, Inc.
RA	Remedial action
RDR	Remedial Design Report
RI	Remedial investigation
ROD	Record of Decision
SWMU	Solid waste management unit
TAGM	Technical and Administrative Guidance Memorandum
TCE	Trichloroethene
TOC	Total organic carbon

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

USACE	U.S. Army Corps of Engineers
VC	Vinyl chloride
VOC	Volatile organic compound
ZVI	Zero valent iron

1. INTRODUCTION

1.1 SITE-SPECIFIC LONG-TERM MONITORING BACKGROUND

This Annual Report is for the Ash Landfill Operable Unit (OU), Former Seneca Army Depot (SEAD), located in Romulus, New York (**Figure 1**). This report provides a review of the Year 18 (Round 34) long-term monitoring (LTM) of the chlorinated volatile organic compounds (CVOCs) groundwater plume at the Ash Landfill and a remedy performance assessment of the biowall system that was installed in 2006. This report is based on an annual review of the effectiveness of the remedy and includes the following:

- A review of the latest LTM results (Section 3.1)
- A comparison of the groundwater data to the LTM objectives (Section 3.3)
- An assessment of the remedy's compliance with U.S. Environmental Protection Agency's (EPA's) *Guidance for Evaluation of Federal Agency Demonstrations that Remedial Actions are Operating Properly and Successfully* (Section 12(h)(s)) (Section 3.7) (EPA 1996).

A remedial action (RA) was completed in October and November 2006 in accordance with the Record of Decision (ROD) for the Ash Landfill OU (Parsons 2004), the Remedial Design Work Plan (Parsons 2006a), and the Remedial Design Report (RDR) (Parsons 2006b). The RA involved the following:

- Installation of three dual biowall systems, A1/A2, B1/B2, and C1/C2 (**Figure 2**) to address CVOCs in groundwater that exceed New York State (NYS) Class GA groundwater standards. The biowalls were subsequently recharged in 2017 following the installation of recirculation wells to facilitate extraction of the aquifer groundwater and injection of remedial substrate (emulsified vegetable oil)
- Construction and establishment of a 12-inch thick vegetative cover over the Ash Landfill and the Non-Combustible Fill Landfill (NCFL) to prevent ecological receptors from coming into direct contact with the underlying soils that are impacted with metals and polycyclic aromatic hydrocarbons (PAHs)
- Excavation and disposal of Debris Piles A, B, and C
- Re-grading of the Incinerator Cooling Water Pond (ICWP) to promote positive drainage by sloping the surface towards existing drainage swales.

As part of the RA at the Ash Landfill OU, post-closure operations include LTM. Groundwater monitoring is required per the remedial design, which was formulated to comply with the ROD and is currently conducted annually.

Table 1 presents the sampling dates and annual report titles since the initiation of LTM at the Ash Landfill OU. The results of the most recent sampling event (Round 34), which took place in June 2024, are provided within this Annual Report in Sections 3.1 and 3.2.

1.2 LONG-TERM GROUNDWATER MONITORING OBJECTIVES

Three types of long-term groundwater monitoring are being performed: 1) plume monitoring, 2) biowall remedy performance monitoring, and 3) off-site compliance monitoring (Parsons 2006b). On-site monitoring is being conducted to measure groundwater contaminant concentrations over time and to evaluate the effectiveness of the biowall remedy for the Ash Landfill OU. Off-site monitoring is being conducted to ensure there are no exceedances of contaminants migrating off the property. The objectives of the LTM are as follows:

- Confirm that there are no exceedances of groundwater standards for contaminants of concern (COCs) at the off-site compliance monitoring well MW-56R and MW-58D
- Document the effectiveness of the biowalls to remediate and attenuate the chlorinated ethene plume
- Confirm that groundwater concentrations throughout the plume are decreasing such that NYS Class GA groundwater standards will eventually be met.

Biowall performance monitoring is being conducted at two locations to determine if, and when, any biowall maintenance activities should be performed. The first location is within Biowalls B1/B2 (MWT- 27 and MWT-28) in the segment that runs along the pilot-scale biowalls that were installed in July 2005 (**Figure 2**). The second location is within Biowall C2 (MWT-23), the furthest downgradient biowall. The objectives of biowall performance monitoring for operations and maintenance activities are as follows:

- Monitor the long-term performance and sustainability of the biowalls
- Monitor substrate depletion and geochemical conditions under which the effectiveness of the biowalls may decline
- Determine if, and when, the biowalls need maintenance (i.e., need to be recharged with additional organic substrate).

1.3 REMEDIAL SYSTEM OPTIMIZATION

Following the completion of the Year 17 review it was recommended to perform a remedial system optimization (RSO) at the Ash Landfill (EA 2024a). The RSO activities are being conducted in phases. The initial phase includes maintenance of the existing monitoring well network, resurvey of monitoring wells, site-wide groundwater gauging and sampling of the entire monitoring well network, and receptor well survey update. Information obtained during this initial phase will be used to revise the conceptual site model (CSM) and inform recommendations for follow-up activities (EA 2024b). Details of the initial phase activities are discussed in Section 4.

2. SITE BACKGROUND

2.1 SITE DESCRIPTION

SEAD is a 10,634-acre former military facility located in Seneca County near Romulus, New York, that was owned by the United States Government and operated by the Department of the Army from 1941 until 2000. SEAD is located between Seneca Lake and Cayuga Lake and is bordered by New York State Highway 96 to the east, New York State Highway 96A to the west, and sparsely populated farmland to the north and south.

The Ash Landfill OU is composed of five historic solid waste management units (SWMUs). The five SWMUs that comprise the Ash Landfill OU are the Incinerator Cooling Water Pond (SEAD-3), the Ash Landfill (SEAD-6), the NCFL (SEAD-8), the former Debris Piles (SEAD- 14), and the former Abandoned Solid Waste Incinerator Building (SEAD-15) (**Figure 2**).

From 1941 (the date SEAD was constructed) to 1974, uncontaminated trash was burned in a series of burn pits located near the former abandoned incinerator building (Building 2207). According to the U.S. Army Environmental Hygiene Agency Interim Final Report, Groundwater Contamination Survey No. 38-26-0868-88 (July 1987), the ash from the refuse burning pits was buried in the Ash Landfill (SEAD-6) from date of inception until the late 1950s or early 1960s.

The incinerator was built in 1974, and between 1974 and 1979, materials intended for disposal were transported to the incinerator. Each week SEAD generated approximately 18 tons of refuse, the majority of which was incinerated. The source for the refuse was domestic waste from SEAD activities and family housing. Large items that could not be burned were disposed of at the NCFL (SEAD-8). The NCFL encompasses approximately 3 acres located southeast of the former incinerator building, immediately south of a SEAD railroad line. The NCFL was used as a disposal site for non-combustible materials, including construction debris, from 1969 until 1977.

Ash and other residue from the former incinerator were temporarily disposed of in an unlined cooling pond immediately north of the incinerator building. The cooling pond consisted of an unlined depression approximately 50 feet in diameter and approximately 6 to 8 feet deep. When the pond filled, the ash and residue were removed, transported, and buried in the adjacent ash landfill east of the cooling pond. The ash and incinerator residue were dumped in piles and occasionally spread and compacted. No daily or final cover was applied during operation. According to an undated aerial photograph of the incinerator during operation, the active area of the Ash Landfill extended at least 500 feet north of the incinerator building, near a bend in a dirt road. A fire destroyed the incinerator on 8 May 1979, and the landfill was subsequently closed. Post-closure, the landfill was apparently covered with native soil of various thicknesses, but was not closed with an engineered cover or cap. Other areas at the site were used as a grease pit for disposal of cooking grease and for burning household trash and depot refuse (SEAD-14).

2.2 SITE GEOLOGY/HYDROGEOLOGY

The Ash Landfill site is underlain by a broad north-to-south trending series of rock terraces covered by a mantle of glacial till. As part of the Appalachian Plateau, the local bedrock consists of shale, sandstone, conglomerate, limestone and dolostone. At the Ash Landfill site, the bedrock (the

Ludlowville Formation) is characterized by gray, calcareous shale and mudstone and thin limestone beds with numerous zones of abundant invertebrate fossils. Locally, the shale is soft, gray, and fissile. The shale, which has a thin weathered zone at the top, is overlain by 4 to 15 feet of Pleistocene-age[1] till deposits. The till matrix varies locally, but generally consists of unsorted silt, clay, sand, and gravel (Brett et al., 1995).

The thickness of the overburden till at the Ash Landfill OU generally ranges from 4 to 15 feet. At the location of the biowalls, the thickness of the till and weathered shale is approximately 10 to 15 feet. Groundwater is present in both the shallow till/weathered shale layer and in the deeper competent shale bedrock. In both water-bearing units, the predominant direction of groundwater flow is to the west, toward Seneca Lake. Based on the historical data, the overburden wells at the Ash Landfill site exhibit seasonal fluctuations in the water table and the saturated thickness. Historic data indicate that the saturated interval is thin (generally between 1 and 3 feet thick) in the month of September and is thickest (generally between 6 and 8.5 feet thick) between December and March (Parsons 1994).

The average linear velocity of the groundwater in the till/weathered shale layer was calculated during the remedial investigation (RI) in 1994 as 0.166 feet per day or 60.7 feet per year at 15 percent effective porosity and 0.125 feet per day or 45.5 feet per year at 20 percent effective porosity (Parsons 1994). The actual velocity of on-site groundwater may be locally influenced by zones of higher or lower than average permeability; these zones are possibly associated with variations in the porosity of the till/weathered shale. In general, groundwater movement across the Ash Landfill site is slow.

2.3 SOIL AND GROUNDWATER IMPACTS

During the RI, it was determined that surface water and sediment were not media of concern and did not require remediation (Parsons 1994). A groundwater plume that emanated from the northern end of the Ash Landfill was delineated during the RI. The primary COCs in groundwater at the Ash Landfill are volatile organic compounds (VOCs); the primary COCs in soil at the Ash Landfill are chlorinated and aromatic VOCs, semivolatile organic compounds, PAHs, and, to a lesser degree, metals. Release of the COCs is believed to have occurred during the former activities at the Ash Landfill OU (described in Section 2.1).

2.3.1 Soil

VOCs, specifically trichloroethene (TCE), were detected in the soil near well MW-44A and the northwest corner of the Ash Landfill **(Figure 2**) and this area is believed to be the source of the groundwater plume. Between 1994 and 1995, the Army conducted a Non-Time Critical Removal Action (NTCRA), also known as an Interim Removal Measure, to address VOC and PAH contamination in soil. Since the NTCRA, concentrations of VOCs in groundwater near the original source area have decreased by two orders of magnitude. Soil was not a medium of concern in the approved Final ROD (Parsons 2004) based on the risk reduction from the NTCRA which did not include soil-to-groundwater pathway assessments.

1 The Pleistocene Age occurred 11,7000 to 2.6 million years before present.

The other COCs detected in the soil were PAHs and metals. PAHs were detected at concentrations above New York State Department of Environmental Conservation's Technical and Administrative Guidance Memorandum (TAGM #4046) values in the NCFL and the Debris Piles present around the former Ash Landfill. In general, the highest PAH concentrations were detected in the NCFL and small Debris Pile surface soils. The metals that were detected at elevated concentrations above the TAGM values in soils were copper, lead, mercury, and zinc. These elevated concentrations were found in the Ash Landfill, the NCFL, and the Debris Piles, with the highest concentrations of metals detected at the surface of the Debris Piles. These piles were small, localized, surface features that were visibly discernible and did not extend into the subsurface. The former debris piles were excavated and disposed off-site during the RA in 2006.

2.3.2 Groundwater

The primary potential impact to human health and the environment is a groundwater contaminant plume containing dissolved chlorinated solvents, primarily TCE, isomers of dichloroethene (DCE), and vinyl chloride (VC). The plume originates near the northwestern edge of the Ash Landfill and is approximately 1,100 feet long by 625 feet wide. An updated offsite well search conducted in June 2024 confirmed the presence of one potential offsite groundwater receptor, a bedrock residential well located approximately 1,750 feet from the Ash Landfill boundary (**Figure 3**). The residential well is an open borehole down to 256 feet bgs and draws water from the deeper bedrock aquifer. The residential well is cased to 18 feet bgs and while the depth to bedrock is unknown, based on the local geology it is likely cased into bedrock. An additional water well at a residence located approximately 300 feet downgradient of the Ash Landfill boundary is present but is not currently in use due to impacts from colloidal clays.

A zero valent iron (ZVI) wall was installed along the SEAD boundary in 1998 during an *in-situ* groundwater remediation technology study (**Figure 2**). The wall was constructed by excavating a linear trench to competent bedrock and backfilling the trench with a ZVI and sand mixture.

The ZVI wall was constructed perpendicular to groundwater flow, is approximately 650 feet long, 14 inches wide, and has an average depth of 8.8 feet.

The design life of the ZVI wall is affected by porosity loss and iron consumption; the former affects groundwater flow through the wall and the latter affects the ability of the wall to chemically treat the chlorinated organics dissolved in groundwater. The design life of the ZVI wall was calculated to be 18 years (Parsons 2000), and while ORP measurements made from monitoring wells within the barrier indicate a strong reducing environment remains (ORP measurements ranging from -279 to -95 mV), the detection of chlorinated ethenes downgradient of the wall suggests that the barrier has lost effectiveness and is unable to adequately mitigate contaminant migration offsite.

2.4 SUMMARY OF THE REMEDIAL ACTION

2.4.1 Biowalls

Three biowall pairs were installed as part of the remedial action to address groundwater contamination on-site and installation activities are documented in the Construction Completion Report (Parsons 2007). The biowalls were constructed by excavating linear trenches to competent bedrock then backfilling each trench to the ground surface with a mixture of bark and tree mulch, soybean oil and sand. The biowall installation was completed in October 2006.

Biowalls A1/A2, B1/B2, and C1/C2 were constructed perpendicular to groundwater flow and the longitudinal direction of the chlorinated solvent plume at the locations prescribed in the RDR, shown on **Figure 2**. The entire length of Biowalls A1/A2 and the northern portion of B1/B2 were combined into a single double-width trench (minimum of 6 feet in width) due to unstable soil conditions that caused sidewall collapse and trench widening. Approximately 2,840 linear feet of biowalls were constructed in the areas downgradient of the Ash Landfill at depths ranging from 7 to 18.5 feet bgs.

A 12-inch soil cover was placed over the entire length of the biowalls to impede surface water from preferentially infiltrating into the biowalls. Trench spoils were used as the cover material and were compacted with a backhoe.

2.4.2 Incinerator Cooling Water Pond

As specified in the RDR, the ICWP was re-graded to meet the surrounding grade to prevent the accumulation of water in this inactive pond area. Prior to re-grading, the vegetation on the berms surrounding the ICWP was removed with an excavator. The soil berm was then regraded with a bulldozer to match the surrounding grade. The ICWP was seeded with a standard meadow mix to promote revegetation and to prevent erosion.

2.4.3 Ash Landfill and NCFL Vegetative Cover

A soil cover comprised of mulch, biowall trench spoils that met the site cleanup criteria, and off-site topsoil was placed over the 2.2 acres of the Ash Landfill. The Ash Landfill was covered with 4,380 cubic yards (cy) of fill to achieve a minimum cover thickness of 12 inches. Biowall trench spoils that met the site cleanup criteria and off-site topsoil were also placed over the 3.4-acre NCFL. The NCFL was covered with 6,015 cy of fill to achieve a minimum cover thickness of 12 inches. The purpose of the covers is to prevent terrestrial wildlife from directly contacting or incidentally ingesting impacted soils.

2.4.4 Debris Pile Removal

During the RA, approximately 200 cy of debris was removed from Debris Piles B and C. Approximately 1,000 cy of debris was removed from within and beyond the staked limits of Debris Pile A. The total volume of debris removed was approximately 1,200 cy (1,548 tons).

2.5 DESCRIPTION OF TECHNOLOGY USED IN BIOWALLS

Biologically mediated reductive dechlorination is the most important process for natural or enhanced biodegradation of highly chlorinated solvents (EPA 1998) (**Figure 4**). The biowalls installed at the site were constructed to enhance biodegradation. Complete dechlorination of TCE and other chlorinated solvents to the non-regulated end product ethene/ethane is the goal of anaerobic biodegradation.

Biodegradation causes measurable changes in groundwater geochemistry that can be used to evaluate the effectiveness of substrate addition in stimulating biodegradation. For anaerobic reductive dechlorination to be an effective process, groundwater geochemical conditions must be anoxic and ideally in the sulfate-reducing or methanogenic geochemical range. Thus, groundwater in which anaerobic reductive dechlorination is occurring should have the following geochemical signature:

- Depleted concentrations of dissolved oxygen (DO), nitrate, and sulfate
- Elevated concentrations of manganese, ferrous iron, methane, carbon dioxide, chloride, and alkalinity
- Reduced oxidation-reduction potential (ORP).

Based on LTM data, the biowall system was recharged in 2017 and is described in Biowall Recharge Completion Report (Parsons 2018).

This page intentionally left blank

3. LONG-TERM MONITORING

3.1 DATA ANALYSIS

3.1.1 Sample Collection

Table 1 presents the sample collection dates for the 18 years of LTM. The first year of sampling was quarterly, and at that time, the sampling rounds were identified as xQyyyy, where "x" is the round number, and "yyyy" is the 4-digit year. After the first year, the sample frequency was modified to semi-annual, and an "R" was used to replace the "Q" to denote the sampling round. The sampling round number has been used sequentially since the first quarterly sampling round.

During the first 33 groundwater sampling rounds, fourteen monitoring wells were sampled and classified into three groups (**Table 2**): 11 on-site plume performance monitoring wells, 1 off-site compliance monitoring well, and 5 biowall process monitoring wells. The off-site performance monitoring well, MW-56R, is a replacement well for MW-56 which was sampled semi-annually from 2007 through 2021. MW-56R was installed approximately 150 feet to the east, upgradient of MW-56, closer to the SEAD boundary. Three of the plume performance wells are also biowall process monitoring wells (MWT-23, MWT-27, and MWT-28). The five biowall process monitoring wells are either within or immediately upgradient or downgradient of the biowalls and are used to assess if, and when, the biowalls may require additional substrate. During round 34 an additional 23 site monitoring wells were sampled during the LTM event as part of a remedial system optimization (RSO) of the Ash Landfill OU. RSO field activities are detailed in Section 4. The monitoring well locations are shown in **Table 2** and **Figure 2.**

All of the groundwater samples were submitted to SGS Orlando in Orlando, Florida and were analyzed for VOCs by EPA Method SW846 8260D. SGS Orlando is certified by the Department of Defense Environmental Laboratory Accreditation Program and the National Environmental Laboratory Accreditation Conference, National Environmental Laboratory Accreditation Program for the above analyses/analytical methods for both potable and non-potable water. As indicated in **Table 2**, samples from the wells in the biowall process monitoring group (MWT-23, MWT-26, MWT-27, MWT-28, and MWT-29),three wells from the on-site plume performance group (PT-17, PT-24, and MWT-7), and two upgradient monitoring wells (PT-18A and MW-40) were also submitted to SGS Orlando for analysis of the following:

- Nitrate, sulfate, and chloride by EPA SW846 Method 9056A
- Total organic carbon (TOC) by EPA SW846 Method 9060A
- Dissolved gases (methane, ethane, and ethene) by Method RSK 175.

During field sampling, the following geochemical parameters were recorded for the duration of low- flow sampling for each groundwater sample:

- pH, ORP, DO, temperature, conductivity, and turbidity were measured with a multi-parameter instrument (Horiba U-52)

In addition, a HACH® DR/890 Colorimeter was used in the field to measure manganese and ferrous iron at PT-17, PT-18A, PT-24, MW-40, MWT-7, MWT-23, MWT-26, MWT-27, MWT-28, and MWT-29. Manganese and ferrous iron were measured by EPA Method 8034 and EPA Method 8146, respectively. A summary of the analyses performed at each well location is presented in **Table 2**.

Groundwater samples were collected using low flow sampling techniques. Sampling procedures, sample handling and custody, holding times, and collection of field parameters were conducted in accordance with the Uniform Federal Policy – Quality Assurance Project Plan (EA Engineering, Science, and Technology, Inc., PBC [EA] 2023). Field forms for this sampling event are included in **Appendix A**.

Groundwater data from Year 18 were validated per the measurement performance criteria outlined in the Final Uniform Federal Policy – Quality Assurance Project Plan (EA 2023). No data quality concerns were reported, and no data was rejected from the data validation performed by Environmental Data Services, LTD. Data validation sheets are provided in **Appendix D**.

3.1.2 Groundwater Elevations

Synoptic groundwater elevation data were recorded on 17 June 2024. Groundwater elevation measurements are presented in **Table 3**. The groundwater elevations at all monitoring wells were within historically observed ranges (**Figure 5**). Shallow aquifer groundwater contours and groundwater flow direction based on gauging measurements are depicted on **Figure 6.**

3.1.3 Geochemical Data

Measurable changes in groundwater geochemistry were used to evaluate the effectiveness of substrate addition in inducing anoxic and reducing conditions that are favorable to anaerobic reductive dechlorination of chlorinated solvents. Groundwater conditions that are sulfate-reducing or methanogenic are particularly conducive to complete anaerobic reductive dechlorination.

Geochemical parameter results, organized with the most upgradient well listed first and the most downgradient well listed last, are presented in **Table 4**. A comparison of the geochemical parameters for wells MWT-26 (upgradient of Biowall B1) to MWT-28 (in Biowall B2) and PT-22 (upgradient of Biowall C1) and MWT-23 (in Biowall C2) for Year 18, summarized below, demonstrates changes in geochemistry across the B1/B2 and C1/C2 Biowalls.

Dissolved Oxygen

DO is the most favored electron acceptor (i.e., yields the most energy) used by microbes during biodegradation of organic carbon, and its presence will inhibit the anaerobic degradation of chlorinated ethenes. DO <0.5 milligrams per liter (mg/L) is generally ideal for anaerobic dechlorination to occur (EPA 1998). In the wells sampled within Biowalls B1/B2 and Biowall C2, DO levels are depleted in Biowall B1 (0.00 mg/L) but elevated in Biowall B2 (1.34 mg/L) in comparison to upgradient DO levels at MWT-26 (0.87 mg/L) and DO levels are depleted in Biowall C2 (0.16 mg/L) in comparison to upgradient DO levels at PT-22 (1.02 mg/L) (**Table 4**).

Sulfate

Sulfate is an alternate electron acceptor utilized during sulfate reduction for microbial respiration in the absence of oxygen, nitrate, and ferric iron. Sulfate levels lower than 20 mg/L are ideal to prevent inhibition of reductive dechlorination of chlorinated ethenes (EPA 1998). Reduced sulfate concentrations within or immediately downgradient from treatment areas are indicative of active sulfate reduction. Sulfate concentrations were greater than 20 mg/L in Biowall B1 (MWT-27) and less than 20 mg/L in Biowall B2 (MWT-28), and Biowall C2 (MWT-23) (**Table 4**). Elevated sulfate concentrations have occasionally been recorded in the biowalls in past rounds but these concentrations are considered outliers and have been followed by a return to concentrations below the sulfate benchmark of 20 mg/L. Compared to the well upgradient of Biowalls B1 and B2, sulfate concentrations within the B1/B2 biowalls are two orders of magnitude lower than at the upgradient well (542 mg/L at MWT-26) indicating that sulfate reduction is occurring and that the environment within the biowalls is anoxic/reducing and conducive to anaerobic biodegradation. Downgradient of the biowalls, sulfate concentrations are greater that within the biowalls (91.6 mg/L at MWT-29).

Methane

The presence of methane in groundwater is indicative of strongly reducing methanogenic conditions which are conductive to rapid and complete reductive dechlorination of chlorinated solvents. Methanogenesis generally occurs after oxygen, nitrate, iron, and sulfate have been depleted in the treatment zone though all of these reduction processes can occur at the same time. Concentrations of methane greater than 1,000 micrograms per liter (µg/L) are indicative of ongoing methanogenesis and conditions for dechlorination to occur most efficiently (ESTCP 2004). An increase in the concentrations of methane indicates that reducing conditions optimal for anaerobic reductive dechlorination are present. Methane was detected in the well upgradient of Biowall B1/B2 (MWT-26) at a concentration of 22 µg/L. Compared to these concentrations, at the process wells located within Biowalls B1, B2, and C2, methane concentrations were orders of magnitude greater and ranged from 4,420 J µg/L to 8,270 µg/L (**Table 4**). This data demonstrates that there is an increase in the level of methanogenic activity within the biowalls compared to upgradient locations.

Oxidation-Reduction Potential

ORP indicates the level of electron activity in groundwater and the tendency of groundwater to accept or transfer electrons. Low ORP, considered to be less than -100 millivolts (mV), indicates reducing conditions are present and the environment is conducive for anaerobic reductive dechlorination to occur; however, reductive pathways are still possible at ORP levels up to +50 mV (EPA 1998).

The ORP values within Biowalls B1/B2 ranged from -84.0 mV to -51.0 mV (**Table 4**). Within Biowall C2 measured ORP (-24.0 mV) is expected to support dechlorination. The typically positive ORP value at the upgradient well (PT-22) was measured at -32 mV (**Table 4**).

Typically, the historical trend for ORP in the LTM data is positive ORP values upgradient of the biowalls and negative ORP values within the biowalls. The consistent negative ORP values observed within the biowalls indicate that a reducing environment has been present within the biowalls throughout the LTM program.

Total Organic Carbon

The presence of organic substrate is necessary to stimulate and sustain anaerobic degradation processes. In biowalls, organic carbon acts as an energy source for anaerobic bacteria and drives reductive dechlorination. Based on the guidance for monitored natural attenuation, concentrations of TOC greater than 20 mg/L are desirable for naturally occurring anoxic conditions and reductive dechlorination to occur and are considered to be sufficient in natural sources to maintain sulfate reducing and methanogenic conditions (EPA 1998). The biowall system is an engineered system specifically designed for anaerobic dechlorination. TOC concentrations in the biowalls remain greater than the concentrations upgradient and downgradient of the walls (**Table 4**). The TOC concentration observed at MWT-26, which is upgradient of the biowalls, was 4.8 mg/L. For comparison, the TOC concentrations in the B1/B2 biowalls ranged from 19.7 mg/L to 33.3 mg/L which is adequate to sustain anaerobic treatment.

A decrease in the concentration of TOC occurs as readily degraded organics (i.e., vegetable oil and cellulose) in the mulch mixture are consumed. TOC concentrations on-site have remained sufficiently high historically to serve as an energy source for anaerobic bacteria in the biowalls; however, the TOC concentrations from MWT-23 (3.9 µg/L) in Biowall C2 have decreased below suggested benchmark values of 20 µg/L. Although TOC has remained low, sampling results from PT-22 located upgradient and MWT-24 located downgradient indicate that reductive dechlorination processes are occurring.

Ferrous Iron and Manganese

Iron III (ferric iron) is an electron acceptor used by iron-reducing bacteria under anaerobic conditions to produce Iron II (ferrous iron). Iron III is relatively insoluble in groundwater relative to Iron II. Therefore, an increase in concentrations of Iron II in groundwater is a clear indication that anaerobic iron reduction is occurring. Similarly, manganese (IV) is an electron acceptor used by manganese-reducing bacteria under anaerobic environments; to produce soluble manganese (II). Under anaerobic conditions, the presence of manganese (II) and ferrous iron in the biowalls at concentrations above those found at upgradient locations, or locations unaffected by the biowalls, demonstrates that manganese and iron reduction are occurring at the site.

Ferrous iron and manganese concentrations within the biowalls ranged as high as 3.3 mg/L and greater than 47.5 mg/L, respectively. Ferrous iron concentrations measured in the biowalls were lower than upgradient concentrations. This is an outlier compared to previous ferrous iron concentrations but may be indicative that conditions within the biowalls are not as anaerobic or conducive to the degradation of chlorinated ethenes. Manganese concentrations were similar within the biowalls and upgradient locations. The high concentration of manganese within the biowalls is still an indicator that reductive conditions are present.

3.2 DATA SUMMARY (YEAR 18)

Monitoring data for wells within the biowalls during the Year 18 LTM indicate the following:

- DO remains below 0.5 mg/L at Biowalls B1 and Biowall C2 (range of 0.00 mg/L to 0.16 mg/L), indicating favorable conditions for reductive dechlorination in the biowalls. DO at MWT-28 was greater than 0.5 mg/L during the sample collection, indicating unfavorable conditions for reductive dechlorination in the biowall.

- Concentrations of TOC remain elevated in Biowalls B1/B2 (19.7 mg/L to 33.3 mg/L) compared to the upgradient well (4.8 mg/L), indicating that the energy source that promotes anaerobic bacteria growth in the biowalls is sufficiently high. TOC concentrations within Biowall C2 are consistent with previous sampling rounds (3.9 mg/L) therefore the biowall may need to be refreshed in the next year.

- ORP values at Biowalls B1/B2 ranged from -84.0 mV to -51.0 mV, which are lower than the upgradient well (65.0 mV at MWT-26), indicating that conditions continue to be suitable for reductive dechlorination. ORP at Biowall C2 (-24.0 mV) was also within the range indicative of suitable conditions though this is the highest value ever reported at this location indicating the biowall may need to be refreshed in the next year.

- Sulfate concentrations are an order of magnitude lower within the biowalls than in the upgradient well indicating that sulfate reduction is occurring within the biowalls and sulfate is not present at concentrations that might inhibit anaerobic reductive dechlorination within the biowalls. Downgradient concentrations greater than 20 mg/L indicate a decrease in sulfate reduction and imply that the biowalls need to be refreshed in the next year.

- Methane concentrations within the biowalls ranged from 4,420 µg/L to 8,720 µg/L, indicating strongly reducing methanogenic conditions are present.

- Ferrous iron concentrations are (Fe: 1.38 mg/L to 3.3 mg/L) in the biowalls are lower compared to upgradient wells, indicating iron reduction processes may not be occurring within the biowalls. Manganese concentrations were similar within the biowalls and upgradient locations. The high concentration of manganese within the biowalls is still an indicator that reductive conditions are present.

The geochemical parameters outlined above suggest that biowall environment remains suitable for biodegradation but that the environment within the biowalls may not be as conductive to degradation compared to previous years monitoring and that the biowalls may need to be refreshed in the next year to ensure continued effectiveness. While concentrations of site COCs remain above standards upgradient and downgradient of the walls, COC concentrations within the biowalls were non-detect for the Year 18 sampling event. Biowall concentrations post-refresh are shown in **Appendix E**.

3.3 GROUNDWATER REMEDY EVALUATION

The concentrations of chlorinated ethenes detected in groundwater during each round of LTM are presented in **Table 5**. The discussion below focuses on data collected during Year 18 (Round 34) of the LTM program and addresses how the remedial action objectives are being achieved.

3.3.1 Achievement of First Performance Monitoring Objective

- Confirm that there are no exceedances of groundwater standards for COCs at the off-site monitoring well MW-56R (overburden) and MW-58D (bedrock).

Concentrations of chlorinated ethenes at former off-site well MW-56 were historically low or non-detect with concentrations of TCE, *cis*-DCE, and VC below regulatory standards. In February 2022, MW-56 was abandoned due to impacts from a newly excavated drainage ditch. MW-56R was installed as a replacement well, 150 feet of upgradient of the former MW-56 well toward the SEAD boundary (**Figure 2**). *Cis*-DCE exceeded the NYS Class GA standard of 5 µg/L with a concentration of 9.4 µg/L (**Figure 7**). Based on the 2024 sampling data, CVOCs are present offsite at concentrations exceeding groundwater standards.

The addition of MW-58D to this year's monitoring was to confirm there are no impacts to the bedrock aquifer. MW-58D is located 215 feet down gradient of the Ash Landfill boundary (**Figure 2**) and set into the bedrock aquifer approximately 57 feet bgs. Based on the 2024 sampling data, CVOCs are not present in the bedrock aquifer, therefore are not impacting offsite bedrock receptors.

3.3.2 Achievement of Second Performance Monitoring Objective

- Document the effectiveness of biowalls to remediate and attenuate the chlorinated ethene plume.

Within the biowall wells MWT-27 (in Biowall B1), MWT-28 (in Biowall B2), and MWT-23 (in Biowall C2), TCE was not detected. (**Table 5**). Within the biowall wells MWT-27 (in Biowall B1) and MWT-28 (in Biowall B2)cis-DCE and VC were not detected. Cis-DCE and VC were reported below NYS Class GA standards in biowall well MWT-23 (in Biowall C1)with concentrations of 0.37 J µg/L and 0.8 J µg/L, respectively.

The absence of TCE and presence of low levels of *cis*-DCE, VC, and the production of methane, is evidence that the reductive dechlorination path is progressing towards complete mineralization. The reduction in concentrations of TCE and *cis*-DCE measured within the biowall wells compared to upgradient concentrations suggests that dehalogenation and the dechlorination of chlorinated ethenes is active. Therefore, the biowalls are currently operating as expected.

3.3.3 Achievement of Third Performance Monitoring Objective

- Confirm that groundwater concentrations throughout the plume are decreasing to eventually meet GA standards.

Overall concentrations of TCE, *cis*-DCE, and VC have decreased over the 34 sampling events (**Appendix B, Figures B-1 through B-13**).

The highest reductions in contaminant concentrations are found within the biowalls themselves relative to downgradient locations. The spikes in contaminant concentration downgradient of the biowall are interpreted as likely desorption of contaminant mass from the native formation and back-diffusion of contaminants from low-permeability soils. Although the downgradient locations should be used to monitor the overall performance of the biowalls, samples from downgradient locations may not accurately reflect the rate and extent of degradation that is occurring within the treatment zone (Interstate Technology & Regulatory Council 2011). The overall decline in contaminant concentrations at downgradient wells over time is likely a combination of degradation occurring within the biowalls combined with natural attenuation mechanisms and slowed by back-diffusion of additional contaminant mass into the mobile groundwater system.

Upgradient of Biowalls A1/A2 and B1/B2, in the historical source in the area of monitoring well PT-18A, TCE concentrations fluctuate but remains above groundwater standards (this sampling event 297 µg/L). Since LTM began in 2007, TCE concentrations at PT-18A have fluctuated from below the detection limit to 3,800 µg/L (**Table 5**). Concentrations of TCE at well MWT-25 (upgradient of Biowall A1/A2) have decreased from 50 µg/L in Round 1 to below the NYS Class GA groundwater standard; however, TCE has recently increased above the NYS Class GA groundwater standard in well MWT-25.

The overall trend in the concentration of TCE at well MWT-26 (between Biowalls A1/A2 and Biowalls B1/B2) is decreasing over time (**Appendix B, Figure B-3**). Since Round 9, TCE concentrations in well MWT-26 were below its NYS Class GA standard (**Table 5**). During the same time period, *cis*-DCE and VC have ranged in concentrations generally increasing and decreasing with corresponding changes in TCE concentrations; however, after Round 24, both *cis*-DCE and VC were detected at elevated concentrations in the summer sampling rounds followed by a decrease in concentration in the winter sampling events. This increase in concentrations of *cis*-DCE and VC may correspond to an increase in the breakdown of TCE related to the recent biowall refresh (between Round 23 and Round 24) followed by a period of reduced activity.

Increases in COC concentrations are observed at MWT-25 (TCE, *cis*-DCE, and VC) and MWT-26 (*cis*-DCE and VC) (**Appendix B, Figure B-2 and B3**). The increase in concentration of daughter compounds may be related to the breakdown of TCE and is expected. Elevated concentrations of the three COCs are subsequently reduced in the B1/B2 and C1/C2 biowalls (**Figures 8 through 10**). Several wells exhibit seasonal variation of the main COC concentrations, with higher concentrations observed in the summer sampling rounds and lower concentrations in the winter sampling rounds (e.g., MWT-25, MWT-26, and MWT-29; **Appendix B**, **Figures B-2, B-3, and B-6**, respectively).

Downgradient of the biowalls, TCE concentrations at PT-17 (15.3 µg/L) and MWT-7 (146 µg/L) remain in exceedance of the NYS Class GA standard (5 µg/L). TCE concentrations at MWT-7 appear to be oscillating about a mean (~192 µg/L) since the biowall recharge while PT-17 shows an increasing trend (**Appendix B, Figures B-12 and B-10,** respectively). TCE concentrations at

MWT-24 and PT-24 remain below the NYS Class GA standard (5 µg/L) while *cis*-DCE (greater than NYS Class GA standard of 5 µg/L) and VC show decreasing trends at both well locations (**Appendix B, Figure B-11 and B-13,** respectfully).

3.3.4 Other Compounds

During Year 18, *trans*-1,2-DCE was detected in exceedance of the NYS Class GA standard (5 µg/L) at PT-17, PT-12A, and PT-22 with concentrations of 13.4, 6.1, and 1.3 µg/L respectively. *Trans*-1,2-DCE is the other form of 1,2-DCE and, along with *cis*-DCE, is an expected degradation product of the breakdown of TCE (**Figure 4**). No other chlorinated compounds were detected above the NYS Class GA standard during Year 18. Future rounds of groundwater sampling will continue to monitor other analytes including additional daughter products of TCE in the reductive dechlorination process. The results of all analytes detected in the groundwater at the Ash Landfill from the 2024 sampling event are presented in **Table 6** and **Appendix C**.

3.4 SOIL REMEDY EVALUATION

Part of the RA was installing a 12-inch vegetative cover over the Ash Landfill and the NCFL. The covers were inspected and field observations from Year 18 note that the landfills are vegetated with native grasses. At the NCFL, visual observations noted the presence of deer trails; however, there were no signs of erosion into the cover. Soil has not been exposed to the environment and corrective action is not required in any of the inspection areas.

3.5 LAND USE CONTROLS

The remedy for the Ash Landfill OU requires the implementation and maintenance of land use controls (LUCs). The LUC requirements are detailed in the *Land Use Control Remedial Design for SEAD-27, 66, and 64A, Addendum 3* (Parsons 2008a). The selected LUCs for the Ash Landfill OU are as follows:

- Prevent access to or use of the groundwater until cleanup levels are met
- Maintain the integrity of any current or future remedial or monitoring system, such as monitoring wells and permeable reactive barriers
- Prohibit excavation of the soil or construction of inhabitable structures (temporary or permanent) above the area of the existing groundwater plume
- Maintain the vegetative soil layer over the ash fill areas and the NCFL to limit ecological contact to impacted soils.

As part of the LTM program, U.S. Army Corps of Engineers (USACE) annually inspects the site to determine if the LUCs are being maintained. While performing the groundwater sampling, it was confirmed that no prohibited facilities have been constructed and no access to or use of groundwater was evident other than that needed for monitoring. The vegetative covers continue to limit/prevent ecological contact with the underlying soil.

3.6 MONITORING WELL INSPECTIONS

Prior to the LTM sampling event site wells were inspected and the appropriate repairs were made. These well repairs are detailed in Section 4.

3.7 OPERATING PROPERLY AND SUCCESSFULLY

The implemented design has met the requirements in previous years LTM activities for operating properly and successfully (OPS) as outlined in Section 12(h)(s) of the EPA Guidance for Evaluation of Federal Agency Demonstrations (EPA 1996). Parsons submitted a letter on behalf of USACE to EPA, dated 6 June 2008, declaring that the USACE had determined that the remedy met the OPS requirements. USACE submitted a letter under separate cover on 26 February 2009 further certifying that the "information, data and analysis provided in the Parsons 6 June 2008 letter was true and accurate." On 11 March 2009, the EPA transmitted a letter to USACE approving the OPS demonstration.

3.7.1 The Remedial Action is Operating "Properly"

The EPA guidance describes that "a remedial action is operating 'properly' if it is operating as designed."(EPA 1996). The Construction Completion Report (Parsons 2007) details that the vegetative covers were installed as designed, meeting or exceeding the 12-inch soil cover requirement. Section 3.4 describes that the covers are intact and effectively prevent ecological contact with the underlying soil; therefore, the vegetative covers are operating properly.

The Construction Completion Report (Parsons 2007) also details the construction of the biowalls. Deviation from the intended design resulted in wider-than-intended biowalls that required the emplacement of additional mulch; since this is an enhancement of the design, it can be concluded that the biowalls were constructed in excess of design and the remedy component that was installed is more robust and conservative than designed. The geochemical data presented and discussed in Section 3.1 indicate that conditions that are favorable to anaerobic reductive dechlorination were established and continue to persist within and near the biowalls, which was the expectation of the design of the biowall system.

3.7.2 The Remedial Action is Operating "Successfully"

An RA may receive EPA's designation of "operating successfully" if (1) "a system will achieve the cleanup levels or performance goals delineated in the decision document," and (2) "the remedy is protective of human health and the environment" (EPA 1996). The data presented in Section 3.3 demonstrate that the biowalls are working effectively to reduce VOC concentrations in close proximity to the biowalls. Concentrations of COCs upgradient and downgradient of the biowalls indicate residual contamination is still present. The concentration versus time plots presented in **Appendix B**, **Figures B-1 through B-13** illustrate that TCE contaminant mass was reduced substantially through the use of enhanced bioremediation and that fluctuations in the concentrations of daughter products were a result of the breakdown of any remaining TCE mass.

Recent inspection of the vegetative covers at the Ash Landfill and the NCFL continue to indicate that the covers are preventing ecological receptors from contacting the underlying soil; therefore,

there is no risk to the environment. The LUCs have been maintained and no one is accessing the groundwater; therefore, there is no risk to human health. Based on a review of the site data, an inspection of the condition of the vegetative covers, and confirmation that the LUCs are being maintained, the remedial action is operating successfully.

While the implemented remedy may be considered to be operating successfully, elevated concentrations of CVOCs remain in the former source area and in area outside of the treatment influence of the biowalls. Additionally, the reported exceedance of *cis*-DCE, MW-56R, located off-depot, suggest additional RSO activities are required to bring the site back into compliance.

4. REMEDIAL SYSTEM OPTIMIZATION FIELD ACTIVITIES

4.1 RSO FIELD ACTIVITIES

During the Year 18 LTM additional RSO field activities and data collection, recommended in the Year 17 LTM Report, were conducted to inform optimization activities intended to decrease anticipated remedial timeframes and ensure effectiveness of the implemented remedy. RSO field activities conducted include the following:

- Monitoring well inspections at all site monitoring wells including 23 monitoring wells outside the existing LTM program.
- Monitoring well maintenance and repairs at all 37 site monitoring wells.
- Monitoring well redevelopment at 10 site monitoring wells that are not part of the current LTM program (sampling or gauging).
- Monitoring well sampling via low-flow methodologies at 37 site monitoring wells (14 LTM and 23 additional RSO wells)
- Offsite well search to determine potential downgradient receptors.

4.1.1 Monitoring Well Inspections and Maintenance

Site wide monitoring well inspections and maintenance were conducted on 20-21 May 2024. Following the well inspections, the identified maintenance activities were completed. These maintenance activities include:

- Installed reflective markers at all 37 site monitoring wells.
- Cut down well risers that extended beyond the surface casing caused by heaving at PT-17, PT-18A, MW-48, MWT-25, MWT-26, MWT-27, MWT-28, and MWT-29.
- Redeveloped monitoring wells PT-12A, MW-58D, MWT-1, MWT-2, MWT-3, MWT-4, MWT-5, MWT-6, MWT-8, and MWT-9.
- Resurvey all 37 monitoring wells by a NYS licensed surveyor.

4.1.2 Monitoring Well Redevelopment

Monitoring wells that were to be sampled for the RSO but are not part of the current LTM program were redeveloped due to not having been sampled in several years. Redevelopment took place on 20-22 May 2024. Monitoring wells that were redeveloped include PT-12A, MW-58D, MWT-1, MWT-2, MWT-3, MWT-4, MWT-5, MWT-6, MWT-8, and MWT-9.

Monitoring well development logs can be found in **Appendix A**.

4.1.3 Offsite Well Search

An offsite well search was conducted to confirm potential receptors downgradient of the site. The well search included the following components:

- Review of historical documents
- Records search with the Town of Romulus Town Clerk, Seneca County Clerk, Seneca County Environmental Health Department. NYSDEC well database, and the NYS Geographic Information Systems Clearinghouse.
- Phone interview with the property owner immediately downgradient from the site to confirm the presence of water wells on their property.

After review of historical documents and a records search, two overburden wells and one bedrock well were identified at 1131 Smith Vineyard Rd, Romulus, NY, and one bedrock well was identified at 1216 Smith Vineyard Road, Romulus, NY.

After a phone interview with the property owner of both 1131 and 1216 Smith Vineyard Road, it was determined that the two overburden wells at 1131 Smith Vineyard Road were hand dug wells that were filled in ten to fifteen years ago by the property owner. The bedrock well (residential well identified on **Figure 3**) is an open borehole down to 256 feet bgs and draws water from the deeper bedrock aquifer. This well is cased to 18 feet bgs and while the depth to bedrock is unknown, based on the local geology it is likely cased into bedrock. The property owner also explained the bedrock well at 1216 Smith Vineyard Road is no longer in use due to colloidal clays present in the groundwater and water is trucked into the residence. The bedrock well at 1216 Smith Vineyard Road is an open borehole 90 feet deep. The bedrock in this location is 10 feet bgs and the well is cased to a depth of approximately 20 feet bgs. Locations of the two bedrock wells are shown in **Figure 3**.

4.1.4 Additional RSO Monitoring Well Sampling

As part of the RSO monitoring well sampling, an additional 23 monitoring wells were sampled during the year 18 LTM. The addition of site monitoring wells helped confirm if the existing LTM network is adequate to monitor the CVOC plume, confirm if off-site migration is occurring both in the overburden and bedrock aquifers, inform additional monitoring well needs, evaluate geochemical conditions across the site, and identify potential areas for additional remedy treatment. The additional RSO monitoring wells are detailed in **Table 2** and **Figure 2**.

Based on the results of the expanded RSO sampling, the following has been concluded:

- No site COCs are migrating around the northern or southern boundaries of the biowalls as confirmed by non-detect results in MW-48 and MW-27 to the north and MW-32 and PT-19 to the south.

- No site COCs have impacted down gradient bedrock well MW-58D.
- Elevated concentrations of site COCs are still persistent upgradient of the biowalls with exceedances in MW-44A, MWT-25, and PT-18A.
- Two localized hotspots with site COC exceedances greater than 100 µg/L have been identified, one upgradient of the biowalls and one downgradient of the biowalls.

Exceedances of site COCs and locations of hotspots are depicted in **Figures 7 through 10**.

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Based on the results of LTM at the Ash Landfill since the installation of the full-scale biowalls, the USACE has made the following conclusions:

- TCE within the biowalls remains non-detect
- TCE, *cis*-DCE, and VC are present in groundwater at the site at concentrations above respective NYS Class GA groundwater standards
- Chemical results indicate that the concentrations of chlorinated ethenes are decreasing as they pass through the biowall systems
- Geochemical parameters indicate that groundwater redox conditions continue to support anaerobic reductive dechlorination within the biowalls, though they are trending in a direction where a biowall recharge and further amendment is necessary.
- The Performance Monitoring Objective of preventing off-site migration of COCs has not been met with concentrations of cis-DCE above standard at off-site well MW-56R
- Vegetative covers are intact and preventing ecological receptors from contacting the underlying soil
- While the remedial action meets the requirements of the EPA's OPS designation, the presence of off-site COC migration and persistent concentrations of site COCs upgradient and down gradient of the biowalls suggest further remedial optimizations are warranted at the site.

5.2 RECOMMENDATIONS

Recommendations for the site include:

- To ensure continued successful operation of the implemented remedy, a second recharge of the biowalls should be conducted in 2025.
- Additional monitoring wells should be installed to define the full plume extent including (**Figure 11 and Table 7**):
    - A nested overburden and weathered bedrock monitoring well downgradient (west) of MW-56R and MW-58D, located upgradient of the residential well, and situated along Smith Vineyard Rd.
    - One overburden well south of MWT-7 and Smith Vineyard Road to ensure no site COCs are migrating offsite in a southwesterly direction (**Figure 11**).

  - Four overburden wells to further delineate the remaining upgradient source area, one north of and one south of the B1/B2 Biowall, and two overburden wells at the upgradient boundary of SEAD-6.

- During the 2025 sampling event, evaluate the drainage ditch in vicinity of MW-56R for presence of springs and collect a surface water grab sample if water is present.

- The additional RSO wells gauged and sampled in 2024 should be gauged and sampled again in 2025 along with newly installed monitoring wells.

This page intentionally left blank

6. REFERENCES

Brett, C., Baird, G., and Fakundiny, R.H. 1995. *Draft Bedrock Geologic Map of the South Onondaga 7.5 Minute Quadrangle, Onondaga County, NY; with engineering geology, groundwater characteristics, and economic potential of bedrock units by Robert H. Fickies*. NYSGS Open-file no. 1g1104.

EA Engineering, Science, and Technology, Inc., PBC (EA). *Final 2023 Uniform Federal Policy Quality Assurance Protection Plan, Long-Term Monitoring/Land Use Controls Management Former Seneca Army Depot*. June.

———. 2024a. *Ash Landfill Annual Report and Year 17 Review*. March.

———. 2024b. *Final Uniform Federal Policy Quality Assurance Protection Plan Addendum No. 1, Long-Term Monitoring/Land Use Controls Management Former Seneca Army Depot*. June.

ESTCP. 2004. *Final Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents*. August.

Interstate Technology & Regulatory Council. 2011. Permeable Reactive Barrier: Technology Update. June.

Parsons 1994. *Remedial Investigation Report at the Ash Landfill Site, Final*. July.

———. 2000. *Groundwater Remediation Alternatives Using Zero Valence Iron Continuous Reactive Wall at the Ash Landfill, Draft*. August.

———. 2004. *Record of Decision for the Ash Landfill Operable Unit, Final*. July.

———. 2006a. *Remedial Design Work Plan for the Ash Landfill Site at Seneca Army Depot Activity*. July.

———. 2006b. *Revised Final Remedial Design Report for the Ash Landfill Operable Unit.* August.

———. 2007. *Draft Final Construction Completion Report for the Ash Landfill Operable Unit, Seneca Army Depot Activity*. April.

———. 2008a. *Land Use Control Remedial Design for SEAD-27, 66, and 64A, Addendum 3*.

———. 2013. *Final Well Decommissioning Report, Ash Landfill Operable Unit, SEAD-4, SEAD-5, SEAD-11, SEAD12, SEAD-13, SEAD-24, SEAD-25, SEAD-26, SEAD-27, SEAD-48, SEAD-59, SEAD-63, SEAD-67, SEAD-70, SEAD-71, SEAD-119B, SEAD-121C, & SEAD-122B, Seneca Army Depot.* March.

———. 2018. *Draft Biowall Recharge Completion Report. Ash Landfill Operable Unit. Seneca Army Depot Activity*. October.

———. 2022. *Final Annual Report and Year 15 Review. Ash Landfill Operable Unit, Seneca Army Depot Activity*. September.

US Army Environmental Hygiene Agency. 1987. Interim Final Report, Groundwater Contamination Survey No. 38-26-0868-88. July.

U.S. Environmental Protection Agency (EPA). *1996. Guidance for Evaluation of Federal Agency Demonstrations that Remedial Actions are Operating Properly and Successfully, Interim*. August.

———. 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water. EPA/600/R-98/128*. September.

Tables

Table 1. LTM Event Summary

LTM Year	Round Number	Sample Date	Report Title
Year 1	1Q2007	3-4 January 2007	FINAL Annual Report and One-Year Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2008a)
	2Q2007	15-17 March 2007	
	3Q2007	5-7 June 2007	
	4Q2007	13-15 November 2007	
Year 2	5R2008	24-26 June 2008	FINAL Annual Report and Year Two Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2009)
	6R2008	11-15 December 2008	
Year 3	7R2009	1-4 June 2009	FINAL Annual Report and Year Three Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2010)
	8R2009	14-18 December 2009	
Year 4	9R2010	28 June - 2 July 2010	FINAL Annual Report and Year 4 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2011)
	10R2010	14-19 December 2010	
Year 5	11R2011	18-22 July 2011	DRAFT Annual Report and Year 5 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2012)
	12R2011	12-15 December 2011	
Year 6	13R2012	18-22 June 2012	FINAL Annual Report and Year 6 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2014a)
	14R2012	10-14 December 2012	
Year 7	15R2013	8-11 July 2013	DRAFT Annual Report and Year 7 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2014b)
	16R2013	9-14 December 2013	
Year 8	17R2014	17-22 June 2014	DRAFT Annual Report and Year 8 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2015)
	18R2014	15-19 December 2014	
Year 9	19R2015	2-6 June 2015	FINAL Annual Report and Year 9 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2017c)
	20R2015	15-19 December 2015	
Year 10	21R2016	14-17 June 2016	DRAFT Annual Report and Year 10 Review Ash Landfill Operable Unit Seneca Army Depot Activity –(Parsons 2017b)
	22R2016	5-10 December 2016	
Year 11	23R2017	27-19 June 2017	Annual Report and Year 11 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons 2019c)
	24R2018	23-25 January 2018	
Year 12	25R2018	1-3 June 2018	Annual Report and Year 12 Review Ash Landfill Operable Unit Seneca Army Depot Activity – (Parsons, 2019b)
	26R2018	19-21 December 2018	
Year 13	27R2019	24-27 June 2019	Annual Report and Year 13 Review Ash Landfill Operable Unit Seneca Army Depot Activity - (Parsons 2021)
	28R2019	11-13 December 2019	
Year 14	29R2020	21-29 May 2020	Annual Report and Year 14 Review Ash Landfill Operable Unit Seneca Army Depot Activity - (Parsons 2022)
	30R2021	17-23 March 2021	
Year 15	31R2021	8-10 June 2021	Annual Report and Year 15 Review Ash Landfill Operable Unit Seneca Army Depot Activity - (Parsons 2022)
	32R2021	7-14 December 2021	
Year 17	33R2023	26-29 June 2023	Ash Landfill Annual Report and Year 17 Review Former Seneca Army Depot
Year 18	34R2024	17-20 June 2023	Ash Landfill Annual Report and Year 18 Review Former Seneca Army Depot - (This Report)

Notes:
LTM = Long-term monitoring

Table 2. Groundwater Sample Collection

Monitoring Wells	Monitoring Well Group				Laboratory Analysis				Field Test	
	On-Site Plume Performance Monitoring	Biowall Process Monitoring	Off-Site Performance Monitoring	Additional RSO Sampling	VOC 8260C	TOC 9060A	MEE RSK-175	Sulfate, Nitrate, and Chloride EPA 300.1	Ferrous Iron (mg/L) Method 8146	Manganese (mg/L) Method 8034
PT-18A	X				X	X	X	X	X	X
MWT-25	X				X					
MWT-26		X			X	X	X	X	X	X
MWT-27		X			X	X	X	X	X	X
MWT-28	X	X			X	X	X	X	X	X
MWT-29	X	X			X	X	X	X	X	X
MWT-22	X				X					
PT-22	X				X					
MWT-23	X	X			X	X	X	X	X	X
MWT-24	X				X					
PT-17	X				X	X	X	X	X	X
MWT-7	X				X	X	X	X	X	X
PT-24	X				X	X	X	X	X	X
MW-56R			X		X					
PT-12A				X	X					
PT-16				X	X					
PT-19				X	X					
PT-20				X	X					
MW-27				X	X					
MW-29				X	X					
MW-32				X	X					
MW-39				X	X					
MW-40				X	X	X	X	X	X	X
MW-44A				X	X					
MW-46				X	X					
MW-48				X	X					
MW-58D				X	X					
MW-60				X	X					
MWT-1				X	X					
MWT-2				X	X					
MWT-3				X	X					
MWT-4				X	X					
MWT-5				X	X					
MWT-6				X	X					
MWT-8				X	X					
MWT-9				X	X					
MWT-10				X	X					

Notes:

1. All samples were analyzed for field parameters including pH, ORP, dissolved oxygen, conductivity, temperature and turbidity.
2. All samples were collected during Round 34 between June 17-20, 2024.

MEE = Methane, ethene, ethane
mg/L = Milligram(s) per liter
TOC = Total organic carbon
VOC = Volatile organic compound
RSO = Remedial System Optimization

Table 3. Groundwater Elevation Data

Monitoring Well	Top of Riser Elevation (ft)	Well Depth (rel. TOC) (ft)	LTM Round 34 - June 2024				Historical Data		
			Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation	Groundwater Elevation (ft)		
							Maximum	Minimum	Range
PT-18A	657.43	12.15	6/17/2024	3.81	8.34	649.09	653.25	645.84	7.41
MWT-25	653.41	12.84	6/17/2024	5.81	7.03	646.38	650.65	645.60	5.05
MWT-26	651.19	12.74	6/17/2024	6.46	6.28	644.91	648.92	644.55	4.37
MWT-27	651.62	12.09	6/17/2024	5.43	6.66	644.96	648.60	644.07	4.53
MWT-28	651.19	12.52	6/17/2024	5.12	7.40	643.79	648.31	642.46	5.84
MWT-29	650.35	12.78	6/17/2024	4.84	7.94	642.41	648.09	641.76	6.32
MWT-22	650.79	14.84	6/17/2024	7.11	7.73	643.06	648.13	642.24	5.90
PT-22	648.49	11.98	6/17/2024	2.56	9.42	639.07	644.30	637.03	7.27
MWT-23	645.72	13.66	6/17/2024	4.26	9.40	636.32	640.71	634.50	6.21
MWT-24	639.97	12.76	6/17/2024	3.96	8.80	631.17	635.84	629.40	6.44
PT-17	637.25	6.97	6/17/2024	0.60	6.37	630.88	637.50	630.31	7.19
MWT-7	637.37	13.67	6/17/2024	6.02	7.65	629.72	633.58	626.58	7.00
PT-24	636.11	11.82	6/17/2024	5.68	6.14	629.97	632.76	627.65	5.11
MW-56R	633.16	15.02	6/17/2024	7.40	7.62	625.54	625.60	625.54	0.06
PT-12A	650.92	12.23	6/17/2024	5.41	6.82	644.10	NA	NA	NA
PT-16	637.24	10.99	6/17/2024	5.97	5.02	632.22	NA	NA	NA
PT-19	644.97	11.62	6/17/2024	5.34	6.28	638.69	NA	NA	NA
PT-20	647.00	11.59	6/17/2024	3.67	7.92	639.08	NA	NA	NA
MW-27	639.16	10.11	6/17/2024	3.18	6.93	632.23	NA	NA	NA
MW-29	636.86	10.16	6/17/2024	2.86	7.30	629.56	NA	NA	NA
MW-32	641.41	10.39	6/17/2024	1.58	8.81	632.60	NA	NA	NA
MW-39	659.40	11.92	6/17/2024	8.70	3.22	656.18	NA	NA	NA
MW-40	659.35	14.69	6/17/2024	8.05	6.64	652.71	NA	NA	NA
MW-44A	653.33	12.45	6/17/2024	6.24	6.21	647.12	NA	NA	NA
MW-46	650.00	11.45	6/17/2024	3.60	7.85	642.15	NA	NA	NA
MW-48	648.38	11.35	6/17/2024	5.74	5.61	642.77	NA	NA	NA
MW-58D	629.20	57.34	6/17/2024	52.65	4.69	624.51	NA	NA	NA
MW-60	659.68	10.05	6/17/2024	5.15	4.90	654.78	NA	NA	NA
MWT-1	636.25	10.10	6/17/2024	4.49	5.61	630.64	NA	NA	NA
MWT-2	636.28	9.60	6/17/2024	4.00	5.60	630.68	NA	NA	NA
MWT-3	636.43	10.10	6/17/2024	4.35	5.75	630.68	NA	NA	NA
MWT-4	636.85	12.48	6/17/2024	5.87	6.61	630.24	NA	NA	NA
MWT-5	636.80	12.00	6/17/2024	4.41	7.59	629.21	NA	NA	NA
MWT-6	636.62	12.51	6/17/2024	5.05	7.46	629.16	NA	NA	NA
MWT-8	637.43	12.50	6/17/2024	3.75	8.75	628.68	NA	NA	NA
MWT-9	637.08	14.18	6/17/2024	5.29	8.89	628.19	NA	NA	NA
MWT-10	635.11	8.89	6/17/2024	4.36	4.53	630.58	NA	NA	NA

Notes:
ft = Foot (feet)
LTM = Long-term monitoring
NA = Not available
TOC = Top of casing

Table 4. Groundwater Geochemical Data

Well ID	Location Description	Sample ID	Sample Round	pH	Turbidity (NTU)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	TOC (mg/L)	Sulfate (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Manganese (mg/L)	Ferrous Iron (mg/L)
PT-18A		ALBW20059	1Q2007	6.63	141.00	1.690	1.33	93.0							
		ALBW20117	5R2008	6.36	1.90	1.750	0.22	-10.0						8.2	> 3.3
		ALBW02177	9R2010	6.70	1.00	2.050	0.10	62.0						1.5	0.15
		ALBW20237	13R2012	6.80	4.25	1.060	0.12	78.0							
		ALBW20296	17R2014	6.95	0.77	1.200	0.15	76.0							
		ALBW20376	22R2016	6.50	0.81	1.800	1.57	152.0							
		ALBW20392	23R2017	7.00	2.38	1.320	0.17	90.0							
	Post-Refresh	ALBW20408	24R2018	7.10	3.25	0.959	4.73	248.0							
		ALBW20424	25R2018	7.53	3.77	1.034	9.77	-23.5							
		ALBW20439	26R2018	6.78	4.11	1.083	0.14	50.1							
		ALBW20455	27R2019	6.81	0.93	1.173	0.28	48.6							
		ALBW20471	28R2019	6.80	10.00	1.170	3.42	160.8							
		ALBW20487	29R2020	6.88	2.04	1.240	0.43	44.1							
		ALBW20503	30R2021	6.78	1.72	0.850	1.90	104.7							
		ALBW20519	31R2021	6.84	2.05	1.160	0.99	64.7							
		ALBW20535	32R2021	6.74	0.87	1.230	0.63	17.5							
		SEAD-AL-PT-18A-20230627	33R2023	6.79	12.21	1.140	0.83	-22.0							
		SEAD-AL-PT-18A-20240618	34R2024	6.62	179.00	1.120	0.37	25.0	7.2	356	ND	ND	9.3	>47.5	0.35
MWT-25	**Upgradient of Biowall A**	ALBW20064	1Q2007	8.00	9.60	0.290	2.83	63.0							
		ALBW20123	5R2008	6.91	0.52	1.470	0.15	-41.0						1.4	0.75
		ALBW20183	9R2010	7.06	0.70	1.480	0.20	-116.0							
		ALBW20243	13R2012	7.13	1.71	0.934	0.01	18.0							
		ALBW20302	17R2014	7.36	0.92	1.460	0.09	-19.0							
		ALBW20382	22R2016	6.90	0.47	1.850	1.63	153.0							
		ALBW20398	23R2017	7.30	1.83	1.400	0.15	-79.0							
	Post-Refresh	ALBW20414	24R2018	7.18	0.94	1.000	0.16	-64.0							
		ALBW20430	25R2018	7.43	2.88	0.917	0.68	-88.9							
		ALBW20440	26R2018	7.30	9.15	1.770	1.38	29.1						21.2	0
		ALBW20456	27R2019	7.05	0.80	1.665	0.19	-24.9							
		ALBW20472	28R2019	6.96	5.44	2.327	0.41	22.0						16.1	0.36
		ALBW20488	29R2020	7.09	2.22	1.820	0.42	76.3							
		ALBW20504	30R2021	7.10	1.97	0.930	2.80	40.1							
		ALBW20520	31R2021	6.96	2.53	1.470	1.05	-66.0							
		ALBW20536	32R2021	6.96	4.19	1.830	0.90	-33.4							
		SEAD-AL-MWT-25-20230627	33R2023	6.79	0.20	1.480	0.82	-89.0							
		SEAD-AL-MWT-25-20240618	34R2024	6.80	0.00	1.450	0.45	-70.0							
MWT-26	**Upgradient of Biowalls B1/B2**	ALBW20066	1Q2007	6.89	10.00	2.010	1.84	-3.0	3.9 J	958	ND	ND	ND		
		ALBW20126	5R2008	7.05	0.67	1.880	0.31	-71.0	5.6	600	0.82	2.9	210	1.3	0.81
		ALBW20186	9R2010	6.99	1.40	2.040	0.14	-81.0	4.6	680	2.2	0.71	740	1.7	2.67
		ALBW20246	13R2012	7.26	8.72	1.020	0.48	2.0	4.4	640	1	0.5	230	0.6	0.09
		ALBW20306	17R2014	6.80	17.50	1.720	0.36	61.0	4.7	680	0.92	0.15 J	240	1.2	0.04
		ALBW20385	22R2016	6.96	1.62	1.720	0.47	-61.0	5.8	610	0.013 J	0.01 J	0.5 J	1.7	0.35
		ALBW20401	23R2017	7.16	1.47	1.330	0.14	-4.0	4.4	510	ND	ND	12	0.8	0.00
	Post-Refresh	ALBW20418	24R2018	7.29	5.55	0.921	0.20	-81.0	4.7	300	ND	ND	25	4.6	0.76
		ALBW20433	25R2018	6.58	2.77	1.476	0.20	-8.3	4.8	380	4.1 J	ND	340	12.3	0.37
		ALBW20441	26R2018	7.04	3.83	1.655	0.91	33.7	5.4	610	ND	ND	50	6.8	1.39
		ALBW20457	27R2019	6.66	3.10	1.541	0.34	-16.5	4.4	960	4.6 J	ND	190	4.6	0.03
		ALBW20473	28R2019	7.17	2.04	1.320	1.50	109.5	5.5	NR	ND	ND	ND	2	0.07
		ALBW20489	29R2020	6.93	1.49	1.810	0.61	99.6	4.4	630	2.6 J	ND	160	22	0.20
		ALBW20505	30R2021	6.97	3.94	1.140	2.73	217.9	5.5	540	ND	ND	16	0.4	0.01
		ALBW20521	31R2021	6.88	2.04	1.670	1.14	46.9	6.0	520	3.6 J	ND	380	47.5	0.42
		ALBW20537	32R2021	7.20	3.47	1.700	1.00	104.6	5.2 J	510	ND	ND	19	0.02	0.00
		SEAD-AL-MWT-26-20230628	33R2023	6.34	0.00	1.660	0.84	63.0	4.8	405	6.9	4.1	1810	>47.5	0.00
		SEAD-AL-MWT-26-20240618	34R2024	6.28	0.70	1.390	0.87	65.0	4.8	542	0.33 J	ND	22	>47.5	3.30
MWT-27	**In Biowall B1**	ALBW20067	1Q2007	6.34	120.00	5.310	0.25	-158.0	2,050 J	ND	ND	ND			
		ALBW20127	5R2008	6.49	40.00	3.070	0.18	-133.0	88.9	ND	2.3	0.049	13,000	> 22	3.23
		ALBW20187	9R2010	6.52	1.40	2.550	0.05	-121.0	61	0.95 J	3.8	0.12	13,000	> 22	2.54
		ALBW20247	13R2012	6.68	15.30	1.810	0.03	-82.0	28	1.4	8.4	0.68	14,000	22	1.80
		ALBW20307	17R2014	6.53	18.50	2.090	0.52	-77.0	39	6.6	5.3	0.79	16,000	>22	>3.3
		ALBW20386/387	22R2016	6.57	9.20	1.920	0.14	-95.0	36	32	0.8	1.1	15,500	>47.5	>3.3
		ALBW20402	23R2017	6.50	6.40	1.260	0.22	-57.0	18	6.2	ND	ND	22,000	19.8	2.62
	Post-Refresh	ALBW20419	24R2018	6.40	17.80	1.780	0.24	-82.0	54	1.5	ND	ND	21,000	63.4	2.71
		ALBW20434/435	25R2018	6.40	7.60	2.024	0.93	-42.0	52.5	0.675 J	ND	ND	16,500	22	3.30
		ALBW20442	26R2018	6.41	12.20	1.838	0.31	-52.2	44	ND	ND	ND	21,000	>47.5	2.89
		ALBW20458	27R2019	6.15	31.40	1.771	0.45	-47.1	40	0.5 J	ND	ND	18,000	>22	>3.3
		ALBW20474/475	28R2019	6.43	40.40	1.506	0.60	-6.9	38	NR	ND	ND	16,000 J	>47.5	1.61
		ALBW20490	29R2020	6.50	4.83	1.000	0.65	-58.8	18	0.7 J	ND	ND	24,000	10.1	3.30
		ALBW20506	30R2021	6.35	12.50	1.320	0.20	-109.9	37	99	ND	ND	19,000	63.4	2.46
		ALBW20522	31R2021	6.40	12.40	1.700	0.28	-93.9	32.5	ND	ND	ND	11,500 J	19.9	>3.3
		ALBW20538	32R2021	6.45	5.13	1.310	0.19	-37.8	26 J	1.1	ND	ND	17,000	20	2.62
		SEAD-AL-MWT-27-20230628	33R2023	6.29	7.50	1.770	0.87	-81.0	25.5	7.2 J	21	ND	13,700	>47.5	0.71
		SEAD-AL-MWT-27-20240618	34R2024	6.48	20.00	2.200	0.00	-84.0	33.3	27.2	2.1	0.77 J	4,420	>47.5	2.11
MWT-28	**In Biowall B2**	ALBW20068	1Q2007	7.50	163.00	0.610	0.16	-150.0	1,775 J	1.7	ND	ND	12,500 J		
		ALBW20128	5R2008	6.31	14.00	2.160	0.15	-91.0	49.2	ND	0.65	0.044	12,000	> 22	> 3.3
		ALBW20188/89	9R2010	6.36	5.50	1.620	0.06	-104.0	21	ND	1.55	0.059	13,500	18.6	0.57
		ALBW20248/49	13R2012	6.46	7.41	1.160	0.06	-76.0	18	0.58	3.1	0.069	14,000	16.4	1.65
		ALBW20308	17R2014	6.28	11.50	1.220	0.71	-87.0	19	1.3 U	2.8	0.0068 J	15,000	17.5	>3.3
		ALBW20388	22R2016	6.54	24.80	1.590	2.86	-43.0	28	1.9	0.18 J	ND	7,800	>47.5	22
		ALBW20403/04	23R2017	6.62	3.90	1.440	0.50	-50.0	20	0.73 J	ND	ND	19,000	22	2.65
	Post-Refresh	ALBW20420	24R2018	6.17	8.47	1.090	0.24	-84.0	89	29	ND	ND	22,000	39.1	1.84
		ALBW20436	25R2018	5.70	8.88	1.066	0.35	-46.7	66	1.1	ND	ND	16,000	14.6	>3.30
		ALBW20443	26R2018	6.41	4.97	0.888	0.09	-75.8	22	44	ND	ND	26,000	14.4	2.46
		ALBW20459	27R2019	6.48	4.68	0.910	0.10	-89.9	20	6.1	ND	ND	22,000	2.1	2.16
		ALBW20476	28R2019	6.32	9.90	1.512	0.26	-80.2	37	NR	ND	ND	16,000 J	17.5	2
		ALBW20491/492	29R2020	6.42	6.00	1.270	0.80	-14.5	19.5	1.35	ND	ND	20,000	9.5	2.65
		ALBW20507	30R2021	6.36	27.20	1.810	0.67	-69.8	34	5	ND	ND	16,000	47.8	3.3
		ALBW20524	31R2021	6.48	21.50	1.570	0.11	-83.3	24	ND	ND	ND	9,600 J	34.8	3.3
		ALBW20539	32R2021	6.21	11.40	1.010	0.61	-122.0	20 J	1.55	ND	ND	16000	9.2	2.8
		SEAD-AL-MWT-28-20230629	33R2023	6.07	77.80	1.610	2.45	-78.0	22	11.7 J	7.8	5.6	9120	>47.5	0.5
		SEAD-AL-MWT-28-20240618	34R2024	7.00	16.90	1.270	1.34	-51.0	19.7	ND	2.9	ND	7,630	>47.5	2.92
MWT-29	**Downgradient of Biowall B2**	ALBW20070	1Q2007	6.49	7.20	2.100	0.33	-76.0	25.1 J	113	ND	ND	ND		
		ALBW20129/30	5R2008	6.44	2.70	1.850	0.17	-115.0	14.1	174	14.5	140	3,100	0.0	> 3.3
		ALBW20190	9R2010	6.77	2.00	1.740	0.06	-86.0	10	170	18	88	5,400	9.1	2.54
		ALBW20250	13R2012	6.78	1.05	1.050	0.07	-29.0	8.2	95	10	38	5,200	19.6	2.88
		ALBW20309	17R2014	6.59	0.96	1.600	0.13	-28.0	5.7	97	9.1	45	6,100	7.9	>3.3
		ALBW20389	22R2016	7.19	7.46	0.909	0.88	-21.0	5.4	100	0.01 J	0.0083 J	1	0.0	0.01
		ALBW20405	23R2017	6.99	4.54	1.070	0.16	25.0	4.8	120	ND	ND	280	1.0	0.07
	Post-Refresh	ALBW20421	24R2018	7.44	6.25	0.506	7.84	-6.0	4.8	70	ND	ND	180	1.4	0.39
		ALBW20437	25R2018	6.95	0.91	0.853	0.11	-64.9	6.5	67	7.9 J	40	6,400	4.9	1.45
		ALBW20445	26R2018	7.09	2.48	0.748	0.39	10.9	4.8	86	ND	ND	800	1.6	0
		ALBW20460	27R2019	6.66	1.77	0.942	0.41	33.5	6.2	49	2.4 J	6.5 J	6,000	1.1	0.95
		ALBW20477	28R2019	6.97	1.87	0.609	9.18	84.5	21.45	NR	ND	ND	390	1.0	0.05
		ALBW20493	29R2020	6.73	2.20	1.180	0.61	83.1	7	51	2.7 J	5.2 J	5,800	4.0	0
		ALBW20508	30R2021	7.03	2.11	0.501	2.86	32.3	5	72	ND	ND	480	1.1	0.29
		ALBW20525	31R2021	6.91	1.53	0.850	2.33	-9.4	6.5	78	ND	2 J	810	0.0	0
		ALBW20541	32R2021	6.95	1.33	0.940	3.48	43.6	20 J	110	ND	ND	660	0.7	0
		SEAD-AL-MWT-29-20230628	33R2023	6.13	0.00	1.400	1.07	-56.0	5.7	86	11.3	22	2720	>47.5	1
		SEAD-AL-MWT-29-20240618	34R2024	7.03	0.00	1.170	0.00	1.0	6.5	91.6	4.8	10.2	2160	>47.5	2.10

Table 4. Groundwater Geochemical Data

Well ID	Location Description	Sample ID	Sample Round	pH	Turbidity (NTU)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	TOC (mg/L)	Sulfate (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Manganese (mg/L)	Ferrous Iron (mg/L)
MWT-22	**Downgradient of**	ALBW20071	1Q2007	7.70	4.50	0.130	0.09	-80.0							
	Biowall B2	ALBW20121	5R2008	6.38	14.00	2.210	0.30	-34.0						18.2	> 3.3
		ALBW20181	9R2010	6.52	16.80	2.200	0.22	-63.0							
		ALBW20241	13R2012	6.41	8.78	1.370	0.17	-27.0							
		ALBW20300	17R2014	6.58	8.99	1.350	0.32	-33.0							
		ALBW20380	22R2016	6.47	0.30	1.870	0.11	4.0							
		ALBW20396	23R2017	6.68	6.11	1.370	0.20	-85.0							
	Post-Refresh	ALBW20412	24R2018	6.84	5.63	1.090	0.10	-42.0							
		ALBW20428	25R2018	6.99	2.53	0.799	0.10	-33.1							
		ALBW20446	26R2018	6.78	11.60	1.094	0.09	-6.0							
		ALBW20461	27R2019	6.61	11.10	1.342	0.12	-72.8							
		ALBW20478	28R2019	6.40	19.00	1.043	12.58	-6.4							
		ALBW20494	29R2020	6.77	9.30	1.550	3.33	-6.8							
		ALBW20509	30R2021	6.89	27.60	1.180	0.28	-32.9							
		ALBW20526	31R2021	6.62	16.90	1.380	0.16	-66.4							
		ALBW20542	32R2021	6.58	34.20	1.400	0.21	-6.2							
		SEAD-AL-MWT-22-20230627	33R2023	6.70	4.20	1.450	1.13	-82.0							
		SEAD-AL-MWT-22-20240618	34R2024	7.24	24.40	1.140	0.00	-30.0							
PT-22	**Between Biowalls**	ALBW20060	1Q2007	7.70	4.50	0.130	0.09	-80.0							
	B and C	ALBW20118	5R2008	6.69	7.40	1.380	0.29	-119.0						0.3	1.38
		ALBW20178	9R2010	6.87	3.60	1.390	0.41	-75.0							
		ALBW20238	13R2012	6.74	8.40	0.904	2.50	12.0							
		ALBW20297	17R2014	6.74	2.42	1.050	1.48	61.0							
		ALBW20377	22R2016	6.79	0.00	1.090	1.94	124.0							
		ALBW20393	23R2017	6.92	2.01	0.951	0.18	43.0							
	Post-Refresh	ALBW20409	24R2018	6.78	1.00	0.851	3.72	54.0							
		ALBW20425	25R2018	6.86	1.23	0.586	0.49	-54.5							
		ALBW20447	26R2018	6.75	0.72	0.947	0.45	45.4							
		ALBW20462	27R2019	6.72	2.19	0.989	0.17	16.4							
		ALBW20479	28R2019	6.92	2.11	0.885	4.04	96.4							
		ALBW20495	29R2020	6.73	3.28	1.290	0.71	-80.2							
		ALBW20510	30R2021	7.20	1.91	0.603	9.34	115.0							
		ALBW20527	31R2021	6.83	1.95	0.830	0.21	48.4							
		ALBW20543	32R2021	6.70	1.29	0.890	0.68	71.6							
		SEAD-AL-PT-22-20230628	33R2023	6.76	0.00	0.942	0.99	14.0							
		SEAD-AL-PT-22-20240619	34R2024	7.94	51.60	0.742	1.02	-32.0							
MWT-23	**In Biowall C2**	ALBW20065	1Q2007	7.20	5.00	0.200	0.26	-122.0	260 J	ND	ND	ND	12,000		
		ALBW20125	5R2008	6.27	29.00	1.540	0.15	-129.0	28.4	ND	0.53	0.048	18,000	> 22	> 3.3
		ALBW20185	9R2010	6.38	9.00	1.570	0.04	-115.0	11	ND	2.4	0.038	18,000	>22	1.71
		ALBW20245	13R2012	6.52	6.14	0.915	0.08	-71.0	4.8	1.5	5	0.26	18,000	31.1	3.3
		ALBW20304/05	17R2014	6.40	3.17	1.250	0.18	-56.0	4.7	1.4 J	11 J	0.13 J	16,500	4.0	>3.3
		ALBW20384	22R2016	6.38	4.22	1.280	0.23	-40.0	6.3	3.5	2	0.24	16,000	6.3	2.62
		ALBW20400	23R2017	6.61	3.15	0.830	0.10	-104.0	3.3	2.5	ND	ND	17,000	2.2	3.3
	Post-Refresh	ALBW20416/417	24R2018	6.54	21.40	1.210	9.56	-47.0	9.75	0.265 J	ND	ND	10,000	31	1.7
		ALBW20432	25R2018	6.14	9.32	0.942	0.15	-34.8	6.4	1.0	ND	ND	23,000	3.3	9.8
		ALBW20448	26R2018	6.94	17.40	0.835	0.11	-32.1	5.9	1.4	ND	ND	22,000	27.3	2.69
		ALBW20463/464	27R2019	6.44	4.77	0.890	0.19	-45.1	3.8	3.4	3.5 J	ND	18,500	5.4	3.21
		ALBW20480	28R2019	6.32	8.40	1.001	0.29	-102.1	6.6	NR	ND	ND	18,000	11.7	3.02
		ALBW20496	29R2020	6.84	9.28	0.820	0.67	-37.7	3.2	14.0	ND	ND	11,000	7.8	1.52
		ALBW20511	30R2021	6.64	5.05	0.686	0.10	-91.6	6.6	6.4	ND	ND	16,000	24.6	3.3
		ALBW20528	31R2021	6.60	7.82	0.710	0.12	-77.1	5	ND	ND	ND	10,000 J	7.8	3.3
		ALBW20544	32R2021	6.57	3.67	0.810	0.65	-76.7	3.8 J	5	2.5 J	ND	17000	4.1	3.0
		SEAD-AL-MWT-23-20230627	33R2023	6.42	16.40	0.838	0.40	-57.0	3	3.4 J	ND	ND	12300	>47.5	1.2
		SEAD-AL-MWT-23-20240618	34R2024	6.57	11.60	0.782	0.16	-24.0	3.9	ND	3.8	1.1	8,270	>47.5	1.38
MWT-24	**Downgradient of**	ALBW20063	1Q2007	7.02	10.00	0.762	0.27	-160.0							
	Biowalls C1/C2	ALBW20122	5R2008	6.65	45.00	1.210	0.35	-43.0						9.1	1.54
		ALBW20182	9R2010	6.63	6.80	1.450	0.06	-21.0							
		ALBW20242	13R2012	7.22	10.20	0.747	0.11	3.0							
		ALBW20301	17R2014	7.07	8.88	1.210	0.11	15.0							
		ALBW20381	22R2016	6.72	3.00	1.030	0.08	143.0							
		ALBW20397	23R2017	6.91	3.30	0.875	0.08	42.0							
	Post-Refresh	ALBW20413	24R2018	6.80	7.46	0.650	1.14	-7.0							
		ALBW20429	25R2018	8.13	2.06	0.669	0.36	-51.7							
		ALBW20449	26R2018	7.01	9.11	0.667	0.15	49.0							
		ALBW20465	27R2019	6.89	1.33	0.853	0.18	-24.9							
		ALBW20481	28R2019	6.72	5.17	0.919	0.34	102.7							
		ALBW20497	29R2020	7.07	8.90	0.850	0.49	237.1							
		ALBW20513	30R2021	7.11	4.88	0.556	0.70	70.0							
		ALBW20529	31R2021	6.72	0.97	0.830	0.24	30.7							
		ALBW20545	32R2021	6.97	0.67	0.810	0.38	24.1							
		SEAD-AL-MWT-24-20230627	33R2023	6.98	3.20	0.827	1.29	61.0							
		SEAD-AL-MWT-24-20240618	34R2024	8.21	4.80	0.792	0.00	86.0							
PT-17[1]	**Downgradient of**	ALBW20058	1Q2007	8.00	3.80	92.000	0.23	-111.0							
	biowalls	ALBW20116	5R2008		70.00		0.24		6	15.2	98	66	5700		
		ALBW20176	9R2010	6.73	0.90	0.816	0.11	-13.0	2.4	36	16	20	4,300	5.8	0.29
		ALBW20236	13R2012	7.09	2.80	0.688	0.17	28.0	2.8	25	10	12	8,200	4.6	0.0
		ALBW20295	17R2014	6.18	0.55	0.908	0.07	35.0	2.9	20	4.5	6.5	5,700	4.5	0.14
		ALBW20375	22R2016	6.69	1.01	0.928	0.35	-12.0	2.7	22	1.2	1.4	870	3.2	0.03
		ALBW20391	23R2017	6.76	0.39	0.801	0.21	49.0	2.4	17	ND	ND	3,800	1.9	0.02
	Post-Refresh	ALBW20407	24R2018	7.25	1.13	0.463	7.19	129.0	1.6	14	ND	ND	ND	2	0.25
		ALBW20423	25R2018	6.84	2.01	0.673	0.14	84.5	2.6	27	ND	ND	290	1.3	0.00
		ALBW20450	26R2018	6.84	2.50	0.628	0.23	144.0	1.7	27	ND	ND	160	2.1	0.31
		ALBW20466	27R2019	6.80	0.59	0.729	0.53	71.9	2	16	ND	ND	800	0.7	0.20
		ALBW20482	28R2019	6.96	3.99	0.628	3.21	225.0	2.3	NR	ND	ND	57	0.2	0.00
		ALBW20498	29R2020	7.00	1.00	0.680	0.67	171.6	1.5	20	ND	ND	250	1.1	0.10
		ALBW20514	30R2021	6.67	1.65	0.515	2.58	166.5	1.7	36	ND	ND	4	0.0	0.02
		ALBW20530	31R2021	7.03	1.36	0.521	0.35	34.0	2.6	21	ND	ND	27	3.4	0.16
		ALBW20546	32R2021	6.94	3.45	0.667	0.29	87.3	3.2 J	26	ND	ND	22	0.4	0.00
		SEAD-AL-PT-17-20230627	33R2023	6.66	0.00	0.708	0.74	80.0	1.9 J	30	0.43 J	ND	209	>47.5	0.00
		SEAD-AL-PT-17-20240618	34R2024	6.36	0.00	0.869	1.09	64.0	3.2	27.5	1.3	0.98 J	1260.0	>47.5	0.16
MWT-7	**Immediately**	ALBW20062	1Q2007	6.80	19.60	0.581	0.01	62.0							
	upgradient of ZVI	ALBW20120	5R2008	6.85	15.00	0.974	0.43	37.0	2.3	29.1	6.7	2	400	0.2	0.09
	wall	ALBW20180	9R2010	6.85	1.35	1.040	0.02	-21.0	1.5	29	9	0.55	1,700	0.2	0.19
		ALBW20240	13R2012	6.86	3.67	0.638	0.24	-35.0	1.6	28	3.1	0.33	1,600	0.1	0.0
		ALBW20299	17R2014	6.26	3.16	0.946	0.55	63.0	1.4	23	1.2	0.19 J	510	0.6	0.0
		ALBW20379	22R2016	6.81	0.54	0.992	1.61	29.0	1.8	35	0.018 J	ND	1.7	0.4	0
		ALBW20395	23R2017	6.87	0.80	0.683	0.27	68.0	1.3	26	ND	ND	19	0.6	0.07
	Post-Refresh	ALBW20411	24R2018	6.88	1.68	0.703	3.88	49.0	1.4	29	ND	ND	2.6 J	0	0.03
		ALBW20427	25R2018	6.85	3.65	0.684	1.16	82.2	1.3	24	ND	ND	ND	0.4	0.01
		ALBW20451	26R2018	6.96	6.01	0.636	0.49	146.1	1.5	29	ND	ND	3.7 J	0.0	0.00
		ALBW20467	27R2019	6.95	0.61	0.684	0.20	50.5	1.6	20	ND	ND	62	0.2	0.02
		ALBW20483	28R2019	6.84	1.37	0.749	0.97	231.9	2.2	NR	ND	ND	800	0.1	0.02
		ALBW20499	29R2020	7.03	1.40	0.520	1.11	235.3	1.4	23	ND	ND	2.2 J	0.0	0.00
		ALBW20515	30R2021	6.74	2.20	0.571	4.89	162.4	2.9	32	ND	ND	12	0.0	0.20
		ALBW20531	31R2021	7.00	3.19	0.539	1.98	88.0	1.9	34	ND	ND	3.8 J	2.1	0.12
		ALBW20547	32R2021	6.77	1.11	0.541	0.89	118.1	1.9 J	28	ND	ND	3.4 J	0.0	0.00
		SEAD-AL-MWT-7-20230628	33R2023	6.01	0.40	0.717	0.98	106.0	1.2 J	23	ND	ND	ND	>47.5	0.00
		SEAD-AL-MWT-7-20240618	34R2024	6.55	0.00	0.704	2.01	121.0	1.3 J	26.4	ND	ND	0.18 J	42.8	0.00

Table 4. Groundwater Geochemical Data

Well ID	Location Description	Sample ID	Sample Round	pH	Turbidity (NTU)	Specific Conductance (mS/cm)	DO (mg/L)	ORP (mV)	TOC (mg/L)	Sulfate (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Manganese (mg/L)	Ferrous Iron (mg/L)
PT-24	**Downgradient of ZVI wall**	ALBW20061	1Q2007	8.10	10.00	70.000	0.37	-59.0							
		ALBW20119	5R2008	6.99	4.30	0.900	0.16	-104.0						0.5	0.55
		ALBW20179	9R2010	7.07	8.30	0.780	0.19	-37.0							
		ALBW20239	13R2012	7.47	8.90	0.554	0.14	-55.0							
		ALBW20298	17R2014	6.93	1.12	0.935	0.05	18.0							
		ALBW20378	22R2016	6.83	0.00	0.706	0.94	189.0							
		ALBW20394	23R2017	6.91	0.43	0.565	0.08	14.0							
	Post-Refresh	ALBW20410	24R2018	7.29	0.81	0.425	5.63	168.0							
		ALBW20426	25R2018	7.93	2.92	0.633	0.41	-24.5							
		ALBW20452	26R2018	7.03	5.01	0.589	0.11	138.1							
		ALBW20468	27R2019	6.89	4.32	0.662	0.47	37.2							
		ALBW20484	28R2019	6.86	2.15	0.415	1.81	134.8							
		ALBW20500	29R2020	7.09	2.00	0.647	0.23	272.9							
		ALBW20516	30R2021	6.97	8.58	0.368	2.77	102.4							
		ALBW20532	31R2021	6.84	1.41	0.537	0.27	60.9							
		ALBW20548	32R2021	6.87	0.61	0.544	0.63	111.3							
		SEAD-AL-PT-24-20230628	33R2023	6.09	0.00	0.603	1.00	98.0							
		SEAD-AL-PT-24-20240618	34R2024	6.71	0	0.67	0.69	117	1.5 J	26.4	ND	ND	ND	45.7	0.01
MW-56	**Off-site well**	ALBW20072	1Q2007	6.85	3.30	0.462	0.37	-102.0							
		ALBW20124	5R2008	6.73	2.00	0.763	0.18	-132.0						0.4	1.18
		ALBW20184	9R2010	6.85	3.19	0.403	0.16	-131.0							
		ALBW20244	13R2012	7.00	1.20	0.520	0.23	-283.0							
		ALBW20303	17R2014	7.00	1.33	0.696	0.44	-99.0							
		ALBW20383	22R2016	6.71	5.11	0.850	1.11	46.0							
		ALBW20399	23R2017	6.85	0.98	0.598	0.23	-82.0							
	Post-Refresh	ALBW20415	24R2018	NS	NS	NS	NS	NS							
		ALBW20431	25R2018	7.11	11.00	0.576	3.25	83.1							
		ALBW20453	26R2018	7.60	9.16	0.454	11.41	-25.3							
		ALBW20469	27R2019	6.77	NS	0.375	5.98	-46.5							
		ALBW20485	28R2019	NR											
		ALBW20501	29R2020	NR											
		ALBW20517	30R2021	NR											
		ALBW20533	31R2021	NR											
		ALBW20549	32R2021	NR											
MW-56R	**Replacement off-site**	SEAD-AL-MW-56R-20230627	33R2023	6.96	14.1	0.641	1.26	39							
		SEAD-AL-MW-56R-20240619	34R2024	6.67	4.8	0.666	0.45	101							
PT-12A	**In Biowall B1**	SEAD-AL-PT-12A-20240618	34R2024	6.64	7.2	1.23	0.95	58							
PT-16	**Northern Deliniation Well**	SEAD-AL-PT-16-20240619	34R2024	7.13	7	0.479	0.05	7							
PT-19	**Southern Deliniation Well**	SEAD-AL-PT-19-20240619	34R2024	6.48	0	0.836	0.43	-120							
PT-20	**Between Biowalls B & C**	SEAD-AL-PT-20-20240619	34R2024	6.48	47.3	0.82	0	-43							
MW-27	**Downgadient of Biowalls C1/C2**	SEAD-AL-MW-27-20240619	34R2024	8.95	15.3	0.401	0.02	-92							
MW-29	**Upgradient of ZVI Wall**	SEAD-AL-MW-29-20240620	34R2024	8.67	1.3	0.586	0.78	136							
MW-32	**Southern Deliniation Well**	SEAD-AL-MW-32-20240619	34R2024	6.53	2	0.684	0.88	16							
MW-39	**Northern Deliniation Well**	SEAD-AL-MW-39-20240619	34R2024	6.65	0	0.546	0.31	-59							
MW-40	**Upgradient of Biowalls**	SEAD-AL-MW-40-20240618	34R2024	6.77	0	0.584	0.43	78	1.5 J	27.4	ND	ND	ND	>47.5	0.09
MW-44A	**Upgradient of Biowalls**	SEAD-AL-MW-44A-20240619	34R2024	6.99	3.9	1.22	0.11	-17							
MW-46	**Downgradient of Biowalls B1/B2**	SEAD-AL-MW-46-20240619	34R2024	8.76	0.2	0.757	0.15	-38							
MW-48	**Northern Deliniation Well**	SEAD-AL-MW-48-20240619	34R2024	8.6	5.4	0.519	9.15	-31							
MW-58D	**Offsite Bedrock Well**	SEAD-AL-MW-58D-20240619	34R2024	8.7	0	0.652	0.31	-129							
MW-60	**Southern Deliniation Well**	SEAD-AL-MW-60-20240617	34R2024	6.34	0	1.03	0.32	46							
MWT-1	**Upgradient of ZVI Wall**	SEAD-AL-MWT-1-20240619	34R2024	6.76	2.3	0.598	0.4	43							
MWT-2	**In ZVI Wall**	SEAD-AL-MWT-2-20240620	34R2024	7.24	40.4	0.406	0.96	-155							
MWT-3	**Downgradient of ZVI Wall**	SEAD-AL-MWT-3-20240620	34R2024	6.6	0	0.627	0.77	-16							
MWT-4	**Upgradient of ZVI Wall**	SEAD-AL-MWT-4-20240620	34R2024	6.67	60.9	0.605	0.28	159							
MWT-5	**In ZVI Wall**	SEAD-AL-MWT-5-20240619	34R2024	8.73	11.1	0.157	0.31	-279							
MWT-6	**Downgradient of ZVI Wall**	SEAD-AL-MWT-6-20240620	34R2024	6.82	17.9	0.62	0	128							
MWT-8	**In ZVI Wall**	SEAD-AL-MWT-8-20240620	34R2024	8.57	134	0.6	0	-183							
MWT-9	**Downgradient of ZVI Wall**	SEAD-AL-MWT-9-20240619	34R2024	7.05	0.6	0.586	0	-64							
MWT-10	**In ZVI Wall**	SEAD-AL-MWT-10-20240619	34R2024	7.18	7.6	0.37	0.49	-95							

Notes:
> = The concentration exceeded the range of the Hach DR/850 Colorimeter field kit.
µg/L = Microgram(s) per liter
DO = Dissolved oxygen
J = the reported value is an estimated concentration.
mg/L = Milligram(s) per liter
mS/cm = MilliSiemen(s) per centimeter
mV = Millivolt(s)
ND = Non-detect.
NR = Not recorded.
NS = Not sampled; water level was below the DO indicator probe or not enough recharge to use flow-
NTU = Nephelometric turbidity unit
ORP = Oxidation-reduction potential
TOC = Total organic carbon

1Q2007 - First round of LTM (January 2007)	13R2012 - Thirteenth Round of LTM (June 2012)	25R2018 - Twenty-fifth Round of LTM (June 2018)
2Q2007 - Second round of LTM (March 2007)	14R2012 - Fourteenth Round of LTM (December 2012)	26R2018 - Twenty-sixth Round of LTM (December 2018)
3Q2007 - Third round of LTM (June 2007	15R2013 - Fifteenth Round of LTM (July 2013)	27R2019 - Twenty-seventh Round of LTM (June 2019)
4Q2007 - Fourth round of LTM (November 2007)	16R2013 - Sixteenth Round of LTM (December 2013)	28R2019 - Twenty-eighth Round of LTM (December 2019)
5R2008 - Fifth Round of LTM (June 2008)	17R2014 - Seventeenth Round of LTM (June 2014)	29R2020 - Twenty-ninth Round of LTM (May 2020)
6R2008 - Sixth Round of LTM (December 2008)	18R2014 - Eighteenth Round of LTM (December 2014)	30R2021 - Thirtieth Round of LTM (March 2021)
7R2009 - Seventh Round of LTM (June 2009)	19R2015 - Nineteenth Round of LTM (June 2015)	31R2021 - Thirty-first Round of LTM (June 2021)
8R2009 - Eighth Round of LTM (December 2009)	20R2015 - Twentieth Round of LTM (December 2015)	32R2021 - Thirty-second Round of LTM (December 2021)
9R2010 - Ninth Round of LTM (June 2010)	21R2016 - Twenty-first Round of LTM (June 2016)	33R2023 - Thirty-third Round of LTM (June 2023)
10R2010 - Tenth Round of LTM (December 2010)	22R2016 - Twenty-second Round of LTM (December 2016)	34R2024 - Thirty-fouth Round of LTM (June2024)
11R2011 - Eleventh Round of LTM (July 2011)	23R2017 - Twenty-third Round of LTM (June 2017)	
12R2011 - Twelfth Round of LTM (December 2011)	24R2018 - Twenty-fourth Round of LTM (January 2018)	

Sampling rounds highlighted gray above were not included in table to reduce overall table size.
Empty cells indicate that the specified analysis was not completed for that well. The bolded wells are the five wells included in the biowall process monitoring group.
Analysis of TOC, sulfate, methane, ethane, and ethene were completed for the biowall process wells only.

1. Water levels were extremely low and water quality readings were not collected in 5R2008 at PT-17 and in 28R2019, 29R2020 and 30R2021 at MW-56
2. During the 11R2011 event, data was collected at MW-56 in October 2011.
3. Biowall refresh conducted between 25 August 2017 and 18 October 2017 prior to Round 24 of LTM.
4. During the 28R2019 event, sulfate was not analyzed due to a problem with the lab containers.
5. Low water levels and insufficient groundwater recharge prevented collection of water parameters from well MW-56.

Table 5. Chlorinated Organics in Groundwater

Well ID	Location Description	Sample ID	Sample Round	PCE (µg/L)		TCE (µg/L)		1,1-DCE (µg/L)		*cis*-DCE (µg/L)		*trans*-DCE (ug/L)		VC (µg/L)		1,1-DCA (µg/L)		1,2-DCA (µg/L)	
			Class GA Standard	**5**		**5**		**5**		**5**		**5**		**2**		**5**		**0.6**	
PT-17	Downgradient of biowalls Post-Refresh	ALBW20058	1Q2007	1	U	6		1	U	62		1	U	21		1	U	1	U
		ALBW20116	5R2008	1	U	8.5		1	U	21		1	U	23		1	U	1	U
		ALBW20176	9R2010	0.15	U	3		0.24	J	81		3.2		53		0.25	U	0.1	U
		ALBW20236	13R2012	0.15	U	6.9		0.37	J	170		18		66		0.25	U	0.1	UJ
		ALBW20295	17R2014	0.15	U	3.4		0.32	J	130		18		55		0.25	U	0.1	U
		ALBW20375	22R2016	0.74	U	9.9		0.36	U	59		12		22		0.38	U	0.5	U
		ALBW20391	23R2017	0.5	U	10		0.5	U	82		16		36		0.5	U	0.5	U
		ALBW20407	24R2018	0.5	U	7.2		0.5	U	3.4		0.5	U	1	U	0.5	U	0.5	U
		ALBW20423	25R2018	0.5	U	8.5		0.5	U	23		1.5		9.5		0.5	U	0.5	U
		ALBW20450	26R2018	0.5	U	11		0.5	U	32		4		7.7		0.5	U	0.5	U
		ALBW20466	27R2019	0.5	U	11		0.5	U	21		2.6		6.4		0.5	U	0.5	U
		ALBW20482	28R2019	0.5	U	13		0.5	U	18		1.3		1.4	J	0.5	U	0.5	U
		ALBW20498	29R2020	0.5	U	11		0.5	U	30		4.1		5.8		0.5	U	0.5	U
		ALBW20514	30R2021	0.5	U	16	J+	0.5	U	23	J+	1.9	J+	0.41	J	0.5	U	0.5	U
		ALBW20530	31R2021	0.5	U	14		0.5	U	16		1.7		1.4	J	0.5	U	0.5	U
		ALBW20546	32R2021	0.5	U	15		0.5	U	18		1.9		1.4	J	0.5	U	0.5	U
		SEAD-AL-PT-17-20230627	33R2023	0.22	U	17.3		0.32	U	68.6		8.3		7.8		0.31	U	0.34	U
		SEAD-AL-PT-17-20240618	34R2024	0.22	U	15.3		0.32	U	115		13.4		25.3		0.34	U	0.31	U
PT-18A	Upgradient of walls Post-Refresh	ALBW20059	1Q2007	1	U	2000		0.64	J	220		1.6		2.4		1	U	1	U
		ALBW20117	5R2008	1	U	220		1	U	200		0.9	J	1.4		1	U	1	U
		ALBW02177	9R2010	0.15	U	120		0.11	U	28		0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20237	13R2012	13	J	3800		2.6		820		4.7		10		0.25	U	0.1	UJ
		ALBW20296	17R2014	0.15	U	1200		0.77	J	240		1.2		2.2		0.25	U	0.1	U
		ALBW20376	22R2016	0.74	U	9.7		0.36	U	1.1		0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20392	23R2017	0.5	U	190		0.5	U	71		0.42	J	0.79	J	0.5	U	0.5	U
		ALBW20408	24R2018	0.5	U	7		0.5	U	0.82	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20424	25R2018	0.5	U	220		0.5	U	76		0.34	J	0.37	J	0.5	U	0.5	U
		ALBW20439	26R2018	0.5	U	2300		0.5	U	780		3.5		4.6		0.5	U	0.5	U
		ALBW20455	27R2019	0.5	U	640		0.89	J	240		1.5	J+	1.4	J	0.5	U	0.5	U
		ALBW20471	28R2019	1	U	920	J+	1.4	J	370	J+	2.2		2.5	J	1	U	1	U
		ALBW20487	29R2020	0.5	U	1400		1.6		470		2.8		4.2		0.5	U	0.5	U
		ALBW20503	30R2021	0.5	U	84	J+	0.5	U	29	J+	0.5	U	1	U	0.5	U	0.5	U
		ALBW20519	31R2021	0.5	U	39		0.5	U	12		0.5	U	1	U	0.5	U	0.5	U
		ALBW20535	32R2021	0.5	U	330		0.51	J	12		0.53	J	0.48	J	0.5	U	0.5	U
		SEAD-AL-PT-18A-20230627	33R2023	2.2	U	943		3.2	U	464		3.3	J	4.1		3.1	U	3.4	U
		SEAD-AL-PT-18A-20240618	34R2024	2.2	U	297		1.3		313		1.6		1.8		0.34	U	0.31	U
PT-22	Between Biowalls B and C Post-Refresh	ALBW20060	1Q2007	1	U	11		1	U	57		0.86	J	22		1	U	3.3	
		ALBW20118	5R2008	1	U	4.1		1	U	26		0.57	J	13		1	U	3.9	
		ALBW20178	9R2010	0.15	U	4.6		0.11	U	43		0.75	J	11		0.25	U	3.2	
		ALBW20238	13R2012	0.15	U	7.9		0.11	U	31		0.84	J	4		0.25	U	2.1	
		ALBW20297	17R2014	0.15	U	23		0.11	U	52		1.3		2.9		0.25	U	3.1	
		ALBW20377	22R2016	0.74	U	25		0.36	U	19		0.37	U	0.5	U	0.38	U	1.1	
		ALBW20393	23R2017	0.5	U	22		0.5	U	45		1		2.2		0.5	U	3	
		ALBW20409	24R2018	0.5	U	21		0.5	U	18		0.5	U	1	U	0.5	U	0.5	U
		ALBW20425	25R2018	0.5	U	15		0.5	U	16		0.5	U	0.4	J	0.5	U	1	
		ALBW20447	26R2018	0.5	U	28		0.5	U	26		0.5	U	1	U	0.5	U	0.5	U
		ALBW20462	27R2019	0.5	U	28		0.5	U	35		0.5	U	2.1		0.5	U	0.5	U
		ALBW20479	28R2019	0.5	U	18		0.5	U	17		0.5	U	1	U	0.5	U	0.99	J
		ALBW20495	29R2020	0.5	U	0.86	J	0.5	U	15		1.8		4.2		0.5	U	1.3	
		ALBW20510	30R2021	0.5	U	18	J+	0.5	U	15		0.5	U	1	U	0.5	U	0.73	J
		ALBW20527	31R2021	0.5	U	23		0.5	U	28		0.32	J	0.51	J	0.5	U	0.5	U
		ALBW20543	32R2021	0.5	U	24		0.5	U	22		0.5	U	1	U	0.5	U	0.5	U
		SEAD-AL-PT-22-20230628	33R2023	0.22	U	7		0.32	U	20.9		1.1		4.1		1.8		0.34	U
		SEAD-AL-PT-22-20240619	34R2024	0.22	U	12.5		0.32	U	29.1		0.88	J	2		0.34	U	1.3	
PT-24	Downgradient of ZVI wall Post-Refresh	ALBW20061	1Q2007	1	U	4		0.68	J	54		0.86	J	0.6	J	0.68	J	1	U
		ALBW20119	5R2008	1	U	2.4		0.69	J	48		1.1		1.9		0.69	J	1	U
		ALBW20548	9R2010	0.5	U	0.8	J	0.5	U	12		0.5	U	1	U	0.5	U	0.5	U
		ALBW20179	13R2012	0.15	U	0.39	J	0.54	J	33		1.1		3.8		0.54	J	0.1	U
		ALBW20239	17R2014	0.15	U	0.87	J	0.57	J	30		0.84	J	2.8		0.57	J	0.1	U
		ALBW20298	22R2016	0.15	U	1.3		0.25	U	23		1		1.7		0.25	U	0.1	U
		ALBW20378	23R2017	0.74	U	1.2		0.38	U	12		0.45	J	0.5	U	0.38	U	0.5	U
		ALBW20394	24R2018	0.5	U	1.4		0.5	J	21		0.95	J	1.1	J	0.5	J	0.5	U
		ALBW20410	25R2018	0.5	U	0.74	J	0.5	U	8		0.5	U	1	U	0.5	U	0.5	U
		ALBW20426	26R2018	0.5	U	0.99	J	0.5	U	16		0.41	J	0.48	J	0.5	U	0.5	U
		ALBW20452	27R2019	0.5	U	1.3		0.23	J	18		0.67	J	0.43	J	0.23	J	0.5	U
		ALBW20468	28R2019	0.5	U	1.3		0.42	J	16		0.67	J	0.6	J	0.42	J	0.5	U
		ALBW20484	29R2020	0.5	U	0.87	J	0.28	J	14		0.41	J	1	U	0.28	J	0.5	U
		ALBW20500	30R2021	0.5	U	0.9	J	0.5	U	18		0.76	J	1	U	0.5	U	0.5	U
		ALBW20516	31R2021	0.5	U	0.71	J	0.5	U	9.6	J+	0.5	U	1	U	0.5	U	0.5	U
		ALBW20532	32R2021	0.5	U	0.94	J	0.29	J	15		0.34	J	1	U	0.29	J	0.5	U
		SEAD-AL-PT-24-20230628	33R2023	0.22	U	1.1		0.32	U	12.4		0.22	U	0.41	U	0.31	U	0.34	U
		SEAD-AL-PT-24-20240619	34R2024	0.22	U	0.98	J	0.32	U	11.8		0.3	J	0.41	U	0.34	U	0.31	U

Table 5. Chlorinated Organics in Groundwater

Well ID	Location Description	Sample ID	Sample Round	PCE (µg/L)		TCE (µg/L)		1,1-DCE (µg/L)		*cis*-DCE (µg/L)		*trans*-DCE (ug/L)		VC (µg/L)		1,1-DCA (µg/L)		1,2-DCA (µg/L)	
Class GA Standard				**5**		**5**		**5**		**5**		**5**		**2**		**5**		**0.6**	
MW-56R	Off-site well Post-Refresh	ALBW20072	1Q2007	1	U	1	U	1	U	1.2		1	U	1	U	1	U	1	U
		ALBW20124	5R2008	1	U	1	U	1	U	1.3		1	U	1	U	1	U	1	U
		ALBW20549	9R2010	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20184	13R2012	0.15	U	0.13	U	0.11	U	0.61	J	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20244	17R2014	0.15	U	0.13	U	0.11	U	2.2		0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20303	22R2016	0.15	U	0.13	U	0.11	U	0.98	J	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20383	23R2017	0.74	U	0.48	U	0.36	U	2.1		0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20399	24R2018	0.5	U	0.5	U	0.5	U	3.2		0.5	U	1	U	0.5	U	0.5	U
		ALBW20415	25R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20431	26R2018	0.5	U	0.5	U	0.5	U	1.1		0.5	U	1	U	0.5	U	0.5	U
		ALBW20453	27R2019	0.5	U	0.5	U	0.5	U	1.6		0.5	U	1	U	0.5	U	0.5	U
		ALBW20469	28R2019	0.5	U	0.5	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20485	29R2020	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20501	30R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20517	31R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20533	32R2021	0.5	U	0.5	U	0.5	U	0.23	J	0.5	U	1	U	0.5	U	0.5	U
		SEAD-AL-MW-56R-20230627	33R2023	0.22	U	1.8		0.32	U	8.2		0.22	U	0.41	U	0.31	U	0.34	U
		SEAD-AL-MW-56R-20240619	34R2024	0.22	U	1.5		0.32	U	9.4		0.22	U	0.41	U	0.34	U	0.31	U
MWT-7	Immediately upgradient of ZVI wall Post-Refresh	ALBW20062	1Q2007	1	U			1	U	35		1	U	0.51	J	1	U	1	U
		ALBW20120	5R2008	1	U			1	U	90		1	U	12		1	U	1	U
		ALBW20180	9R2010	0.15	U			0.78	J	170		0.91	J	15		0.25	U	0.25	U
		ALBW20240	13R2012	0.15	U	280		0.59	J	140		0.64	J	11		0.25	U	0.25	U
		ALBW20299	17R2014	0.15	U	190		0.69	J	110		0.73	J	9.6		0.25	U	0.25	U
		ALBW20379	22R2016	0.74	U	190		0.44	J	81		0.37	U	0.5	U	0.38	U	0.38	U
		ALBW20395	23R2017	0.5	U	220		0.48	J	110		0.53	J	1.6	J	0.5	U	0.5	U
		ALBW20411	24R2018	0.5	U	180		0.5	U	80		0.27	J	1	U	0.5	U	0.5	U
		ALBW20427	25R2018	0.5	U			0.5	U	80		0.32	J	1	U	0.5	U	0.5	U
		ALBW20451	26R2018	0.5	U	210		0.5	U	85		0.38	J	1	U	0.5	U	0.5	U
		ALBW20467	27R2019	0.5	U	190		0.5	U	73		0.5	U	0.72	J	0.5	U	0.5	U
		ALBW20483RA	28R2019	0.5	U			0.5	U	98	J+	0.5	U	1.8	J	0.5	U	0.5	U
		ALBW20499	29R2020	0.5	U	230	J	0.5	U	87		0.5	U	1	U	0.5	U	0.5	U
		ALBW20515	30R2021	0.5	U			0.5	U	82	J+	0.5	U	1	U	0.5	U	0.5	U
		ALBW20531	31R2021	0.5	U			0.5	U	90		0.3	J	1	U	0.5	U	0.5	U
		ALBW20547	32R2021	0.5	U			0.5	U	88		0.3	J	1	U	0.5	U	0.5	U
		SEAD-AL-MWT-7-20230628	33R2023	0.43	U	165		0.64	U	61.5		0.44	U	0.82	U	0.62	U	0.68	U
		SEAD-AL-MWT-7-20240618	34R2024	0.54	U	146		0.81	U	63.3		0.55	U	1	U	0.85	U	0.78	U
MWT-22	Downgradient of Biowall B2 Post-Refresh	ALBW20071	1Q2007	2	U	5.2		2	U	130		2.7		98		2	U	2	U
		ALBW20121	5R2008	5	U	3	J	5	U	68		5	U	42		5	U	5	U
		ALBW20181	9R2010	0.15	U	0.6	J	0.12	J	41		1.3		57		0.25	U	0.1	U
		ALBW20241	13R2012	0.15	U	0.48	J	0.11	U	57		5		90		0.25	U	0.1	U
		ALBW20300	17R2014	0.15	U	0.19	J	0.11	U	19		2.8		65		0.25	U	0.11	J
		ALBW20380	22R2016	0.74	U	0.98	J	0.37	U	71		4.3		93		0.38	U	0.5	U
		ALBW20396	23R2017	0.5	U	0.5	U	0.5	U	51		5		150		0.5	U	0.5	U
		ALBW20412	24R2018	0.5	U	0.72	J	0.5	U	34		1.7		23		0.5	U	0.5	U
		ALBW20428	25R2018	0.5	U	0.41	J	0.5	U	66		1.9		52		0.5	U	0.5	U
		ALBW20446	26R2018	0.5	U	0.5	U	0.5	U	22		1.4		47		0.5	U	0.5	U
		ALBW20461	27R2019	0.5	U	0.66	J	0.5	U	49		3.2		55		0.5	U	0.5	U
		ALBW20478	28R2019	0.5	U	0.5	U	0.5	U	24		4.2		88		0.5	U	0.5	U
		ALBW20494	29R2020	0.5	U	0.5	U	0.5	U	25		4.1		76		0.5	U	0.5	U
		ALBW20509	30R2021	0.5	U	0.5	U	0.5	U	17	J+	2.4	J+	61	J+	0.5	U	0.5	U
		ALBW20526	31R2021	0.5	U	0.5	U	0.5	U	11		2.8		68		0.5	U	0.5	U
		ALBW20542	32R2021	0.5	U	1.4		0.5	U	99		4.3		78		0.5	U	0.5	U
		SEAD-AL-MWT-22-20230627	33R2023	0.22	U	0.35	U	0.32	U	7.8		1.3		94.6		0.31	U	0.34	U
		SEAD-AL-MWT-22-20240618	34R2024	0.22	U	0.35	U	0.32	U	32.3		2.9		87.6		0.34	U	0.31	U
MWT-23	In Biowall C2 Post-Refresh	ALBW20065	1Q2007	4	U	4	U	4	U	60		4	U	23		4	U	2.3	J
		ALBW20125	5R2008	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.6	J
		ALBW20185	9R2010	0.15	U	0.13	U	0.11	U	0.41	J	0.2	U	0.18	U	0.25	U	0.66	J
		ALBW20245	13R2012	0.15	U	0.13	U	0.11	U	0.55	J	0.42	J	0.33	J	0.25	U	0.65	J
		ALBW20304	17R2014	0.21	J	0.13	U	0.11	U	0.46	J	0.45	J	0.37	J	0.25	U	0.65	J
		ALBW20384	22R2016	0.74	U	0.48	U	0.36	U	0.65	J	0.37	U	0.9	J	0.38	U	0.64	J
		ALBW20400	23R2017	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.78	J	0.5	U	0.5	U
		ALBW20416/417	24R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20432	25R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.31	J	0.5	U	0.5	U
		ALBW20448	26R2018	0.5	U	0.5	U	0.5	U	0.52	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20463/464	27R2019	0.5	U	0.5	U	0.5	U	2.4		0.47	J	3.6		0.5	U	0.5	U
		ALBW20480	28R2019	0.5	U	0.47	J	0.5	U	2.5		0.33	J	2.4		0.5	U	0.67	J
		ALBW20496	29R2020	0.5	U	0.5	U	0.5	U	4.5		0.91	J	3.4		0.5	U	0.5	U
		ALBW20511/512	30R2021	0.5	U	0.5	U	0.5	U	1.5		0.5	U	1.5	J	0.5	U	0.5	U
		ALBW20528	31R2021	0.5	U	0.5	U	0.5	U	2.8		0.7	J	3.8		0.5	U	0.5	U
		ALBW20544	32R2021	0.5	U	0.5	U	0.5	U	1.4		0.5	U	1.4	J	0.5	U	0.5	U
		SEAD-AL-MWT-23-20230627	33R2023	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.72	J	0.31	U	0.34	U
		SEAD-AL-MWT-23-20240618	34R2024	0.22	U	0.35	U	0.32	U	0.37	J	0.22	U	0.8	J	0.34	U	0.31	U

Table 5. Chlorinated Organics in Groundwater

Well ID	Location Description	Sample ID	Sample Round	PCE (µg/L)		TCE (µg/L)		1,1-DCE (µg/L)		*cis*-DCE (µg/L)		*trans*-DCE (ug/L)		VC (µg/L)		1,1-DCA (µg/L)		1,2-DCA (µg/L)	
Class GA Standard				**5**		**5**		**5**		**5**		**5**		**2**		**5**		**0.6**	
MWT-24	Downgradient of Biowalls C1/C2 Post-Refresh	ALBW20063	1Q2007	1	U	0.94	J	1	U			2.1		19		0.81	J	1	U
		ALBW20122	5R2008	5	U	5	U	5	U	31		5	U	5	U	5	U	5	U
		ALBW20182	9R2010	0.15	U	5		0.11	U	31		0.41	J	7.5		0.79	J	0.1	U
		ALBW20242	13R2012	0.15	U	2.7		0.11	U	28		1.5		5.3		0.8	J	0.1	U
		ALBW20301	17R2014	0.15	U	1.5		0.11	U	21		1.6		3.6		0.25	U	0.1	U
		ALBW20381	22R2016	0.74	U	3.7		0.36	U	14		0.43	J	1.8		0.43	J	0.5	U
		ALBW20397	23R2017	0.5	U	3.9		0.5	U	18		0.94	J	2.2		0.65	J	0.5	U
		ALBW20413	24R2018	0.5	U	2		0.5	U	10		0.5	U	1	U	0.5	U	0.5	U
		ALBW20429	25R2018	0.5	U	2		0.5	U	13		0.95	J	2		0.4	J	0.5	U
		ALBW20449	26R2018	0.5	U	2.7		0.5	U	12		0.76	J	1.2	J	0.5	U	0.5	U
		ALBW20465	27R2019	0.5	U	2.5		0.5	U	15		1.1		1.9	J	0.57	J	0.5	U
		ALBW20481	28R2019	0.5	U	2.6		0.5	U	13		0.34	J	0.77	J	0.53	J	0.5	U
		ALBW20497	29R2020	0.5	U	3.3		0.5	U	13		0.5	U	1	U	0.5	U	0.5	U
		ALBW20513	30R2021	0.5	U	2.9		0.5	U	9.4		0.5	U	1	U	0.5	U	0.5	U
		ALBW20529	31R2021	0.5	U	3.4		0.5	U	15		0.31	J	2.4		0.45	J	0.5	U
		ALBW20545	32R2021	0.5	U	2.9		0.5	U	10		0.37	J	0.79	J	0.5	U	0.5	U
		SEAD-AL-MWT-24-20230627	33R2023	0.22	U	2.1		0.32	U	9.3		0.22	U	0.86		0.31	U	0.34	U
		SEAD-AL-MWT-24-20230618	34R2024	0.22	U	3.2		0.32	U	12.4		0.22	U	1.3		0.38	J	0.31	U
MWT-25	Upgradient of Biowall A Post-Refresh	ALBW20064	1Q2007	1	U	50		1	U	41		0.56	J	1.6		1	U	1	U
		ALBW20123	5R2008	1	U	19		1	U	17		1	U	1	U	1	U	1	U
		ALBW20183	9R2010	0.15	U	7.7		0.11	U	13		0.49	J	0.18	U	0.25	U	0.1	U
		ALBW20243	13R2012	0.15	U	6.1		0.11	U	21		0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20302	17R2014	0.15	U	24		0.11	U	2.8		0.42	J	2.6		0.25	U	0.1	U
		ALBW20382	22R2016	0.74	U	3.5		0.36	U	2.4		0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20398	23R2017	0.5	U	2.6		0.5	U	0.38		0.5	U	1	U	0.5	U	0.5	U
		ALBW20414	24R2018	0.5	U	1		0.5	U	46		0.5	U	1	U	0.5	U	0.5	U
		ALBW20430	25R2018	0.5	U	40		0.5	U	56		1		6.2		0.5	U	0.5	U
		ALBW20440	26R2018	0.5	U	35		0.5	U	220		1.1		4.1		0.5	U	0.5	U
		ALBW20456	27R2019	0.5	U	120		0.96	J	30		4.6		16		0.5	U	0.5	U
		ALBW20472	28R2019	0.5	U	5		0.5	U	390		1.8		0.97	J	0.5	U	0.5	U
		ALBW20488	29R2020	0.5	U	140		1.7		11		10		34		0.5	U	0.5	U
		ALBW20504	30R2021	0.5	U	3.8	J+	0.5	U	19		0.56	J	1	U	0.5	U	0.5	U
		ALBW20520	31R2021	0.5	U	3.3		0.5	U			1.8		0.77	J	0.5	U	0.5	U
		ALBW20536	32R2021	0.5	U	8.6		0.5	U	48		2		2.5		0.5	U	0.5	U
		SEAD-AL-MWT-25-20230627	33R2023	0.43	U	87.7		0.64	U	100		2.7		8.4		0.62	U	0.68	U
		SEAD-AL-MWT-25-20240618	34R2024	0.22	U	7.2		0.32	U	19.2		1.9		1.3		0.34	U	0.031	U
MWT-26	Upgradient of Biowalls B1/B2 Post-Refresh	ALBW20066	1Q2007	1	U	10		1	U	19		0.6	J	2		1	U	1	U
		ALBW20126	5R2008	1	U	1.7		1	U	3.3		1	U	1	U	1	U	1	U
		ALBW20186	9R2010	0.15	U	1.7		0.11	U	5.5		0.37	J	0.18	U	0.25	U	0.1	U
		ALBW20246	13R2012	0.15	U	1.6		0.11	U	4.4		0.24	J	1.1		0.25	U	0.1	U
		ALBW20306	17R2014	0.15	U	0.83	J	0.11	U	4.5		0.4	J	1.1		0.25	U	0.1	U
		ALBW20385	22R2016	0.74	U	1		0.36	U	1.3		0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20401	23R2017	0.5	U	1.8		0.5	U	2.2		0.5	U	1	U	0.5	U	0.5	U
		ALBW20418	24R2018	0.5	U	0.79	J	0.5	U	0.8	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20433	25R2018	0.5	U	1.1		0.5	U	19		0.72	J	5		0.5	U	0.5	U
		ALBW20441	26R2018	0.5	U	0.6	J	0.5	U	4.4		0.48	J	0.48	J	0.5	U	0.5	U
		ALBW20457	27R2019	0.5	U	1.6		0.5	U	48		2.9		11		0.5	U	0.5	U
		ALBW20473	28R2019	0.5	U	0.78	J	0.5	U	2.2		0.38	J	1	U	0.5	U	0.5	U
		ALBW20489	29R2020	0.5	U	2.6		0.5	U	33		1.4		7.6		0.5	U	0.5	U
		ALBW20505	30R2021	0.5	U	0.76	J	0.5	U	2.4		0.5	U	1	U	0.5	U	0.5	U
		ALBW20521	31R2021	0.5	U	2.9		0.5	U	22		0.84	J	5.6		0.5	U	0.5	U
		ALBW20537	32R2021	0.5	U	1.1		0.5	U	4.6		0.5	U	0.43	J	0.5	U	0.5	U
		SEAD-AL-MWT-26-20230628	33R2023	0.22	U	3.8		0.32	U	10.2		0.38	J	6		0.31	U	0.34	U
		SEAD-AL-MWT-26-20240618	34R2024	0.22	U	1.7		0.32	U	4.9		0.22	U	0.43	J	0.34	U	0.31	U
MWT-27	In Biowall B1 Post-Refresh	ALBW20067	1Q2007	20	UJ	20	UJ	20	UJ	49	J	20	UJ	20	UJ	20	UJ	20	UJ
		ALBW20127	5R2008	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U
		ALBW20187	9R2010	0.15	U	0.13	U	0.11	U	0.18	J	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20247	13R2012	0.15	UJ	0.13	U	0.11	U	0.42	J	0.2	U	0.61	J	0.25	U	0.1	UJ
		ALBW20307	17R2014	0.15	U	0.13	U	0.11	U	0.83	J	0.27	J	1		0.25	U	0.1	U
		ALBW20386/387	22R2016	0.74	U	0.48	U	0.36	U	2.5		0.37	U	4.5		0.38	U	0.5	U
		ALBW20402	23R2017	0.5	U	0.5	U	0.5	U	1.6	J+	0.5	U	2.7		0.5	U	0.5	U
		ALBW20419	24R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20434/435	25R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20442	26R2018	0.5	U	0.5	U	0.5	U	0.77	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20458	27R2019	0.5	U	0.5	U	0.5	U	1	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20474/475	28R2019	0.5	U	0.5	U	0.5	U	0.37	J	0.5	U	0.29	J	0.5	U	0.5	U
		ALBW20490	29R2020	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20506	30R2021	0.92	J	0.5	U	0.5	U	0.65	J	0.5	U	0.85	J	0.5	U	0.5	U
		ALBW20522/523	31R2021	0.5	U	0.5	U	0.5	U	0.27	J	0.5	U	0.4	J	0.5	U	0.5	U
		ALBW20538	32R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		SEAD-AL-MWT-27-20230628	33R2023	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	1.4		0.31	U	0.34	U
		SEAD-AL-MWT-27-20240618	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U

Table 5. Chlorinated Organics in Groundwater

Well ID	Location Description	Sample ID	Sample Round	PCE (µg/L)		TCE (µg/L)		1,1-DCE (µg/L)		*cis*-DCE (µg/L)		*trans*-DCE (ug/L)		VC (µg/L)		1,1-DCA (µg/L)		1,2-DCA (µg/L)	
		Class GA Standard		**5**		**5**		**5**		**5**		**5**		**2**		**5**		**0.6**	
MWT-28	In Biowall B2 Post-Refresh	ALBW20068	1Q2007	20	UJ	20	UJ	20	UJ	20	UJ	20	UJ	20	UJ	20	UJ	20	UJ
		ALBW20128	5R2008	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U
		ALBW20188/89	9R2010	0.15	U	0.13	U	0.11	U	0.15	U	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20248/49	13R2012	0.15	U	0.13	U	0.11	U	0.15	U	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20308	17R2014	0.15	U	0.13	U	0.11	U	0.15	U	0.2	U	0.18	U	0.25	U	0.1	U
		ALBW20388	22R2016	0.74	U	0.48	U	0.36	U	0.41	U	0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20403/04	23R2017	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20420	24R2018	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20436	25R2018	0.5	U	0.36	J	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20443	26R2018	0.5	U	0.5	U	0.5	U	0.27	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20459	27R2019	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20476	28R2019	0.5	U	0.5	U	0.5	U	0.35	J	0.5	U	1	U	0.5	U	0.5	U
		ALBW20491/492	29R2020	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20507	30R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20524	31R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		ALBW20539	32R2021	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U
		SEAD-AL-MWT-28-20230629	33R2023	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.31	U	0.34	U
		SEAD-AL-MWT-28-20240618	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MWT-29	Downgradient of Biowall B2 Post-Refresh	ALBW20070	1Q2007	2	U	22		2	U			6.5		140		2	U	2	U
		ALBW20129/30	5R2008	1	U	3.3		1	U	85		0.68	J	74		1	U	1	U
		ALBW20190	9R2010	0.15	U	1.3		0.26	J	78		1.1		69		0.25	U	0.1	U
		ALBW20250	13R2012	0.15	U	0.69	J	0.11	U	36		0.59	J	49		0.25	U	0.1	U
		ALBW20309	17R2014	0.15	U	0.71	J	0.13	J	49		1.1		130		0.25	U	0.1	U
		ALBW20389	22R2016	0.74	U	2.1		0.36	U	1.2		0.37	U	0.5	U	0.38	U	0.5	U
		ALBW20405	23R2017	0.5	U	3.2		0.5	U	38		0.85	J	16		0.5	U	0.5	U
		ALBW20421	24R2018	0.5	U	1		0.5	U	7.1		0.5	U	5.7		0.5	U	0.5	U
		ALBW20437	25R2018	0.5	U	2.9		0.5	U	110		1.6		85		0.5	U	0.5	U
		ALBW20445	26R2018	0.5	U	1.8		0.5	U	20		0.52	J	6.5		0.5	U	0.5	U
		ALBW20460	27R2019	0.5	U	4.1		0.5	U	77		2.3		29		0.5	U	0.5	U
		ALBW20477	28R2019	0.5	U	1.8		0.5	U	12		0.3	J	2.5		0.5	U	0.5	U
		ALBW20493	29R2020	0.5	U	3.5		0.5	U	78		1.7		41		0.5	U	0.5	U
		ALBW20508	30R2021	0.5	U	2		0.5	U	26		0.5	U	7.9		0.5	U	0.5	U
		ALBW20525	31R2021	0.5	U	2.1		0.5	U	31		0.61	J	16		0.5	U	0.5	U
		ALBW20541	32R2021	0.5	U	1.8		0.5	U	33		0.64	J	9.1		0.5	U	0.5	U
		SEAD-AL-MWT-29-20230628	33R2023	0.22	U	0.48	J	0.32	U	98.1		2.1		77.3		0.31	U	0.34	U
		SEAD-AL-MWT-29-20240618	34R2024	0.22	U	0.65	J	0.32	U	115		3.7		89.3		0.34	U	0.31	U
PT-12A	In Biowall B1	SEAD-AL-PT-12A-20240618	34R2024	0.43	U	5.9		0.64	U	171		6.1		20.5		0.68	U	0.62	U
PT-16	Northern Deliniation Well	SEAD-AL-PT-16-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
PT-19	Southern Deliniation Well	SEAD-AL-PT-19-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
PT-20	Between Biowalls B & C	SEAD-AL-PT-20-20240619	34R2024	0.22	U	7.5		0.32	U	21.5		2		1.3		0.34	U	0.31	U
MW-27	Downgadient of Biowalls C1/C2	SEAD-AL-MW-27-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-29	Upgradient of ZVI Wall	SEAD-AL-MW-29-20240620	34R2024	0.22	U	2.6		0.32	U	33.4		0.22	U	0.41	U	0.68	J	0.31	U
MW-32	Southern Deliniation Well	SEAD-AL-MW-32-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-39	Northern Deliniation Well	SEAD-AL-MW-39-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-40	Upgradient of Biowalls	SEAD-AL-MW-40-20240618	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-44A	Upgradient of Biowalls	SEAD-AL-MW-44A-20240619	34R2024	2.2	U	3.5	U	3.2	U	356		2.2	U	463		3.2	U	3.1	U
MW-46	Downgradient of Biowalls B1/B2	SEAD-AL-MW-46-20240619	34R2024	0.22	U	6		0.32	U	22.9		2.3		1.8		0.34	U	0.31	U
MW-48	Northern Deliniation Well	SEAD-AL-MW-48-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-58D	Offsite Bedrock Well	SEAD-AL-MW-58D-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MW-60	Southern Deliniation Well	SEAD-AL-MW-60-20240617	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MWT-1	Upgradient of ZVI Wall	SEAD-AL-MWT-1-20240619	34R2024	0.22	U	1		0.32	U	2.4		0.22	U	0.41	U	0.34	U	0.31	U
MWT-2	In ZVI Wall	SEAD-AL-MWT-2-20240620	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U
MWT-3	Downgradient of ZVI Wall	SEAD-AL-MWT-3-20240620	34R2024	0.22	U	1.3		0.32	U	2.2		0.22	U	0.41	U	0.34	U	0.31	U
MWT-4	Upgradient of ZVI Wall	SEAD-AL-MWT-4-20240620	34R2024	0.22	U	1.7		0.32	U	37.3		0.22	U	0.41	U	0.64	J	0.31	U
MWT-5	In ZVI Wall	SEAD-AL-MWT-5-20240619	34R2024	0.22	U	0.35	U	0.32	U	1.6		0.22	U	0.41	U	0.34	U	0.31	U
MWT-6	Downgradient of ZVI Wall	SEAD-AL-MWT-6-20240620	34R2024	0.22	U	1.2		0.32	U	23.2		0.22	U	0.41	U	0.38	J	0.31	U
MWT-8	In ZVI Wall	SEAD-AL-MWT-8-20240620	34R2024	0.22	U	0.48	J	0.32	U	2.7		0.22	U	0.5	J	0.34	U	0.31	U
MWT-9	Downgradient of ZVI Wall	SEAD-AL-MWT-9-20240619	34R2024	0.22	U	35.3		0.32	U	63.3		1		2.4		0.34	U	0.31	U
MWT-10	In ZVI Wall	SEAD-AL-MWT-10-20240619	34R2024	0.22	U	0.35	U	0.32	U	0.28	U	0.22	U	0.41	U	0.34	U	0.31	U

Notes:
Biowall refresh conducted between 25 August 2017 and 18 October 2017 prior to Round 24 of long-term monitoring (LTM)
µg/L = Microgram(s) per liter
DCA = Dichloroethane
DCE = Dichloroethene
J = The reported value is an estimated concentration
J+ = The reported value is estimated based high
PCE = Tetrachloroethene
TCE = Trichloroethene
U = Compound was not detected; detection limit shown
UJ = The compound was not detected; the associated reporting limit is approximate
VC = Vinyl chloride
Grey shading = the concentration was detected above its Class GA groundwater standard (TCE and *cis*-DCE = 5 µg/L; VC = 2 µg/L)

Table 6. Analytical Results for Ashland Landfill June 2024

Area				Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill	
Location ID				SEAD-AL-MW-27		SEAD-AL-MW-29		SEAD-AL-MW-32		SEAD-AL-MW-39		SEAD-AL-MW-40		SEAD-AL-MW-44A		SEAD-AL-MW-46		SEAD-AL-MW-48		SEAD-AL-MW-56R		SEAD-AL-MW-58D		SEAD-AL-MW-60		SEAD-AL-MWT-1		SEAD-AL-MWT-2		SEAD-AL-MWT-3	
Matrix				GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW	
Sample Date				6/19/2024		6/20/2024		6/19/2024		6/19/2024		6/18/2024		6/19/2024		6/19/2024		6/19/2024		6/19/2024		6/17/2024		6/19/2024		6/20/2024		6/20/2024	
Parameter	Unit	Source Criteria	Action Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
VOCs (SW8260)																													
1,1,1-Trichloroethane	µg/L	NYS CLASS GA	5	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 2.5	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U
1,1,2,2-Tetrachloroethane	µg/L	NYS CLASS GA	5	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 3.0	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	NYS CLASS GA	5	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 4.8	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U
1,1,2-Trichloroethane	µg/L	NYS CLASS GA	1	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 4.7	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
1,1-Dichloroethane	µg/L	NYS CLASS GA	5	< 0.34	U	0.68	J	< 0.34	U	< 0.34	U	< 0.34	U	4.8	J	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U
1,1-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 3.2	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2,3-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 6.1	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U
1,2,4-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 5.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
1,2-Dibromo-3-chloropropane	µg/L	NYS CLASS GA	0.04	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 10	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2-Dibromoethane	µg/L	NYS CLASS GA	NSL	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 2.8	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
1,2-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 3.2	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2-Dichloroethane	µg/L	NYS CLASS GA	0.6	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 3.1	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U
1,2-Dichloropropane	µg/L	NYS CLASS GA	1	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 4.3	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U
1,3-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 2.2	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
1,4-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 2.6	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
2-Butanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 20	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
2-Hexanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 20	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
4-Methyl-2-pentanone	µg/L	NYS CLASS GA	NSL	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 10	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Acetone	µg/L	NYS CLASS GA	50	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 100	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U
Benzene	µg/L	NYS CLASS GA	1	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 3.1	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	**1.1**		< 0.31	U
Bromochloromethane	µg/L	NYS CLASS GA	5	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 4.5	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U
Bromodichloromethane	µg/L	NYS CLASS GA	50	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 2.4	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U
Bromoform	µg/L	NYS CLASS GA	50	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 4.1	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
Bromomethane	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 20	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
Carbon disulfide	µg/L	NYS CLASS GA	60	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 5.3	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U
Carbon tetrachloride	µg/L	NYS CLASS GA	5	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 3.6	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Chlorobenzene	µg/L	NYS CLASS GA	5	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 2.0	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U
Chloroethane	µg/L	NYS CLASS GA	5	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	U	< 6.7	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	U	< 0.67	UJ	< 0.67	UJ
Chloroform	µg/L	NYS CLASS GA	7	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 3.0	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
Chloromethane	µg/L	NYS CLASS GA	NSL	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 5.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
cis -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.28	U	**33.4**		< 0.28	U	< 0.28	U	< 0.28	U	**356**		**22.9**		< 0.28	U	**9.4**		< 0.28	U	< 0.28	U	2.4		< 0.28	U	2.2	
cis -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 2.9	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U
Cyclohexane	µg/L	NYS CLASS GA	NSL	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	U	< 3.9	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	U	< 0.39	UJ	< 0.39	UJ
Dibromochloromethane	µg/L	NYS CLASS GA	50	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 2.8	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
Dichlorodifluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 5.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Ethylbenzene	µg/L	NYS CLASS GA	5	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 3.6	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Isopropylbenzene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 2.2	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
m- & p-Xylenes	µg/L	NYS CLASS GA	5	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 4.7	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
Methyl acetate	µg/L	NYS CLASS GA	NSL	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 50	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Methyl tert-butyl ether	µg/L	NYS CLASS GA	10	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 2.3	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U
Methylcyclohexane	µg/L	NYS CLASS GA	NSL	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 4.4	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U
Methylene chloride	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 20	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
o-Xylene	µg/L	NYS CLASS GA	5	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 2.6	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
Styrene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 2.2	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Tetrachloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 2.2	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Toluene	µg/L	NYS CLASS GA	5	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 3.0	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	0.38	J	< 0.30	U
trans -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 2.2	U	2.3		< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
trans -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 2.1	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U
Trichloroethene	µg/L	NYS CLASS GA	5	< 0.35	U	2.6		< 0.35	U	< 0.35	U	< 0.35	U	< 3.5	U	**6**		< 0.35	U	1.5		< 0.35	U	< 0.35	U	1		< 0.35	U	1.3	
Trichlorofluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 5.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Vinyl chloride	µg/L	NYS CLASS GA	2	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	**463**		1.8		< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
TOC (SM5310B)																													
Total Organic Carbon	mg/L	NSL	NSL	NA		NA		NA		NA		1.6	J	NA		NA		NA		NA		NA		NA		NA		NA	
MEE (RSK-175)																													
Methane	µg/L	NSL	NSL	NA		NA		NA		NA		< 0.16	U	NA		NA		NA		NA		NA		NA		NA		NA	
Ethane	µg/L	NSL	NSL	NA		NA		NA		NA		< 0.32	U	NA		NA		NA		NA		NA		NA		NA		NA	
Ethene	µg/L	NSL	NSL	NA		NA		NA		NA		< 0.43	U	NA		NA		NA		NA		NA		NA		NA		NA	
Inorganics (SW9056/Calc)																													
Nitrate (Calculated)	mg/L	NYS CLASS GA	10	NA		NA		NA		NA		0.1	J	NA		NA		NA		NA		NA		NA		NA		NA	
Chloride	mg/L	NYS CLASS GA	250	NA		NA		NA		NA		1.7	J	NA		NA		NA		NA		NA		NA		NA		NA	
Sulfate	mg/L	NYS CLASS GA	250	NA		NA		NA		NA		27.4		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:

µg/L = Microgram(s) per liter
GW = Groundwater
mg/L = Miligram(s) per liter
NSL = No screening level available
Qual = Qualifier
J = Concentration is estimated
ID = Identification
NA = Not analyzed
NYS = New York State
U = Analyte not detected

Bold and shaded values represent results that are above either a NYS GA Standard or EPA MCL Standard.

Table 6. Analytical Results for Ashland Landfill June 2024

Area				Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill	
Location ID				SEAD-AL-MWT-4		SEAD-AL-MWT-5		SEAD-AL-MWT-6		SEAD-AL-MWT-7		SEAD-AL-MWT-8		SEAD-AL-MWT-9		SEAD-AL-MWT-10		SEAD-AL-MWT-22		SEAD-AL-MWT-23		SEAD-AL-MWT-24		SEAD-AL-MWT-25		SEAD-AL-MWT-26		SEAD-AL-MWT-27		SEAD-AL-MWT-27	
Matrix				GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW	
Sample Date				6/20/2024		6/19/2024		6/20/2024		6/18/2024		6/20/2024		6/19/2024		6/19/2024		6/18/2024		6/18/2024		6/19/2024		6/18/2024		6/18/2024		6/18/2024		6/18/2024	
Parameter	**Unit**	**Source Criteria**	**Action Level**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**
VOCs (SW8260)																														
1,1,1-Trichloroethane	µg/L	NYS CLASS GA	5	< 0.25	U	< 0.25	U	< 0.25	U	< 0.62	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U
1,1,2,2-Tetrachloroethane	µg/L	NYS CLASS GA	5	< 0.30	U	< 0.30	U	< 0.30	U	< 0.75	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	NYS CLASS GA	5	< 0.48	U	< 0.48	U	< 0.48	U	< 1.2	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U
1,1,2-Trichloroethane	µg/L	NYS CLASS GA	1	< 0.47	U	< 0.47	U	< 0.47	U	< 1.2	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
1,1-Dichloroethane	µg/L	NYS CLASS GA	5	0.64	J	< 0.34	U	0.38	J	< 0.85	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	0.38	J	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U
1,1-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.32	U	< 0.32	U	< 0.32	U	< 0.81	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2,3-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.61	U	< 0.61	U	< 0.61	U	< 1.5	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U
1,2,4-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.3	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
1,2-Dibromo-3-chloropropane	µg/L	NYS CLASS GA	0.04	< 1.0	U	< 1.0	U	< 1.0	U	< 2.6	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2-Dibromoethane	µg/L	NYS CLASS GA	NSL	< 0.28	U	< 0.28	U	< 0.28	U	< 0.69	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
1,2-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.32	U	< 0.32	U	< 0.32	U	< 0.81	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2-Dichloroethane	µg/L	NYS CLASS GA	0.6	< 0.31	U	< 0.31	U	< 0.31	U	< 0.78	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U
1,2-Dichloropropane	µg/L	NYS CLASS GA	1	< 0.43	U	< 0.43	U	< 0.43	U	< 1.1	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U
1,3-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.22	U	< 0.22	U	< 0.22	U	< 0.54	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
1,4-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.26	U	< 0.26	U	< 0.26	U	< 0.64	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
2-Butanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 5.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
2-Hexanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 5.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
4-Methyl-2-pentanone	µg/L	NYS CLASS GA	NSL	< 1.0	U	< 1.0	U	< 1.0	U	< 2.5	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Acetone	µg/L	NYS CLASS GA	50	< 10	U	< 10	U	< 10	U	< 25	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	10.1	J
Benzene	µg/L	NYS CLASS GA	1	< 0.31	U	**2**		< 0.31	U	< 0.78	U	0.58	J	< 0.31	U	0.65	J	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U
Bromochloromethane	µg/L	NYS CLASS GA	5	< 0.45	U	< 0.45	U	< 0.45	U	< 1.1	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U
Bromodichloromethane	µg/L	NYS CLASS GA	50	< 0.24	U	< 0.24	U	< 0.24	U	< 0.61	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U
Bromoform	µg/L	NYS CLASS GA	50	< 0.41	U	< 0.41	U	< 0.41	U	< 1.0	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
Bromomethane	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 5.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
Carbon disulfide	µg/L	NYS CLASS GA	60	< 0.53	U	< 0.53	U	< 0.53	U	< 1.3	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U
Carbon tetrachloride	µg/L	NYS CLASS GA	5	< 0.36	U	< 0.36	U	< 0.36	U	< 0.89	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Chlorobenzene	µg/L	NYS CLASS GA	5	< 0.20	U	< 0.20	U	< 0.20	U	< 0.50	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U
Chloroethane	µg/L	NYS CLASS GA	5	< 0.67	UJ	< 0.67	U	< 0.67	UJ	< 1.7	U	< 0.67	UJ	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U	< 0.67	U
Chloroform	µg/L	NYS CLASS GA	7	< 0.30	U	< 0.30	U	< 0.30	U	< 0.75	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
Chloromethane	µg/L	NYS CLASS GA	NSL	< 0.50	U	1.8	J	< 0.50	U	< 1.3	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
cis -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	**37.3**		1.6		**23.2**		**63.3**		2.7		**63.3**		< 0.28	U	**32.3**		0.37	J	**12.4**		**19.2**		4.9		< 0.28	U	< 0.28	U
cis -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.29	U	< 0.29	U	< 0.29	U	< 0.73	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U
Cyclohexane	µg/L	NYS CLASS GA	NSL	< 0.39	UJ	< 0.39	U	< 0.39	UJ	< 0.98	U	< 0.39	UJ	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U	< 0.39	U
Dibromochloromethane	µg/L	NYS CLASS GA	50	< 0.28	U	< 0.28	U	< 0.28	U	< 0.69	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
Dichlorodifluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.3	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Ethylbenzene	µg/L	NYS CLASS GA	5	< 0.36	U	0.47	J	< 0.36	U	< 0.89	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Isopropylbenzene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.55	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
m- & p-Xylenes	µg/L	NYS CLASS GA	5	< 0.47	U	< 0.47	U	< 0.47	U	< 1.2	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
Methyl acetate	µg/L	NYS CLASS GA	NSL	< 5.0	U	< 5.0	U	< 5.0	U	< 13	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Methyl tert-butyl ether	µg/L	NYS CLASS GA	10	< 0.23	U	< 0.23	U	< 0.23	U	< 0.57	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U
Methylcyclohexane	µg/L	NYS CLASS GA	NSL	< 0.44	U	< 0.44	U	< 0.44	U	< 1.1	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U
Methylene chloride	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 5.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
o-Xylene	µg/L	NYS CLASS GA	5	< 0.26	U	< 0.26	U	< 0.26	U	< 0.64	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
Styrene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.56	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Tetrachloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.54	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Toluene	µg/L	NYS CLASS GA	5	< 0.30	U	1.5		< 0.30	U	< 0.75	U	0.43	J	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
trans -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.55	U	< 0.22	U	1		< 0.22	U	2.9		< 0.22	U	< 0.22	U	1.9		< 0.22	U	< 0.22	U	< 0.22	U
trans -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.21	U	< 0.21	U	< 0.21	U	< 0.54	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U
Trichloroethene	µg/L	NYS CLASS GA	5	1.7		< 0.35	U	1.2		**146**		0.48	J	**35.3**		< 0.35	U	< 0.35	U	< 0.35	U	3.2		**7.2**		1.7		< 0.35	U	< 0.35	U
Trichlorofluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.3	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Vinyl chloride	µg/L	NYS CLASS GA	2	< 0.41	U	< 0.41	U	< 0.41	U	< 1.0	U	0.5	J	**2.4**		< 0.41	U	**87.6**		0.8	J	1.3		1.3		0.43	J	< 0.41	U	< 0.41	U
TOC (SM5310B)																														
Total Organic Carbon	mg/L	NSL	NSL	NA		NA		NA		1.3	J	NA		NA		NA		NA		3.9		NA		NA		4.8		33.3		32.9	
MEE (RSK-175)																														
Methane	µg/L	NSL	NSL	NA		NA		NA		0.18	J	NA		NA		NA		NA		8270		NA		NA		22		4420	J	7140	J
Ethane	µg/L	NSL	NSL	NA		NA		NA		< 0.32	U	NA		NA		NA		NA		3.8		NA		NA		0.33	J	2.1		2	
Ethene	µg/L	NSL	NSL	NA		NA		NA		< 0.43	U	NA		NA		NA		NA		1.1		NA		NA		< 0.43	U	0.77	J	0.71	J
Inorganics (SW9056/Calc)																														
Nitrate (Calculated)	mg/L	NYS CLASS GA	10	NA		NA		NA		0.1		NA		NA		NA		NA		< 0.50	U	NA		NA		0.5	J	0.49	J	< 1.0	U
Chloride	mg/L	NYS CLASS GA	250	NA		NA		NA		2		NA		NA		NA		NA		< 10	U	NA		NA		18.1	J	11.1	J	11.2	J
Sulfate	mg/L	NYS CLASS GA	250	NA		NA		NA		26.4		NA		NA		NA		NA		< 10	U	NA		NA		**542**		27.2		22.2	

Notes:

µg/L = Microgram(s) per liter
GW = Groundwater
mg/L = Miligram(s) per liter
NSL = No screening level available
Qual = Qualifier
J = Concentration is estimated
ID = Identification
NA = Not analyzed
NYS = New York State
U = Analyte not detected

Bold and shaded values represent results that are above either a NYS GA Standard or EPA MCL Standard.

Table 6. Analytical Results for Ashland Landfill June 2024

Area				Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill		Ashland Landfill	
Location ID				SEAD-AL-MWT-28		SEAD-AL-MWT-29		SEAD-AL-MWT-29		SEAD-AL-PT-12A		SEAD-AL-PT-16		SEAD-AL-PT-17		SEAD-AL-PT-18A		SEAD-AL-PT-19		SEAD-AL-PT-20		SEAD-AL-PT-22		SEAD-AL-PT-24	
Matrix				GW		GW		GW		GW		GW		GW		GW		GW		GW		GW		GW	
Sample Date				6/19/2024		6/18/2024		6/18/2024		6/18/2024		6/19/2024		6/18/2024		6/19/2024		6/19/2024		6/19/2024		6/19/2024		6/18/2024	
Parameter	**Unit**	**Source Criteria**	**Action Level**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**	**Value**	**Qual**
VOCs (SW8260)																									
1,1,1-Trichloroethane	µg/L	NYS CLASS GA	5	< 0.25	U	< 0.25	U	< 0.25	U	< 0.50	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U	< 0.25	U
1,1,2,2-Tetrachloroethane	µg/L	NYS CLASS GA	5	< 0.30	U	< 0.30	U	< 0.30	U	< 0.60	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	NYS CLASS GA	5	< 0.48	U	< 0.48	U	< 0.48	U	< 0.96	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U	< 0.48	U
1,1,2-Trichloroethane	µg/L	NYS CLASS GA	1	< 0.47	U	< 0.47	U	< 0.47	U	< 0.93	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
1,1-Dichloroethane	µg/L	NYS CLASS GA	5	< 0.34	U	< 0.34	U	< 0.34	U	< 0.68	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U	< 0.34	U
1,1-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.32	U	< 0.32	U	< 0.32	U	< 0.64	U	< 0.32	U	< 0.32	U	1.3		< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2,3-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.61	U	< 0.61	U	< 0.61	U	< 1.2	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U	< 0.61	U
1,2,4-Trichlorobenzene	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
1,2-Dibromo-3-chloropropane	µg/L	NYS CLASS GA	0.04	< 1.0	U	< 1.0	U	< 1.0	U	< 2.1	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
1,2-Dibromoethane	µg/L	NYS CLASS GA	NSL	< 0.28	U	< 0.28	U	< 0.28	U	< 0.55	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
1,2-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.32	U	< 0.32	U	< 0.32	U	< 0.65	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U	< 0.32	U
1,2-Dichloroethane	µg/L	NYS CLASS GA	0.6	< 0.31	U	< 0.31	U	< 0.31	U	< 0.62	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	**1.3**		< 0.31	U
1,2-Dichloropropane	µg/L	NYS CLASS GA	1	< 0.43	U	< 0.43	U	< 0.43	U	< 0.85	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U	< 0.43	U
1,3-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.22	U	< 0.22	U	< 0.22	U	< 0.43	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
1,4-Dichlorobenzene	µg/L	NYS CLASS GA	3	< 0.26	U	< 0.26	U	< 0.26	U	< 0.51	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
2-Butanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 4.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
2-Hexanone	µg/L	NYS CLASS GA	50	< 2.0	U	< 2.0	U	< 2.0	U	< 4.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
4-Methyl-2-pentanone	µg/L	NYS CLASS GA	NSL	< 1.0	U	< 1.0	U	< 1.0	U	< 2.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U
Acetone	µg/L	NYS CLASS GA	50	< 10	U	< 10	U	< 10	U	< 20	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U
Benzene	µg/L	NYS CLASS GA	1	< 0.31	U	< 0.31	U	< 0.31	U	< 0.62	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U	< 0.31	U
Bromochloromethane	µg/L	NYS CLASS GA	5	< 0.45	U	< 0.45	U	< 0.45	U	< 0.90	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U	< 0.45	U
Bromodichloromethane	µg/L	NYS CLASS GA	50	< 0.24	U	< 0.24	U	< 0.24	U	< 0.48	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U	< 0.24	U
Bromoform	µg/L	NYS CLASS GA	50	< 0.41	U	< 0.41	U	< 0.41	U	< 0.81	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U	< 0.41	U
Bromomethane	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 4.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
Carbon disulfide	µg/L	NYS CLASS GA	60	< 0.53	U	< 0.53	U	< 0.53	U	< 1.1	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U	< 0.53	U
Carbon tetrachloride	µg/L	NYS CLASS GA	5	< 0.36	U	< 0.36	U	< 0.36	U	< 0.71	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Chlorobenzene	µg/L	NYS CLASS GA	5	< 0.20	U	< 0.20	U	< 0.20	U	< 0.40	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U	< 0.20	U
Chloroethane	µg/L	NYS CLASS GA	5	< 0.67	UJ	< 0.67	U	< 0.67	U	< 1.3	U	< 0.67	U	< 0.67	U	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	UJ	< 0.67	U
Chloroform	µg/L	NYS CLASS GA	7	< 0.30	U	< 0.30	U	< 0.30	U	< 0.60	U	< 0.30	U	< 0.30	U	1.2		< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
Chloromethane	µg/L	NYS CLASS GA	NSL	< 0.50	U	< 0.50	U	< 0.50	U	< 1.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
cis -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.28	U	**115**		**118**		**171**	J	< 0.28	U	**115**		**313**		< 0.28	U	**21.5**		**29.1**		**11.8**	
cis -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.29	U	< 0.29	U	< 0.29	U	< 0.58	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U	< 0.29	U
Cyclohexane	µg/L	NYS CLASS GA	NSL	< 0.39	UJ	< 0.39	U	< 0.39	U	< 0.78	U	< 0.39	U	< 0.39	U	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	UJ	< 0.39	U
Dibromochloromethane	µg/L	NYS CLASS GA	50	< 0.28	U	< 0.28	U	< 0.28	U	< 0.55	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U	< 0.28	U
Dichlorodifluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Ethylbenzene	µg/L	NYS CLASS GA	5	< 0.36	U	< 0.36	U	< 0.36	U	< 0.71	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U	< 0.36	U
Isopropylbenzene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.44	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
m- & p-Xylenes	µg/L	NYS CLASS GA	5	< 0.47	U	< 0.47	U	< 0.47	U	< 0.93	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U	< 0.47	U
Methyl acetate	µg/L	NYS CLASS GA	NSL	< 5.0	U	< 5.0	U	< 5.0	U	< 10	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U
Methyl tert-butyl ether	µg/L	NYS CLASS GA	10	< 0.23	U	< 0.23	U	< 0.23	U	< 0.46	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U	< 0.23	U
Methylcyclohexane	µg/L	NYS CLASS GA	NSL	< 0.44	U	< 0.44	U	< 0.44	U	< 0.87	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U	< 0.44	U
Methylene chloride	µg/L	NYS CLASS GA	5	< 2.0	U	< 2.0	U	< 2.0	U	< 4.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U	< 2.0	U
o-Xylene	µg/L	NYS CLASS GA	5	< 0.26	U	< 0.26	U	< 0.26	U	< 0.51	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U	< 0.26	U
Styrene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.44	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Tetrachloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	< 0.22	U	< 0.22	U	< 0.43	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U	< 0.22	U
Toluene	µg/L	NYS CLASS GA	5	< 0.30	U	< 0.30	U	< 0.30	U	< 0.60	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
trans -1,2-Dichloroethene	µg/L	NYS CLASS GA	5	< 0.22	U	3.7		2.3		**6.1**		< 0.22	U	**13.4**		1.6		< 0.22	U	2		0.88	J	0.3	J
trans -1,3-Dichloropropene	µg/L	NYS CLASS GA	0.4	< 0.21	U	< 0.21	U	< 0.21	U	< 0.43	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U	< 0.21	U
Trichloroethene	µg/L	NYS CLASS GA	5	< 0.35	U	0.65	J	0.67	J	**5.9**		< 0.35	U	**15.3**		**297**		< 0.35	U	**7.5**		**12.5**		0.98	J
Trichlorofluoromethane	µg/L	NYS CLASS GA	5	< 0.50	U	< 0.50	U	< 0.50	U	< 1.0	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U
Vinyl chloride	µg/L	NYS CLASS GA	2	< 0.41	U	**89.3**		**79.5**		**20.5**		< 0.41	U	**25.3**		1.8		< 0.41	U	1.3		2		< 0.41	U
TOC (SM5310B)																									
Total Organic Carbon	mg/L	NSL	NSL	19.7		6.5		NA		NA		NA		3.2		7.2		NA		NA		NA		1.5	J
MEE (RSK-175)																									
Methane	µg/L	NSL	NSL	7630		2160		NA		NA		NA		1260		9.3		NA		NA		NA		< 0.16	U
Ethane	µg/L	NSL	NSL	2.9		4.8		NA		NA		NA		1.3		< 0.32	U	NA		NA		NA		< 0.32	U
Ethene	µg/L	NSL	NSL	< 0.43	U	10.2		NA		NA		NA		0.98	J	< 0.43	U	NA		NA		NA		< 0.43	U
Inorganics (SW9056/Calc)																									
Nitrate (Calculated)	mg/L	NYS CLASS GA	10	0.49	J	< 1.0	U	NA		NA		NA		0.26	J	0.6	J	NA		NA		NA		0.061	J
Chloride	mg/L	NYS CLASS GA	250	11.2	J	38.7		NA		NA		NA		< 10	U	< 20	U	NA		NA		NA		2.7	
Sulfate	mg/L	NYS CLASS GA	250	< 20	U	91.6		NA		NA		NA		27.5		**356**		NA		NA		NA		26.4	

Notes:
µg/L = Microgram(s) per liter
GW = Groundwater
mg/L = Miligram(s) per liter
NSL = No screening level available
Qual = Qualifier
J = Concentration is estimated
ID = Identification
NA = Not analyzed
NYS = New York State
U = Analyte not detected
Bold and shaded values represent results that are above either a NYS GA Standard or EPA MCL Standard.

Table 7. Proposed RSO Well Construction Details

Proposed Well ID	Northing	Easting	Well Depth (ft bgs) [1]	Screen Interval (ft bgs) [2]
RSO-01	995426.213	740384.8479	10	5-10
RSO-02	995313.7984	740738.1509	10	5-10
RSO-03	995125.9072	740763.7515	10	5-10
RSO-04	994586.3156	740553.4698	10	5-10
RSO-05	994561.3502	739761.176	10	5-10
RSO-06	994560.6208	739153.1054	10	5-10
RSO-07	994559.0149	739125.8047	15	10-15

Notes:

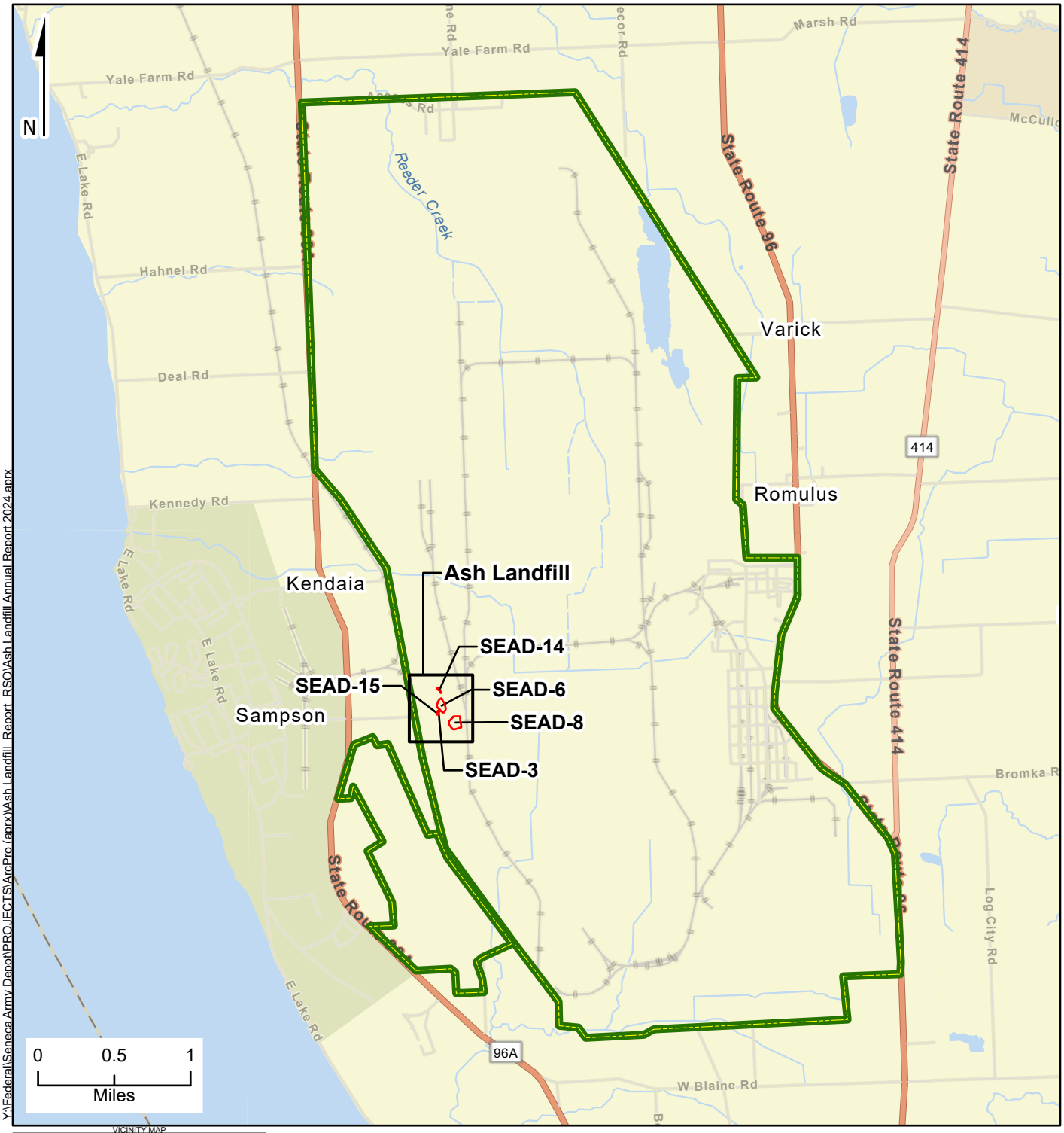
1. Actual well depths will be determined during drilling when top of bedrock is encountered
2. Screen intervals will correspond with the well depths determined during drilling

ID = Identification

RSO = Remedial System Optimization

This page intentionally left blank

Figures



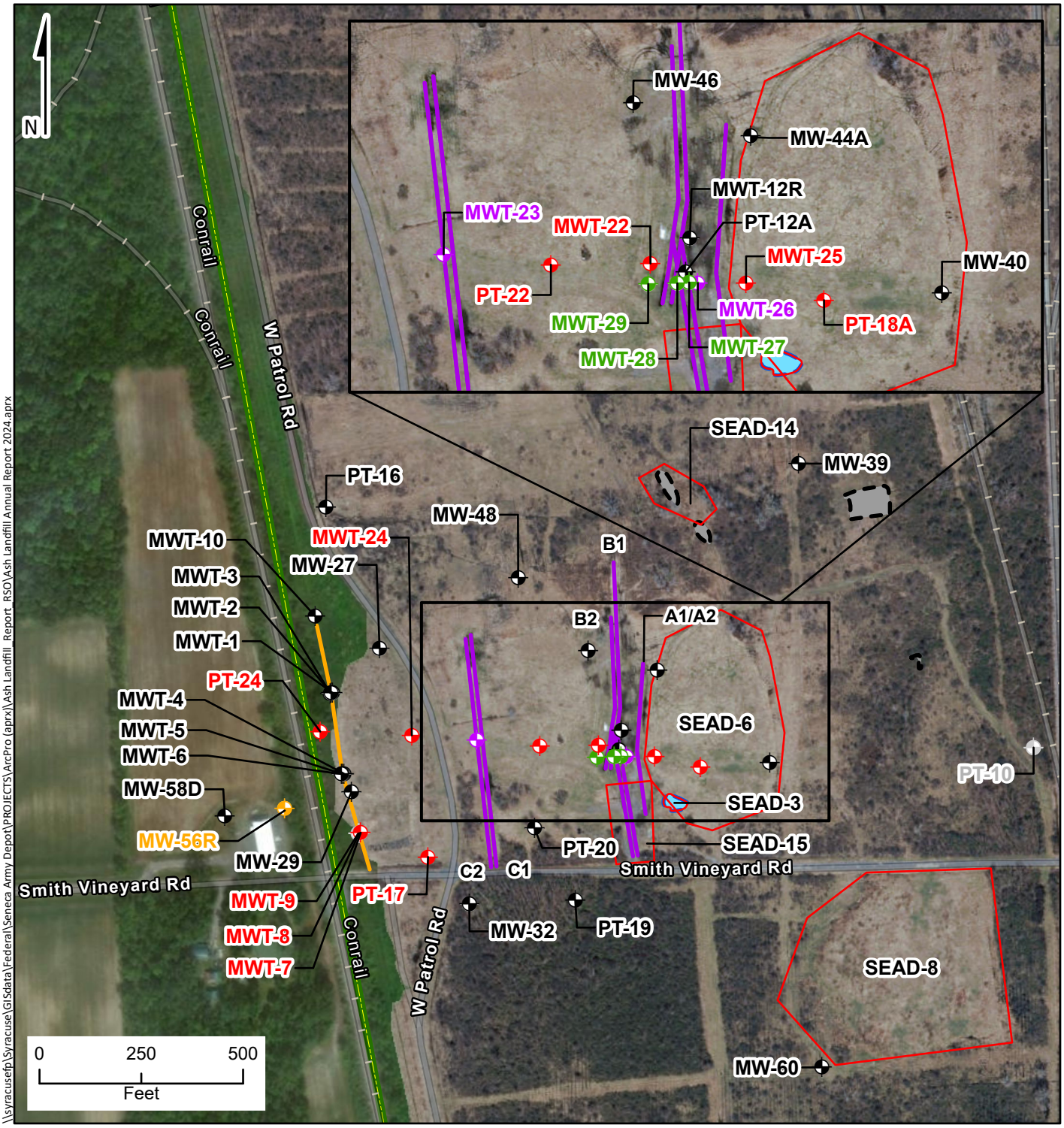
Y:\Federal\Seneca Army Depot\PROJECTS\ArcPro (aprx)\Ash Landfill Report_RSO\Ash Landfill Annual Report 2024.aprx

Legend

- SEAD Boundary
- Ash Landfill SEAD Sites

Figure 1
Ash Landfill Site Location
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

Map Date: 8/14/2024
Projection: NAD 1983 2011 State Plane
New York Central FIPS 3102 Ft US



Legend

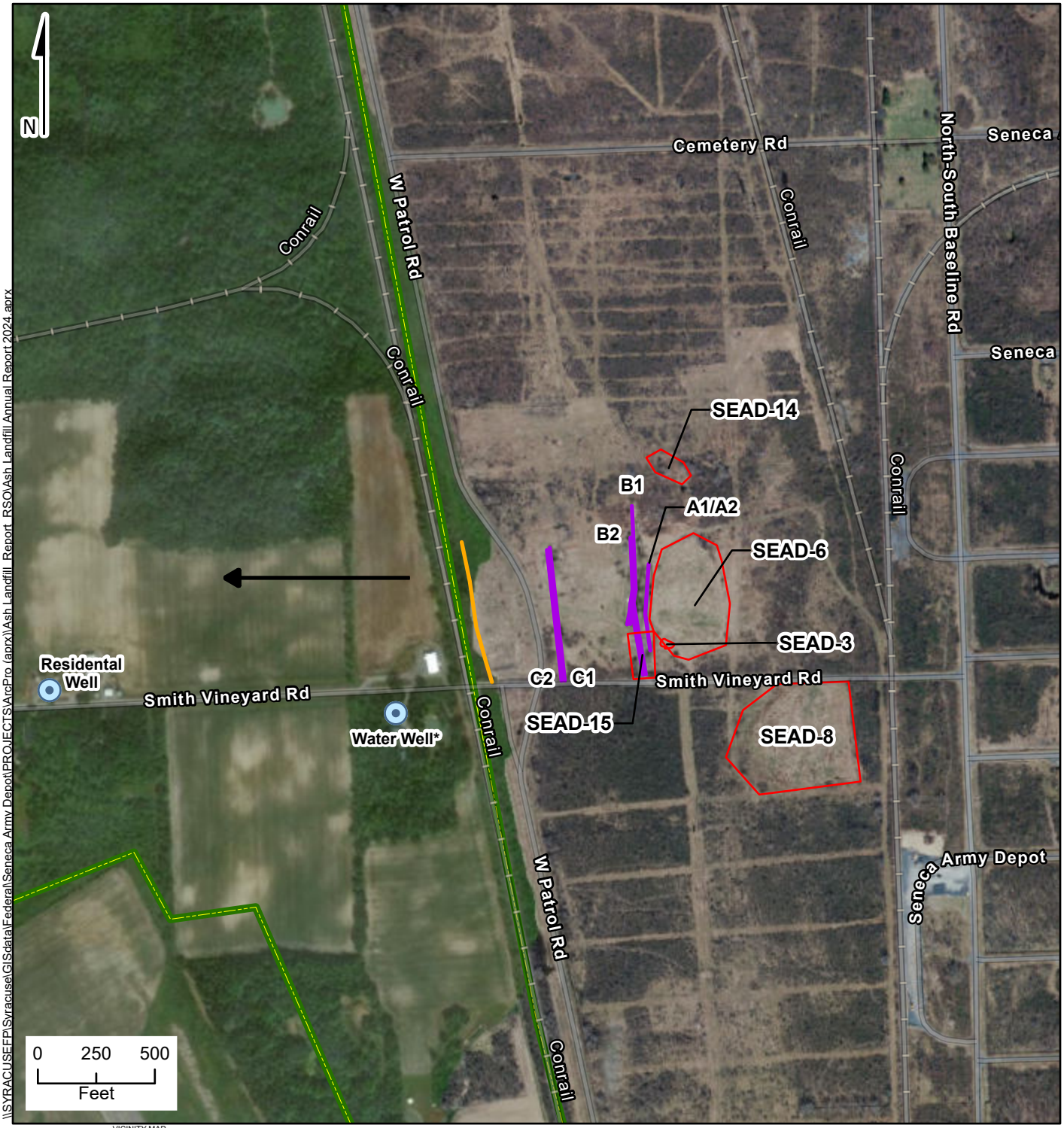
- SEAD Boundary
- Ash Landfill Operable Unit
- Former Debris Piles
- Former Cooling Pond
- Biowalls
- ZVI Wall

Monitoring Well Network

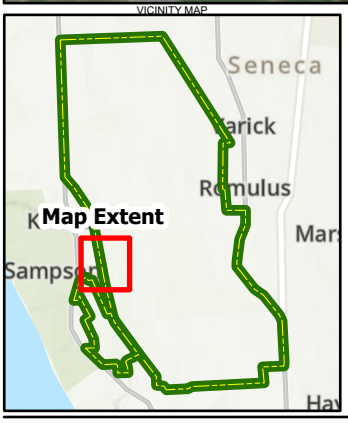
- Biowall Process Monitoring
- Long-Term Plume Monitoring
- Long-Term Plume/Biowall Process Monitoring
- Off-Site Performance Monitoring
- Additional RSO Sampling
- Other Site Well

Figure 2
Ash Landfill Site Layout
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

Map Date: 8/29/2024
Projection: NAD 1983 2011 State Plane New York Central FIPS 3102 Ft US



\\SYRACUSEFP\Syracuse\GISdata\Federal\Seneca Army Depot\PROJECTS\ArcPro (aprx)\Ash Landfill_Report_RSO\Ash Landfill Annual Report 2024.aprx



Legend

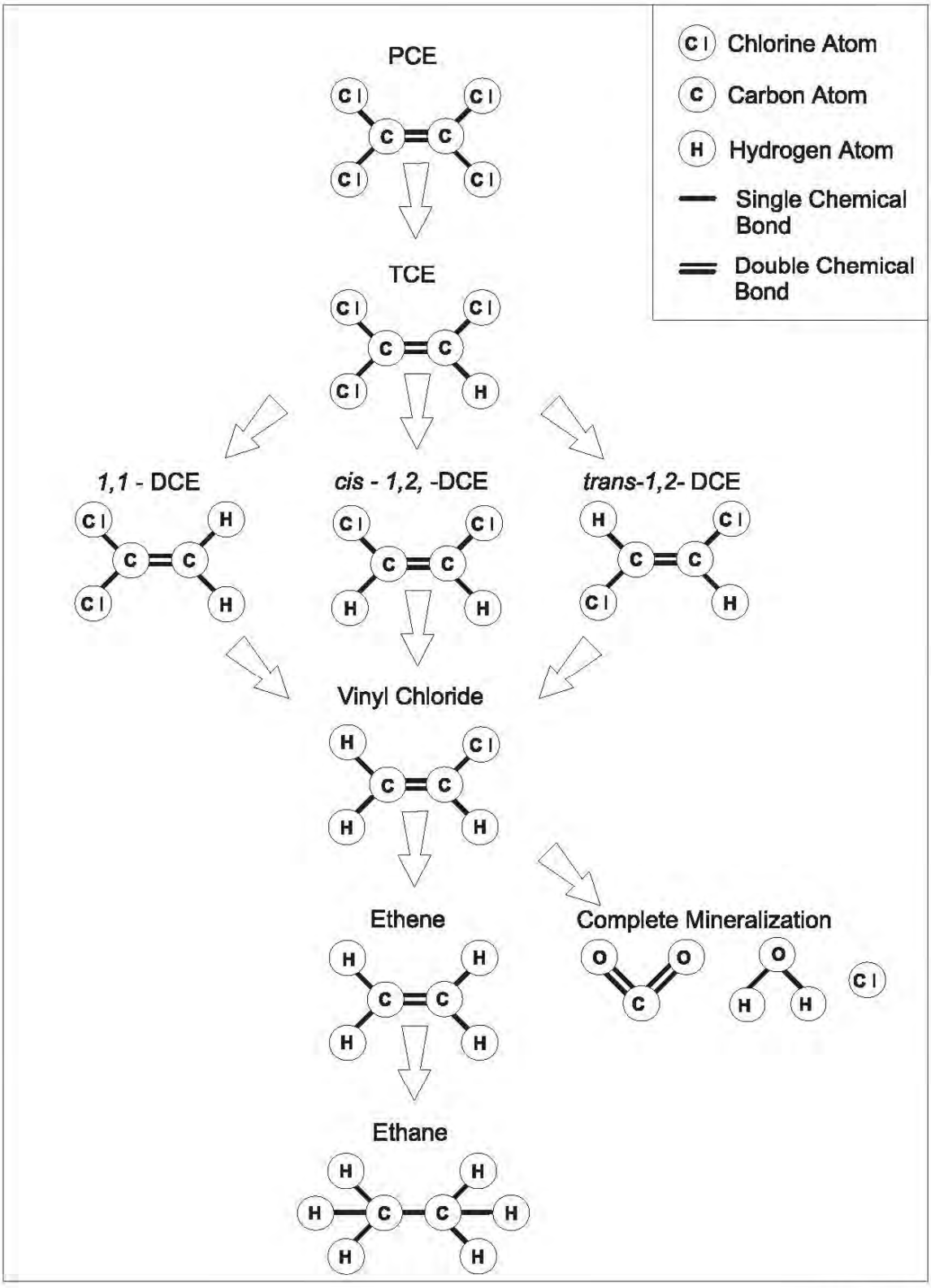
- SEAD Boundary
- Ash Landfill Operable Unit
- Biowalls
- ZVI Wall
- Groundwater Flow Direction
- Receptors

Note: *not in use due to colloidal clays present in groundwater.

Figure 3
Ash Landfill Receptors
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

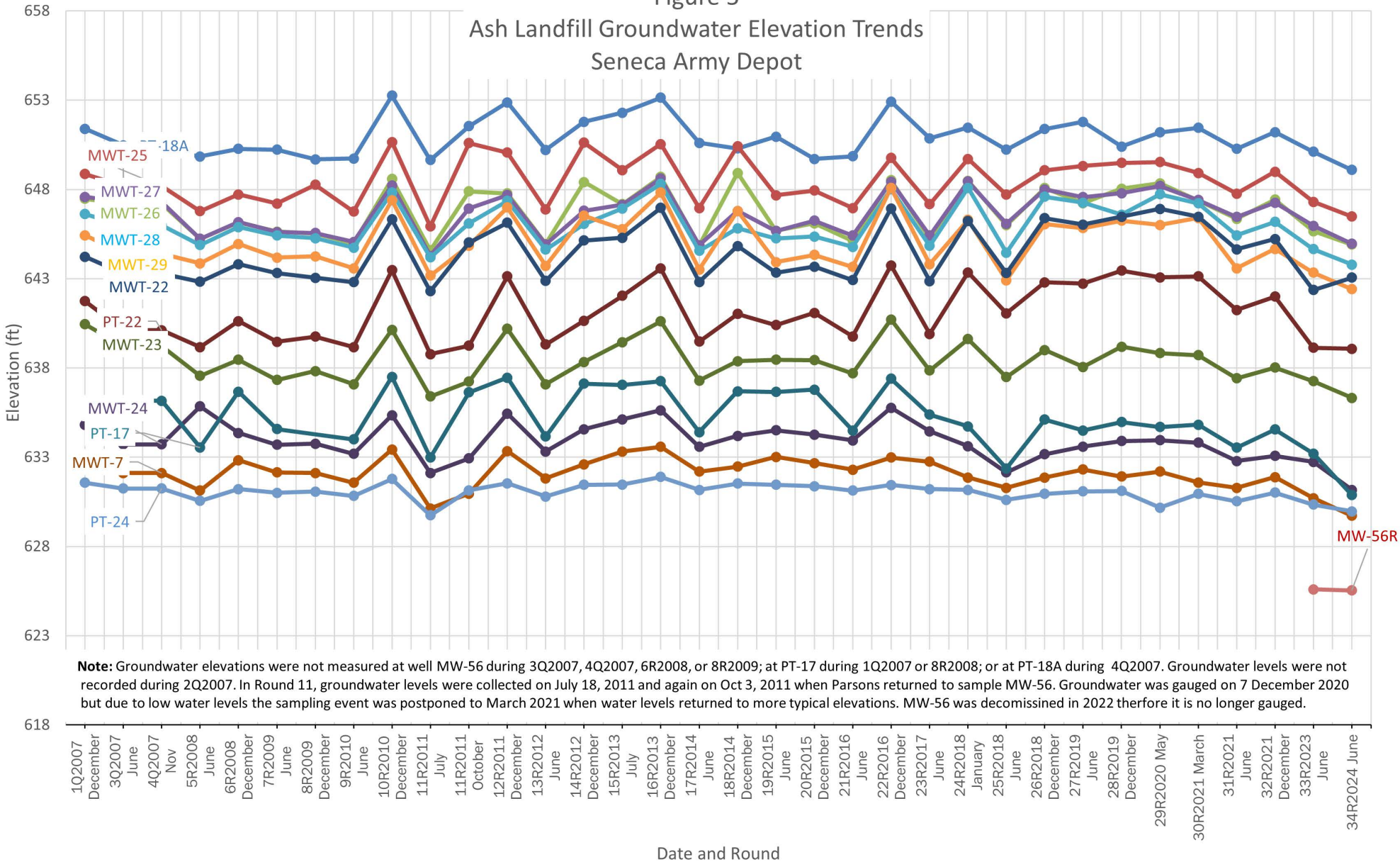
Map Date: 9/13/2024
Projection: NAD 1983 2011 State Plane New York Central FIPS 3102 Ft US

Figure 4
Reductive Dechlorination of Chlorinated Ethenes
Ash Landfill Annual Report
Seneca Army Depot

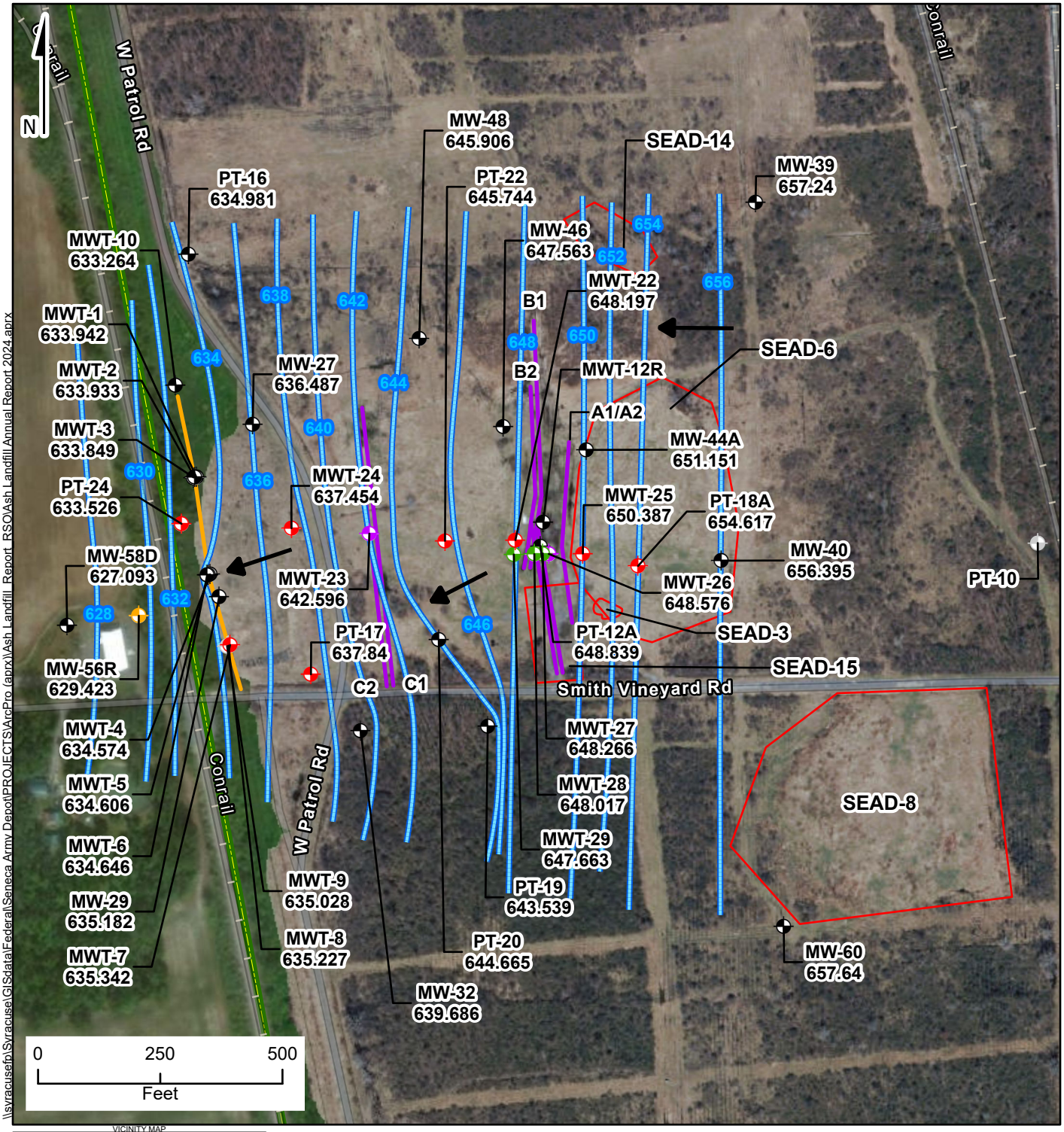


(USEPA, 1998)

Figure 5
Ash Landfill Groundwater Elevation Trends
Seneca Army Depot



Note: Groundwater elevations were not measured at well MW-56 during 3Q2007, 4Q2007, 6R2008, or 8R2009; at PT-17 during 1Q2007 or 8R2008; or at PT-18A during 4Q2007. Groundwater levels were not recorded during 2Q2007. In Round 11, groundwater levels were collected on July 18, 2011 and again on Oct 3, 2011 when Parsons returned to sample MW-56. Groundwater was gauged on 7 December 2020 but due to low water levels the sampling event was postponed to March 2021 when water levels returned to more typical elevations. MW-56 was decomissined in 2022 therfore it is no longer gauged.



Legend

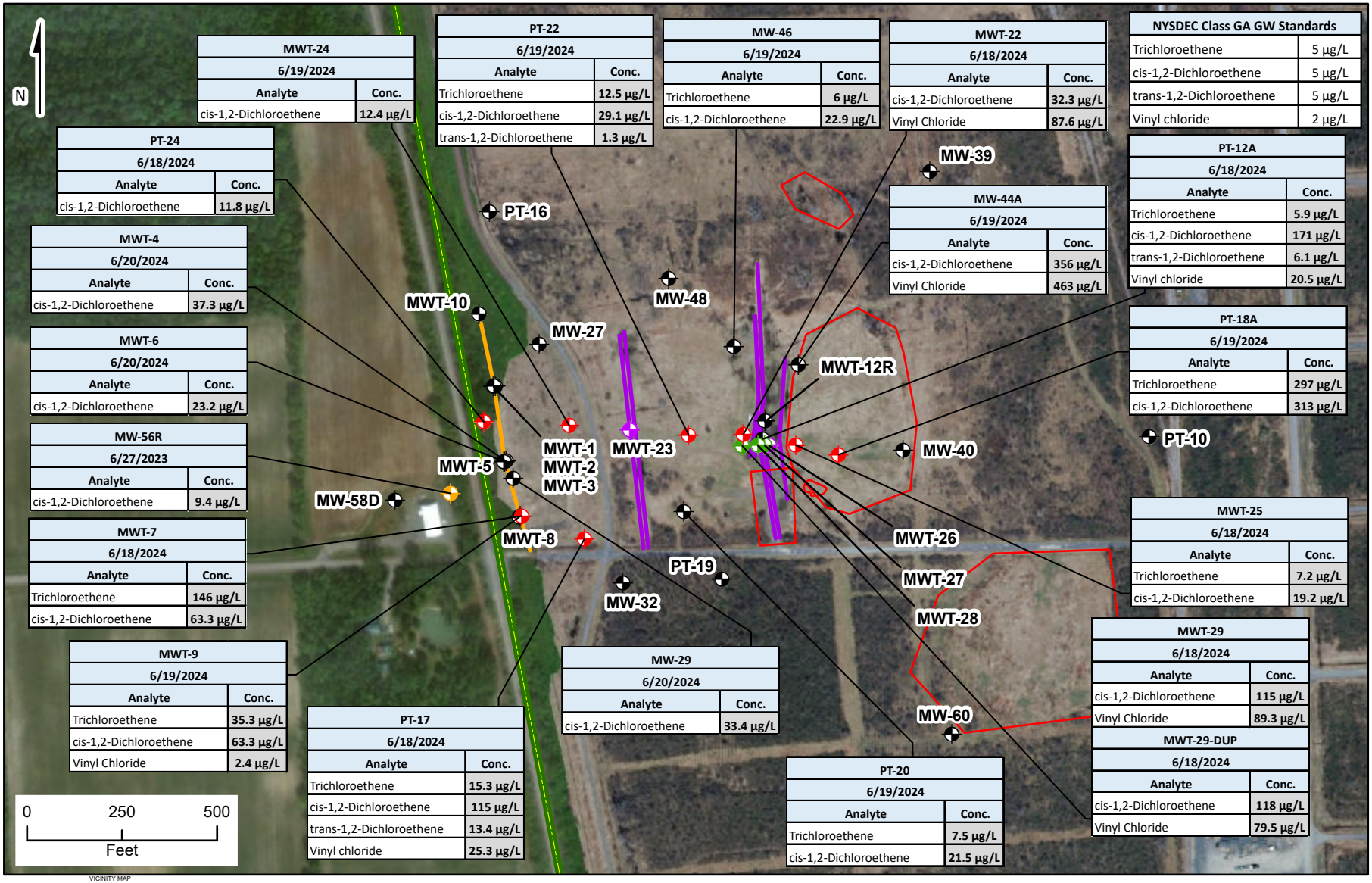
- SEAD Boundary
- Ash Landfill Operable Unit
- Biowalls
- ZVI Wall
- Groundwater Flow Direction
- 2-Foot Groundwater Elevation Contour

Monitoring Well Network

- Biowall Process Monitoring
- Long-Term Plume Monitoring
- Long-Term Plume/Biowall Process Monitoring
- Off-Site Performance Monitoring
- Additional RSO Sampling
- Other Site Well

Figure 6
Groundwater Contours and Groundwater Flow Direction June 2024
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

Map Date: 8/29/2024
Projection: NAD 1983 2011 State Plane New York Central FIPS 3102 Ft US



Legend

- SEAD Boundary
- Ash Landfill Operable Unit
- Biowalls
- ZVI Wall

Monitoring Well Network

- Biowall Process Monitoring
- Long-Term Plume Monitoring
- Long-Term Plume/Biowall Process Monitoring
- Off-Site Performance Monitoring
- Additional RSO Sampling

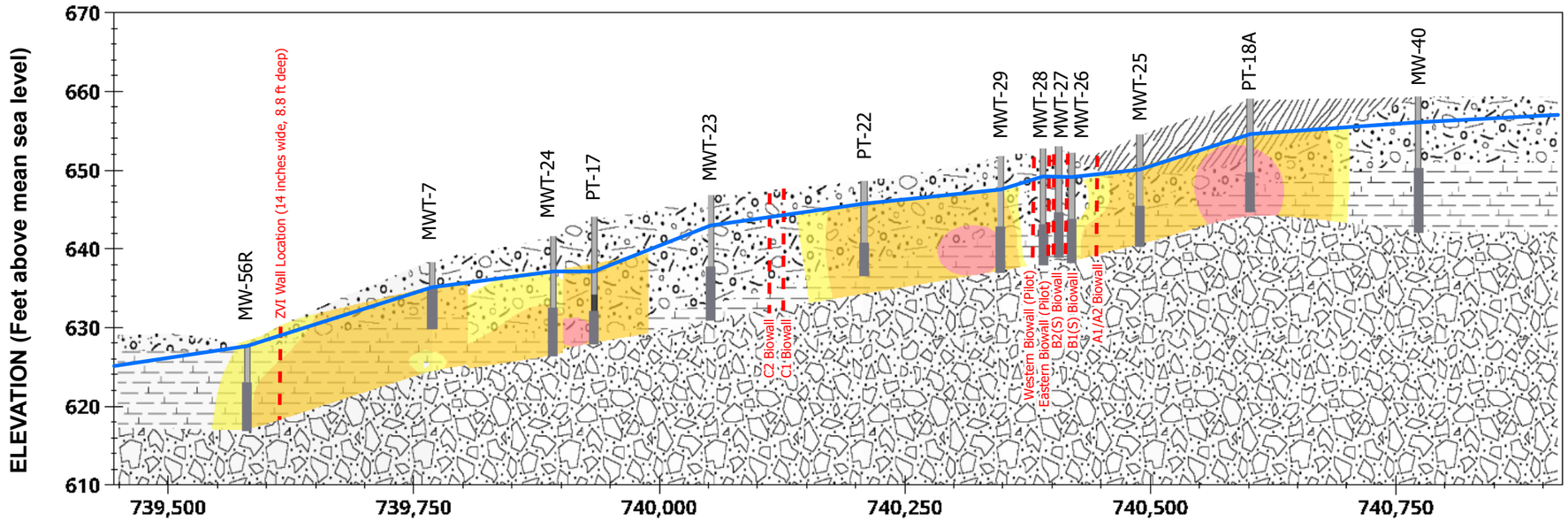
Notes:
Bold and shaded values indicate concentrations greater than NYSDEC Class GA AWQS
µg/L = micrograms per liter
NYSDEC = New York State Department of Environmental Conservation

Figure 7
Chlorinated Ethenes Exceedances in Groundwater
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

Map Date: 9/13/2024
Projection: NAD 1983 2011 State Plane New York Central FIPS 3102 Ft US

A'
(West)

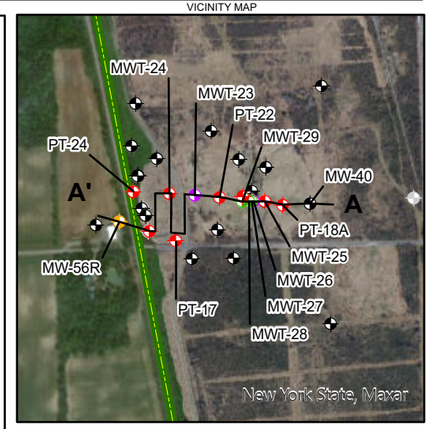
A
(East)



SCALE (Feet)

Wall Dimensions:
A1/A2 Biowall - 375 ft long, 8.5 to 17.5 ft wide, 10 to 18 ft deep
B1(S) Biowall - 310 ft long, 4.5 to 8 ft wide, 8.5 to 11 ft deep
B2(S) Biowall - 315 ft long, 4.5-10 ft wide, 8 to 11 ft deep
Eastern Biowall 150 ft long, 3 ft wide, 11.3 ft deep
Western Biowall - 150 ft long, 3 ft wide, 10.7 ft deep
C1 Biowall - 560 ft long, 4.5 to7 ft wide, 7 to 11 ft deep
C2 Biowall - 560 ft long 3 to 9 ft wide, 7 to 11.5 ft deep
ZVI wall - 14 inches wide, 8.8 ft deep

VICINITY MAP



Legend

- Treatment Walls
- Inferred Water Table

cDCE Concentration (µg/L)

- 5-10
- 10-100
- >100

- Ash
- Till
- Weathered Shale
- Competent Shale

Note:
-cDCE concentrations are in micrograms per liter (µg/L)

-Class GA standard for cDCE is 5 µg/L

-cDCE was detected at furthest downgradient monitoring well MW-56R, screened in the weathered shale aquifer (8.2 µg/L). The downgradient edge of the cDCE plume in the weathered shale aquifer is inferred.

-Historical data from the Remedial Investigation Report (Parsons 1994;) indicated the groundwater plume was restricted to the upper till/weathered shale aquifer and was not present in the deeper competent shale aquifer. However, recent groundwater data for the competent shale aquifer is not available.

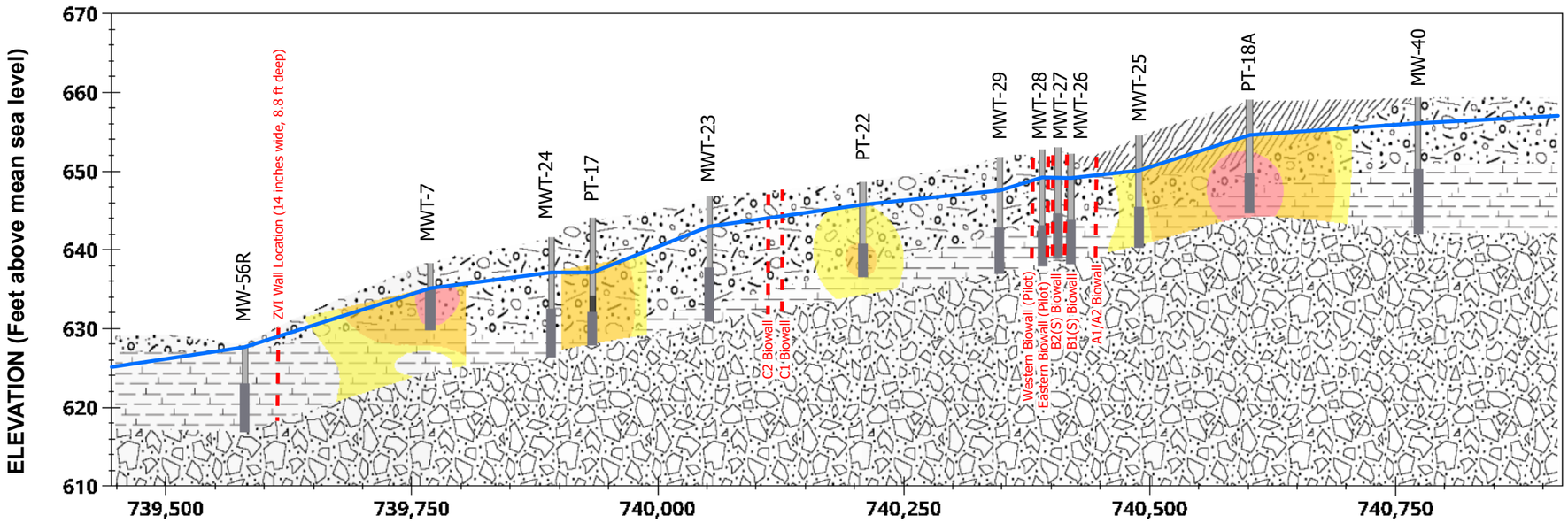
--Downgradient residential well and farmhouse well were not sampled and information on cDCE at these wells is not available.

Figure 8
Ash Landfill cDCE Cross Section
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

X:\Federal\Northeast\NewYork\SenecaArmyDepot\PROJECTS\Ash Landfill EVS Map.aprx

A'
(West)

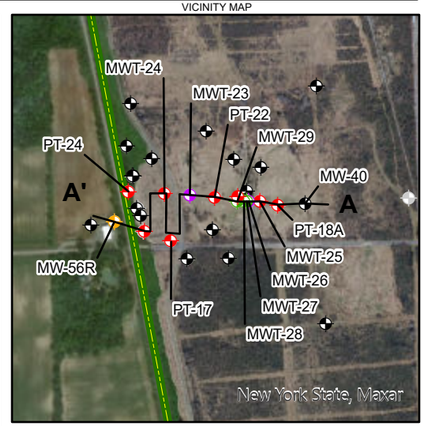
A
(East)



SCALE (Feet)

Wall Dimensions:
A1/A2 Biowall - 375 ft long, 8.5 to 17.5 ft wide, 10 to 18 ft deep
B1(S) Biowall - 310 ft long, 4.5 to 8 ft wide, 8.5 to 11 ft deep
B2(S) Biowall - 315 ft long, 4.5-10 ft wide, 8 to 11 ft deep
Eastern Biowall 150 ft long, 3 ft wide, 11.3 ft deep
Western Biowall - 150 ft long, 3 ft wide, 10.7 ft deep
C1 Biowall - 560 ft long, 4.5 to7 ft wide, 7 to 11 ft deep
C2 Biowall - 560 ft long 3 to 9 ft wide, 7 to 11.5 ft deep
ZVI wall - 14 inches wide, 8.8 ft deep

VICINITY MAP



Legend

- Treatment Walls
- Inferred Water Table

TCE Concentration (µg/L)

- 5-10
- 10-100
- >100

- Ash
- Till
- Weathered Shale
- Competent Shale

Note:
-TCE concentrations are in micrograms per liter (µg/L)

-Class GA standard for TCE is 5 µg/L

-TCE was detected at furthest downgradient monitoring well MW-56R, screened in the weathered shale aquifer (1.8 µg/L).

-Historical data from the Remedial Investigation Report (Parsons 1994;) indicated the groundwater plume was restricted to the upper till/weathered shale aquifer and was not present in the deeper competent shale aquifer. However, recent groundwater data for the competent shale aquifer is not available.

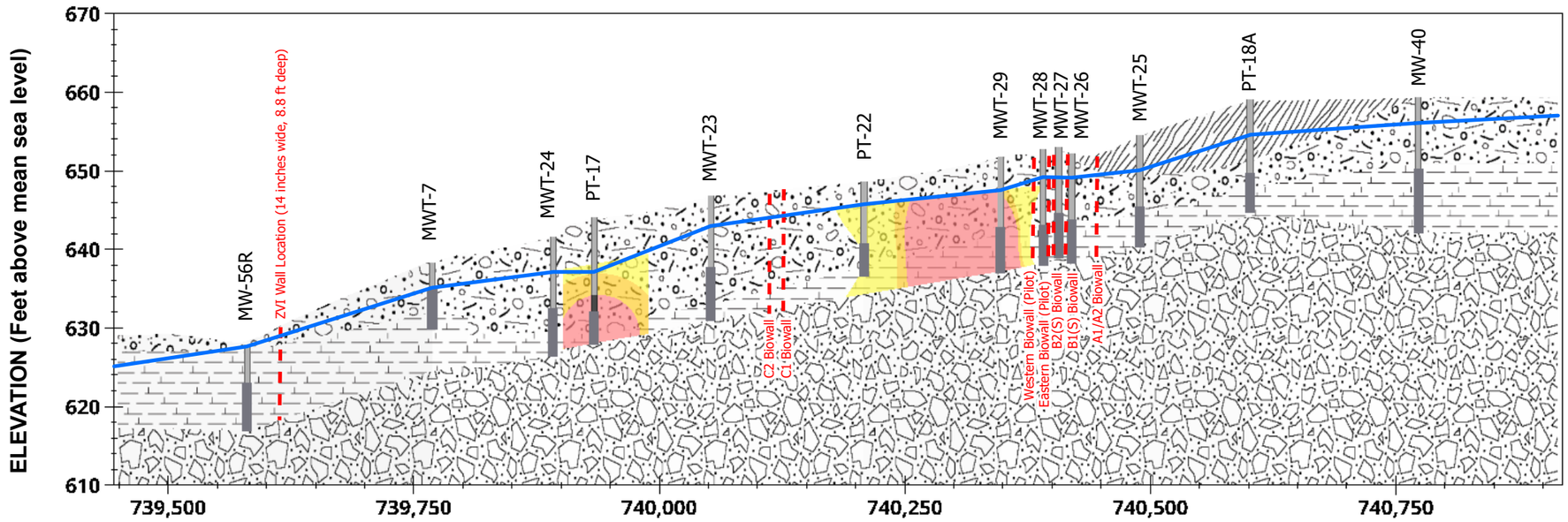
--Downgradient residential well and farmhouse well were not sampled and information on TCE at these wells is not available.

Figure 9
Ash Landfill TCE Cross Section
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

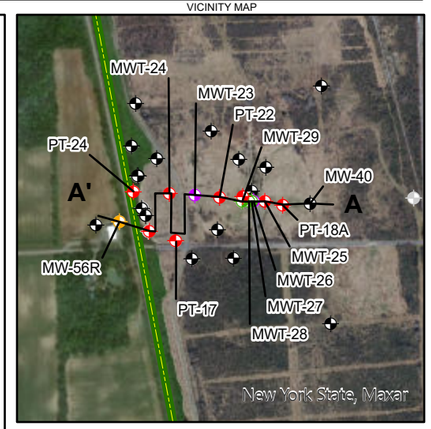
X:\Federal\Northeast\NewYork\SenecaArmyDepot\PROJECTS\Ash Landfill EVS Map.aprx

A'
(West)

A
(East)



VICINITY MAP



Legend

- Treatment Walls
- Inferred Water Table

Vinyl Chloride Concentration (µg/L)

- 5-10
- 10-100
- >100

- Ash
- Till
- Weathered Shale
- Competent Shale

Note:
-Vinyl chloride concentrations are in micrograms per liter (µg/L)

-Class GA standard for vinyl chloride is 2 µg/L

-Vinyl chloride was not detected at furthest downgradient monitoring well MW-56R, screened in the weathered shale aquifer.

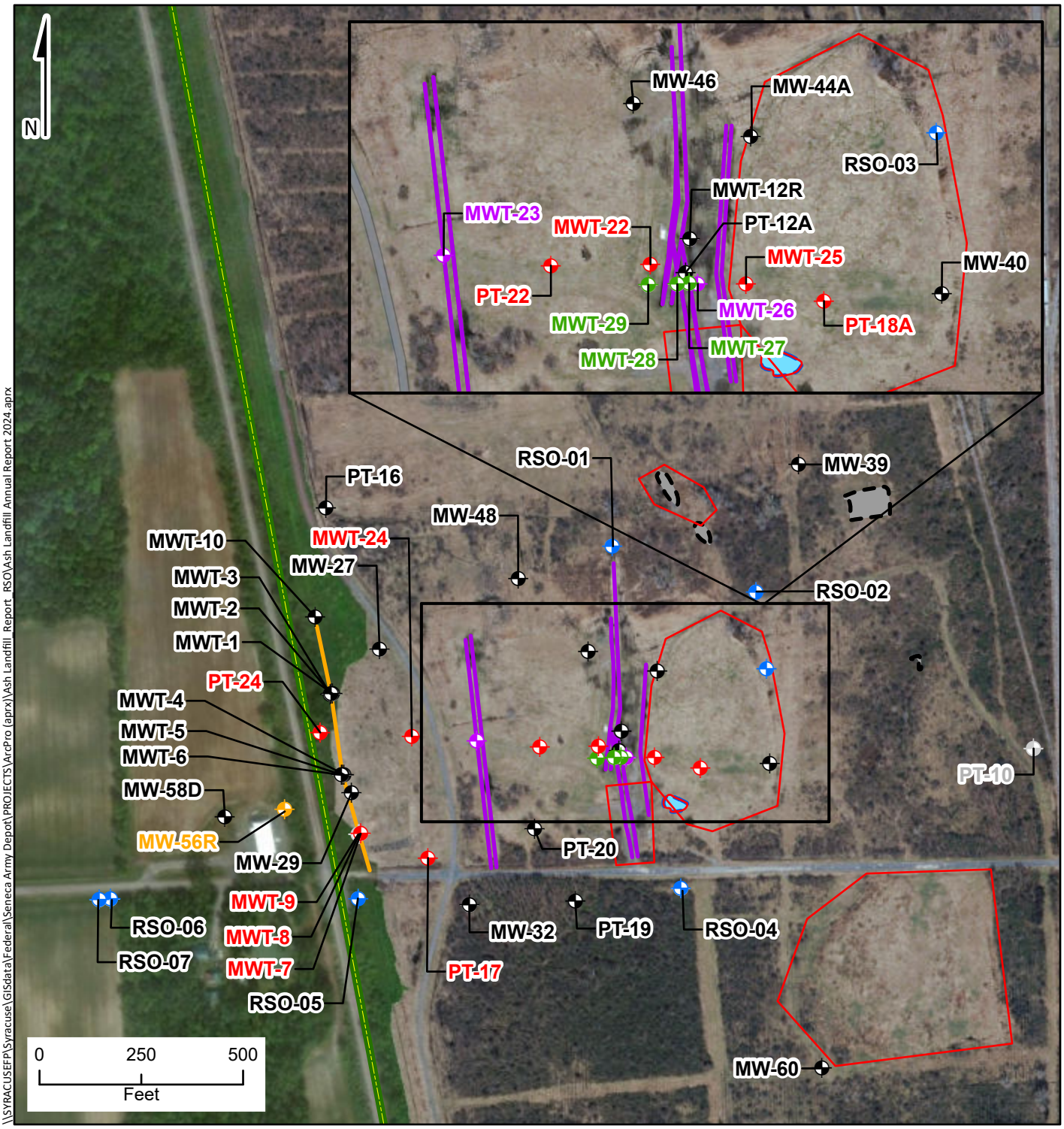
-Historical data from the Remedial Investigation Report (Parsons 1994;) indicated the groundwater plume was restricted to the upper till/weathered shale aquifer and was not present in the deeper competent shale aquifer. However, recent groundwater data for the competent shale aquifer is not available.

-Downgradient residential well and farmhouse well were not sampled and information on vinyl chloride at these wells is not available.

Wall Dimensions:
A1/A2 Biowall - 375 ft long, 8.5 to 17.5 ft wide, 10 to 18 ft deep
B1(S) Biowall - 310 ft long, 4.5 to 8 ft wide, 8.5 to 11 ft deep
B2(S) Biowall - 315 ft long, 4.5-10 ft wide, 8 to 11 ft deep
Eastern Biowall 150 ft long, 3 ft wide, 11.3 ft deep
Western Biowall - 150 ft long, 3 ft wide, 10.7 ft deep
C1 Biowall - 560 ft long, 4.5 to7 ft wide, 7 to 11 ft deep
C2 Biowall - 560 ft long 3 to 9 ft wide, 7 to 11.5 ft deep
ZVI wall - 14 inches wide, 8.8 ft deep

Figure 10
Ash Landfill Vinyl Chloride Cross Section
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

X:\Federal\Northeast\NewYork\SenecaArmyDepot\PROJECTS\Ash Landfill EVS Map.aprx



\\SYRACUSEFP\Syracuse\GISdata\Federal\Seneca Army Depot\PROJECTS\ArcPro (aprx)\Ash Landfill_Report_RSO\Ash Landfill Annual Report 2024.aprx

Legend

- SEAD Boundary
- Ash Landfill Operable Unit
- Former Debris Piles
- Former Cooling Pond
- Biowalls
- ZVI Wall

Monitoring Well Network

- Biowall Process Monitoring
- Long-Term Plume Monitoring
- Long-Term Plume/Biowall Process Monitoring
- Off-Site Performance Monitoring
- Additional RSO Sampling
- Proposed RSO Monitoring Well
- Other Site Well

Figure 11
Proposed RSO Monitoring Wells
Seneca Army Depot (SEAD)
Romulus, Seneca County, New York

Map Date: 1/29/2025
Projection: NAD 1983 2011 State Plane New York Central FIPS 3102 Ft US

This page intentionally left blank

Appendix A

Field Forms

MONITORING WELL GAUGING LOG

Inspector(s):

Weather Conditions:

Site Name: Ash Land Fill

Date/Time: 6/17/24 0830

Well ID	PID Reading (ppm)	DTW (ft. below TOC)	DTB (ft. below TOC)	Well Condition / Notes
MW-39	0.0	3.22	11.92	good, J-plug present
MW-44A	0.0	6.21	12.45	good, "
MW-46	0.2	7.85	11.45	good, "
MW-48	0.0	5.61	11.35	good "
MWT-25	0.3	7.03	12.84	good, "
PT-18A	2.3	8.34	12.15	good, "
MW-40	0.1	6.64	14.69	good, "
MWT-26	0.2	6.28	12.74	good, "
MWT-27	0.0	6.66	12.09	good "
PT-12A	0.0	~~6.87~~ 6.18	~~12.61~~ 12.23	good. J-plug won't fit
MWT-28	0.0	7.40	12.52	good, J-plug present
MWT-29	0.0	7.94	12.78	good, J-plug present
MWT-22	0.0	7.73	14.84	good, J-plug present
PT-22	0.2	9.42	11.93	good, J-plug present
MW-60	0.1	4.90	10.05	good, J-plug present
PT-19	0.1	6.28	11.62	good, J-plug
MW-32	0.1	8.81	10.39	good, J-plug present
PT-16	0.1	5.02	10.99	good, J-plug
MWT-24	0.3	8.80	12.76	good, J-plug
MW-27	0.4	6.93	10.11	good, J-plug
PT-17	0.9	6.37	6.97	No well cover / flushmount / yes J-plug

MONITORING WELL GAUGING LOG

Inspector(s):

Weather Conditions:

Site Name: Ash landfill

Date/Time: 06/17/2024 0830

Well ID	PID Reading (ppm)	DTW (ft. below TOC)	DTB (ft. below TOC)	Well Condition / Notes
MWT-7	0.3	7.65	13.67	good, I-plug present
MWT-8	0.3	8.75	12.50	I-in well, No I-plug
MWT-9	0.2	8.82	14.18	good, I-plug
MW-29	0.0	7.30	10.16	good I plug + Lock
MWT-4	0.0	6.61	12.48	good I plug + Lock
MWT-5	0.1	7.59	12.00	good 1 in, needs I plug
MWT-6	0.1	7.46	12.51	good I plug + Lock
PT-21	1.0	6.14	11.82	good I plug + Lock
MWT-1	0.1	5.61	10.10	good I plug + Lock
MWT-2	0.0	5.60	9.60	good I plug + Lock
MWT-3	0.0	5.75	10.10	good I plug + Lock
MWT-10	0.0	4.51	8.89	good I plug + Lock
MW-~~540~~ 5GR	0.0	7.02	15.02	good i plug + Lock
MW-~~107~~ 5RD	0.0	4.69	57.34	good USGS well
PT-20	0.0	7.92	11.59	Good i plug + Lock
MWT-23	0.0	9.40	13.66	good i plug + Lock

FIELD CALIBRATION FORM

Site Name: SEAD

INSTRUMENT: PID Mini RAE300	INSTRUMENT ID No: R8846
OPERATOR: MW	WEATHER: 73° Sun
SPAN GAS TYPE: Isobutylene	DATE: 6/17/24
CALIBRATION NOTES:	
Zero cal = 0.0 ppm	
Span cal = 100.0 ppm	
COMMENTS:	
NONE	
SIGNATURE: [signature]	DATE: 6/17/24

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/17/24
TIME: 0815
METER ID: 2/293

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.29	3.91

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.59	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.1

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	6/18/24
TIME:	0700
METER ID:	21293

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.20	3.99

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.52	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	6/19/24
TIME:	0710
METER ID:	21293

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.11	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.45	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.1	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	6/20/24
TIME:	0705
METER ID:	21293

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.0	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.50	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.2	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/18/24
TIME: 0700
METER ID: 51936

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.45	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.59	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.2	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/19/24
TIME: 0705
METER ID: 51936

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.05	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.50	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.1	0.1

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	6/20/24
TIME:	0710
METER ID:	57934

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.01	3.99

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.47	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/18/24
TIME: 0700
METER ID: 21296

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.13	4.01

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.36	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.2	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/19/24
TIME: 0705
METER ID: 21296

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.10	4.01

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.50	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.1	0.0

COMMENTS

NONE

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	6/20/24
TIME:	~~2[illegible]~~ AW 0700
METER ID:	21296

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.99	4.00

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.50	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.7	0.0

COMMENTS

NONE

SIGNATURE

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-27	Date 6/19/24	Time 1115
Well Site Description Ash landfill / shrubby area		
Weather/Temp 80° [illegible]		
Field Technician [illegible]		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 652.99	Screened Interval (ft bgs) 5.5 - 10.5
Well Diameter (in.) 2-in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 10.11	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 6.93
Product column height (ft) —	Water column height (ft) 3.18
Product volume (Gallons) —	Water volume (Gallons) .52

PURGE INFORMATION

Pump Type / ID [illegible] / 44395	Water Quality Meter Type / ID Horiba / 51937	
Pump Intake Depth (ft) ~8.5	Flow-Thru Cell Volume (L) —	
Purge Start Time 1115	Appearance/Odor (Start) Clear / no odor	
Purge End Time 1155	Appearance/Odor (End) Clear / no odor	
Average Purge Rate (mL/min) 250	Total Drawdown (ft) 2.03	
Well Went Dry (Y/N) N	Stop Time 1155	Volume removed (L) 10
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 10	Total Pump Time (min) 40	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1115	250	—	8.51	.458	28.75	-128	204	1.66	6.51
	1120		1.25	8.79	.4[illegible]	28.16	-119	146	0.72	6.95
	1125		2.50	8.89	.410	27.14	-101	109	0.33	7.34
	1130		3.75	8.95	.365	26.67	-89	63.1	0.67	7.60
	1135		5	8.92	.358	26.35	-90	34.9	0.43	7.96
	1140		6.25	8.96	.366	26.15	-90	23.6	0.27	8.27
	1145		7.5	8.98	.377	25.91	-89	16.5	0.14	8.50
	1150		8.75	8.97	.389	25.75	-99	14.8	0.02	8.76
	1155		10	8.95	.401	25.57	-92	15.3	0.02	8.96

COMMENTS dedicated tubing in well used, lock would not lock/close

SAMPLE COLLECTION

Sample Date 6/19/2024	Sample Time 1155
Sample ID SEAD-AL-MW1-27-20240619	
QA/QC Collected / ID NONE	Sample Appearance/Odor Clear / None
Analyses VOCs	
Sampler Maddison Hutton	Signature [signature]

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-29	Date 6/20/2024	Time 0955
Well Site Description Ash landfill / grassy field		
Weather/Temp 75° partly cloudy		
Field Technician Maddisen Hutton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 637.28	Screened Interval (ft bgs) 3.6-9.6
Well Diameter (in.) 2 in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 10.16	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 7.30
Product column height (ft) —	Water column height (ft) 2.86
Product volume (Gallons) —	Water volume (Gallons) .47

PURGE INFORMATION

Pump Type / ID Geo Pro Pump / 333846		Water Quality Meter Type / ID Horiba / 519337
Pump Intake Depth (ft) ~ 9		Flow-Thru Cell Volume (L) —
Purge Start Time 0955		Appearance/Odor (Start) Clear / none
Purge End Time 1035		Appearance/Odor (End) Clear / none
Average Purge Rate (mL/min) 250		Total Drawdown (ft) .03
Well Went Dry (Y/(N))	Stop Time NA	Volume removed (L) NA
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 10		Total Pump Time (min) 40

Time Purged	Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
0	6/20/24	0955	250	—	8.75	.587	29.22	102	124	9.32	7.13
5		1000		1.25	8.72	.580	28.24	71	47.6	1.62	7.22
10		1005		2.5	8.67	.582	26.11	112	25.3	.92	7.27
15		1010		3.75	8.66	.575	25.04	125	16.8	.86	7.27
20		1015		5	8.67	.580	24.55	131	1.1	.73	7.28
25		1020		6.25	8.68	.583	24.15	117	1.3	.166	7.32
30		1025		7.5	8.67	.585	23.86	126	1.3	.61	7.32
35		1030		8.75	8.66	.587	23.77	128	1.4	.65	7.33
40		1035		10	8.67	.589	23.67	136	1.3	.78	7.33
45											

COMMENTS Well would surge recharging

SAMPLE COLLECTION

Sample Date 06/20/2024	Sample Time 1035
Sample ID SEAD-AL-MW-29-20240620	
QA/QC Collected / ID NONE	Sample Appearance/Odor Clear / None
Analyses VOCs	
Sampler Maddisen Hutton	Signature Maddisen Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-32	Date 6/19/24	Time 1025
Well Site Description Ash Land Fill		
Weather/Temp 85 Sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 10.39	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 8.181
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump		Water Quality Meter Type / ID Horiba-452
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) 1
Purge Start Time 1030		Appearance/Odor (Start) clear none
Purge End Time 1050		Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft)
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 6.0		Total Pump Time (min) 20

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1030	300	—	6.98	0.645	14.78	47	46.6	1.84	8.05
	1035	—	1.5	6.71	0.666	15.01	31	21.2	1.12	8.13
	1040	—	3.0	6.57	0.683	14.95	20	7.0	0.84	8.21
	1045	—	4.5	6.55	0.683	14.89	18	5.4	0.86	8.25
	1050	—	6.0	6.53	0.684	14.71	14	2.0	0.88	8.30

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 1050
Sample ID SEAD-AL-MW-32-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-39	Date 6/19/20	Time 0900
Well Site Description Ash Landfill		
Weather/Temp 80° F Sun		
Field Technician MW, Matt		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	11.92	Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	3.22
Product column height (ft)	/	Water column height (ft)	8.70
Product volume (Gallons)	/	Water volume (Gallons)	

PURGE INFORMATION

Pump Type / ID	Peri pump	Water Quality Meter Type / ID	Horiba U-52
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L)	1
Purge Start Time	0900	Appearance/Odor (Start)	clear / none
Purge End Time		Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	300	Total Drawdown (ft)	
Well Went Dry (Y/N)	Stop Time	Volume removed (L)	
Recovery Time	Recovery Rate (mL/min)	Restart Purge Time	
Total Volume Removed (L)		Total Pump Time (min)	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/20	0900	300	—	7.46	0.576	21.56	-101	198	1.79	3.05
	0905	—	1.5	6.97	0.592	18.93	-107	167	0.70	3.10
	0910	—	3.0	7.01	0.533	18.91	-64	3.0	0.63	3.12
	0915	—	4.5	6.71	0.596	21.68	-44	0	0.34	3.15
	0920	—	6.0	6.71	0.540	21.39	-63	0	0.31	3.20
	0925	—	7.5	6.65	0.546	21.02	-59	0	0.31	3.25

COMMENTS Flush Horiba at 905 after Ready

SAMPLE COLLECTION

Sample Date	Sample Time 0925
Sample ID SEAD-AL-MW-39-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor clear / none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of 1
Well ID MW-40	Date 6/18/24	Time 1305
Well Site Description Ash Landfill		
Weather/Temp 90 sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 14.69	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 6.64
Product column height (ft)	Water column height (ft) 8.05
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump	Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft) 12	Flow-Thru Cell Volume (L)
Purge Start Time 1305	Appearance/Odor (Start) Clear / None
Purge End Time	Appearance/Odor (End) Clear none
Average Purge Rate (mL/min) 300	Total Drawdown (ft)

Well Went Dry (Y/N) —	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 9.0	Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1305	300	—	7.32	0.655	17.56	60	3.3	1.17	6.72
	1310	—	1.5	7.08	0.635	14.94	62	0	0.47	7.85
	1315	—	3.0	6.92	0.601	15.17	80	0	0.38	7.92
	1320	—	4.5	6.84	0.593	15.31	91	0	0.36	8.00
	1325	—	6.0	6.80	0.590	15.13	82	0	0.43	8.15
	1330	—	7.5	6.77	0.584	15.15	78	0	0.43	8.20
	1335	—	9.0							8.29

COMMENTS Hach MN = 47.5 Limit
Fe 2+ = 0.09

SAMPLE COLLECTION

Sample Date 6/18/24	Sample Time 1335
Sample ID SEAD-AL-MW-40-20240618	
QA/QC Collected / ID None	Sample Appearance/Odor Clear none
Analyses VOC TCL 0.55 gas SO4 NO3 CHL	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 1
Well ID	MW-44A	Date 6/19/2024	Time 1015
Well Site Description	Ash landfill		
Weather/Temp	82°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	653.85	Screened Interval (ft bgs)	3.25-8.25
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	12.45	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	6.21
Product column height (ft)	—	Water column height (ft)	6.24
Product volume (Gallons)	—	Water volume (Gallons)	1.017

PURGE INFORMATION

Pump Type / ID	Peristaltic / 33386	Water Quality Meter Type / ID	Horiba U52 / 52837
Pump Intake Depth (ft)	~12 ft.	Flow-Thru Cell Volume (L)	
Purge Start Time	1015	Appearance/Odor (Start)	clear / none
Purge End Time	1050	Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	1.50 ft.
Well Went Dry (Y/N)	N	Stop Time	—
Volume removed (L)	—	Recovery Time	—
Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	8.75	Total Pump Time (min)	~~50~~ 35

Date	Time	Purge Rate (mL/min)	Volume Removed (L/RM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1015	0.25	~~0.25~~ 0.25	7.10	1.21	17.11	-21	4.6	1.35	5.95
	1020	0.25	1.25	7.06	1.21	17.40	-17	0.1	0.77	6.65
	1025	0.25	2.50	7.00	1.26	16.13	2	0.0	0.21	6.98
	1030	0.25	3.75	6.95	1.22	16.23	5	1.1	0.09	7.44
	1035	0.25	5.00	6.95	1.22	16.75	-5	3.2	0.06	7.45
	1040	0.25	6.25	6.96	1.22	17.02	-19	3.8	0.09	7.45
	1045	0.25	7.50	6.99	1.22	16.91	-16	3.5	0.13	7.45
	1050	0.25	8.75	6.99	1.22	17.16	-17	3.9	0.11	7.45

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	1050
Sample ID	SEAD-A1-MW-44A-20240619		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear / none
Analyses	VOCs		
Sampler	KC	Signature	K Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location		Project No:	Page of
Well ID MW-116		Date 06/19/2024	Time 0940
Well Site Description	Ash Landfill, grass field		
Weather/Temp	80° Hazy, sunny		
Field Technician	Maddison Hutton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 1050.41	Screened Interval (ft bgs) 3.5 - 8.5
Well Diameter (in.) 2in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 11.45	Gallons per foot of depth .163
Depth to product (ft) —	Static water level (ft) 7.85
Product column height (ft) —	Water column height (ft) 3.60
Product volume (Gallons) —	Water volume (Gallons) .59

PURGE INFORMATION

Pump Type / ID Geo Pro Pump / 44305	Water Quality Meter Type / ID Horiba / 51937
Pump Intake Depth (ft) ~ 9.5	Flow-Thru Cell Volume (L) —
Purge Start Time 0940	Appearance/Odor (Start) Clear / no odor
Purge End Time 1015	Appearance/Odor (End) Clear /
Average Purge Rate (mL/min) 250	Total Drawdown (ft) —

Well Went Dry (Y/N)	Stop Time 1015	Volume removed (L) 8.75
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 8.75	Total Pump Time (min) 35	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	0940	250	—	8.58	.727	22.14	-37	117	1.56	7.65
	0945		1.25	8.64	.722	21.35	-31	74.1	1.83	7.71
	0950		2.50	8.70	.727	21.46	-38	42.5	.91	7.69
	0955		3.75	8.72	.745	21.27	-41	34.2	1.31	7.71
	1000		5.00	8.75	.754	21.30	-41	25.7	.67	7.71
	1005		6.25	8.76	.755	21.38	-41	0.8	.23	7.72
	1010		7.5	8.76	.757	21.36	-40	0.0	.17	7.73
↓	1015	↓	8.75	8.76	.757	21.42	-38	0.2	.15	7.73

COMMENTS Used dedicated tubing present in well.

SAMPLE COLLECTION

Sample Date 06/19/24	Sample Time 1015
Sample ID SEA-AL-MW-46-20240619	
QA/QC Collected / ID None	Sample Appearance/Odor Clear /
Analyses VOCs	
Sampler Maddison Hutton	Signature Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page of
Well ID	MW-48	Date 06/19/2024	Time 0815
Well Site Description	Ash landfill / [illegible]		
Weather/Temp	80° / Hazy Island		
Field Technician	Maddison Hutton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	648.32	Screened Interval (ft bgs)	3.5 - 8.5
Well Diameter (in.)	2-in PVC	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	11.55	Gallons per foot of depth	.163
Depth to product (ft)	—	Static water level (ft)	5.61
Product column height (ft)	—	Water column height (ft)	5.74
Product volume (Gallons)	—	Water volume (Gallons)	.94

PURGE INFORMATION

Pump Type / ID	Geo. Peri. Pump / 44395	Water Quality Meter Type / ID	Horiba / 51931
Pump Intake Depth (ft)	~ 10	Flow-Thru Cell Volume (L)	—
Purge Start Time	0845	Appearance/Odor (Start)	Clear / slight sulfur odor
Purge End Time	0920	Appearance/Odor (End)	Clear / no odor
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	-.19
Well Went Dry (Y/N)	Stop Time 0920		Volume removed (L) 8.75
Recovery Time	NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L)	8.75	Total Pump Time (min)	35

Min. Purge	Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
0	06/19/2024	0845	250	—	8.65	.488	21.56	-97	12.8	2.86	5.50
5		0850		1.25	8.72	.502	20.36	-87	6.8	1.54	5.42
10		0855		2.5	8.69	.514	18.93	-60	5.0	1.09	5.42
15		0900		3.75	8.64	.512	19.30	-47	5.2	5.73	5.42
20		0905		5	8.62	.512	19.25	-41	4.9	8.61	5.42
25		0910		6.25	8.60	.522	18.36	-38	5.3	9.82	5.42
30		0915		7.5	8.59	.521	17.78	-33	5.6	9.40	5.42
35		0920		8.75	8.60	.519	18.06	-31	5.4	9.15	5.42
40											
45											
50											

COMMENTS None.

SAMPLE COLLECTION

Sample Date	06/19/2024	Sample Time	0920
Sample ID	SEAD-48 MW-48-20240618		
QA/QC Collected / ID	NONE	Sample Appearance/Odor	Clear / no odor
Analyses	VOCs		
Sampler	Maddison Hutton	Signature	Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page of
Well ID	MW-56R	Date 6/19/24	Time 1130
Well Site Description	Ash Landfill offsite		
Weather/Temp	85 Sun		
Field Technician	MW right		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)		Screened Interval (ft bgs)	
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	15.02	Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	7.62
Product column height (ft)	/	Water column height (ft)	
Product volume (Gallons)	/	Water volume (Gallons)	

PURGE INFORMATION

Pump Type / ID	peri pump	Water Quality Meter Type / ID	Horiba U-52
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L)	1
Purge Start Time	1135	Appearance/Odor (Start)	clear none
Purge End Time		Appearance/Odor (End)	clear none
Average Purge Rate (mL/min)	300	Total Drawdown (ft)	
Well Went Dry (Y/N)	N	Stop Time	–
Recovery Time	–	Recovery Rate (mL/min)	–
Total Volume Removed (L)		Total Pump Time (min)	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1135	300	–	6.63	0.742	17.33	83	220	1.09	7.20
	1140	–	1.5	6.55	0.710	17.10	91	39.6	0.60	7.22
	1145	–	3.0	6.63	0.675	17.49	95	16.0	0.55	7.25
	1150	–	4.5	6.63	0.660	17.44	97	5.6	0.51	7.28
	1155	–	6.0	6.67	0.666	17.64	99	5.4	0.46	7.30
	1200	–	7.5	6.67	0.640	17.91	101	4.8	0.45	7.32

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/19/24	Sample Time	1200
Sample ID			
QA/QC Collected / ID	NA	Sample Appearance/Odor	clear none
Analyses	VOC		
Sampler	MW	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-58D	Date 6/19/24	Time 1105
Well Site Description Ash Landfill offsite		
Weather/Temp		
Field Technician		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 4

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 4.69
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump		Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) 1
Purge Start Time 1105		Appearance/Odor (Start) Clear none
Purge End Time 1125		Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft) 0.0
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 6.0		Total Pump Time (min) 20

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1105	300	—	8.55	0.636	15.21	-44	0.0	1.30	4.37
	1110	—	1.5	8.73	0.652	14.18	-124	0.0	0.37	4.37
	1115	—	3.0	8.72	0.651	14.17	-126	0.0	0.32	4.37
	1120	—	4.5	8.71	0.651	14.17	-127	0.0	0.29	4.37
	1125	—	6.0	8.70	0.652	14.00	-129	0.0	0.31	4.37

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 1125
Sample ID SEAD-AL-MW-58D-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor Clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Ash Landfill	Project No:	Page 1 of 1
Well ID	MW-60	Date 6/17/24	Time 1230
Well Site Description	grass laneway		
Weather/Temp	80°F overcast		
Field Technician	MWright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)		Screened Interval (ft bgs)	
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)		Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	4.92
Product column height (ft)	↓	Water column height (ft)	
Product volume (Gallons)	↓	Water volume (Gallons)	

PURGE INFORMATION

Pump Type / ID	peri pump			Water Quality Meter Type / ID	Horiba
Pump Intake Depth (ft)	bottom			Flow-Thru Cell Volume (L)	1
Purge Start Time	1245			Appearance/Odor (Start)	clear / none
Purge End Time	1315			Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	300			Total Drawdown (ft)	
Well Went Dry (Y/N)	N	Stop Time	—	Volume removed (L)	—
Recovery Time	—	Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	9.0			Total Pump Time (min)	30

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
6/17	1245	300	—	6.32	1.12	16.90	31	167	0.91	5.60
	1250	—	1.5	6.46	1.05	16.95	78	20.2	0.71	6.09
	1255	—	3.0	6.45	1.03	17.25	61	0	0.79	6.49
	1300	—	4.5	6.42	1.03	17.06	40	0	0.50	6.70
	1305	—	6.0	6.37	1.03	16.96	38	0	0.34	6.92
	1310	—	7.5	6.34	1.03	16.95	41	0	0.37	7.12
↓	1315	—	9.0	6.34	1.03	16.67	46	0	0.32	7.50

COMMENTS NONE

SAMPLE COLLECTION

Sample Date	6/17/24	Sample Time	1315
Sample ID	SEAD-AL-MW-60-20240617		
QA/QC Collected / ID	NA	Sample Appearance/Odor	clear / none
Analyses	VOC		
Sampler	MW	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MWT-1	Date 6/19/24	Time 1300
Well Site Description Ash Land Fill		
Weather/Temp 93 F sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 5.61
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump		Water Quality Meter Type / ID Horiba - U52
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) 1
Purge Start Time		Appearance/Odor (Start) clear none
Purge End Time		Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft)
Well Went Dry (Y/N) ~	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L)		Total Pump Time (min)

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1305	300	—	7.54	0.529	24.07	66	24.9	1.22	5.51
	1310	—	1.5	6.87	0.594	20.75	55	17.5	0.65	5.61
	1315	—	3.0	6.82	0.600	20.00	61	10.0	0.54	5.70
	1320	—	4.5	6.80	0.600	19.70	55	4.9	0.48	5.83
	1325	—	6.0	6.78	0.599	19.52	47	3.2	0.41	5.90
	1330	—	7.5	6.76	0.596	19.20	43	2.3	0.40	5.95

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 1330
Sample ID SEAD-AL-MWT-1-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MW-2	Date 6/19/24	Time 1330
Well Site Description Ash Land Pit		
Weather/Temp 93 Sun		
Field Technician MW		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 1	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft)
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump		Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) 1
Purge Start Time 1330		Appearance/Odor (Start) clear none
Purge End Time 1340		Appearance/Odor (End) clear none
Average Purge Rate (mL/min)		Total Drawdown (ft)
Well Went Dry (Y/N) Y	Stop Time 1340	Volume removed (L) —
Recovery Time 16 hours	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L)		Total Pump Time (min)

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1335	300	—	7.34	0.409	26.71	-149	42.5	1.12	7.42
	1340	—	1.5	7.24	0.406	26.23	-155	40.4	0.96	8.89

COMMENTS Well purged dry at 1340
Will sample on 6/20

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 0940
Sample ID SEAD-A1-MW-2-20240620	
QA/QC Collected / ID NA	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MWT-3	Date 6/20/24	Time 0950
Well Site Description		
Weather/Temp		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 5.75
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri Pump		Water Quality Meter Type / ID	Horiba U-52
Pump Intake Depth (ft) ~~0955~~ MW		Flow-Thru Cell Volume (L)	/
Purge Start Time 0955		Appearance/Odor (Start)	clear none
Purge End Time		Appearance/Odor (End)	clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft)	
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L)	—
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time	—
Total Volume Removed (L)		Total Pump Time (min)	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/20/24	0955	300	—	7.58	0.669	18.41	-92	42.5	1.90	5.50
	1000	-	1.5	6.84	0.651	14.45	-58	0.0	0.46	5.50
	1005		3.0	6.75	0.617	14.65	-41	0.0	0.61	5.50
	1010		4.5	6.68	0.617	14.79	-31	0.0	0.74	5.50
	1015		6.0	6.65	0.624	14.75	-25	0.0	0.75	5.50
	1020		7.5	6.62	0.625	14.85	-19	0.0	0.76	5.50
	1025		9.0	6.60	0.627	14.91	-16	0.0	0.77	5.50

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/20/24	Sample Time 1025
Sample ID SEAD-AL-MWT-3-20240620	
QA/QC Collected / ID N/A	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 2
Well ID	MW07-4	Date 6/28/2024	Time 0945
Well Site Description	ALS Landfill		
Weather/Temp	82°F, Cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	1037.68	Screened Interval (ft bgs)	4.75 - 9.75
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	–

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	12.48	Gallons per foot of depth	0.163
Depth to product (ft)	–	Static water level (ft)	6.61
Product column height (ft)	–	Water column height (ft)	5.87
Product volume (Gallons)	–	Water volume (Gallons)	0.957

PURGE INFORMATION

Pump Type / ID	Peristaltic	Water Quality Meter Type / ID	Horiba U52
Pump Intake Depth (ft)	~12.00 ft.	Flow-Thru Cell Volume (L)	–
Purge Start Time	0940	Appearance/Odor (Start)	clear/none
Purge End Time		Appearance/Odor (End)	clear/none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	-0.17
Well Went Dry (Y/N)	N	Stop Time	—
Recovery Time	–	Recovery Rate (mL/min)	—
Volume removed (L)	–	Restart Purge Time	–
Total Volume Removed (L)	13.75	Total Pump Time (min)	55

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
6/28/24	0940	0.25	–	7.57	0.575	24.45	112	139	4.03	6.32
	0945	0.25	1.25	7.30	0.556	25.90	119	128	1.92	6.55
	0950	0.25	2.50	7.06	0.552	25.45	127	127	1.33	6.55
	0955	0.25	3.75	6.95	0.562	23.83	138	181	0.95	6.55
	1000	0.25	5.00	6.90	0.568	22.83	145	211	0.77	6.55
	1005	0.25	6.25	6.78	0.609	19.55	153	155	0.77	6.55
	1010	0.25	7.50	6.73	0.615	19.05	154	152	0.58	6.55
	1015	0.25	8.75	6.69	0.608	19.58	158	127	0.47	6.55
	1020	0.25	10.00	6.68	0.609	20.10	159	103	0.39	6.55
	1025	0.25	11.25	6.67	0.593	21.21	160	65.0	0.32	6.55
	1030	0.25	12.50	6.66	0.603	20.98	159	60.6	0.27	6.55

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/28/2024	Sample Time	1035
Sample ID	SEAD-AL-MW07-4-20240620		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/none
Analyses	VOCs		
Sampler	KC	Signature	K. Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 2 of 2
Well ID	MW-4	Date 6/20/2024	Time 0945
Well Site Description	Ash Landfill		
Weather/Temp	82°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.)	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth
Depth to product (ft)	Static water level (ft)
Product column height (ft)	Water column height (ft)
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID		Water Quality Meter Type / ID
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L)
Purge Start Time		Appearance/Odor (Start)
Purge End Time		Appearance/Odor (End)
Average Purge Rate (mL/min)		Total Drawdown (ft)
Well Went Dry (Y/N)	Stop Time	Volume removed (L)
Recovery Time	Recovery Rate (mL/min)	Restart Purge Time
Total Volume Removed (L)		Total Pump Time (min)

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/20/24	1635	0.25	13.75	6.69	0.465	20.78	159	60.9	0.28	6.55

COMMENTS _____

SAMPLE COLLECTION

Sample Date	Sample Time 1635
Sample ID	
QA/QC Collected / ID	Sample Appearance/Odor
Analyses	
Sampler	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location [illegible]	Project No:	Page of
Well ID MW-5	Date 6/19/2024	Time 1335
Well Site Description [illegible]		
Weather/Temp [illegible]		
Field Technician [illegible]		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	637.72	Screened Interval (ft bgs)	5.5 - 10.50
Well Diameter (in.)	1-1/4 PVC	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	17.00	Gallons per foot of depth	0.41
Depth to product (ft)	—	Static water level (ft)	7.59
Product column height (ft)	—	Water column height (ft)	4.41
Product volume (Gallons)	—	Water volume (Gallons)	1.8

PURGE INFORMATION

Pump Type / ID	Geo Pro. Rmp / 44395	Water Quality Meter Type / ID	Horiba / 51377
Pump Intake Depth (ft)	~ 11'	Flow-Thru Cell Volume (L)	—
Purge Start Time	1335	Appearance/Odor (Start)	Clear / none
Purge End Time	1405	Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	—

Well Went Dry (Y/N)	Stop Time 1405	Volume removed (L) 7.5
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 7.5	Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+-3%)	Temp. (°C) (+-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1335	250	—	8.73	.236	25.73	-54	206	4.82	—
	1340		1.25	8.71	.216	21.67	-156	105	0.70	—
	1345		2.5	8.75	.175	19.21	-266	11.5	0.36	—
	1350		3.75	8.73	.168	18.92	-274	10.8	0.30	—
	1355		5	8.72	.158	19.10	-279	11.0	0.28	—
	1400		6.25	8.72	.158	18.24	-280	11.2	0.30	—
	1405		7.5	8.73	.157	18.91	-279	11.1	0.31	—

COMMENTS No DTW taken, 1 inch well

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	1405
Sample ID	SEAD-AL-MW-5-20240619		
QA/QC Collected / ID	NONE	Sample Appearance/Odor	Non / Clear
Analyses	VOCs		
Sampler	Madison Hilton	Signature	[signature]

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 1
Well ID	MW7-6	Date 6/20/2024	Time 1040
Well Site Description	Ash Landfill		
Weather/Temp	82°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 637.51	Screened Interval (ft bgs) 4.88 - 9.88
Well Diameter (in.) 2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.51	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 7.46
Product column height (ft) —	Water column height (ft) 5.85
Product volume (Gallons) —	Water volume (Gallons) 0.827

PURGE INFORMATION

Pump Type / ID Peristaltic / 44395	Water Quality Meter Type / ID Horiba U52 / 17222
Pump Intake Depth (ft) 11.7 ft.	Flow-Thru Cell Volume (L)
Purge Start Time 1040	Appearance/Odor (Start) clear / none
Purge End Time 1110	Appearance/Odor (End) clear / none
Average Purge Rate (mL/min) 0.25	Total Drawdown (ft)

Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.50	Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. mS/cm (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/20/24	1040	0.25	0	6.83	0.626	21.95	135	36.4	2.21	7.05
	1045	0.25	1.25	6.70	0.626	20.36	115	33.1	0.76	7.08
	1050	0.25	2.50	6.76	0.628	19.55	122	26.0	0.09	7.08
	1055	0.25	3.75	6.77	0.625	19.56	123	23.4	0.04	7.08
	1100	0.25	5.00	6.80	0.621	19.76	126	19.40	0.01	7.08
	1105	0.25	6.25	6.81	0.619	20.01	127	18.10	0.00	7.08
	1110	0.25	7.50	6.87	0.620	20.09	128	17.90	0.00	7.08

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/20/2024	Sample Time 1110
Sample ID SEAD-AL-MW7-6-20240620	
QA/QC Collected / ID ~~Y~~ / N/A	Sample Appearance/Odor clear / none
Analyses VOCs	
Sampler KC	Signature K Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of
Well ID MWT-7	Date 6/18/24	Time 0920
Well Site Description grass field		
Weather/Temp 78 sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 13.67	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 7.65
Product column height (ft)	Water column height (ft) 6.02
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID peri pump		Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft) 13		Flow-Thru Cell Volume (L)
Purge Start Time 0920		Appearance/Odor (Start) clear none
Purge End Time 0945		Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft) 0.19
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5		Total Pump Time (min) 25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	0910	300	—	7.03	0.724	16.88	10	6.0	4.03	7.95
	0925	—	1.5	6.73	0.711	15.78	64	0	1.98	8.00
	0930	—	3.0	6.65	0.710	15.42	96	0	2.13	8.05
	0935	—	4.5	6.61	0.706	15.35	113	0	2.06	8.08
	0940	—	6.0	6.58	0.706	15.32	118	0	2.03	8.11
	0945	—	7.5	6.55	0.704	15.28	121	0	2.01	8.14

COMMENTS Hach Fe+2 = 0.0 mg/L
Mn = 42.8 mg/L

SAMPLE COLLECTION

Sample Date 6/18/24	Sample Time 0945
Sample ID SEAD-AL-MWT-7-20240618	
QA/QC Collected / ID	Sample Appearance/Odor clear none
Analyses VOC TOC Diss gas SO4 NO3 O Chl	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MWT-8	Date 06/19/2024	Time 1300
Well Site Description Ash Landfill		
Weather/Temp 90° / Sunny, Hazy		
Field Technician Maddison Hutton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 638.40	Screened Interval (ft bgs) .81 - 10.81
Well Diameter (in.) 1-in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.50	Gallons per foot of depth 0.041
Depth to product (ft) —	Static water level (ft) 8.73
Product column height (ft) —	Water column height (ft) 3.77
Product volume (Gallons) —	Water volume (Gallons) .15

PURGE INFORMATION

Pump Type / ID Geo. Peri. Pump / 44395		Water Quality Meter Type / ID Horiba / 51936
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) —
Purge Start Time 1300		Appearance/Odor (Start) turbid, no odor
Purge End Time 1305		Appearance/Odor (End) turbid, slight sulfur odor
Average Purge Rate (mL/min) 250		Total Drawdown (ft) —
Well Went Dry (Y/N)	Stop Time 1305	Volume removed (L) NA
Recovery Time ~21 hours	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 1.25		Total Pump Time (min) 10

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
6/19/24	1300	250	—	8.49	.333	21.84	-177	198	0.41	—
↓	1305	250	1.25	8.57	.338	21.94	-183	134	0.60	—

COMMENTS 1 inch well, volume of H_2O likely filled flow through cell, No DTW taken due to 1-in well

SAMPLE COLLECTION

Sample Date 06/20/2024	Sample Time 0935
Sample ID SEAD-AL-MWT-8-20240620	
QA/QC Collected / ID NONE	Sample Appearance/Odor turbid, slight sulfur odor
Analyses VOCs	
Sampler Maddison Hutton	Signature Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 1
Well ID	MW-9	Date 6/19/2024	Time 1255
Well Site Description	Ash Landfill		
Weather/Temp	88°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	630.08	Screened Interval (ft bgs)	1.75–11.75
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	2

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	~~12.50~~ 14.18	Gallons per foot of depth	0.163
Depth to product (ft)	-	Static water level (ft)	8.82
Product column height (ft)	-	Water column height (ft)	5.36
Product volume (Gallons)	-	Water volume (Gallons)	0.874

PURGE INFORMATION

Pump Type / ID	Renisahr /	Water Quality Meter Type / ID	Horiba U52 /
Pump Intake Depth (ft)	~13 ft.	Flow-Thru Cell Volume (L)	
Purge Start Time	1255	Appearance/Odor (Start)	clear / none
Purge End Time	1320	Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	0.37

Well Went Dry (Y/N)	N	Stop Time	-	Volume removed (L)	-
Recovery Time	-	Recovery Rate (mL/min)	-	Restart Purge Time	-
Total Volume Removed (L)	6.25	Total Pump Time (min)	25		

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS/cm Cond. (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/2024	1255	0.25	-	7.28	0.588	27.10	-100	27.8	1.48	8.28
	1260	0.25	1.25	7.10	0.643	19.69	-86	6.6	0.16	8.60
	1305	0.25	2.50	7.07	0.598	17.41	-77	3.8	0.09	8.65
	1310	0.25	3.75	7.06	0.596	17.08	-72	0.0	0.02	8.65
	1315	0.25	5.00	7.06	0.588	17.01	-68	0.0	0.00	8.65
	1320	0.25	6.25	7.05	0.586	16.90	-64	0.6	0.00	8.65

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	1320
Sample ID	SEAD-AL-MW-9-20240619		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/none
Analyses	VOCs		
Sampler	KC	Signature	K Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID MWT-10	Date 6/19/24	Time 1250
Well Site Description Ash Landfill		
Weather/Temp 90 Sun		
Field Technician MWright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 4

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	Gallons per foot of depth 0.163
Depth to product (ft) N/A	Static water level (ft)
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump	Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft)	Flow-Thru Cell Volume (L) /
Purge Start Time 1230	Appearance/Odor (Start) clear none
Purge End Time	Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300	Total Drawdown (ft)

Well Went Dry (Y/N)	Stop Time	Volume removed (L)
Recovery Time	Recovery Rate (mL/min)	Restart Purge Time
Total Volume Removed (L) /	Total Pump Time (min)	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1230	300	—	7.67	0.390	24.76	-84	147	2.77	4.71
	1235	—	1.5	7.35	0.372	21.56	-89	129	0.71	5.12
	1240	—	3.0	7.25	0.383	21.84	-89	131	0.55	5.20
	1245	—	4.5	7.24	0.374	22.30	-92	9.8	0.52	5.25
	1255	—	6.0	7.20	0.372	22.50	-93	5.4	0.50	5.27
	1255	—	7.5	7.18	0.370	22.59	-95	7.6	0.49	5.32

COMMENTS Flush horiba at 1241

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 1255
Sample ID SEAD-AL-MWT-10-20240619	
QA/QC Collected / ID N/A	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD		Project No:	Page 1 of 1
Well ID MW-22		Date 6/18/2024	Time 1142
Well Site Description Ash Landfill			
Weather/Temp 85°F, Cloudy			
Field Technician K. Cassidy			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 650.66	Screened Interval (ft bgs) 7.5-12.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) -

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 14.84	Gallons per foot of depth 0.163
Depth to product (ft) -	Static water level (ft) 7.73
Product column height (ft) -	Water column height (ft) 7.11
Product volume (Gallons) -	Water volume (Gallons) 1.16

PURGE INFORMATION

Pump Type / ID Penstaltic / 33586		Water Quality Meter Type / ID Horiba U52 / 518	
Pump Intake Depth (ft) ~12 ft.		Flow-Thru Cell Volume (L)	
Purge Start Time 1142		Appearance/Odor (Start) Clear / none	
Purge End Time 1212		Appearance/Odor (End) Clear / none	
Average Purge Rate (mL/min) 0.25		Total Drawdown (ft)	
Well Went Dry (Y/N) N	Stop Time -	Volume removed (L) -	
Recovery Time -	Recovery Rate (mL/min) -	Restart Purge Time -	
Total Volume Removed (L) ~~7.50~~ 6.50		Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	mS Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1142	0.25	-	7.21	1.24	29.55	-21	>1000	1.18	8.59
	1147	0.25	1.25	7.15	1.24	28.92	-36	632	0.30	10.18
	1152	0.25	2.50	7.15	1.28	23.98	-50	148	0.10	10.40
	1157	0.25	3.75	7.16	1.24	23.78	-46	49.1	0.00	10.65
	1202	0.25	4.50	7.20	1.19	24.48	-36	25.0	0.00	10.90
	1207	0.25	5.25	7.22	1.18	25.14	-30	24.6	0.00	11.28
	1212	0.25	~~6.00~~	7.24	1.14	25.80	-30	24.4	0.00	11.68

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/18/2024	Sample Time 1212
Sample ID SEAD-AL-MW-22-20240618	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear / none
Analyses VOCs (8260D)	
Sampler KC	Signature K Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Project No:	Page of
Well ID MWT-23	Date 06/18/2024	Time 1345
Well Site Description Ash landfill / grassy		
Weather/Temp Hazy - 85°F		
Field Technician Maddison Hilton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 646.77	Screened Interval (ft bgs) 6.5 - 11.5
Well Diameter (in.) 2 - in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	13.66	Gallons per foot of depth	0.1632
Depth to product (ft)	—	Static water level (ft)	9.40
Product column height (ft)	—	Water column height (ft)	4.26
Product volume (Gallons)	—	Water volume (Gallons)	.70

PURGE INFORMATION

Pump Type / ID Geo. Peri. Pump / 44395		Water Quality Meter Type / ID Horiba / 17222	
Pump Intake Depth (ft) ~ 12		Flow-Thru Cell Volume (L) —	
Purge Start Time 1345		Appearance/Odor (Start) Clear / no odor	
Purge End Time 1415		Appearance/Odor (End) Clear / Slight sulfer odor	
Average Purge Rate (mL/min) 250		Total Drawdown (ft) 1.15	
Well Went Dry (Y/N)	Stop Time 1415	Volume removed (L) 8.75	
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA	
Total Volume Removed (L) 8.75		Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
06/18/24	1345	250	1.25	6.85	0.628	28.92	-38	80.9	3.08	9.42
	1350		2.50	6.68	.707	27.71	-29	38.9	1.53	9.71
	1355		3.75	6.64	.754	19.76	-26	14.1	.76	9.59
	1400		5	6.63	.777	19.00	-26	13.8	.37	9.88
	1405		6.25	6.61	.780	18.76	-25	12.0	.24	10.49
	1410		7.5	6.59	.782	18.72	-25	11.8	.19	10.59
	1415		8.75	6.57	.782	18.79	-24	11.6	.16	10.55

COMMENTS ~~None~~ - Well recharged well

SAMPLE COLLECTION

Sample Date 06/18/2024	Sample Time 1415
Sample ID SLAD-AL-MWT-23-20240618	
QA/QC Collected / ID None	Sample Appearance/Odor Clear / slight sulfer odor
Analyses TOC, diss gasses, VOCs, HACH (Fe, Mn)	
Sampler Maddison Hilton	Signature

HACH Manganese = 47.5 mg/L (LOD)

Iron = 1.38 mg/L

WELL PURGING AND SAMPLING RECORD

Site Name/Location		Project No:	Page of
Well ID MW-11		Date 6/19/2024	Time 1210
Well Site Description			
Weather/Temp	85° / Sunny		
Field Technician	Maddison Hilton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	641.56	Screened Interval (ft bgs)	6-11
Well Diameter (in.)	2 in PVC	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	12.76	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	8.80
Product column height (ft)	—	Water column height (ft)	3.96
Product volume (Gallons)	—	Water volume (Gallons)	.65

PURGE INFORMATION

Pump Type / ID	Geo Peri Pump / 44395	Water Quality Meter Type / ID	Horiba / 51987
Pump Intake Depth (ft)	~11	Flow-Thru Cell Volume (L)	—
Purge Start Time	1210	Appearance/Odor (Start)	Clear / no odor
Purge End Time	1240	Appearance/Odor (End)	Clear / no odor
Average Purge Rate (mL/min)		Total Drawdown (ft)	.42

Well Went Dry (Y/N)	Stop Time 1240	Volume removed (L)	7.5
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA	
Total Volume Removed (L)		Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1210	250	—	8.55	.734	21.93	41	78	3.32	8.92
	1215		1.25	8.50	.779	18.96	43	4.5	2.02	9.00
	1220		2.50	8.38	.787	19.02	61	3.7	0.94	9.04
	1225		3.75	8.35	.790	19.31	70	4.3	0.14	9.09
	1230		5	8.17	.787	19.20	76	5.0	0.00	9.13
	1235		6.25	8.20	.791	18.96	84	5.2	0.00	9.21
↓	1240	↓	7.5	8.21	.792	19.21	86	4.8	0.00	9.22

COMMENTS None

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	1240
Sample ID	SEAD-41-MW11-20240619		
QA/QC Collected / ID	None	Sample Appearance/Odor	Clear / no odor
Analyses	VOCs		
Sampler	Maddison Hilton	Signature	Maddison Hilton

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of
Well ID MWT-25	Date 6/18/24	Time 1150
Well Site Description Ash Landfill		
Weather/Temp 85 sun		
Field Technician MWright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.84	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 7.03
Product column height (ft) /	Water column height (ft) 5.81
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump	Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft) 12	Flow-Thru Cell Volume (L) /
Purge Start Time 1150	Appearance/Odor (Start) clear none
Purge End Time 1215	Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300	Total Drawdown (ft)

Well Went Dry (Y/N) —	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5	Total Pump Time (min) 25	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1150	300	—	6.94	1.51	19.61	-99	30.5	2.04	7.13
	1155	—	1.5	6.81	1.51	17.85	-88	0.0	0.71	7.59
	1200	—	3.0	6.78	1.48	18.17	-81	0.2	0.49	8.11
	1205	—	4.5	6.78	1.47	18.25	-74	0	0.47	8.19
	1210	—	6.0	6.79	1.46	18.24	-73	0	0.46	8.25
	1215	—	7.5	6.80	1.45	18.31	-70	0	0.45	8.30

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/18/24	Sample Time 1215
Sample ID SEAD-AL-MWT-25	
QA/QC Collected / ID NONE	Sample Appearance/Odor clear none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Asn landfill / SEAD amplified	Project No:	Page of
Well ID	MWT-26	Date 6/18/2024	Time 0820
Well Site Description	Stickup / Steel casing / 2 bollards		
Weather/Temp	Partly cloudy / 80°		
Field Technician	Maddison Hutton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	652.19	Screened Interval (ft bgs)	5.2 - 10.2
Well Diameter (in.)	2-in PVC	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	12.74	Gallons per foot of depth	0.1632
Depth to product (ft)	—	Static water level (ft)	6.28
Product column height (ft)	—	Water column height (ft)	6.46
Product volume (Gallons)	—	Water volume (Gallons)	1.05

PURGE INFORMATION

Pump Type / ID	Geopump peristaltic Pump/33386	Water Quality Meter Type / ID	Horiba / 212960
Pump Intake Depth (ft)	~ 12	Flow-Thru Cell Volume (L)	—
Purge Start Time	0825	Appearance/Odor (Start)	No odor / turbid
Purge End Time	0900	Appearance/Odor (End)	No odor / clear
Average Purge Rate (mL/min)	250	Total Drawdown (ft)	2.26
Well Went Dry (Y/N)	(N)	Stop Time 0900	Volume removed (L)
Recovery Time	NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L)	13.25	Total Pump Time (min)	35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	0825	500	2.5	6.28	1.52	25.70	109	495	1.75	6.72
	0830	400	2	6.96	1.69	20.5	14	1000	2.72	7.14
	0835	400	2	6.91	1.39	21.22	16	221	0.21	7.49
	0840	300	1.5	6.90	1.31	21.57	57	9.3	1.25	7.62
	0845	300	1.5	6.85	1.31	21.63	71	1.9	1.28	8.01
	0850	250	1.25	6.83	1.39	19.67	67	1.0	1.15	8.23
	0855	250	1.25	6.82	1.39	19.87	66	0.7	1.03	8.44
	0900	250	1.25	6.82	1.39	19.87	64	0.7	0.87	8.54

COMMENTS Used dedicated tubing / Well surged during recharge
Fe = 3.3 mg/L
Manganese = 47.5 mg/L (LOD)

SAMPLE COLLECTION

Sample Date	06/18/2024	Sample Time	0900
Sample ID	SEAD-AL-MWT-26-20240618		
QA/QC Collected / ID	No	Sample Appearance/Odor	Clear / No odor
Analyses	TOC, diss. gases, VOCs, HACH (Fe/Mn)		
Sampler	Maddison Hutton	Signature	Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Project No:	Page of
Well ID MW-27	Date 06/18/2024	Time 0955
Well Site Description Ash Landfill / Lucia Mar		
Weather/Temp pc, Partly cloudy / 80°		
Field Technician Maddison Hilton		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 652.99	Screened Interval (ft bgs) 5.5-10.5
Well Diameter (in.) 2-in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.09	Gallons per foot of depth 0.1632
Depth to product (ft) —	Static water level (ft) 6.66
Product column height (ft) —	Water column height (ft) 5.43
Product volume (Gallons) —	Water volume (Gallons) .89

PURGE INFORMATION

Pump Type / ID Grd. Peri Pump / 144395		Water Quality Meter Type / ID Horiba / YL222
Pump Intake Depth (ft) ~11		Flow-Thru Cell Volume (L) —
Purge Start Time 0955		Appearance/Odor (Start) turbid / slight sulfur odor
Purge End Time 1030		Appearance/Odor (End) clear / slight sulfur odor
Average Purge Rate (mL/min) 250		Total Drawdown (ft) 1.01
Well Went Dry (Y/N)	Stop Time 1030	Volume removed (L) 10
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 10		Total Pump Time (min) 35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
06/18/24	0955	250	1.25	6.65	2.39	18.09	-94	472	4.00	7.49
	1000	250	2.50	6.60	2.28	17.28	-91	108	0.35	7.56
	1005	250	3.75	6.55	2.24	17.64	-87	64.1	0.10	7.55
	1010	250	5.0	6.53	2.22	17.61	-85	46.9	0.00	7.59
	1015	250	6.25	6.51	2.22	17.63	-85	30.7	0.00	7.61
	1020	250	7.50	6.49	2.21	17.49	-84	23.9	0.00	7.66
	1025	250	8.75	6.49	2.20	17.45	-84	21.1	0.00	7.70
	1030	250	10.00	6.48	2.20	17.54	-84	20.0	0.00	7.67

COMMENTS Slight sulfur odor

SAMPLE COLLECTION

Sample Date 6/18/2024	Sample Time 1030
Sample ID SEAD-AL-MW-27-20240618	
QA/QC Collected / ID SEAD-AL-DUP-01	Sample Appearance/Odor Clear / slight sulfur odor
Analyses TOC, disl. gasses (-20240618) VOCs, HACH (Mn, Fe)	
Sampler Maddie Hilton	Signature

Native
Manganese = 47.5 mg/L (LOD)
Iron = 2.11 mg/L

DUP-01
manganese = 47.5 mg/L (LOD)
Iron = 2.11 mg/L

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 1
Well ID	MWT-28	Date 6/18/24	Time 0910
Well Site Description	Ash Landfill		
Weather/Temp	80°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	652.64	Screened Interval (ft bgs)	5.0-10.0
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	12.52	Gallons per foot of depth	0.163
Depth to product (ft)	-	Static water level (ft)	7.40
Product column height (ft)	-	Water column height (ft)	5.12
Product volume (Gallons)	0.0	Water volume (Gallons)	0.835

PURGE INFORMATION

Pump Type / ID	Peristaltic / 33386	Water Quality Meter Type / ID	Horiba U52 / 51937
Pump Intake Depth (ft)	~12.00 ft.	Flow-Thru Cell Volume (L)	
Purge Start Time	0910	Appearance/Odor (Start)	clear / none
Purge End Time	0940	Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	2.08
Well Went Dry (Y/N)	Y	Stop Time 0945	Volume removed (L) 7.00
Recovery Time	overnight	Recovery Rate (mL/min)	Restart Purge Time 0830
Total Volume Removed (L)	~~7.50~~	Total Pump Time (min)	~35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	0910	0.25	-	7.13	1.16	19.35	-28	221	3.68	7.91
6/18/24	0915	0.25	1.25	7.04	1.18	18.65	-40	1.60	2.96	9.12
	0920	0.25	2.50	7.02	1.15	18.61	-38	98.9	1.58	9.13
	0925	0.25	3.75	7.02	1.16	18.72	-41	46.7	1.00	9.61
	0930	0.25	~~5.00~~	7.01	1.22	18.66	-48	13.1	0.97	9.68
	0935	0.25	~~6.25~~	7.01	1.24	17.91	-50	10.4	1.12	9.78
	0940	0.25	~~7.50~~	7.00	1.27	17.72	-51	16.9	1.34	9.78
	0945								~~1.59~~	~~9.98~~

COMMENTS Fe2+ = 2.92
Mn = 47.5

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	0830
Sample ID	SEAD-AL-MWT-28-20240619		
QA/QC Collected / ID		Sample Appearance/Odor	clear / none / some sediment
Analyses			
Sampler	KC	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of 1
Well ID MUST-29	Date 6/18/2024	Time 1610
Well Site Description Ash Landfill		
Weather/Temp 82°F, cloudy		
Field Technician K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 651.82	Screened Interval (ft bgs) 5.5-10.5
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) -

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.78	Gallons per foot of depth 0.163
Depth to product (ft) -	Static water level (ft) 7.99
Product column height (ft) -	Water column height (ft) 4.79
Product volume (Gallons) -	Water volume (Gallons) 0.781

PURGE INFORMATION

Pump Type / ID Peristaltic / 33386		Water Quality Meter Type / ID Horiba U52 / 51837
Pump Intake Depth (ft) ~12 ft.		Flow-Thru Cell Volume (L)
Purge Start Time 1010		Appearance/Odor (Start) clear/none
Purge End Time 1030		Appearance/Odor (End) clear/none
Average Purge Rate (mL/min) 025		Total Drawdown (ft)
Well Went Dry (Y/N) N	Stop Time -	Volume removed (L) -
Recovery Time -	Recovery Rate (mL/min) -	Restart Purge Time -
Total Volume Removed (L) 4.58		Total Pump Time (min) 20

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
6/18/24	1010	0.25	-	7.03	1.14	21.46	-18	0.0	0.55	8.73
	1015	0.25	1.25	7.04	1.13	21.38	-3	0.0	0.00	9.06
	1020	0.25	2.50	7.03	1.14	21.44	4	0.0	0.00	9.42
	1025	0.25	3.75	7.03	1.16	21.51	5	0.0	0.00	9.74
	1030	0.25	4.50	7.03	1.17	21.76	1	0.0	0.00	9.95

COMMENTS Fe^{2+} = 2.1 mg/L
Mn = 4.75 (LOD)

SAMPLE COLLECTION

Sample Date 6/18/2024	Sample Time 1030
Sample ID SEAD-AL-MUST-29-2024 0618	
QA/QC Collected / ID Field duplicate	Sample Appearance/Odor clear/none
Analyses RSK-175, 9060A, 9056A, 8146, 8034, 8260D	
Sampler KC	Signature Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location		Project No:	Page of
Well ID PT-12A		Date 06/18/2024	Time 1135
Well Site Description Ash Landfill / grass			
Weather/Temp Partly Cloudy / Hazy / 85°F			
Field Technician Maddison Hutton			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 652.15	Screened Interval (ft bgs) 4.8 - 9.8
Well Diameter (in.) 2-in PVC	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.23	Gallons per foot of depth 0.1632
Depth to product (ft) —	Static water level (ft) 6.82
Product column height (ft) —	Water column height (ft) 5.41
Product volume (Gallons) —	Water volume (Gallons) .88

PURGE INFORMATION

Pump Type / ID Grd. Pos. Pump / 44395	Water Quality Meter Type / ID Horiba / 17222
Pump Intake Depth (ft) ~10	Flow-Thru Cell Volume (L) —
Purge Start Time 1135	Appearance/Odor (Start) Minimal turbidity / no odor
Purge End Time 1225	Appearance/Odor (End) Clear / none
Average Purge Rate (mL/min) 250	Total Drawdown (ft) 2.74

Well Went Dry (Y/N)	Stop Time 1225	Volume removed (L) 13.75
Recovery Time NA	Recovery Rate (mL/min) NA	Restart Purge Time NA
Total Volume Removed (L) 13.75	Total Pump Time (min) 50	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+-3%)	Temp. (°C) (+-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1135	250	1.25	6.71	1.29	24.51	-9	32.9	1.39	7.32
	1140		2.5	6.61	1.38	19.55	8	22.0	1.34	7.72
	1145		3.75	6.65	1.36	19.16	28	55.0	1.89	7.95
	1150		5	6.64	1.33	19.17	43	58.9	1.79	8.12
	1155		6.25	6.64	1.31	19.17	53	47.1	1.76	8.32
	1200		7.5	6.63	1.25	19.66	63	23.2	1.68	8.65
	1205		8.75	6.63	1.22	20.88	65	15.0	1.98	8.89
	1210		10	6.63	1.23	20.87	63	8.5	1.64	9.03
	1215		11.25	6.64	1.25	20.36	62	6.7	1.47	9.13
	1220		12.50	6.64	1.24	19.91	62	6.2	1.16	9.37
	1225		13.75	6.64	1.23	19.85	58	7.2	0.95	9.50

COMMENTS 4 bollards

SAMPLE COLLECTION

Sample Date 06/18/2024	Sample Time 1225
Sample ID SEAD-AL-PT-12A-2024 0618	
QA/QC Collected / ID MS/MSD	Sample Appearance/Odor - Clear / none
Analyses VOC's	
Sampler Maddison H Hutton	Signature Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of 1
Well ID	PT-16	Date 6/19/2024	Time 1130
Well Site Description	Ash Landfill		
Weather/Temp	86°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	637.65	Screened Interval (ft bgs)	4.0-9.0
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	-

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	10.99	Gallons per foot of depth	0.163
Depth to product (ft)	-	Static water level (ft)	5.02
Product column height (ft)	-	Water column height (ft)	5.97
Product volume (Gallons)	-	Water volume (Gallons)	0.973

PURGE INFORMATION

Pump Type / ID	Peristaltic 133386	Water Quality Meter Type / ID	Horiba U52T 51837
Pump Intake Depth (ft)	~10.50	Flow-Thru Cell Volume (L)	
Purge Start Time	1133	Appearance/Odor (Start)	clear/some sediment/none
Purge End Time	1218	Appearance/Odor (End)	clear/none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	0.05

Well Went Dry (Y/N)	N	Stop Time	-	Volume removed (L)	-
Recovery Time	-	Recovery Rate (mL/min)	-	Restart Purge Time	
Total Volume Removed (L)	10.25	Total Pump Time (min)	45		

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	1133	0.25	-	7.88	0.516	26.34	-56	314	1.67	3.75
	1138	0.25	1.25	7.19	0.470	25.41	-41	219	0.58	3.78
	1143	0.25	2.50	7.15	0.484	22.74	-28	217	0.34	3.80
	1148	0.25	2.75	7.13	0.486	21.96	-8	200	0.21	3.78
	1153	0.25	5.00	7.12	0.486	22.26	0	164	0.09	3.78
	1158	0.25	6.25	7.12	0.486	22.92	1	58.6	0.09	3.78
	1203	0.25	7.50	7.12	0.475	24.22	4	34.1	0.06	3.80
	1208	0.25	8.75	7.12	0.485	24.19	5	6.7	0.08	3.80
	1213	0.25	9.50	7.13	0.481	22.96	5	6.9	0.07	3.80
	1218	0.25	10.25	7.13	0.479	22.82	7	7.0	0.05	3.80

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	1218
Sample ID	SEAD-A1-PT-16-20240619		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/none
Analyses	VOCs		
Sampler	KC	Signature	K Cassidy

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of
Well ID	PT-17	Date 6/18/24	Time 0820
Well Site Description	grass field		
Weather/Temp	75 sun		
Field Technician	M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 6.97	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 6.40
Product column height (ft) ↓	Water column height (ft) 0.57
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump	Water Quality Meter Type / ID Horiba U-52
Pump Intake Depth (ft) 6.97	Flow-Thru Cell Volume (L) 1
Purge Start Time 0825	Appearance/Odor (Start) clear NONE
Purge End Time 0855	Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 30	Total Drawdown (ft) 0.12

Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5	Total Pump Time (min) 30	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	0825	250	—	7.15	0.843	17.30	15	34.1	1.87	6.60
	0830	—	1.25	6.63	0.861	15.50	22	0.0	0.88	6.68
	0835	—	2.50	6.45	0.864	15.13	45	0.0	0.95	6.72
	0840	—	3.75	6.41	0.862	15.17	55	0.0	1.00	6.70
	0845	—	5.00	6.39	0.865	15.20	58	0.0	1.10	6.69
	0850	—	6.25	6.37	0.867	15.24	61	0.0	1.13	6.70
	0855	—	7.50	6.36	0.869	15.30	64	0.0	1.09	6.71

COMMENTS Hach Fe^{+2} = 0.16 mg/L
Mn = 47.5 mg/L Limit

SAMPLE COLLECTION

Sample Date 6/18/24	Sample Time 0855
Sample ID SEAD-AL-PT-17-20240618	
QA/QC Collected / ID NA	Sample Appearance/Odor clear none
Analyses VK, TOC, DISS gas, SO4 NO3 Cl	Hach Mn + Fe^{2+}
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of
Well ID PT-18A	Date 6/10/24	Time 1230
Well Site Description Ash Landfill		
Weather/Temp 70 sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 12.15	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 8.34
Product column height (ft)	Water column height (ft) 3.71 ft
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID peri pump		Water Quality Meter Type / ID Horiba U-52	
Pump Intake Depth (ft) 12		Flow-Thru Cell Volume (L) 1	
Purge Start Time 1235		Appearance/Odor (Start) clear none	
Purge End Time 1254		Appearance/Odor (End)	
Average Purge Rate (mL/min) 300		Total Drawdown (ft)	
Well Went Dry (Y/N) Y	Stop Time 1254	Volume removed (L) 4.5	
Recovery Time 20 hours	Recovery Rate (mL/min) —	Restart Purge Time 6/19/24 0820	
Total Volume Removed (L)		Total Pump Time (min) 19	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1235	300	—	6.96	1.25	29.22	-30	512	1.36	8.91
	1240	—	1.5	6.75	1.19	28.00	15	368	0.36	9.21
	1245	—	3.0	6.68	1.14	27.97	21	197	0.37	10.26
	1250	—	4.5	6.62	1.12	27.41	25	179	0.37	11.10

COMMENTS Hach Fe^{2+} = 0.35 mg/L Mn = 41.5 limit purged Dry at 1254 will sample 6/19

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 0820
Sample ID SEAD-ALL PT-18A-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor
Analyses VOC TOC Diss gas SO4 NO3 Chl	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page of
Well ID PT-19	Date 6/19/24	Time 0955
Well Site Description Ash Landfill		
Weather/Temp 85° F Sun		
Field Technician M. Wright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 11.62	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 6.28
Product column height (ft) /	Water column height (ft)
Product volume (Gallons) /	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri pump	Water Quality Meter Type / ID Horiba-U52
Pump Intake Depth (ft)	Flow-Thru Cell Volume (L) /
Purge Start Time 0955	Appearance/Odor (Start) Clear none
Purge End Time 1015	Appearance/Odor (End) Clear none
Average Purge Rate (mL/min) 300	Total Drawdown (ft)

Well Went Dry (Y/N) —	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 6.0	Total Pump Time (min) 20	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	0955	300	—	6.91	0.846	15.60	-126	4500	2.12	6.42
	1000	—	1.5	6.56	0.851	15.13	-128	6.9	0.46	6.50
	1005	—	3.0	6.52	0.830	15.05	-124	9.4	0.47	6.53
	1010	—	4.5	6.50	0.833	15.11	-122	3.2	0.45	6.59
	1015	—	6.0	6.48	0.836	15.59	-120	0	0.43	6.63

COMMENTS _____

SAMPLE COLLECTION

Sample Date 6/19/24	Sample Time 1015
Sample ID SEAD-PT-19-20240619	
QA/QC Collected / ID NA	Sample Appearance/Odor Clear/none
Analyses VOC	
Sampler MW	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD		Project No:	Page 1 of 1
Well ID PT-20		Date 6/19/2024	Time 0905
Well Site Description Ash Landfill			
Weather/Temp 820F, cloudy			
Field Technician/- Cassidy			

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	1047.54	Screened Interval (ft bgs)	3.8-88
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	11.59	Gallons per foot of depth	0.163
Depth to product (ft)	-	Static water level (ft)	7.92
Product column height (ft)	-	Water column height (ft)	3.67
Product volume (Gallons)	-	Water volume (Gallons)	0.598

PURGE INFORMATION

Pump Type / ID	Peristaltic/33386		Water Quality Meter Type / ID	Horiba U52/17222	
Pump Intake Depth (ft)	~11 ft.		Flow-Thru Cell Volume (L)		
Purge Start Time	0905		Appearance/Odor (Start)	clear/none	
Purge End Time	0955		Appearance/Odor (End)	clear/none	
Average Purge Rate (mL/min)	0.25		Total Drawdown (ft)	0.52	
Well Went Dry (Y/N)	N	Stop Time	—	Volume removed (L)	—
Recovery Time	—	Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	11.50		Total Pump Time (min)	50	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/19/24	0905	0.250	-	6.95	0.681	25.10	-79	68.7	2.14	8.03
	0910	0.25	1.25	6.77	0.703	22.33	-149	54.2	0.38	8.39
	0915	0.25	2.50	6.65	0.754	20.94	-127	90.2	0.14	8.49
	0920	0.25	3.75	6.53	0.783	21.16	-98	133	0.06	8.55
	0925	0.25	5.00	6.48	0.803	20.92	-80	140	0.03	8.55
	0930	0.25	6.25	6.47	0.812	20.92	-74	130	0.02	8.55
	0935	0.25	7.50	6.46	0.82	20.99	-62	103	0.02	8.55
	0940	0.25	8.75	6.46	0.824	21.88	-55	61.8	0.00	8.55
	0945	0.25	9.00	6.47	0.826	20.91	-46	45.6	0.00	8.55
	0950	0.25	10.25	6.48	0.823	20.73	-44	44.9	0.00	8.55
	0955	0.25	11.50	6.48	0.820	20.79	-43	47.3	0.00	8.55

COMMENTS _____

SAMPLE COLLECTION

Sample Date	6/19/2024	Sample Time	0955
Sample ID	SEAD-AL-PT-20-20240619		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/none
Analyses	VOCs		
Sampler	KC	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location	SEAD	Project No:	Page 1 of
Well ID	PT-22	Date 6/18/2024	Time 1328
Well Site Description	Ash Landfill		
Weather/Temp	89°F, cloudy		
Field Technician	K. Cassidy		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	648.74	Screened Interval (ft bgs)	4.0-9.0
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	11.93	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	9.42
Product column height (ft)	—	Water column height (ft)	2.51
Product volume (Gallons)	—	Water volume (Gallons)	.41

PURGE INFORMATION

Peristaltic

Pump Type / ID	Horiba U52	Water Quality Meter Type / ID	Horiba U52
Pump Intake Depth (ft)	~11	Flow-Thru Cell Volume (L)	—
Purge Start Time	1320	Appearance/Odor (Start)	clear/none
Purge End Time	1336	Appearance/Odor (End)	
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	0.88
Well Went Dry (Y/N)	Y	Stop Time 1330	Volume removed (L) 2.5
Recovery Time	Overnight	Recovery Rate (mL/min) NA	Restart Purge Time 6/19/2024 - 0830
Total Volume Removed (L)	2.5	Total Pump Time (min)	10

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (mS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0 5 mg/L	Depth to Water (ft below TOC)
6/18/24	1320	0.25	—	7.82	0.766	34.55	-11	99.0	20.36	9.42
	1325	0.25	1.25	7.91	0.738	28.40	-11	40.0	1.84	10.38
	1330	0.25	2.50	7.94	0.741	26.68	-32	57.6	1.02	11.05
	1335	0.25								

COMMENTS Well ran dry on 06/18/2024, well sampled at 0825 on 6/19/24.

SAMPLE COLLECTION

Sample Date	06/19/2024	Sample Time	0825
Sample ID	SEAD-AL-PT-22-20240618		
QA/QC Collected / ID	NONE	Sample Appearance/Odor	clear w/ particulate matter, no odor
Analyses	VOCs		
Sampler	Maddison Hutton	Signature	Maddison Hutton

WELL PURGING AND SAMPLING RECORD

Site Name/Location SEAD	Project No:	Page 1 of
Well ID PT-24	Date 6/18/24	Time 1020
Well Site Description grass field		
Weather/Temp 80 Sun		
Field Technician MWright		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) 8

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 11.82	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 6.14
Product column height (ft)	Water column height (ft) 5.68
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID peri pump		Water Quality Meter Type / ID Horiba U52
Pump Intake Depth (ft) 11		Flow-Thru Cell Volume (L) 1
Purge Start Time 1020		Appearance/Odor (Start) clear none
Purge End Time 1045		Appearance/Odor (End) clear none
Average Purge Rate (mL/min) 300		Total Drawdown (ft) 0.11
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5		Total Pump Time (min) 25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
6/18/24	1020	300	—	7.08	0.682	14.52	109	30.8	3.23	6.25
	1025	—	1.5	6.81	0.672	15.76	91	7.0	0.97	6.25
	1030	—	3.0	6.76	0.681	15.38	101	0	0.58	6.25
	1035	—	4.5	6.73	0.670	15.24	109	0	0.74	6.25
	1040	—	6.0	6.72	0.670	15.37	114	0	0.70	6.25
	1045	—	7.5	6.71	0.670	15.40	117	0	0.69	6.25

COMMENTS Hach Mn= 45.7 mg/L
Fe(T)= 0.01 mg/L

SAMPLE COLLECTION

Sample Date 6/18/24	Sample Time 1045
Sample ID SEAD-AL-PT-24	
QA/QC Collected / ID MS/MSD	Sample Appearance/Odor clear none
Analyses VOC TCL DRO GRO SO4 NO3 CHL	
Sampler MW	Signature

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT - 27
Well Tag ID: MWT - 27
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 652.99
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.5 *ftbgs*
Well Depth (as measured): 10.11 *fttoc*
Screened interval: 5.5 - 10.5 *ft*
Open hole interval: — *ft*
Depth to water: 6.93 *ftbtoc*
Date: 6/19/2024 *Time:* 1115

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.4 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — % LEL
O_2: — 40% Vol.
CO: — ppm
H_2S: — ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? – NA, Stick up	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

lock would not lock/close

Inspected by: Maddison Hatton
Date of Inspection: 6/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW-29
Well Tag ID: MW-29
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 637.28 ft
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): 9.0 ftbgs
Well Depth (as measured): 10.16 fttoc
Screened interval: 3.6 - 9.6 ft
Open hole interval: — ft
Depth to water: 7.30 ftbtoc
Date: 6/20/2024 Time: 0955

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL:	—	% LEL
O_2:	—	40% Vol.
CO:	—	ppm
H_2S:	—	ppm

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? — NA, Stickup	Yes	No

Other Comments None.

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

2 steel fence-post bollards

Inspected by: Maddison Hilton

Date of Inspection: 6/20/2024

Reviewed by: _____ (Print)

_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW-46
Well Tag ID: MW-46
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 650.41
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): 9 ftbgs
Well Depth (as measured): 11.45 fttoc
Screened interval: 3.5 - 8.5 ft
Open hole interval: — ft
Depth to water: 7.85 ftbtoc
Date: 6/19/2024 Time: 0940

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.2 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — *% LEL*
O_2: — *40% Vol.*
CO: — *ppm*
H_2S: — *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? — NA, stick-up	Yes	No

Other Comments Label faded

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

2 bollards

Inspected by: Melissa Hutton
Date of Inspection: 06/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW-48
Well Tag ID: MW-48
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: master lock
Elevation (top of inner casing): 648.32
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 9 *ftbgs*
Well Depth (as measured): 11.35 *fttoc*
Screened interval: 3.5 - 8.5 *ft*
Open hole interval: — *ft*
Depth to water: 5.61 *ftbtoc*
Date: 06/11/2024 Time: 0845

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — % LEL
O_2: — 40% Vol.
CO: — ppm
H_2S: — ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff? - NA	Yes	No

Other Comments label Fading, well is stick up

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

- 2 bollards
- well is in woody brush

Inspected by: Maddison Hilton
Date of Inspection: 06/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-5
Well Tag ID: MWT-5
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 637.72
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 1 *inches*
Well Depth (as installed): 10.50 *ftbgs*
Well Depth (as measured): 12.00 *fttoc*
Screened interval: 5.5 - 10.5 *ft*
Open hole interval: — *ft*
Depth to water: 7.51 *ftbtoc*
Date: 6/19/2024 Time: 1335

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — % LEL
O_2: — 40% Vol.
CO: — ppm
H_2S: — ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? — NA, Stick up	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Maddison Hatten
Date of Inspection: 6/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-8
Well Tag ID: MWT-8
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: master
Elevation (top of inner casing): 638.40
Surface casing material: steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.81 *ftbgs*
Well Depth (as measured): 12.50 *fttoc*
Screened interval: .81 - 10.81 *ft*
Open hole interval: — *ft*
Depth to water: 8.73 *ftbtoc*
Date: 6/19/2024 *Time:* 1500

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: – *% LEL*
O_2: – *40% Vol.*
CO: – *ppm*
H_2S: – *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	Yes	(No)
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? – NA –	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	(Yes)	No
Well needs to be properly abandoned.	Yes	No
No action necessary.	(Yes)	No

Comments

None

Inspected by: Maddison Hutton
Date of Inspection: 6/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-24
Well Tag ID: MWT-24
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 641.56
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): 11 ftbgs
Well Depth (as measured): 12.76 fttoc
Screened interval: 6-11 ft
Open hole interval: — ft
Depth to water: 8.80 ftbtoc
Date: 6/19/2024 Time: 12:10

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — *% LEL*
O_2: — *40% Vol.*
CO: — *ppm*
H_2S: — *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff? – NA	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

3 Steel bollards

Inspected by: Maddison Hutton
Date of Inspection: 6/19/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Trelnen

Well Locational Information

State Well ID: PT-22
Well Tag ID: PT-22
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Farm Road

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 648.74
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): 9.10 ftbgs
Well Depth (as measured): 11.43 fttoc
Screened interval: 4-9 ft
Open hole interval: _____ ft
Depth to water: 9.42 ftbtoc
Date: 6/18/24 Time: 1338

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.2 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ % LEL
O_2: _____ 40% Vol.
CO: _____ ppm
H_2S: _____ ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	(No) (Yes)

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

Inspected by: K. Cassidy
Date of Inspection: _____
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MWT-10
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 8.89 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 4.53 ftbtoc
Date: 6/19/20 Time: 1400

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

_____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

_____

_____

_____

_____

_____

Inspected by: Mike Wright

Date of Inspection: 6/19/20

Reviewed by: _____ **(Print)**

_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MWT-2
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 1 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 9.60 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 5.60 *ftbtoc*
Date: 6/20/24 *Time:* 1006

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

_____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

_____

_____

_____

_____

_____

Inspected by: Mike Wright
Date of Inspection: 6/2/24
Reviewed by: _____ **(Print)**

_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MWT-3
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 16.16 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 5.75 *ftbtoc*
Date: 6/20/24 Time: 1405

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

Inspected by: Mike Wright
Date of Inspection: 6/24/24
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MWT-1
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 10.10 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 5.61 ftbtoc
Date: 6/19/24 Time: 1400

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

_____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

_____

_____

_____

_____

_____

Inspected by: _____

Date of Inspection: 6/19/20

Reviewed by: _____ (Print)

_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-6
Well Tag ID: MWT-6
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 637.59
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.33 *ftbgs*
Well Depth (as measured): 17.51 *fttoc*
Screened interval: 4.88-9.88 *ft*
Open hole interval: — *ft*
Depth to water: 7.40 *ftbtoc*
Date: 6/26/2024 Time: 1040

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	Yes	No
Is the well surface casing in good condition?	Yes	No
Is the surface casing vertical?	Yes	No
Is there an internal well seal?	Yes	No
Has there been physical damage to the well?	Yes	No
Does sounding depth match completed depth?	Yes	No
Is measuring point marked?	Yes	No
Is the well clearly labeled?	Yes	No
Flush mount - Is it secure from runoff?	Yes	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
No action necessary.	Yes	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/20/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-4
Well Tag ID: MWT-4
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 637.68
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10 *ftbgs*
Well Depth (as measured): 12.48 *fttoc*
Screened interval: 4.75-9.75 *ft*
Open hole interval: - *ft*
Depth to water: 6.61 *ftbtoc*
Date: 6/26/2024 *Time:* 0940

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	Yes	(No)
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

_____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

_____

_____

_____

_____

_____

Inspected by: K. Cassidy

Date of Inspection: 6/20/2024

Reviewed by: _____ **(Print)**

_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: PT-17
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) (Flush Mount) Stick up Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 8 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 6.97 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 6.37 *ftbtoc*
Date: 6/18/24 Time: 0820

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.9 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Mike Wright
Date of Inspection: 6/18/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW7-7
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 13.67 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 7.65 ftbtoc
Date: 6/18/24 Time: 0920

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NAD C

Inspected by: Mike Wright
Date of Inspection: 6/18/14
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: PT-24
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 11.82 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 6.14 ftbtoc
Date: 6/18/24 Time: 1000

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

None

Inspected by: Mike Wozniak
Date of Inspection: 6/15/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MWT-25
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): [illegible] *ftbgs*
Well Depth (as measured): 12.84 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 7.03 *ftbtoc*
Date: 6/18/24 Time: 1150

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Mike Wright
Date of Inspection: 6/14/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW-40
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 14.64 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 6.64 *ftbtoc*
Date: 6/18/14 Time: 1300

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Mike Wright
Date of Inspection: 01/14/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: ~~PTW~~ PT-18A
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Locic
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): ~~PVC~~ *ftbgs*
Well Depth (as measured): 12.15 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 8.34 *ftbtoc*
Date: 6/14/24 Time: 1230

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 2.3 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Mike Wright
Date of Inspection: 6/18/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-23
Well Tag ID: MWT-23
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master
Elevation (top of inner casing): 646.
Surface casing material: PVC
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 11.5 *ftbgs*
Well Depth (as measured): 13.66 *fttoc*
Screened interval: 6.5-11.5 *ft*
Open hole interval: — *ft*
Depth to water: 9.40 *ftbtoc*
Date: 06/17 Time: 1315

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: – *% LEL*
O_2: – *40% Vol.*
CO: – *ppm*
H_2S: – *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition? – NA	Yes	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff? – NA	Yes	No

Other Comments No concrete pad, Stick-up

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	Yes	(No)

Comments

None

Inspected by: Maddisc. Hutta
Date of Inspection: 06/18/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW-26
Well Tag ID: MW-26
Well Installation date:

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable):

GPS Instrument used:
Datum:
Accuracy/Precision:

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Padlock
Elevation (top of inner casing): 652.19
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4-in *inches*
Well Diameter: 2-in *inches*
Well Depth (as installed): 10.2 *ftbgs*
Well Depth (as measured): [illegible] *fttoc*
Screened interval: 5.2-10.2 *ft*
Open hole interval: — *ft*
Depth to water: [illegible] *ftbtoc*
Date: 03/18/[illegible] Time: 0820

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: — % LEL
O_2: — 40% Vol.
CO: — ppm
H_2S: — ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff? - NA	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

No bollards. Placed reflective tape near to well.

Inspected by: Matt Miller
Date of Inspection: 06/18/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW[illegible]-27
Well Tag ID: [illegible]
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: [illegible]
Elevation (top of inner casing): 652.99
Surface casing material: PVC
Well casing material: Steel
Surface Casing diameter: [illegible] inches
Well Diameter: [illegible] inches
Well Depth (as installed): 15.5 ftbgs
Well Depth (as measured): 12.74 fttoc
Screened interval: 5.5 - 10.5 ft
Open hole interval: ---- ft
Depth to water: 6.66 ftbtoc
Date: 6/18/2024 Time: 0955

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: – *% LEL*
O_2: – *40% Vol.*
CO: – *ppm*
H_2S: – *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff? – NA	Yes	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Maddison Hutto
Date of Inspection: Oct 18, 2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW39
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Locic
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 11.92 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 3.22 *ftbtoc*
Date: 6/19/24 *Time:* 0900

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0 ppm

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ % LEL
O_2: _____ 40% Vol.
CO: _____ ppm
H_2S: _____ ppm

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: McLaughlin
Date of Inspection: 6/19/24
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: PT - 12A
Well Tag ID: PT - 12A
Well Installation date: —

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Master lock
Elevation (top of inner casing): 652.15
Surface casing material: PVC
Well casing material: Steel
Surface Casing diameter: 4 in *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.3 *ftbgs*
Well Depth (as measured): 12.23 *fttoc*
Screened interval: 4.8 - 9.8 *ft*
Open hole interval: — *ft*
Depth to water: 6.82 *ftbtoc*
Date: 6/18/2021 *Time:* 1135

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: - *% LEL*
O_2: - *40% Vol.*
CO: _____ *ppm*
H_2S: - *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	Yes	(No)
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	Yes	(No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff? - NA	Yes	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

4 steel bollards

Inspected by: [illegible]
Date of Inspection: 06/[illegible]/2019
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW-32
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Locic
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 10.39 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 9.41 ftbtoc
Date: 6/19/24 Time: 1030

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments none

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

none

Inspected by: Mike Wright
Date of Inspection: 6/19/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: PT-19
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): 11.62 *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 6.28 *ftbtoc*
Date: 6/19/23 Time: 1000

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: M. McWard
Date of Inspection: 4/19/23
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW-56R
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount ~~Stick up~~ Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): 15.02 fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: 7.62 ftbtoc
Date: 7/19/24 Time: 1150

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

None

Inspected by: Mike Wrs/M
Date of Inspection: 6/14/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW-58D
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): _____

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: No Lock USGS well
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 6 inches
Well Diameter: 2 inches
Well Depth (as installed): _____ ftbgs
Well Depth (as measured): _____ fttoc
Screened interval: _____ ft
Open hole interval: _____ ft
Depth to water: _____ ftbtoc
Date: 6/19/24 Time: 1120

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist? Yes (No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	~~Yes~~	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments None

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

None

Inspected by: Michael/MA
Date of Inspection: 6/19/24
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-9
Well Tag ID: MWST-9
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 638.08
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 8 inches
Well Diameter: 2 inches
Well Depth (as installed): 12.00 ftbgs
Well Depth (as measured): 14.18 fttoc
Screened interval: 1.75-11.75 ft
Open hole interval: — ft
Depth to water: 8.82 ftbtoc
Date: 6/19/2024 Time: 1330

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.2 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

	Yes	No
Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

_____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

_____

_____

_____

_____

_____

Inspected by: K. Cassidy
Date of Inspection: 6/19/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: PT-16
Well Tag ID: PT-16
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 637.65
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 9.8 *ftbgs*
Well Depth (as measured): 10.99 *fttoc*
Screened interval: 4.0-9.0 *ft*
Open hole interval: ~ *ft*
Depth to water: 5.02 *ftbtoc*
Date: 6/19/2024 Time: 1135

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.1 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	~~Yes~~	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	~~Yes~~	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	~~No~~
No action necessary.	(Yes)	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/19/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: PT-20
Well Tag ID: PT-20
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: J plug
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 9.4 *ftbgs*
Well Depth (as measured): 11.34 *fttoc*
Screened interval: 3.8 - 8.8 *ft*
Open hole interval: - *ft*
Depth to water: 7.92 *ftbtoc*
Date: 6/19 Time: 0940

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	Yes	No
Is the well surface casing in good condition?	Yes	No
Is the surface casing vertical?	Yes	No
Is there an internal well seal?	Yes	No
Has there been physical damage to the well?	Yes	No
Does sounding depth match completed depth?	Yes	No
Is measuring point marked?	Yes	No
Is the well clearly labeled?	Yes	No
Flush mount - Is it secure from runoff?	Yes	No

Other Comments Cover of surface casing was removed.

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
No action necessary.	Yes	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/19/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: _____
Well Tag ID: MW-60
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): NA

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): _____
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): _____ *ftbgs*
Well Depth (as measured): _____ *fttoc*
Screened interval: _____ *ft*
Open hole interval: _____ *ft*
Depth to water: 5.97 *ftbtoc*
Date: 6/17/24 *Time:* 1230

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	(No)

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	Yes	No

Other Comments NONE

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

NONE

Inspected by: Mike Wright
Date of Inspection: 6/17/24
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-22
Well Tag ID: MWT-22
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Farm Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: LOCK
Elevation (top of inner casing): _____
Surface casing material: None
Well casing material: PVC
Surface Casing diameter: NA inches
Well Diameter: 2 inches
Well Depth (as installed): 12.8 ftbgs
Well Depth (as measured): 14.84 fttoc
Screened interval: 7.5-12.5 ft
Open hole interval: - ft
Depth to water: 7.73 ftbtoc
Date: 6/18/2024 Time: 1200

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0-0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	Yes	No N/A
Is the surface casing vertical?	Yes	No N/A
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	(Yes)	No
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments No surface casing, just PVC well casing

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/18/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW1-24
Well Tag ID: MW1-24
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Farm Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 651.82
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.5 *ftbgs*
Well Depth (as measured): 12.78 *fttoc*
Screened interval: 5.5 - 10.5 *ft*
Open hole interval: - *ft*
Depth to water: 7.99 *ftbtoc*
Date: 6/18/2024 Time: 1010

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	Yes	No
Is the well surface casing in good condition?	Yes	No
Is the surface casing vertical?	Yes	No
Is there an internal well seal?	Yes	No
Has there been physical damage to the well?	Yes	No
Does sounding depth match completed depth?	Yes	No
Is measuring point marked?	Yes	No
Is the well clearly labeled?	Yes	No
Flush mount - Is it secure from runoff?	Yes	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	No
Well needs to be re-surveyed.	Yes	No
Well needs to be repaired.	Yes	No
Well needs to be replaced.	Yes	No
Well needs to be properly abandoned.	Yes	No
No action necessary.	Yes	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/18/2024
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MWT-28
Well Tag ID: MWT-28
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Farm Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: Lock
Elevation (top of inner casing): 652.69
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 *inches*
Well Diameter: 2 *inches*
Well Depth (as installed): 10.00 *ftbgs*
Well Depth (as measured): 12.52 *fttoc*
Screened interval: 5.0 - 10.0 *ft*
Open hole interval: _____ *ft*
Depth to water: 7.40 *ftbtoc*
Date: 6/18/24 *Time:* 0900

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	~~Yes~~	~~No~~ (No)
Is measuring point marked?	Yes	(No)
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/18/24
Reviewed by: _____ (Print)
_____ (Sign)

EPA Region 2 Superfund Well Assessment Checklist

Facility Information

Site Name: Seneca Army Depot
Site Address: Route 96 South Romulus
Site County: Seneca
Site State: New York
EPA Site ID Number: NY0213820830
Site Owner: Multiple Owners
EPA Project Manager: Karyn Treinen

Well Locational Information

State Well ID: MW-44A
Well Tag ID: MW-44A
Well Installation date: _____

	From Log	By GPS
Ground Surface Elevation		
Latitude		
Longitude		
Northing (State Plane)		
Easting (State Plane)		

Cross streets (if applicable): Smith Vineyard Rd.

GPS Instrument used: _____
Datum: _____
Accuracy/Precision: _____

Well Construction Details

Type of well (Circle one) Flush Mount (Stick up) Multilevel Well*
Well lock\security type: LOCK
Elevation (top of inner casing): 653.85
Surface casing material: Steel
Well casing material: PVC
Surface Casing diameter: 4 inches
Well Diameter: 2 inches
Well Depth (as installed): 8.75 ftbgs
Well Depth (as measured): 12.45 fttoc
Screened interval: 3.25-8.25 ft
Open hole interval: - ft
Depth to water: 6.21 ftbtoc
Date: 6/11/2024 Time: 1015

* If multilevel well please see attached worksheet.

EPA Region 2 Superfund Well Assessment Checklist

Well Headspace Readings

PID/FID Reading taken inside top of casing (if applicable): 0.0 *ppm*

Multi-gas/CGI meter Readings taken (if applicable):

LEL: _____ *% LEL*
O_2: _____ *40% Vol.*
CO: _____ *ppm*
H_2S: _____ *ppm*

Do readings indicate unsafe conditions exist?	Yes	No

Well Condition

Is the concrete pad in good condition?	(Yes)	No
Is the well surface casing in good condition?	(Yes)	No
Is the surface casing vertical?	(Yes)	No
Is there an internal well seal?	(Yes)	No
Has there been physical damage to the well?	Yes	(No)
Does sounding depth match completed depth?	~~Yes~~	(No)
Is measuring point marked?	(Yes)	No
Is the well clearly labeled?	(Yes)	No
Flush mount - Is it secure from runoff?	(Yes)	No

Other Comments _____

Recommendations

Well needs to be redeveloped	Yes	(No)
Well needs to be re-surveyed.	Yes	(No)
Well needs to be repaired.	Yes	(No)
Well needs to be replaced.	Yes	(No)
Well needs to be properly abandoned.	Yes	(No)
No action necessary.	(Yes)	No

Comments

Inspected by: K. Cassidy
Date of Inspection: 6/19/2024
Reviewed by: _____ **(Print)**
_____ **(Sign)**

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: PT-12A	EA Personnel: J. Guy H McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition: Good	Weather: Sun 78° F
Sounding Method: WLM	Gauge Date: 5/20/24 Gauge Time: 1430	Measurement Ref: —
Stick Up/Down (ft): up	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/20 - 5/22 2024	Purge Time:
Purge Method: Whale pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 12.87	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): ~~12.87~~ 5.29	E. Well Volume (gal) C*D): 1.26	Pump Type: Sub pump
C. Liquid Depth (ft) (A-B): 7.58	F. Three Well Volumes (gal) (E3): 3.78	Pump Intake Depth: Bottom

Water Quality Parameters

	Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
5/20	1438	7.01	1.04	41.3	9.05	21.78	47	5.29	.5	—
5/21	0820	6.82	1.14	9.1	5.28	12.61	103	8.85	.5	4
	0825	6.41	1.18	3	2.56	12.03	131	9.91	.5	6
	0830	6.57	1.21	3.1	1.62	11.97	133	11.60	.5	8
	0835	6.47	1.21	9.2	1.59	13.10	135	12.67	.5	10
5/22	0950	6.71	1.37	9.1	3.70	14.40	126	9.95	1	16
	1030	6.67	1.25	4.1	5.01	20.42	130	11.50	1	26
	~~1035~~									

Total Quantity of Water Removed (gal): _____ Personnel: JG HM

COMMENTS AND OBSERVATIONS: Purge dry 3 Time, more than 3 well volumes Removal

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MWT-1	EA Personnel: T. Guy H. McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash Land Fill	Well Condition: Good	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24 Gauge Time:	Measurement Ref:
Stick Up/Down (ft): up	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1237
Purge Method: Peri pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 10.13	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 5.08	E. Well Volume (gal) C*D): 0.82	Pump Type: Peri
C. Liquid Depth (ft) (A-B): 5.05	F. Three Well Volumes (gal) (E3): 2.46	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~10 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: 5 well Volumes Removed

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MWT-2	EA Personnel: T. Guy + H. McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash	Well Condition: Good	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24 Gauge Time: 1254	Measurement Ref:
Stick Up/Down (ft): up	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1254
Purge Method: peri pump	Field Technician: HM JG

Well Volume

A. Well Depth (ft): 9.60	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.30	E. Well Volume (gal) C*D): 0.70	Pump Type: peri pump
C. Liquid Depth (ft) (A-B): 4.30	F. Three Well Volumes (gal) (E3): 2.10	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~10 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: purged 5 well volumes

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW1-3	EA Personnel: J. Guy H. McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition:	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24 Gauge Time: 1326	Measurement Ref:
Stick Up/Down (ft):	PID Headspace Reading:	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1326
Purge Method: Peri pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 10.10	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 5.20	E. Well Volume (gal) C*D): 0.79	Pump Type: Peri pump
C. Liquid Depth (ft) (A-B): 4.90	F. Three Well Volumes (gal) (E3): 2.37	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~ 12 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: purged 5 gallons

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW-4	EA Personnel: T. Gaul / H. McCormick	Client: ~~NYSDEC~~ US ACE
Location: Ash Land Fill	Well Condition: Good	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24	Measurement Ref:
	Gauge Time: 1402	
Stick Up/Down (ft): up	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1402
Purge Method: Peri pump	Field Technician: HM JG

Well Volume

A. Well Depth (ft): 12.50	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.70	E. Well Volume (gal) C*D): 1.11	Pump Type: Peri pump
C. Liquid Depth (ft) (A-B): 6.80	F. Three Well Volumes (gal) (E3): 3.33	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~ 17 gal Personnel: HM, TG

COMMENTS AND OBSERVATIONS: Well went dry 2 time, purged 5 well Volumes

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW T-5	EA Personnel: J. Guy H. Mellonwele	Client: ~~NYSDEC~~ USACE
Location: Ash Land Fill	Well Condition: Good	Weather: 80 Sunny
Sounding Method: WLM	Gauge Date: 5/2/24 Gauge Time:	Measurement Ref: —
Stick Up/Down (ft): up	PID Headspace Reading:	Well Diameter (in): 2

Purge Date: 5/2/24	Purge Time: 14:10
Purge Method: Peri pump	Field Technician: JG + HM

Well Volume

A. Well Depth (ft): 12.00	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 5.80	E. Well Volume (gal) C*D): 1.01	Pump Type: Peri pump
C. Liquid Depth (ft) (A-B): 6.20	F. Three Well Volumes (gal) (E3): 3.03	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~15 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: 5 gal Removed

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MWT-6	EA Personnel: J. Guy H McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition: Good	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24 Gauge Time:	Measurement Ref: —
Stick Up/Down (ft): UP	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1404
Purge Method: Peri pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 12.50	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 6.68	E. Well Volume (gal) C*D): 0.95	Pump Type: Peristaltic
C. Liquid Depth (ft) (A-B): 5.82	F. Three Well Volumes (gal) (E3): 2.83	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Total Quantity of Water Removed (gal): ~14 gal Personnel: JG

COMMENTS AND OBSERVATIONS: 5 well volumes purged

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MWT-8	EA Personnel: J. Guy H. McCormick	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition: Good	Weather: 80 Sun
Sounding Method:	Gauge Date: 5/21/24	Measurement Ref: —
	Gauge Time: 0823	
Stick Up/Down (ft): up	PID Headspace Reading:	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 1827
Purge Method: Peri pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 12.38	D. Well Volume (ft): .163	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 7.45	E. Well Volume (gal) C*D): .80	Pump Type: Peri pump
C. Liquid Depth (ft) (A-B): 4.93	F. Three Well Volumes (gal) (E3): 2.40	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
930	7.43	0.552	398	8.07	17.60	-70		1000	

Total Quantity of Water Removed (gal): ~12 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: 5 well volumes purged, purged dry 3 Times

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MWT-9	EA Personnel: J. Guy / H. McCandless	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition: Good	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/22/24 Gauge Time:	Measurement Ref: —
Stick Up/Down (ft): up	PID Headspace Reading: —	Well Diameter (in): 2

Purge Date: 5/22/24	Purge Time: 0830
Purge Method: Per Pump	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 14.17	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 8.60	E. Well Volume (gal) C*D): 0.90	Pump Type: Peri Pump
C. Liquid Depth (ft) (A-B): 5.57	F. Three Well Volumes (gal) (E3): 2.70	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0830	8.04	0.576	542	9.39	16.72	60			

Total Quantity of Water Removed (gal): ~ 14 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS: 5 well Volume Purged

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

MONITORING WELL DEVELOPMENT LOG

Well I.D.: MW-580	EA Personnel: J. Guy H. McConnie	Client: ~~NYSDEC~~ USACE
Location: Ash Landfill	Well Condition: Good (USGS well)	Weather: 80 Sun
Sounding Method: WLM	Gauge Date: 5/21/24 Gauge Time:	Measurement Ref: —
Stick Up/Down (ft): up	PID Headspace Reading:	Well Diameter (in): 2

Purge Date: 5/21/24	Purge Time: 0955
Purge Method: Peri	Field Technician: JG HM

Well Volume

A. Well Depth (ft): 57.34	D. Well Volume (ft): 0.163	Depth/Height of Top of PVC:
B. Depth to Water (ft): 4.69	E. Well Volume (gal) C*D): 8.158	Pump Type: Peri
C. Liquid Depth (ft) (A-B): 52.65	F. Three Well Volumes (gal) (E3): 25.175	Pump Intake Depth: Bottom

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0955	8.31	0.603	13.78	3.69	13.78	6		1	
1005	8.82	0.594	13.45	1.89	13.45	-81		1	10
1011	8.83	0.597	13.43	1.03	13.43	-114	19.43	1	16
1017	8.83	0.595	13.47	0.62	13.47	-124	21.22	1	22
1026	8.80	0.592	13.52	0.37	13.52	-131	22.84	1	31
1046	8.84	0.598	13.60	0.80	13.60	-136	23.90	1	51
1057	8.84	0.593	13.64	0.34	13.64	-141	24.19	1	62
1102	8.84	0.595	13.65	0.37	13.65	-145	24.20	1	67
1107	8.85	0.598	13.67	0.42	13.67	-147	24.23	1	72
1112	8.85	0.597	13.67	0.41	13.67	-146	24.24	1	77
1117	8.84	0.596	13.68	0.41	13.68	-147	24.24	1	82

Total Quantity of Water Removed (gal): ~82 gal Personnel: JG HM

COMMENTS AND OBSERVATIONS:

This page intentionally left blank

Appendix B

Regression Plots

Figure B-1
Regression Plot of Well Concentrations at PT-18A
Ash Landfill Annual Report

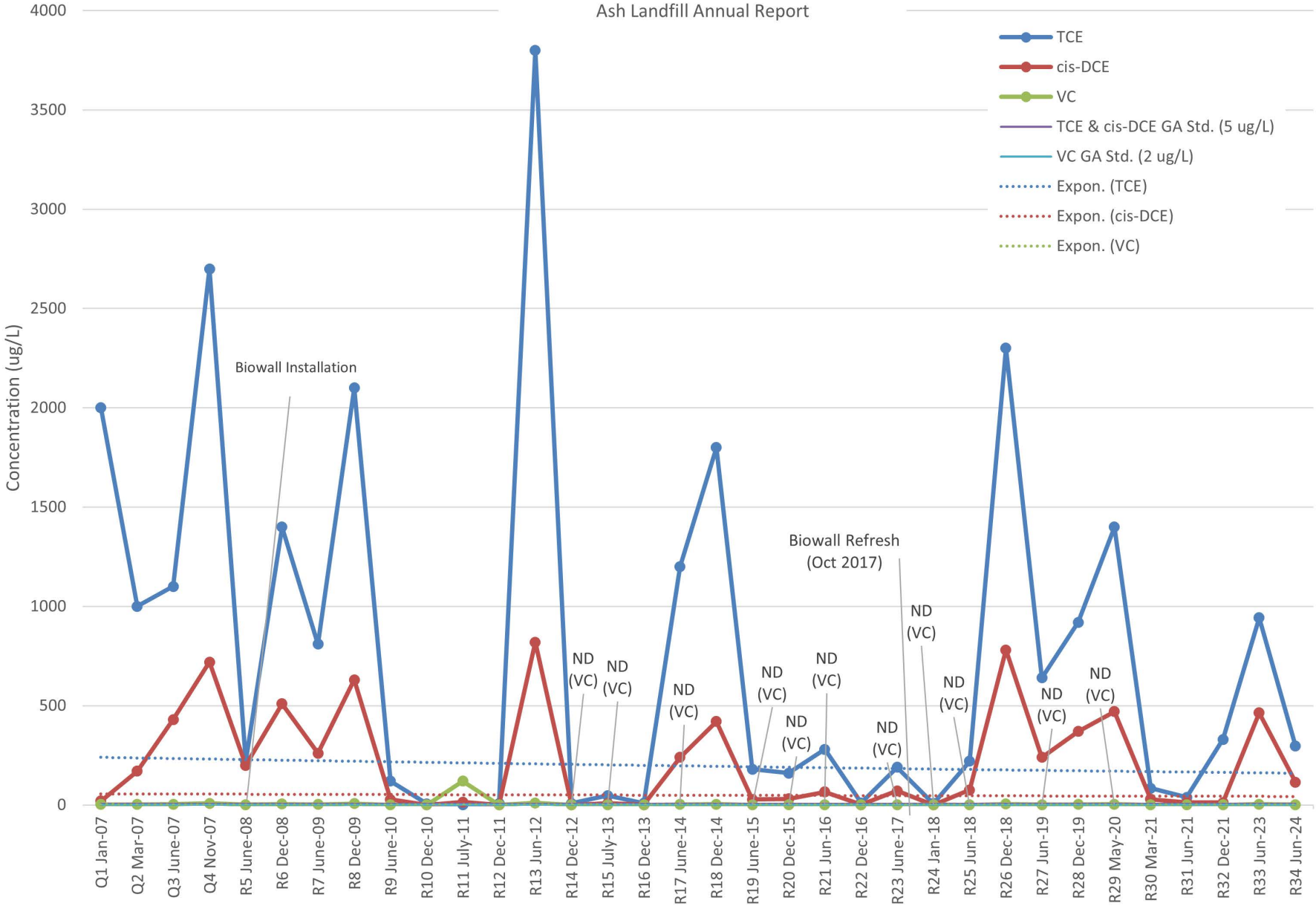
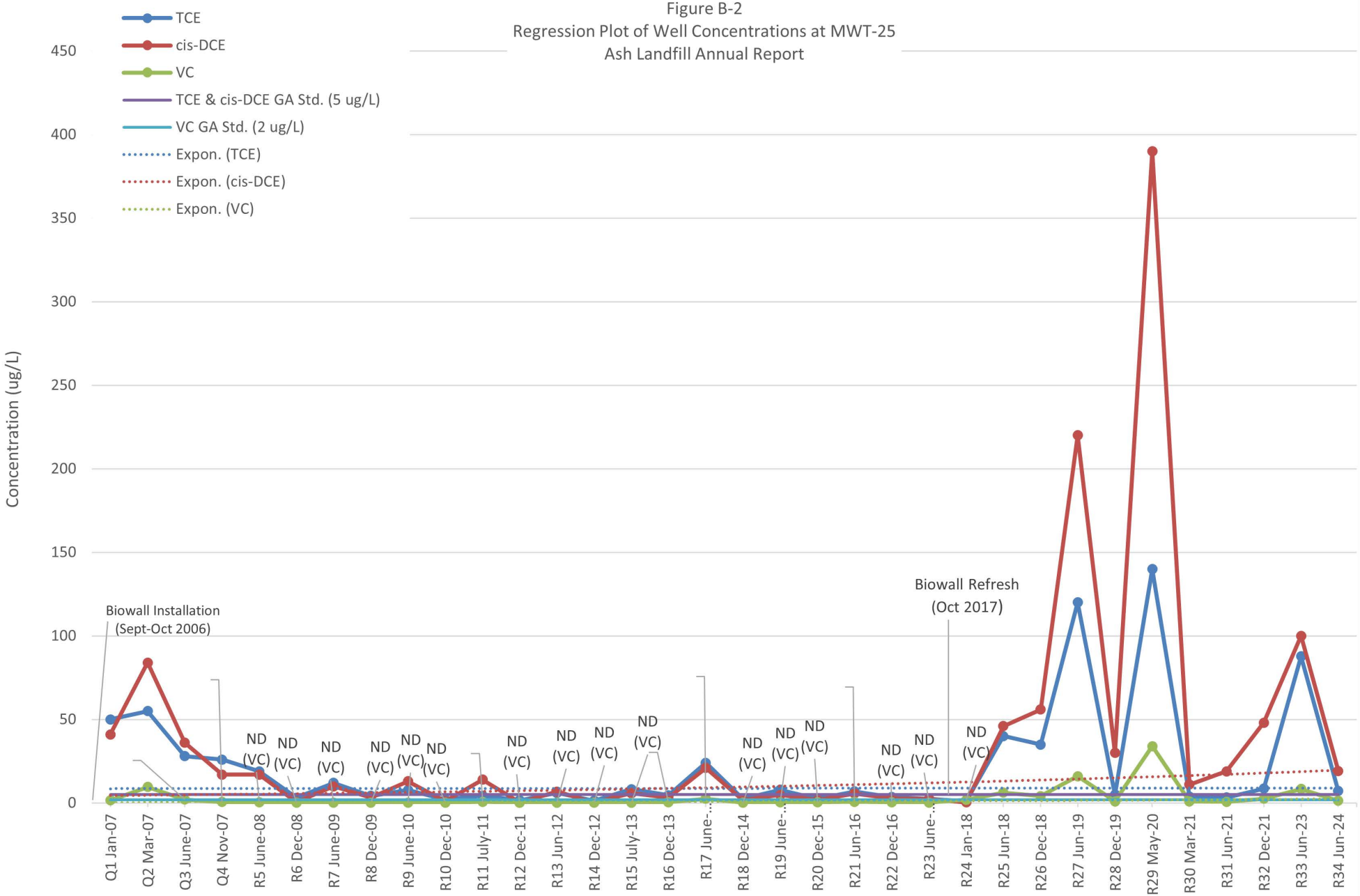


Figure B-2
Regression Plot of Well Concentrations at MWT-25
Ash Landfill Annual Report



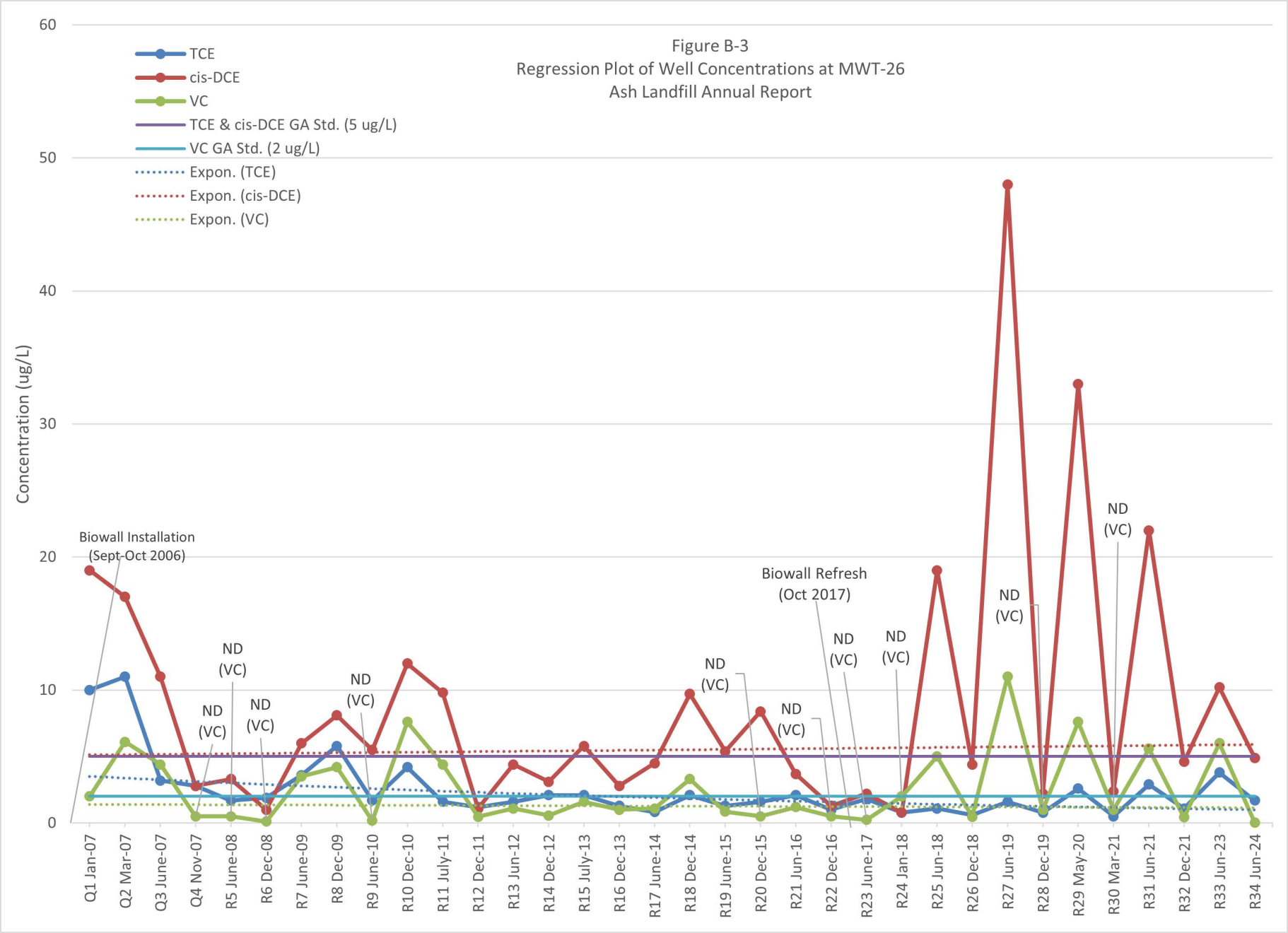


Figure B-3
Regression Plot of Well Concentrations at MWT-26
Ash Landfill Annual Report
TCE
cis-DCE
VC
TCE & cis-DCE GA Std. (5 ug/L)
VC GA Std. (2 ug/L)
Expon. (TCE)
Expon. (cis-DCE)
Expon. (VC)
Concentration (ug/L)
60
50
40
30
20
10
0
Biowall Installation
(Sept-Oct 2006)
Biowall Refresh
(Oct 2017)
ND
(VC)
Q1 Jan-07
Q2 Mar-07
Q3 June-07
Q4 Nov-07
R5 June-08
R6 Dec-08
R7 June-09
R8 Dec-09
R9 June-10
R10 Dec-10
R11 July-11
R12 Dec-11
R13 Jun-12
R14 Dec-12
R15 July-13
R16 Dec-13
R17 June-14
R18 Dec-14
R19 June-15
R20 Dec-15
R21 Jun-16
R22 Dec-16
R23 June-17
R24 Jan-18
R25 Jun-18
R26 Dec-18
R27 Jun-19
R28 Dec-19
R29 May-20
R30 Mar-21
R31 Jun-21
R32 Dec-21
R33 Jun-23
R34 Jun-24

Figure B-4
Regression Plot of Well Concentrations at MWT-27
Ash Landfill Annual Report

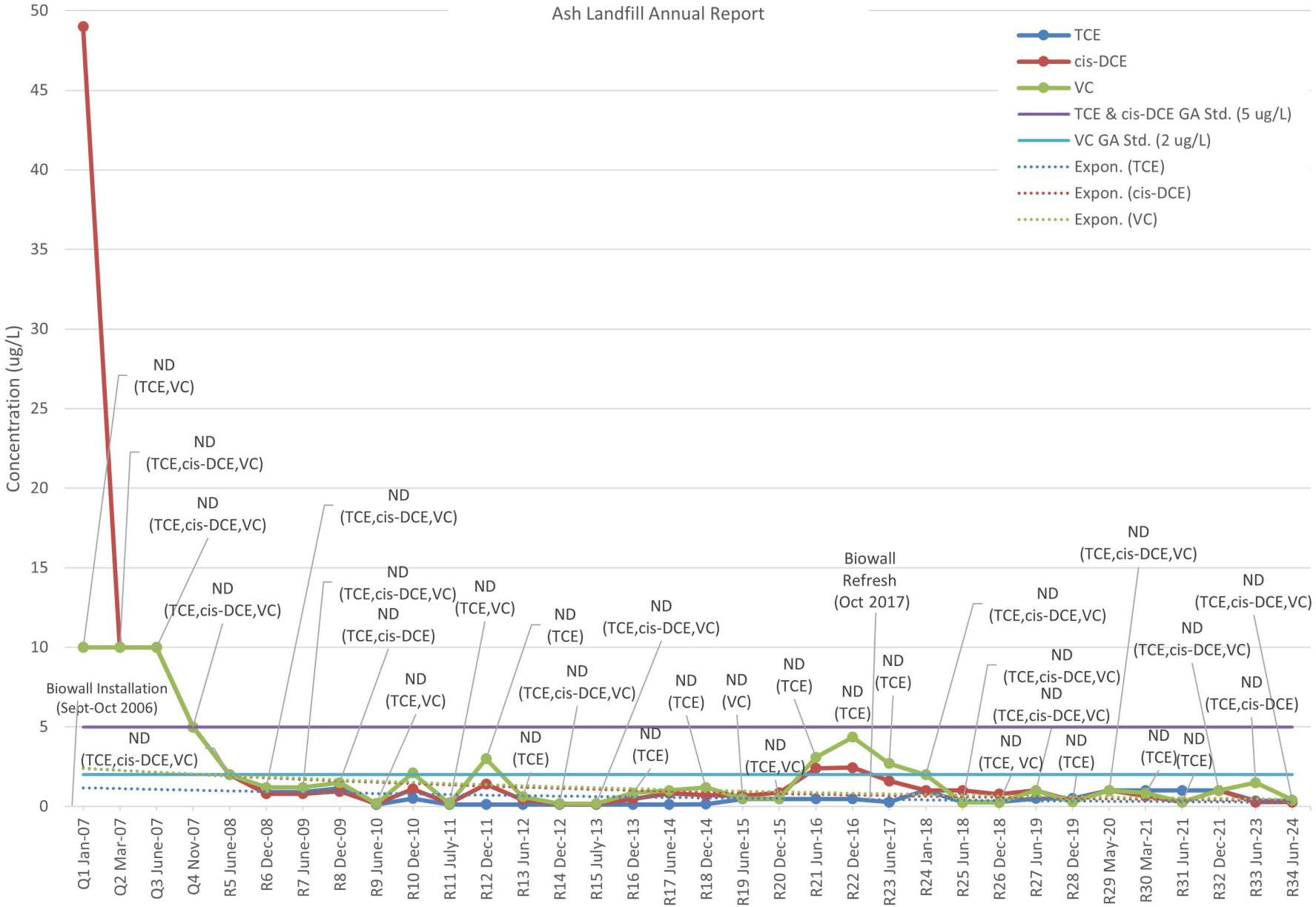


Figure B-5
Regression Plot of Well Concentrations at MWT-28
Ash Landfill Annual Report

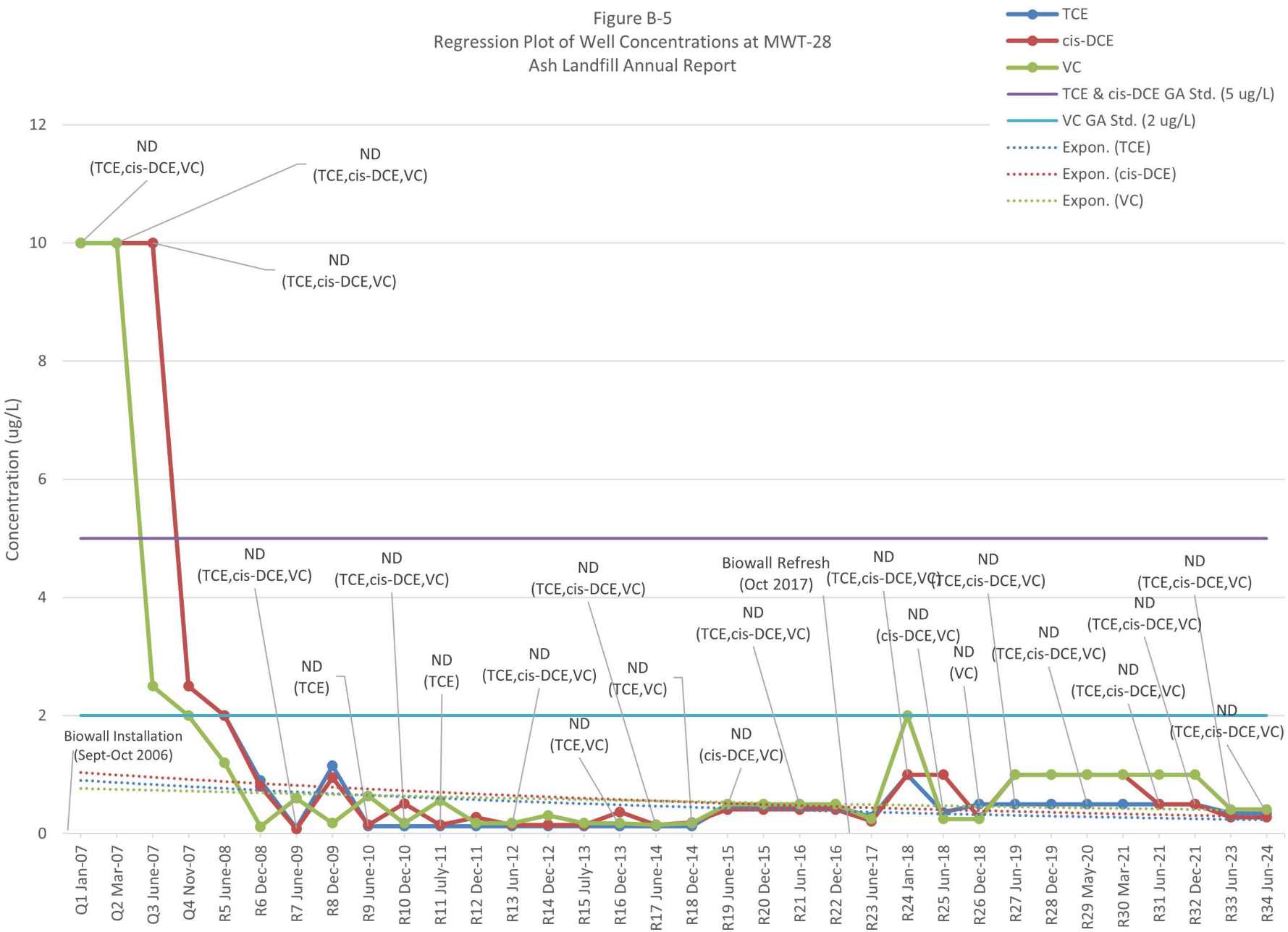


Figure B-6
Regression Plot of Well Concentrations at MWT-29
Ash Landfill Annual Report

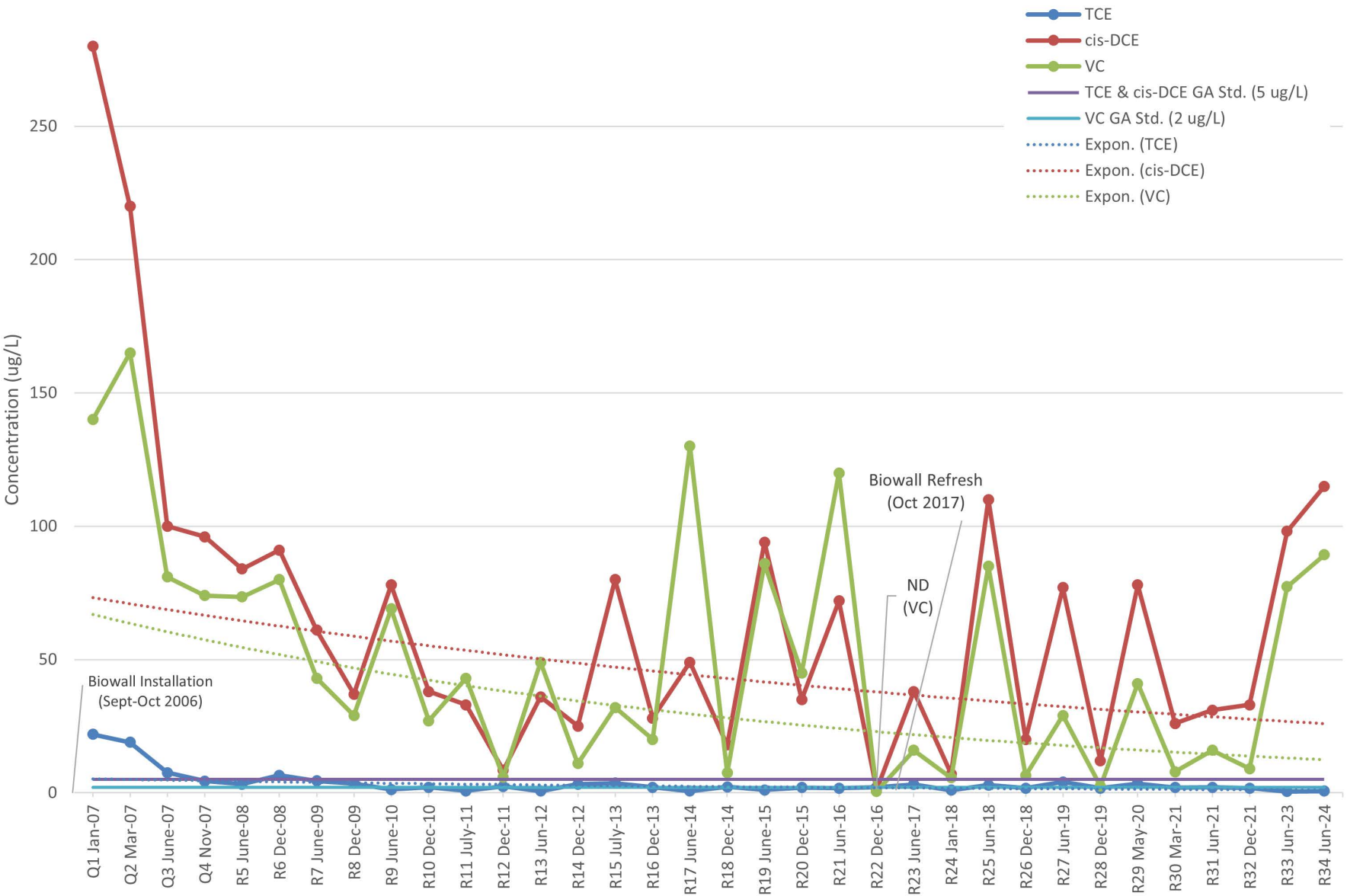


Figure B-7
Regression Plot of Well Concentrations at MWT-22
Ash Landfill Annual Report

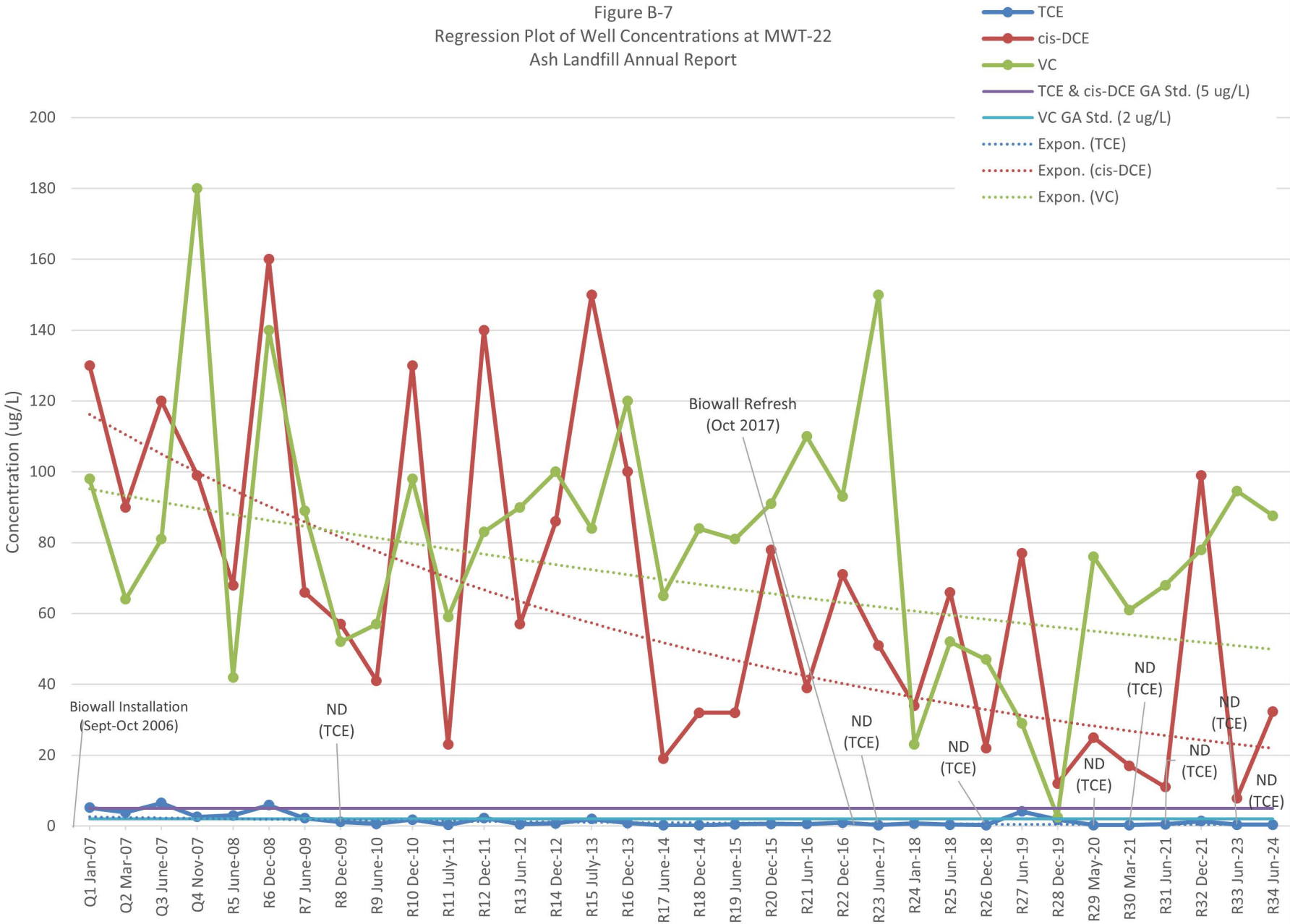


Figure B-8
Regression Plot of Well Concentrations at PT-22
Ash Landfill Annual Report

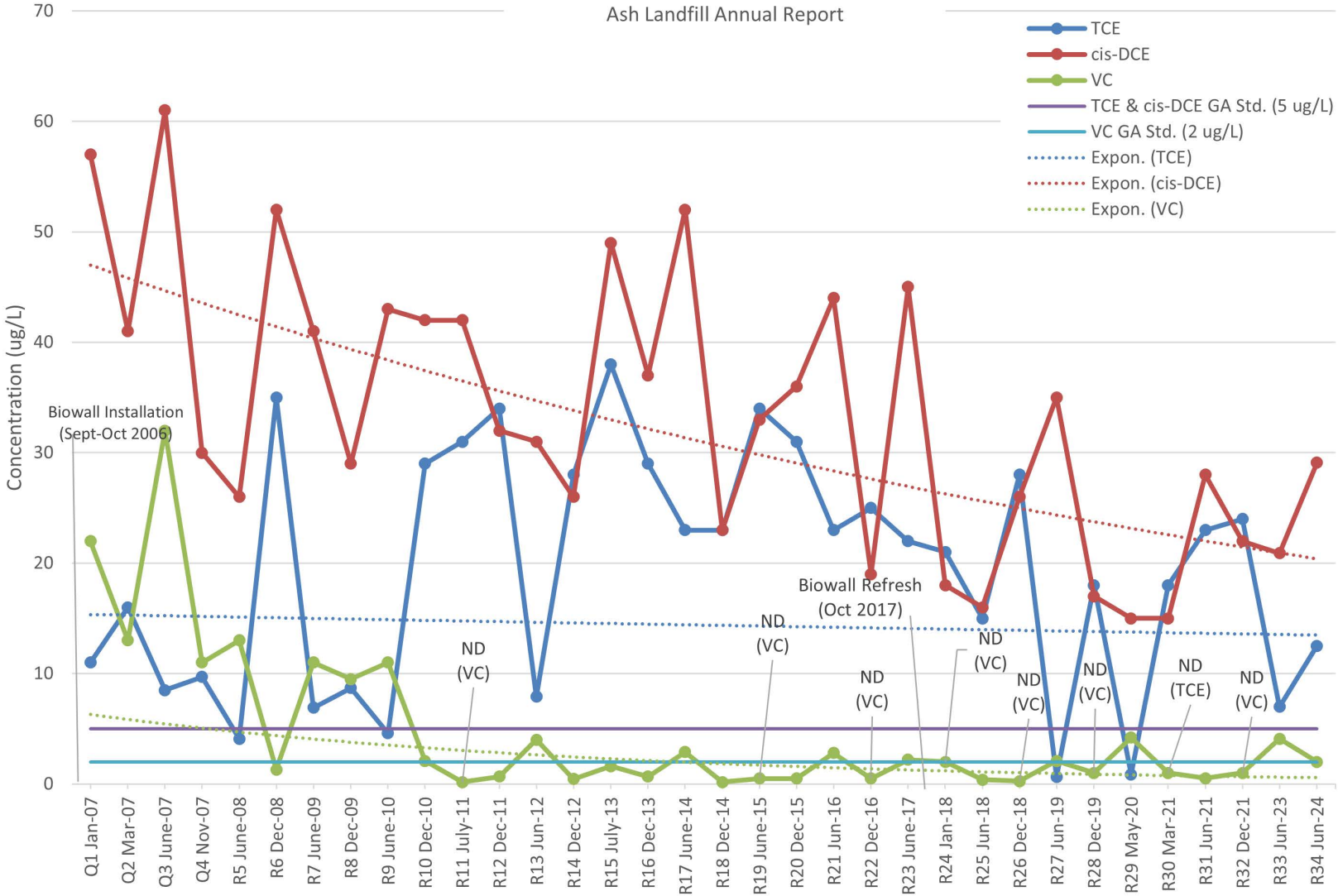


Figure B-9
Regression Plot of Well Concentrations at MWT-23
Ash Landfill Annual Report

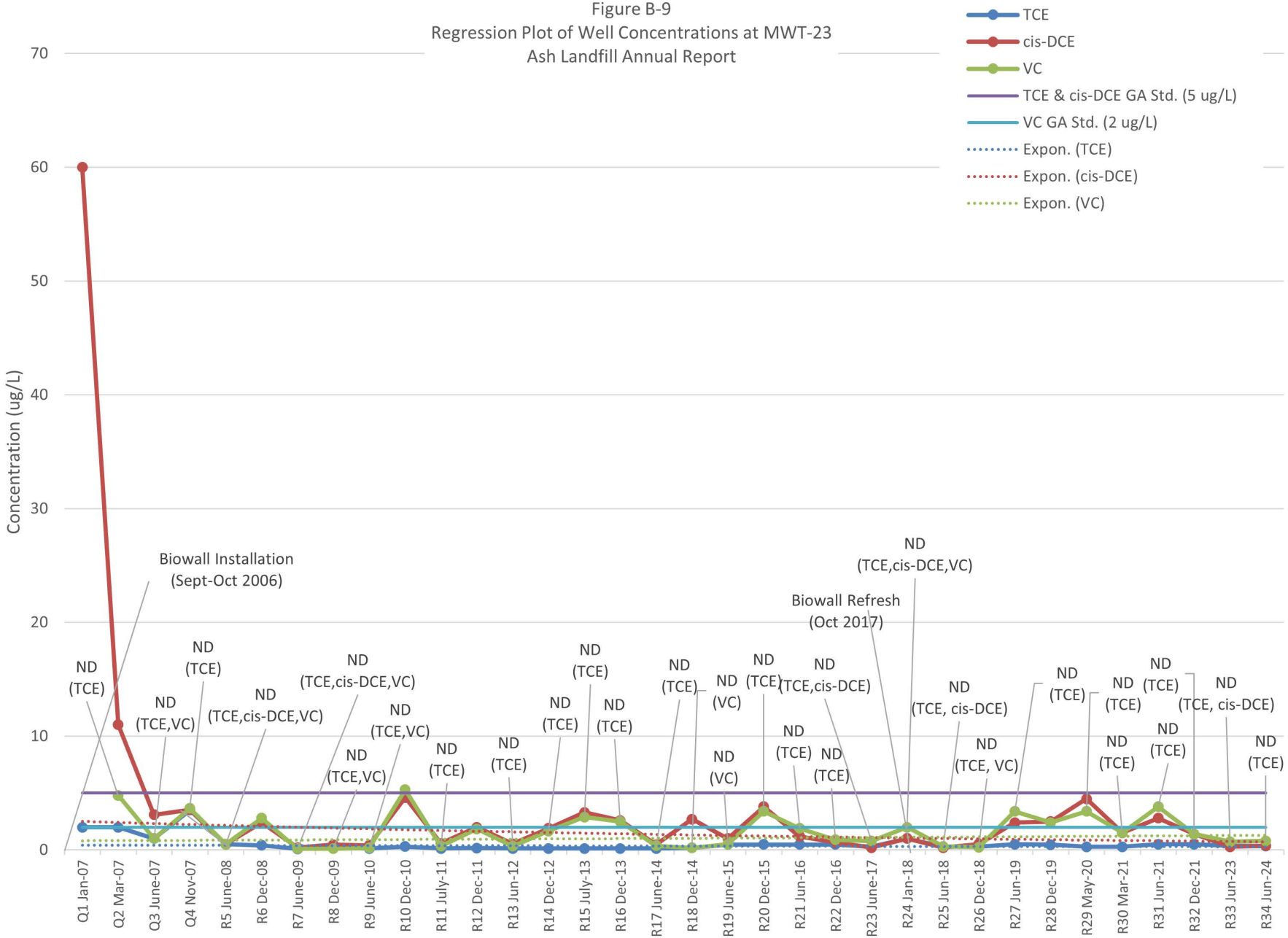
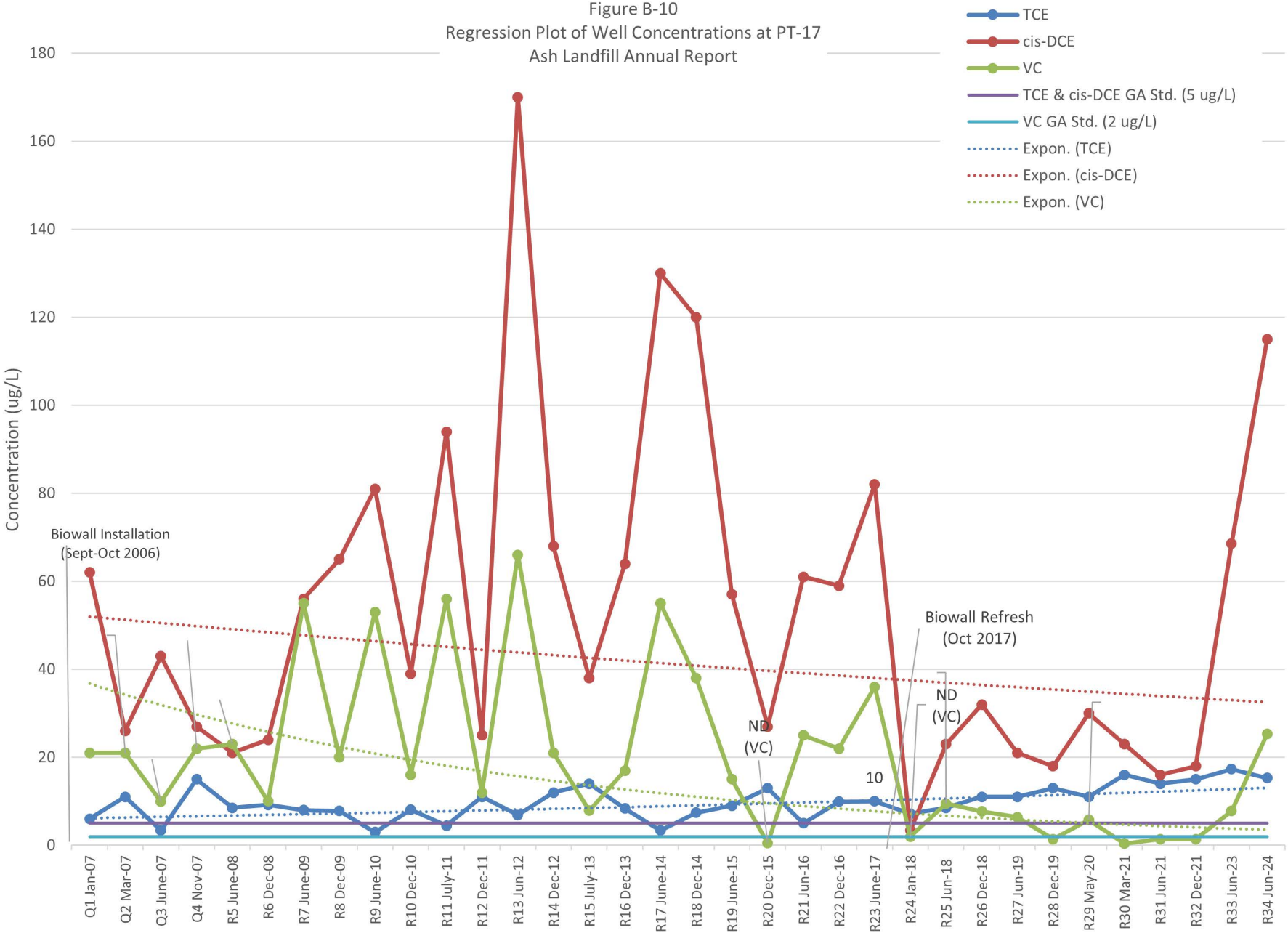


Figure B-10
Regression Plot of Well Concentrations at PT-17
Ash Landfill Annual Report



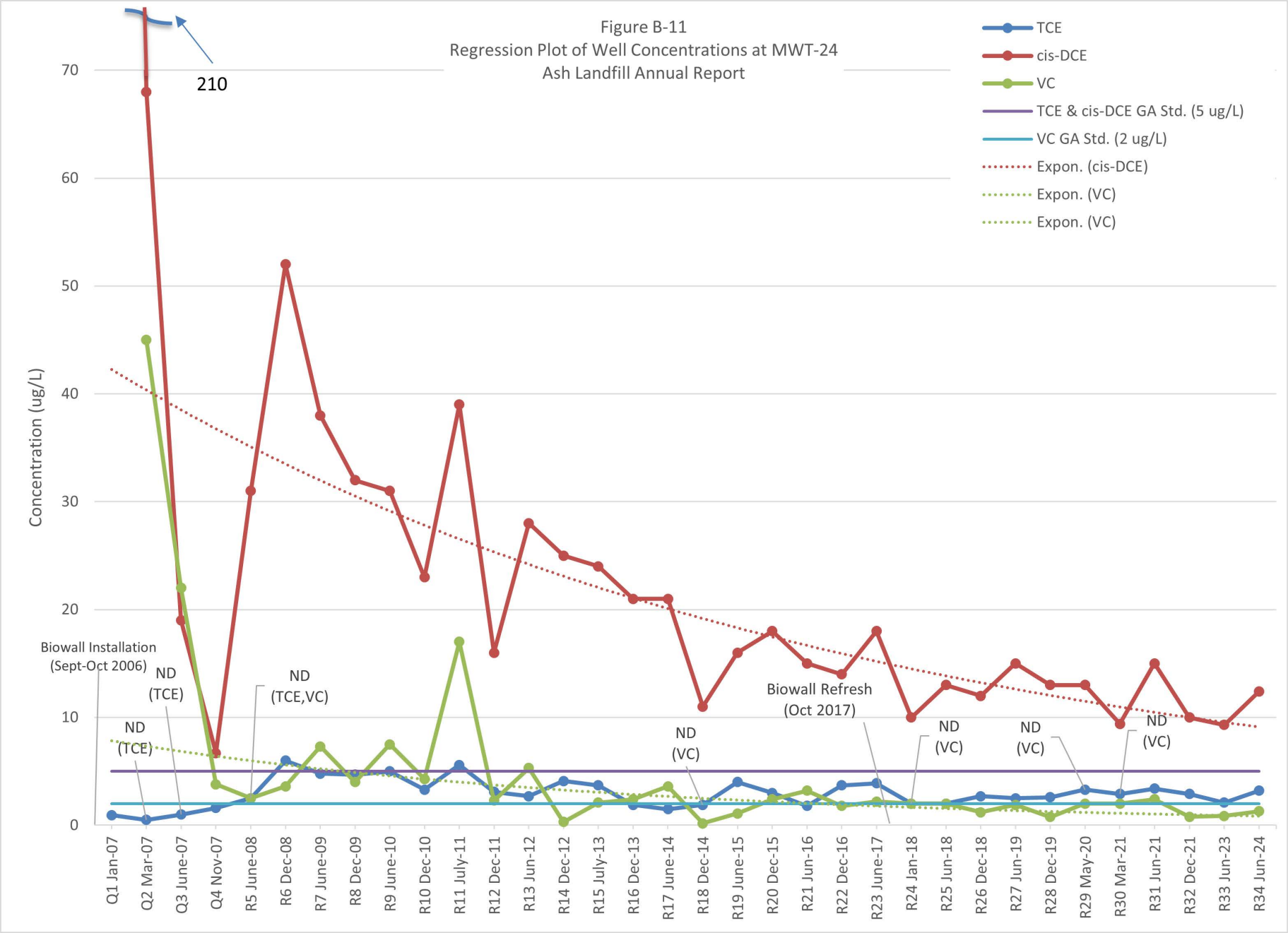


Figure B-11
Regression Plot of Well Concentrations at MWT-24
Ash Landfill Annual Report
TCE
cis-DCE
VC
TCE & cis-DCE GA Std. (5 ug/L)
VC GA Std. (2 ug/L)
Expon. (cis-DCE)
Expon. (VC)
Expon. (VC)
210
Concentration (ug/L)
0
10
20
30
40
50
60
70
Biowall Installation (Sept-Oct 2006)
ND (TCE)
ND (TCE)
ND (TCE,VC)
ND (VC)
Biowall Refresh (Oct 2017)
ND (VC)
ND (VC)
ND (VC)
Q1 Jan-07
Q2 Mar-07
Q3 June-07
Q4 Nov-07
R5 June-08
R6 Dec-08
R7 June-09
R8 Dec-09
R9 June-10
R10 Dec-10
R11 July-11
R12 Dec-11
R13 Jun-12
R14 Dec-12
R15 July-13
R16 Dec-13
R17 June-14
R18 Dec-14
R19 June-15
R20 Dec-15
R21 Jun-16
R22 Dec-16
R23 June-17
R24 Jan-18
R25 Jun-18
R26 Dec-18
R27 Jun-19
R28 Dec-19
R29 May-20
R30 Mar-21
R31 Jun-21
R32 Dec-21
R33 Jun-23
R34 Jun-24

Figure B-12
Regression Plot of Well Concentrations at MWT-7
Ash Landfill Annual Report

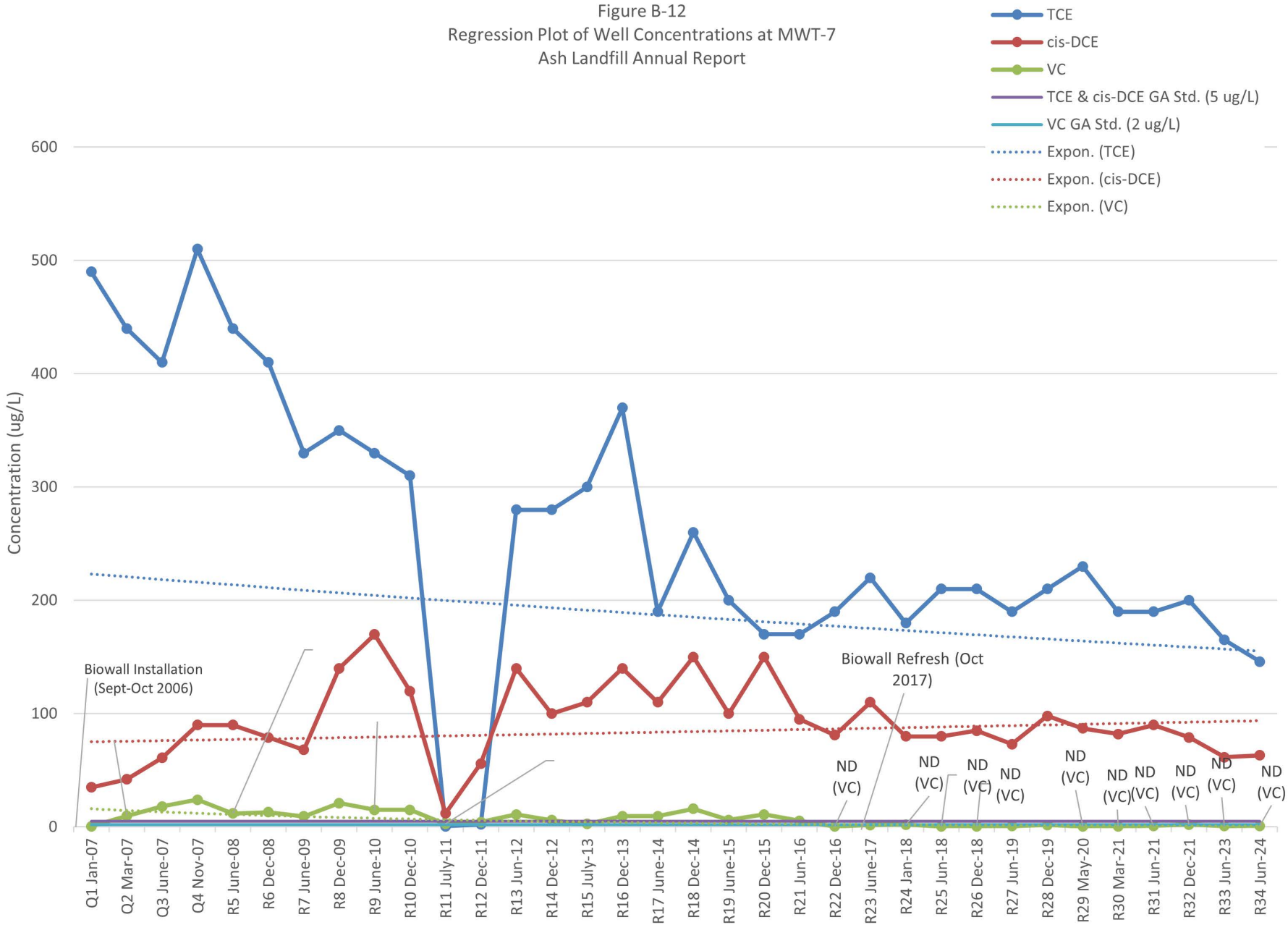
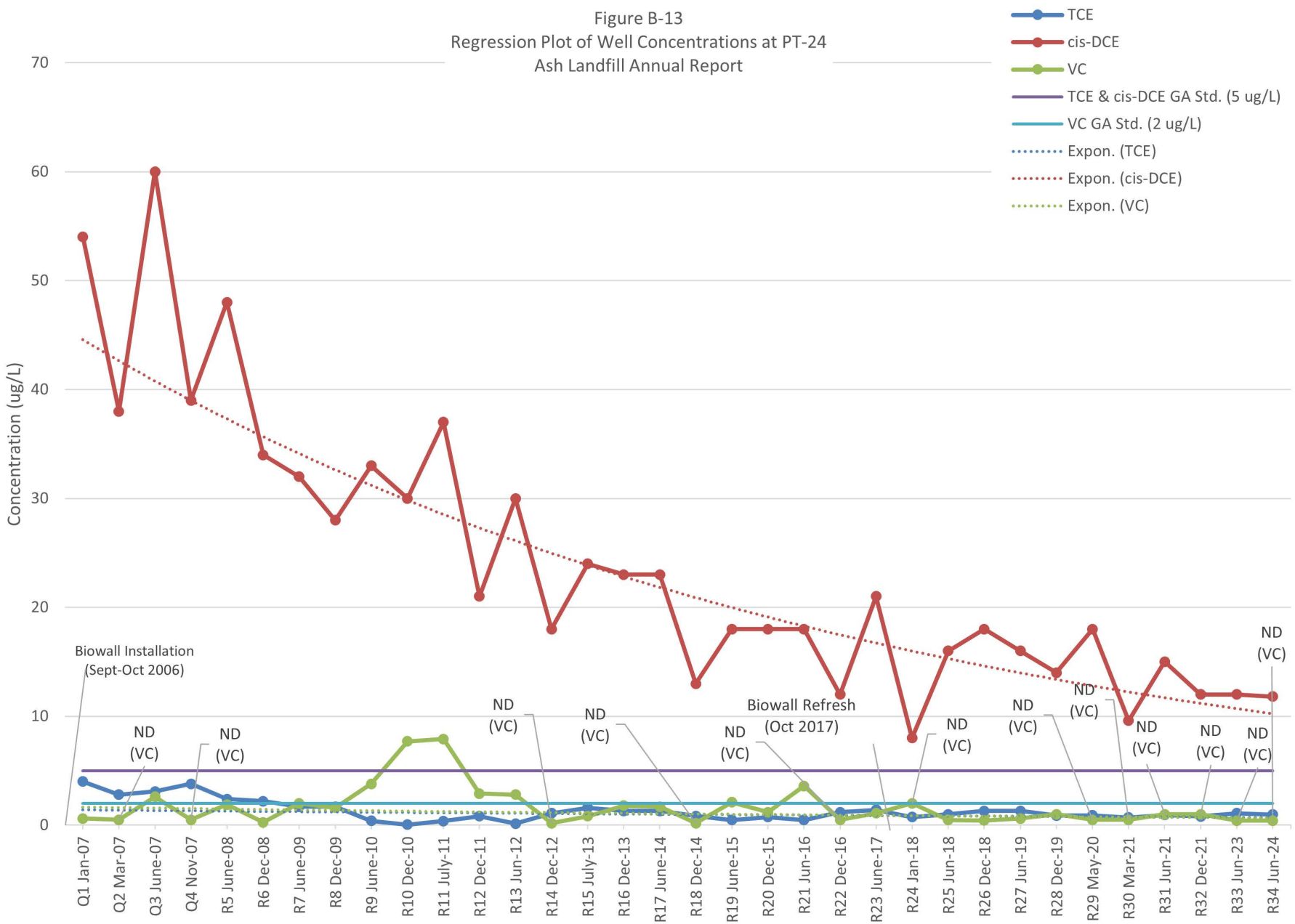


Figure B-13
Regression Plot of Well Concentrations at PT-24
Ash Landfill Annual Report



This page intentionally left blank

Appendix C

Laboratory Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

Former Seneca Army Depot; Romulus, NY

SGS Job Number: FC16561

Sampling Dates: 06/17/24 - 06/18/24

Report to:

EA Science and Technology
269 W Jefferson St
Syracuse, NY 13202
fdesantis@eaest.com; mwright@eaest.com

ATTN: Frank DeSantis

Total number of pages in report: **1056**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

July 26, 2024

Mr. Mike Wright
EA

RE: SGS North America Inc. - Orlando job FC16561 Reissue

Dear Mr. Wright,

The final report for job number FC16561 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The sample ID for -7 has been corrected.

SGS North America Inc.-Orlando apologizes for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

Florida ♦ 4405 Vineland Road ♦ Suite C-15 ♦ Orlando, FL 32811 ♦ tel: 407 425-6700 ♦ fax: 407 425-0707

Table of Contents

Table of Contents

SGS North America Inc.

Sample Summary

EA Engineering

Job No: FC16561

Former Seneca Army Depot; Romulus, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC16561-1	06/17/24	13:15	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MW-60-20240617
FC16561-2	06/18/24	08:55	WHL	06/19/24	AQ	Ground Water	SEAD-AL-PT-17-20240618
FC16561-3	06/18/24	09:00	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-26-20240618
FC16561-4	06/18/24	09:45	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-7-20240618
FC16561-5	06/18/24	10:45	WHL	06/19/24	AQ	Ground Water	SEAD-AL-PT-24-20240618
FC16561-5D	06/18/24	10:45	WHL	06/19/24	AQ	Water Dup/MSD	SEAD-AL-PT-24-20240618
FC16561-5S	06/18/24	10:45	WHL	06/19/24	AQ	Water Matrix Spike	SEAD-AL-PT-24-20240618
FC16561-6	06/18/24	10:30	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-27-20240618
FC16561-7	06/18/24	10:30	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-29-20240618
FC16561-8	06/18/24	00:00	WHL	06/19/24	AQ	Ground Water	SEAD-AL-DUP-01-20240618
FC16561-9	06/18/24	00:00	WHL	06/19/24	AQ	Ground Water	SEAD-AL-DUP-02-20240618
FC16561-10	06/18/24	12:15	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-25-20240618
FC16561-11	06/18/24	12:12	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-22-20240618

Sample Summary
(continued)

EA Engineering

Job No: FC16561

Former Seneca Army Depot; Romulus, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FC16561-12	06/18/24	12:25	WHL	06/19/24	AQ	Ground Water	SEAD-AL-PT-12A-20240618
FC16561-12D	06/18/24	12:25	WHL	06/19/24	AQ	Water Dup/MSD	SEAD-AL-PT-12A-20240618
FC16561-12S	06/18/24	12:25	WHL	06/19/24	AQ	Water Matrix Spike	SEAD-AL-PT-12A-20240618
FC16561-13	06/18/24	13:35	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MW-40-20240618
FC16561-14	06/17/24	00:00	WHL	06/19/24	AQ	Trip Blank Water	TRIP BLANK
FC16561-15	06/18/24	14:15	WHL	06/19/24	AQ	Ground Water	SEAD-AL-MWT-23-20240618

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: EA Engineering **Job No:** FC16561

Site: Former Seneca Army Depot; Romulus, NY **Report Date:** 7/2/2024 1:25:19 PM

On 06/19/2024, 14 Sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 3.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC16561 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2A1911

Sample(s) FC16561-12MS, FC16561-12MSD, FC16561-5MS, FC16561-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for cis-1,2-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC16561-5MSD. Probable cause is due to sample non-homogeneity.

FC16561-6: Sample was treated with an anti-foaming agent.

V2A1911-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V5E2117

Sample(s) FC16561-2MS, FC16561-2MSD were used as the QC samples indicated.

V5E2117-MB: Sample was treated with an anti-foaming agent.

GC Volatiles By Method RSKSOP-147/175

Matrix: AQ **Batch ID:** GLL3143

Sample(s) FC16559-3DUP, FC16559-3MS were used as the QC samples indicated.

Matrix: AQ **Batch ID:** GLL3144

Sample(s) FC16561-5DUP, FC16561-5MS were used as the QC samples indicated.

RPD(s) for Duplicate for Methane are outside control limits for sample FC16561-5DUP. Probable cause is due to sample non-homogeneity.

Matrix: AQ **Batch ID:** GLL3145

Sample(s) FC16768-1MS, FC16768-6DUP were used as the QC samples indicated.

RPD(s) for Duplicate for Methane are outside control limits for sample FC16768-6DUP. Probable cause is due to sample non-homogeneity.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP40145

Sample(s) FC16546-1MS, FC16546-1MSD were used as the QC samples for Chloride, Nitrogen, Nitrate.

FC16561-2 for Chloride: Dilution required based on initial conductivity reading.

FC16561-2 for Nitrogen, Nitrate: Dilution required based on initial conductivity reading.

FC16561-3 for Chloride: Dilution required based on initial conductivity reading.

FC16561-3 for Nitrogen, Nitrate: Dilution required based on initial conductivity reading.

FC16561-6 for Chloride: Dilution required based on initial conductivity reading.

FC16561-6 for Nitrogen, Nitrate: Dilution required based on initial conductivity reading.

FC16561-7 for Nitrogen, Nitrate: Dilution required based on initial conductivity reading.

Matrix: AQ **Batch ID:** GP40147

Sample(s) FC16561-5MS, FC16561-5MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FC16561-5 for Nitrogen, Nitrate: Sample analyzed beyond hold time.
FC16561-8 for Chloride: Dilution required based on initial conductivity reading.
FC16561-8 for Nitrogen, Nitrate: Sample analyzed beyond hold time. Dilution required based on initial conductivity reading.

FC16561-15 for Chloride: Dilution required based on initial conductivity reading.

FC16561-15 for Nitrogen, Nitrate: Dilution required based on initial conductivity reading.

FC16561-15 for Sulfate: Dilution required based on initial conductivity reading.

General Chemistry By Method SM5310 B-14/SW9060A

Matrix: AQ **Batch ID:** GP40152

Sample(s) FC16561-5MS, FC16561-5MSD were used as the QC samples for Total Organic Carbon.

FC16561-6 for Total Organic Carbon: Sample preserved to pH <2 with HCL in lab prior analysis.

FC16561-8 for Total Organic Carbon: Sample preserved to pH <2 with HCL in lab prior analysis.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Report Generation (signature on file)

Summary of Hits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16561-1	**SEAD-AL-MW-60-20240617**					
No hits reported in this sample.						
FC16561-2	**SEAD-AL-PT-17-20240618**					
cis-1,2-Dichloroethylene		115	5.0	2.5	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		13.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		15.3	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		25.3	1.0	0.50	ug/l	SW846 8260D
Methane		1260	1.0	0.50	ug/l	RSKSOP-147/175
Ethane		1.3	1.0	0.50	ug/l	RSKSOP-147/175
Ethene		0.98 J	1.0	0.50	ug/l	RSKSOP-147/175
Nitrogen, Nitrate [a]		0.26 J	0.50	0.25	mg/l	EPA 300/SW846 9056A
Sulfate		27.5	10	5.0	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		3.2	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-3	**SEAD-AL-MWT-26-20240618**					
cis-1,2-Dichloroethylene		4.9	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.7	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		0.43 J	1.0	0.50	ug/l	SW846 8260D
Methane		22.0	0.50	0.25	ug/l	RSKSOP-147/175
Ethane		0.33 J	1.0	0.50	ug/l	RSKSOP-147/175
Chloride [a]		18.1 J	20	10	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		0.50 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Sulfate		542	20	10	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		4.8	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-4	**SEAD-AL-MWT-7-20240618**					
cis-1,2-Dichloroethylene		63.3	2.5	1.3	ug/l	SW846 8260D
Trichloroethylene		146	2.5	1.3	ug/l	SW846 8260D
Methane		0.18 J	0.50	0.25	ug/l	RSKSOP-147/175
Chloride		2.0	2.0	1.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		0.10	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		26.4	2.0	1.0	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.3 J	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-5	**SEAD-AL-PT-24-20240618**					
cis-1,2-Dichloroethylene		11.8	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		0.30 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		0.98 J	1.0	0.50	ug/l	SW846 8260D
Chloride		2.7	2.0	1.0	mg/l	EPA 300/SW846 9056A

Summary of Hits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Nitrogen, Nitrate [b]		0.061 J	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		26.4	2.0	1.0	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.5 J	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-6	**SEAD-AL-MWT-27-20240618**					
Methane		4420	5.0	2.5	ug/l	RSKSOP-147/175
Ethane		2.1	1.0	0.50	ug/l	RSKSOP-147/175
Ethene		0.77 J	1.0	0.50	ug/l	RSKSOP-147/175
Chloride [a]		11.1 J	20	10	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		0.49 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Sulfate		27.2	20	10	mg/l	EPA 300/SW846 9056A
Total Organic Carbon [c]		33.3	4.0	2.0	mg/l	SM5310 B-14/SW9060A
FC16561-7	**SEAD-AL-MWT-29-20240618**					
cis-1,2-Dichloroethylene		115	5.0	2.5	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		3.7	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		0.65 J	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		89.3	1.0	0.50	ug/l	SW846 8260D
Methane		2160	5.0	2.5	ug/l	RSKSOP-147/175
Ethane		4.8	1.0	0.50	ug/l	RSKSOP-147/175
Ethene		10.2	1.0	0.50	ug/l	RSKSOP-147/175
Chloride		38.7	20	10	mg/l	EPA 300/SW846 9056A
Sulfate		91.6	20	10	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		6.5	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-8	**SEAD-AL-DUP-01-20240618**					
Acetone		10.1 J	25	20	ug/l	SW846 8260D
Methane		7140	5.0	2.5	ug/l	RSKSOP-147/175
Ethane		2.0	1.0	0.50	ug/l	RSKSOP-147/175
Ethene		0.71 J	1.0	0.50	ug/l	RSKSOP-147/175
Chloride [a]		11.2 J	20	10	mg/l	EPA 300/SW846 9056A
Sulfate		22.2	20	10	mg/l	EPA 300/SW846 9056A
Total Organic Carbon [c]		32.9	4.0	2.0	mg/l	SM5310 B-14/SW9060A
FC16561-9	**SEAD-AL-DUP-02-20240618**					
cis-1,2-Dichloroethylene		118	5.0	2.5	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		2.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		0.67 J	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		79.5	1.0	0.50	ug/l	SW846 8260D

Summary of Hits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16561-10	**SEAD-AL-MWT-25-20240618**					
cis-1,2-Dichloroethylene		19.2	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		1.9	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		7.2	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		1.3	1.0	0.50	ug/l	SW846 8260D
FC16561-11	**SEAD-AL-MWT-22-20240618**					
cis-1,2-Dichloroethylene		32.3	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		2.9	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		87.6	1.0	0.50	ug/l	SW846 8260D
FC16561-12	**SEAD-AL-PT-12A-20240618**					
cis-1,2-Dichloroethylene		171	10	5.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		6.1	2.0	1.0	ug/l	SW846 8260D
Trichloroethylene		5.9	2.0	1.0	ug/l	SW846 8260D
Vinyl Chloride		20.5	2.0	1.0	ug/l	SW846 8260D
FC16561-13	**SEAD-AL-MW-40-20240618**					
Chloride		1.7 J	2.0	1.0	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate		0.097 J	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		27.4	2.0	1.0	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		1.6 J	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16561-14	**TRIP BLANK**					
No hits reported in this sample.						
FC16561-15	**SEAD-AL-MWT-23-20240618**					
cis-1,2-Dichloroethylene		0.37 J	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		0.80 J	1.0	0.50	ug/l	SW846 8260D
Methane		8270	10	5.0	ug/l	RSKSOP-147/175
Ethane		3.8	1.0	0.50	ug/l	RSKSOP-147/175
Ethene		1.1	1.0	0.50	ug/l	RSKSOP-147/175
Total Organic Carbon		3.9	2.0	1.0	mg/l	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.
(b) Sample analyzed beyond hold time.
(c) Sample preserved to pH < 2 with HCL in lab prior analysis.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-60-20240617		
Lab Sample ID:	FC16561-1	**Date Sampled:**	06/17/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56308.D	1	06/26/24 10:44	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-60-20240617		
Lab Sample ID:	FC16561-1	**Date Sampled:**	06/17/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-17-20240618		
Lab Sample ID:	FC16561-2	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56309.D	1	06/26/24 11:08	JW	n/a	n/a	V2A1911
Run #2	5E47508.D	5	06/27/24 14:30	LT	n/a	n/a	V5E2117

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	115 [a]	5.0	2.5	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	13.4	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-17-20240618		
Lab Sample ID:	FC16561-2	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	15.3	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	25.3	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	95%	79-125%
2037-26-5	Toluene-D8	100%	107%	85-112%
460-00-4	4-Bromofluorobenzene	100%	106%	83-118%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-17-20240618		
Lab Sample ID:	FC16561-2	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90268.D	1	06/26/24 12:53	JR	n/a	n/a	GLL3143
Run #2	LL90306.D	1	06/27/24 13:55	JR	n/a	n/a	GLL3144

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	39.0 ml	5.0 ml	250 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	1260 [a]	1.0	0.50	0.32	ug/l	
74-84-0	Ethane	1.3	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.98	1.0	0.50	0.43	ug/l	J

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-17-20240618		
Lab Sample ID:	FC16561-2	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	5.0 U	10	5.0	4.0	mg/l	5	06/19/24 19:12	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.26 J	0.50	0.25	0.20	mg/l	5	06/19/24 19:12	GN	EPA 300/SW846 9056A
Sulfate	27.5	10	5.0	3.0	mg/l	5	06/19/24 19:12	GN	EPA 300/SW846 9056A
Total Organic Carbon	3.2	2.0	1.0	0.54	mg/l	1	06/22/24 16:39	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-26-20240618		
Lab Sample ID:	FC16561-3	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56310.D	1	06/26/24 11:32	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	4.9	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-26-20240618		
Lab Sample ID:	FC16561-3	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.7	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.43	1.0	0.50	0.41	ug/l	J
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-26-20240618		
Lab Sample ID:	FC16561-3	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90269.D	1	06/26/24 13:01	JR	n/a	n/a	GLL3143
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.5 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	22.0	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.33	1.0	0.50	0.32	ug/l	J
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-26-20240618		
Lab Sample ID:	FC16561-3	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	18.1 J	20	10	8.0	mg/l	10	06/19/24 19:32	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.50 J	1.0	0.50	0.40	mg/l	10	06/19/24 19:32	GN	EPA 300/SW846 9056A
Sulfate	542	20	10	6.0	mg/l	10	06/19/24 19:32	GN	EPA 300/SW846 9056A
Total Organic Carbon	4.8	2.0	1.0	0.54	mg/l	1	06/22/24 17:43	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-7-20240618		
Lab Sample ID:	FC16561-4	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56311.D	2.5	06/26/24 11:56	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	50 U	63	50	25	ug/l	
71-43-2	Benzene	1.3 U	2.5	1.3	0.78	ug/l	
74-97-5	Bromochloromethane	1.3 U	2.5	1.3	1.1	ug/l	
75-27-4	Bromodichloromethane	1.3 U	2.5	1.3	0.61	ug/l	
75-25-2	Bromoform	1.3 U	2.5	1.3	1.0	ug/l	
78-93-3	2-Butanone (MEK)	8.8 U	13	8.8	5.0	ug/l	
75-15-0	Carbon Disulfide	2.5 U	5.0	2.5	1.3	ug/l	
56-23-5	Carbon Tetrachloride	1.3 U	2.5	1.3	0.89	ug/l	
108-90-7	Chlorobenzene	1.3 U	2.5	1.3	0.50	ug/l	
75-00-3	Chloroethane	2.5 U	5.0	2.5	1.7	ug/l	
67-66-3	Chloroform	1.3 U	2.5	1.3	0.75	ug/l	
110-82-7	Cyclohexane	1.3 U	2.5	1.3	0.98	ug/l	
124-48-1	Dibromochloromethane	1.3 U	2.5	1.3	0.69	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U	13	5.0	2.6	ug/l	
106-93-4	1,2-Dibromoethane	2.5 U	5.0	2.5	0.69	ug/l	
75-71-8	Dichlorodifluoromethane	2.5 U	5.0	2.5	1.3	ug/l	
95-50-1	1,2-Dichlorobenzene	1.3 U	2.5	1.3	0.81	ug/l	
541-73-1	1,3-Dichlorobenzene	1.3 U	2.5	1.3	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	1.3 U	2.5	1.3	0.64	ug/l	
75-34-3	1,1-Dichloroethane	1.3 U	2.5	1.3	0.85	ug/l	
107-06-2	1,2-Dichloroethane	1.3 U	2.5	1.3	0.78	ug/l	
75-35-4	1,1-Dichloroethylene	1.3 U	2.5	1.3	0.81	ug/l	
156-59-2	cis-1,2-Dichloroethylene	63.3	2.5	1.3	0.69	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	2.5	1.3	0.55	ug/l	
78-87-5	1,2-Dichloropropane	1.3 U	2.5	1.3	1.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.3 U	2.5	1.3	0.73	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.3 U	2.5	1.3	0.54	ug/l	
100-41-4	Ethylbenzene	1.3 U	2.5	1.3	0.89	ug/l	
76-13-1	Freon 113	1.3 U	2.5	1.3	1.2	ug/l	
591-78-6	2-Hexanone	13 U	25	13	5.0	ug/l	
98-82-8	Isopropylbenzene	1.3 U	2.5	1.3	0.55	ug/l	
79-20-9	Methyl Acetate	25 U	50	25	13	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-7-20240618		
Lab Sample ID:	FC16561-4	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	10 U	13	10	5.0	ug/l	
74-87-3	Methyl Chloride	2.5 U	5.0	2.5	1.3	ug/l	
108-87-2	Methylcyclohexane	1.3 U	2.5	1.3	1.1	ug/l	
75-09-2	Methylene Chloride	10 U	13	10	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	13	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3 U	2.5	1.3	0.57	ug/l	
100-42-5	Styrene	1.3 U	2.5	1.3	0.56	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	2.5	1.3	0.75	ug/l	
127-18-4	Tetrachloroethylene	1.3 U	2.5	1.3	0.54	ug/l	
108-88-3	Toluene	1.3 U	2.5	1.3	0.75	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	1.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	1.3 U	2.5	1.3	0.62	ug/l	
79-00-5	1,1,2-Trichloroethane	1.3 U	2.5	1.3	1.2	ug/l	
79-01-6	Trichloroethylene	146	2.5	1.3	0.86	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	5.0	2.5	1.3	ug/l	
75-01-4	Vinyl Chloride	1.3 U	2.5	1.3	1.0	ug/l	
	m,p-Xylene	2.5 U	5.0	2.5	1.2	ug/l	
95-47-6	o-Xylene	1.3 U	2.5	1.3	0.64	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-7-20240618		
Lab Sample ID:	FC16561-4	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90270.D	1	06/26/24 13:08	JR	n/a	n/a	GLL3143
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.5 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	0.18	0.50	0.25	0.16	ug/l	J
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SEAD-AL-MWT-7-20240618
Lab Sample ID: FC16561-4
Matrix: AQ - Ground Water
Project: Former Seneca Army Depot; Romulus, NY

Date Sampled: 06/18/24
Date Received: 06/19/24
Percent Solids: n/a

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride	2.0	2.0	1.0	0.80	mg/l	1	06/19/24 19:52	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate	0.10	0.10	0.050	0.040	mg/l	1	06/19/24 19:52	GN	EPA 300/SW846 9056A
Sulfate	26.4	2.0	1.0	0.60	mg/l	1	06/19/24 19:52	GN	EPA 300/SW846 9056A
Total Organic Carbon	1.3 J	2.0	1.0	0.54	mg/l	1	06/22/24 18:06	FN	SM5310 B-14/SW9060A

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-24-20240618		
Lab Sample ID:	FC16561-5	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56306.D	1	06/26/24 09:55	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	11.8	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.30	1.0	0.50	0.22	ug/l	J
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-24-20240618		
Lab Sample ID:	FC16561-5	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.98	1.0	0.50	0.35	ug/l	J
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-24-20240618		
Lab Sample ID:	FC16561-5	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90285.D	1	06/27/24 10:26	JR	n/a	n/a	GLL3144
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.9 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	0.25 U	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-24-20240618		
Lab Sample ID:	FC16561-5	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride	2.7	2.0	1.0	0.80	mg/l	1	06/20/24 13:41	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.061 J	0.10	0.050	0.040	mg/l	1	06/20/24 13:41	GN	EPA 300/SW846 9056A
Sulfate	26.4	2.0	1.0	0.60	mg/l	1	06/20/24 13:41	GN	EPA 300/SW846 9056A
Total Organic Carbon	1.5 J	2.0	1.0	0.54	mg/l	1	06/22/24 18:29	FN	SM5310 B-14/SW9060A

(a) Sample analyzed beyond hold time.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-27-20240618		
Lab Sample ID:	FC16561-6	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2A56312.D	1	06/26/24 12:20	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-27-20240618		
Lab Sample ID:	FC16561-6	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-27-20240618		
Lab Sample ID:	FC16561-6	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90271.D	1	06/26/24 13:25	JR	n/a	n/a	GLL3143
Run #2	LL90307.D	10	06/27/24 14:04	JR	n/a	n/a	GLL3144

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.5 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	4420 [a]	5.0	2.5	1.6	ug/l	
74-84-0	Ethane	2.1	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.77	1.0	0.50	0.43	ug/l	J

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-27-20240618		
Lab Sample ID:	FC16561-6	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	11.1 J	20	10	8.0	mg/l	10	06/19/24 20:13	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.49 J	1.0	0.50	0.40	mg/l	10	06/19/24 20:13	GN	EPA 300/SW846 9056A
Sulfate	27.2	20	10	6.0	mg/l	10	06/19/24 20:13	GN	EPA 300/SW846 9056A
Total Organic Carbon [b]	33.3	4.0	2.0	1.8	mg/l	2	06/23/24 13:44	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

(b) Sample preserved to pH < 2 with HCL in lab prior analysis.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD

LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-29-20240618		
Lab Sample ID:	FC16561-7	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56313.D	1	06/26/24 12:44	JW	n/a	n/a	V2A1911
Run #2	5E47509.D	5	06/27/24 14:53	LT	n/a	n/a	V5E2117

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	115 [a]	5.0	2.5	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	3.7	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-29-20240618		
Lab Sample ID:	FC16561-7	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.65	1.0	0.50	0.35	ug/l	J
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	89.3	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	93%	79-125%
2037-26-5	Toluene-D8	101%	106%	85-112%
460-00-4	4-Bromofluorobenzene	99%	104%	83-118%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-29-20240618		
Lab Sample ID:	FC16561-7	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90272.D	1	06/26/24 13:38	JR	n/a	n/a	GLL3143
Run #2	LL90308.D	10	06/27/24 14:11	JR	n/a	n/a	GLL3144

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.5 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	2160 [a]	5.0	2.5	1.6	ug/l	
74-84-0	Ethane	4.8	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	10.2	1.0	0.50	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-29-20240618		
Lab Sample ID:	FC16561-7	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride	38.7	20	10	8.0	mg/l	10	06/19/24 20:33	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.50 U	1.0	0.50	0.40	mg/l	10	06/19/24 20:33	GN	EPA 300/SW846 9056A
Sulfate	91.6	20	10	6.0	mg/l	10	06/19/24 20:33	GN	EPA 300/SW846 9056A
Total Organic Carbon	6.5	2.0	1.0	0.54	mg/l	1	06/22/24 19:59	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-01-20240618		
Lab Sample ID:	FC16561-8	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56314.D	1	06/26/24 13:07	JW	n/a	n/a	V2A1911
Run #2	5E47510.D	1	06/27/24 15:16	LT	n/a	n/a	V5E2117

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	10.1	25	20	10	ug/l	J
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U [a]	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-01-20240618		
Lab Sample ID:	FC16561-8	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	96%	79-125%
2037-26-5	Toluene-D8	100%	104%	85-112%
460-00-4	4-Bromofluorobenzene	99%	105%	83-118%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-01-20240618		
Lab Sample ID:	FC16561-8	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90275.D	1	06/26/24 14:05	JR	n/a	n/a	GLL3143
Run #2	LL90325.D	10	06/28/24 11:56	JR	n/a	n/a	GLL3145

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.2 ml	500 ul	21 Deg. C
Run #2	39.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	7140 [a]	5.0	2.5	1.6	ug/l	
74-84-0	Ethane	2.0	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.71	1.0	0.50	0.43	ug/l	J

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-01-20240618		
Lab Sample ID:	FC16561-8	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	11.2 J	20	10	8.0	mg/l	10	06/20/24 13:14	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	0.50 U	1.0	0.50	0.40	mg/l	10	06/20/24 13:14	GN	EPA 300/SW846 9056A
Sulfate	22.2	20	10	6.0	mg/l	10	06/20/24 13:14	GN	EPA 300/SW846 9056A
Total Organic Carbon [c]	32.9	4.0	2.0	1.8	mg/l	2	06/23/24 14:07	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

(b) Sample analyzed beyond hold time. Dilution required based on initial conductivity reading.

(c) Sample preserved to pH < 2 with HCL in lab prior analysis.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD

LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-02-20240618		
Lab Sample ID:	FC16561-9	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56315.D	1	06/26/24 13:31	JW	n/a	n/a	V2A1911
Run #2	5E47511.D	5	06/27/24 15:39	LT	n/a	n/a	V5E2117

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	118 [a]	5.0	2.5	1.4	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.3	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-DUP-02-20240618		
Lab Sample ID:	FC16561-9	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.67	1.0	0.50	0.35	ug/l	J
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	79.5	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	93%	79-125%
2037-26-5	Toluene-D8	101%	107%	85-112%
460-00-4	4-Bromofluorobenzene	98%	104%	83-118%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-25-20240618		
Lab Sample ID:	FC16561-10	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56316.D	1	06/26/24 13:55	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	19.2	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.9	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-25-20240618		
Lab Sample ID:	FC16561-10	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	7.2	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.3	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-22-20240618		
Lab Sample ID:	FC16561-11	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56317.D	1	06/26/24 14:20	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	32.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.9	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-22-20240618		
Lab Sample ID:	FC16561-11	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	87.6	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-12A-20240618		
Lab Sample ID:	FC16561-12	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56307.D	2	06/26/24 10:20	JW	n/a	n/a	V2A1911
Run #2	2A56320.D	10	06/26/24 15:32	JW	n/a	n/a	V2A1911

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	40 U	50	40	20	ug/l	
71-43-2	Benzene	1.0 U	2.0	1.0	0.62	ug/l	
74-97-5	Bromochloromethane	1.0 U	2.0	1.0	0.90	ug/l	
75-27-4	Bromodichloromethane	1.0 U	2.0	1.0	0.48	ug/l	
75-25-2	Bromoform	1.0 U	2.0	1.0	0.81	ug/l	
78-93-3	2-Butanone (MEK)	7.0 U	10	7.0	4.0	ug/l	
75-15-0	Carbon Disulfide	2.0 U	4.0	2.0	1.1	ug/l	
56-23-5	Carbon Tetrachloride	1.0 U	2.0	1.0	0.71	ug/l	
108-90-7	Chlorobenzene	1.0 U	2.0	1.0	0.40	ug/l	
75-00-3	Chloroethane	2.0 U	4.0	2.0	1.3	ug/l	
67-66-3	Chloroform	1.0 U	2.0	1.0	0.60	ug/l	
110-82-7	Cyclohexane	1.0 U	2.0	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	1.0 U	2.0	1.0	0.55	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	4.0 U	10	4.0	2.1	ug/l	
106-93-4	1,2-Dibromoethane	2.0 U	4.0	2.0	0.55	ug/l	
75-71-8	Dichlorodifluoromethane	2.0 U	4.0	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	1.0 U	2.0	1.0	0.65	ug/l	
541-73-1	1,3-Dichlorobenzene	1.0 U	2.0	1.0	0.43	ug/l	
106-46-7	1,4-Dichlorobenzene	1.0 U	2.0	1.0	0.51	ug/l	
75-34-3	1,1-Dichloroethane	1.0 U	2.0	1.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	1.0 U	2.0	1.0	0.62	ug/l	
75-35-4	1,1-Dichloroethylene	1.0 U	2.0	1.0	0.64	ug/l	
156-59-2	cis-1,2-Dichloroethylene	171 [a]	10	5.0	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	6.1	2.0	1.0	0.44	ug/l	
78-87-5	1,2-Dichloropropane	1.0 U	2.0	1.0	0.85	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	2.0	1.0	0.58	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	2.0	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	1.0 U	2.0	1.0	0.71	ug/l	
76-13-1	Freon 113	1.0 U	2.0	1.0	0.96	ug/l	
591-78-6	2-Hexanone	10 U	20	10	4.0	ug/l	
98-82-8	Isopropylbenzene	1.0 U	2.0	1.0	0.44	ug/l	
79-20-9	Methyl Acetate	20 U	40	20	10	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-12A-20240618		
Lab Sample ID:	FC16561-12	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	8.0 U	10	8.0	4.0	ug/l	
74-87-3	Methyl Chloride	2.0 U	4.0	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	1.0 U	2.0	1.0	0.87	ug/l	
75-09-2	Methylene Chloride	8.0 U	10	8.0	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	4.0 U	10	4.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0 U	2.0	1.0	0.46	ug/l	
100-42-5	Styrene	1.0 U	2.0	1.0	0.44	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	2.0	1.0	0.60	ug/l	
127-18-4	Tetrachloroethylene	1.0 U	2.0	1.0	0.43	ug/l	
108-88-3	Toluene	1.0 U	2.0	1.0	0.60	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	4.0	2.0	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.0 U	4.0	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.0 U	2.0	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	1.0 U	2.0	1.0	0.93	ug/l	
79-01-6	Trichloroethylene	5.9	2.0	1.0	0.69	ug/l	
75-69-4	Trichlorofluoromethane	2.0 U	4.0	2.0	1.0	ug/l	
75-01-4	Vinyl Chloride	20.5	2.0	1.0	0.82	ug/l	
	m,p-Xylene	2.0 U	4.0	2.0	0.93	ug/l	
95-47-6	o-Xylene	1.0 U	2.0	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	79-125%
2037-26-5	Toluene-D8	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	83-118%

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-40-20240618		
Lab Sample ID:	FC16561-13	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56318.D	1	06/26/24 14:44	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-40-20240618		
Lab Sample ID:	FC16561-13	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-40-20240618		
Lab Sample ID:	FC16561-13	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90288.D	1	06/27/24 10:51	JR	n/a	n/a	GLL3144
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	0.25 U	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SEAD-AL-MW-40-20240618
Lab Sample ID: FC16561-13
Matrix: AQ - Ground Water
Project: Former Seneca Army Depot; Romulus, NY

Date Sampled: 06/18/24
Date Received: 06/19/24
Percent Solids: n/a

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride	1.7 J	2.0	1.0	0.80	mg/l	1	06/20/24 11:13	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate	0.097 J	0.10	0.050	0.040	mg/l	1	06/20/24 11:13	GN	EPA 300/SW846 9056A
Sulfate	27.4	2.0	1.0	0.60	mg/l	1	06/20/24 11:13	GN	EPA 300/SW846 9056A
Total Organic Carbon	1.6 J	2.0	1.0	0.54	mg/l	1	06/22/24 20:45	FN	SM5310 B-14/SW9060A

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16561-14	**Date Sampled:**	06/17/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56305.D	1	06/26/24 09:31	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16561-14	**Date Sampled:**	06/17/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16561-14	**Date Sampled:**	06/17/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90276.D	1	06/26/24 14:14	JR	n/a	n/a	GLL3143
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.5 ml	4.9 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	0.25 U	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-23-20240618		
Lab Sample ID:	FC16561-15	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56319.D	1	06/26/24 15:08	JW	n/a	n/a	V2A1911
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.37	1.0	0.50	0.28	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-23-20240618		
Lab Sample ID:	FC16561-15	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.80	1.0	0.50	0.41	ug/l	J
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-23-20240618		
Lab Sample ID:	FC16561-15	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90289.D	1	06/27/24 10:58	JR	n/a	n/a	GLL3144
Run #2	LL90326.D	20	06/28/24 12:03	JR	n/a	n/a	GLL3145

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	8270 [a]	10	5.0	3.2	ug/l	
74-84-0	Ethane	3.8	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	1.1	1.0	0.50	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-23-20240618		
Lab Sample ID:	FC16561-15	**Date Sampled:**	06/18/24
Matrix:	AQ - Ground Water	**Date Received:**	06/19/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	5.0 U	10	5.0	4.0	mg/l	5	06/20/24 11:34	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]	0.25 U	0.50	0.25	0.20	mg/l	5	06/20/24 11:34	GN	EPA 300/SW846 9056A
Sulfate [a]	5.0 U	10	5.0	3.0	mg/l	5	06/20/24 11:34	GN	EPA 300/SW846 9056A
Total Organic Carbon	3.9	2.0	1.0	0.54	mg/l	1	06/22/24 21:08	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC16561 PAGE 1 OF 2

SGS - ORLANDO Quote # PO #

Client / Reporting Information

Company Name: EA Engineering
Address: 333 W Washington St
City: Syracuse State: NY Zip: 13202
Project Contact: mwright@eaest.com Email: fdisantis@eaest.com
Phone #:
Sampler(s) Name(s) (Printed) Sampler 1: MW Sampler 2: KC MH

Project Information

Project Name: Seneca Army Depot
Street: Ash Landfill
City: Romulus State: NY
Project #
Fax #
Client Purchase Order #

Analytical Information

VOC; TOC; DISS 6995; SO4, NO3, O, CHL

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	VOC	TOC	DISS 6995	SO4, NO3, O, CHL	LAB USE ONLY
1	SEAD-AL-MW-60-20240617	6/17/24	1315	MW	GW	3			X							X				
2	SEAD-AL-PT-17-20240618	6/18/24	0855	MW	GW	9			X							X	X	X	X	
3	SEAD-AL-MWT-28-20240618	6/14/24	0900	MW	GW	9			X							X	X	X	X	
4	SEAD-AL-MWT-7-20240618	6/14/24	0945	MW	GW	9			X							X	X	X	X	
5	SEAD-AL-PT-21-20240618	6/14/24	1045	MW	GW	18			X							X	X	X	X	
6	SEAD-AL-MWT-27-20240618	6/14/24	1030	MW	GW	9			X							X	X	X	X	
7	SEAD-AL-MWT-28-20240618	6/14/24	1030	MW	GW	9			X							X	X	X	X	
8	SEAD-AL-DUP-01-20240618	6/18/24	—	MW	GW	9			X							X	X	X	X	
9	SEAD-AL-DUP-02-20240618	6/18/24	—	MW	GW	3			X							X				
10	SEAD-AL-MWT-25-20240618	6/18/24	1245	MW	GW	3			X							X				
11	SEAD-AL-MWT-22-20240618	6/19/24	1212	MW	GW	3			X							X				
12	SEAD-AL-PT12A-20240618	6/18/24	1255	MW	GW	9			X							X				

INITIAL ASSESSMENT
LABEL VERIFICATION

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S NYSDEC

Comments / Remarks

PT-24 MS/MSD ALL
[illegible] MS/MSD VOC PT-22 12A

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	6/18/1600	2	3		4 06/19/24 1000
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 3.8 4.2 IR #1

http://www.sgs.com/en/terms-and-conditions

FC16561: Chain of Custody
Page 1 of 4

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC16561 PAGE 2 OF 2

SGS - ORLANDO Quote #

Client / Reporting Information	Project Information
Company Name:	Project Name:
Address: SAME AS	Street
City: State: Zip: PAGE	City State
Project Contact: Email:	Project # 1
Phone #:	Fax #
Sampler(s) Name(s) (Printed) Sampler 1: Sampler 2:	Client Purchase Order #

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC	TOC	9056 Nitrate, Chl	504	Analytical Information	Matrix Code
13	SEAD-AL-MW-40-20240618	6/18/24	1335	MW	GW	9			X							X	X	X	X		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL- Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid
14	TRIP Blank	—	—	Lab	WW	2			X							X		X	-		LAB USE ONLY
15	SEAD-AL-MW-23-20240619	6/19/24	1415	MW	GW	9			X							F	X	X	X		

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH* SAME AS PAGE 1
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULDT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		6/19/24 1600	2	3		4 06/19/24 1600
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

SGS - Orlando Sample Receipt Summary

Job Number: fc16561 **Client:** EA ENGINEERING **Project:** SENECA ARMY DEPOT

Date / Time Received: 6/19/2024 10:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7024 6629 8593

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8); Cooler 2: (4.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.4); Cooler 2: (3.8);

Cooler Information	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Sufficient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar Received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: 226422 pH 10-12: Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #

Comments

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 6/19/2024 2:02:19 PM Reviewer: Date:

Job Change Order: FC16561

Requested Date:	6/21/2024	**Received Date:**	6/19/2024
Account Name:	EA Engineering	**Due Date:**	6/21/2024
Project Description:	Former Seneca Army Depot; Romulus, NY	**Deliverable:**	FULT1
C/O Initiated By:	ANDREA_C **PM:** AC	**TAT (Days):**	14

==========

Sample #:	FC16561-3	**Dept:**	LOGIN
Client ID:	SEAD-AL-MWT-26-20240618	**TAT:**	14
Change:	Please change the sample ID from 28 to 26.		

FC16561: Chain of Custody
Page 4 of 4

Above Changes Per: Michael Wright **Date/Time:** 6/21/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2A1911	SW846 8260D						
V2A1911-BS	67-64-1	Acetone	BSP	REC	108	%	39-160
V2A1911-BS	71-43-2	Benzene	BSP	REC	97	%	79-120
V2A1911-BS	74-97-5	Bromochloromethane	BSP	REC	92	%	78-123
V2A1911-BS	75-27-4	Bromodichloromethane	BSP	REC	90	%	79-125
V2A1911-BS	75-25-2	Bromoform	BSP	REC	103	%	66-130
V2A1911-BS	78-93-3	2-Butanone (MEK)	BSP	REC	98	%	56-143
V2A1911-BS	75-15-0	Carbon Disulfide	BSP	REC	87	%	64-133
V2A1911-BS	56-23-5	Carbon Tetrachloride	BSP	REC	98	%	72-136
V2A1911-BS	108-90-7	Chlorobenzene	BSP	REC	95	%	82-118
V2A1911-BS	75-00-3	Chloroethane	BSP	REC	98	%	60-138
V2A1911-BS	67-66-3	Chloroform	BSP	REC	100	%	79-124
V2A1911-BS	110-82-7	Cyclohexane	BSP	REC	94	%	71-130
V2A1911-BS	124-48-1	Dibromochloromethane	BSP	REC	105	%	74-126
V2A1911-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	110	%	62-128
V2A1911-BS	106-93-4	1,2-Dibromoethane	BSP	REC	103	%	77-121
V2A1911-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	106	%	32-152
V2A1911-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	96	%	80-119
V2A1911-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	94	%	80-119
V2A1911-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	94	%	79-118
V2A1911-BS	75-34-3	1,1-Dichloroethane	BSP	REC	91	%	77-125
V2A1911-BS	107-06-2	1,2-Dichloroethane	BSP	REC	96	%	73-128
V2A1911-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	94	%	71-131
V2A1911-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	94	%	78-123
V2A1911-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	92	%	75-124
V2A1911-BS	78-87-5	1,2-Dichloropropane	BSP	REC	99	%	78-122
V2A1911-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	100	%	75-124
V2A1911-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	99	%	73-127
V2A1911-BS	100-41-4	Ethylbenzene	BSP	REC	96	%	79-121
V2A1911-BS	76-13-1	Freon 113	BSP	REC	99	%	70-136
V2A1911-BS	591-78-6	2-Hexanone	BSP	REC	106	%	57-139
V2A1911-BS	98-82-8	Isopropylbenzene	BSP	REC	92	%	72-131
V2A1911-BS	79-20-9	Methyl Acetate	BSP	REC	102	%	56-136
V2A1911-BS	74-83-9	Methyl Bromide	BSP	REC	101	%	53-141
V2A1911-BS	74-87-3	Methyl Chloride	BSP	REC	97	%	50-139
V2A1911-BS	108-87-2	Methylcyclohexane	BSP	REC	96	%	72-132
V2A1911-BS	75-09-2	Methylene Chloride	BSP	REC	99	%	74-124
V2A1911-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	104	%	67-130
V2A1911-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	71-124
V2A1911-BS	100-42-5	Styrene	BSP	REC	95	%	78-123
V2A1911-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	100	%	71-121
V2A1911-BS	127-18-4	Tetrachloroethylene	BSP	REC	100	%	74-129
V2A1911-BS	108-88-3	Toluene	BSP	REC	97	%	80-121

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2A1911-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	96	%	69-129
V2A1911-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	96	%	69-130
V2A1911-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	92	%	74-131
V2A1911-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	95	%	80-119
V2A1911-BS	79-01-6	Trichloroethylene	BSP	REC	96	%	79-123
V2A1911-BS	75-69-4	Trichlorofluoromethane	BSP	REC	100	%	65-141
V2A1911-BS	75-01-4	Vinyl Chloride	BSP	REC	94	%	58-137
V2A1911-BS		m,p-Xylene	BSP	REC	94	%	80-121
V2A1911-BS	95-47-6	o-Xylene	BSP	REC	92	%	78-122
V2A1911-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	97	%	80-119
V2A1911-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	99	%	81-118
V2A1911-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
V2A1911-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	99	%	85-114
FC16561-12MS	67-64-1	Acetone	MS	REC	100	%	39-160
FC16561-12MS	71-43-2	Benzene	MS	REC	90	%	79-120
FC16561-12MS	74-97-5	Bromochloromethane	MS	REC	90	%	78-123
FC16561-12MS	75-27-4	Bromodichloromethane	MS	REC	86	%	79-125
FC16561-12MS	75-25-2	Bromoform	MS	REC	92	%	66-130
FC16561-12MS	78-93-3	2-Butanone (MEK)	MS	REC	98	%	56-143
FC16561-12MS	75-15-0	Carbon Disulfide	MS	REC	75	%	64-133
FC16561-12MS	56-23-5	Carbon Tetrachloride	MS	REC	83	%	72-136
FC16561-12MS	108-90-7	Chlorobenzene	MS	REC	91	%	82-118
FC16561-12MS	75-00-3	Chloroethane	MS	REC	93	%	60-138
FC16561-12MS	67-66-3	Chloroform	MS	REC	94	%	79-124
FC16561-12MS	110-82-7	Cyclohexane	MS	REC	87	%	71-130
FC16561-12MS	124-48-1	Dibromochloromethane	MS	REC	98	%	74-126
FC16561-12MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	99	%	62-128
FC16561-12MS	106-93-4	1,2-Dibromoethane	MS	REC	103	%	77-121
FC16561-12MS	75-71-8	Dichlorodifluoromethane	MS	REC	94	%	32-152
FC16561-12MS	95-50-1	1,2-Dichlorobenzene	MS	REC	94	%	80-119
FC16561-12MS	541-73-1	1,3-Dichlorobenzene	MS	REC	90	%	80-119
FC16561-12MS	106-46-7	1,4-Dichlorobenzene	MS	REC	91	%	79-118
FC16561-12MS	75-34-3	1,1-Dichloroethane	MS	REC	84	%	77-125
FC16561-12MS	107-06-2	1,2-Dichloroethane	MS	REC	96	%	73-128
FC16561-12MS	75-35-4	1,1-Dichloroethylene	MS	REC	86	%	71-131
FC16561-12MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	68	%	78-123
FC16561-12MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	83	%	75-124
FC16561-12MS	78-87-5	1,2-Dichloropropane	MS	REC	95	%	78-122
FC16561-12MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	92	%	75-124
FC16561-12MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	93	%	73-127
FC16561-12MS	100-41-4	Ethylbenzene	MS	REC	89	%	79-121
FC16561-12MS	76-13-1	Freon 113	MS	REC	90	%	70-136
FC16561-12MS	591-78-6	2-Hexanone	MS	REC	112	%	57-139
FC16561-12MS	98-82-8	Isopropylbenzene	MS	REC	86	%	72-131
FC16561-12MS	79-20-9	Methyl Acetate	MS	REC	102	%	56-136

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-12MS	74-83-9	Methyl Bromide	MS	REC	89	%	53-141
FC16561-12MS	74-87-3	Methyl Chloride	MS	REC	87	%	50-139
FC16561-12MS	108-87-2	Methylcyclohexane	MS	REC	92	%	72-132
FC16561-12MS	75-09-2	Methylene Chloride	MS	REC	94	%	74-124
FC16561-12MS	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	108	%	67-130
FC16561-12MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	98	%	71-124
FC16561-12MS	100-42-5	Styrene	MS	REC	92	%	78-123
FC16561-12MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	96	%	71-121
FC16561-12MS	127-18-4	Tetrachloroethylene	MS	REC	90	%	74-129
FC16561-12MS	108-88-3	Toluene	MS	REC	91	%	80-121
FC16561-12MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	96	%	69-129
FC16561-12MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	94	%	69-130
FC16561-12MS	71-55-6	1,1,1-Trichloroethane	MS	REC	82	%	74-131
FC16561-12MS	79-00-5	1,1,2-Trichloroethane	MS	REC	96	%	80-119
FC16561-12MS	79-01-6	Trichloroethylene	MS	REC	86	%	79-123
FC16561-12MS	75-69-4	Trichlorofluoromethane	MS	REC	93	%	65-141
FC16561-12MS	75-01-4	Vinyl Chloride	MS	REC	83	%	58-137
FC16561-12MS		m,p-Xylene	MS	REC	88	%	80-121
FC16561-12MS	95-47-6	o-Xylene	MS	REC	86	%	78-122
FC16561-12MS	1868-53-7	Dibromofluoromethane	MS	SURR	95	%	80-119
FC16561-12MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	99	%	81-118
FC16561-12MS	2037-26-5	Toluene-D8	MS	SURR	102	%	89-112
FC16561-12MS	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC16561-5MS	67-64-1	Acetone	MS	REC	91	%	39-160
FC16561-5MS	71-43-2	Benzene	MS	REC	94	%	79-120
FC16561-5MS	74-97-5	Bromochloromethane	MS	REC	91	%	78-123
FC16561-5MS	75-27-4	Bromodichloromethane	MS	REC	87	%	79-125
FC16561-5MS	75-25-2	Bromoform	MS	REC	87	%	66-130
FC16561-5MS	78-93-3	2-Butanone (MEK)	MS	REC	91	%	56-143
FC16561-5MS	75-15-0	Carbon Disulfide	MS	REC	84	%	64-133
FC16561-5MS	56-23-5	Carbon Tetrachloride	MS	REC	94	%	72-136
FC16561-5MS	108-90-7	Chlorobenzene	MS	REC	93	%	82-118
FC16561-5MS	75-00-3	Chloroethane	MS	REC	96	%	60-138
FC16561-5MS	67-66-3	Chloroform	MS	REC	100	%	79-124
FC16561-5MS	110-82-7	Cyclohexane	MS	REC	98	%	71-130
FC16561-5MS	124-48-1	Dibromochloromethane	MS	REC	98	%	74-126
FC16561-5MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	96	%	62-128
FC16561-5MS	106-93-4	1,2-Dibromoethane	MS	REC	98	%	77-121
FC16561-5MS	75-71-8	Dichlorodifluoromethane	MS	REC	102	%	32-152
FC16561-5MS	95-50-1	1,2-Dichlorobenzene	MS	REC	94	%	80-119
FC16561-5MS	541-73-1	1,3-Dichlorobenzene	MS	REC	92	%	80-119
FC16561-5MS	106-46-7	1,4-Dichlorobenzene	MS	REC	92	%	79-118
FC16561-5MS	75-34-3	1,1-Dichloroethane	MS	REC	91	%	77-125
FC16561-5MS	107-06-2	1,2-Dichloroethane	MS	REC	96	%	73-128
FC16561-5MS	75-35-4	1,1-Dichloroethylene	MS	REC	95	%	71-131

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-5MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	92	%	78-123
FC16561-5MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	90	%	75-124
FC16561-5MS	78-87-5	1,2-Dichloropropane	MS	REC	99	%	78-122
FC16561-5MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	94	%	75-124
FC16561-5MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	90	%	73-127
FC16561-5MS	100-41-4	Ethylbenzene	MS	REC	93	%	79-121
FC16561-5MS	76-13-1	Freon 113	MS	REC	101	%	70-136
FC16561-5MS	591-78-6	2-Hexanone	MS	REC	102	%	57-139
FC16561-5MS	98-82-8	Isopropylbenzene	MS	REC	92	%	72-131
FC16561-5MS	79-20-9	Methyl Acetate	MS	REC	94	%	56-136
FC16561-5MS	74-83-9	Methyl Bromide	MS	REC	72	%	53-141
FC16561-5MS	74-87-3	Methyl Chloride	MS	REC	91	%	50-139
FC16561-5MS	108-87-2	Methylcyclohexane	MS	REC	106	%	72-132
FC16561-5MS	75-09-2	Methylene Chloride	MS	REC	96	%	74-124
FC16561-5MS	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	98	%	67-130
FC16561-5MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	96	%	71-124
FC16561-5MS	100-42-5	Styrene	MS	REC	92	%	78-123
FC16561-5MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	94	%	71-121
FC16561-5MS	127-18-4	Tetrachloroethylene	MS	REC	96	%	74-129
FC16561-5MS	108-88-3	Toluene	MS	REC	95	%	80-121
FC16561-5MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	94	%	69-129
FC16561-5MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	94	%	69-130
FC16561-5MS	71-55-6	1,1,1-Trichloroethane	MS	REC	92	%	74-131
FC16561-5MS	79-00-5	1,1,2-Trichloroethane	MS	REC	94	%	80-119
FC16561-5MS	79-01-6	Trichloroethylene	MS	REC	92	%	79-123
FC16561-5MS	75-69-4	Trichlorofluoromethane	MS	REC	100	%	65-141
FC16561-5MS	75-01-4	Vinyl Chloride	MS	REC	94	%	58-137
FC16561-5MS		m,p-Xylene	MS	REC	91	%	80-121
FC16561-5MS	95-47-6	o-Xylene	MS	REC	89	%	78-122
FC16561-5MS	1868-53-7	Dibromofluoromethane	MS	SURR	97	%	80-119
FC16561-5MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	101	%	81-118
FC16561-5MS	2037-26-5	Toluene-D8	MS	SURR	101	%	89-112
FC16561-5MS	460-00-4	4-Bromofluorobenzene	MS	SURR	97	%	85-114
FC16561-12MSD	67-64-1	Acetone	MSD	REC	102	%	39-160
FC16561-12MSD	67-64-1	Acetone	MSD	RPD	2	%	20
FC16561-12MSD	71-43-2	Benzene	MSD	REC	93	%	79-120
FC16561-12MSD	71-43-2	Benzene	MSD	RPD	4	%	20
FC16561-12MSD	74-97-5	Bromochloromethane	MSD	REC	93	%	78-123
FC16561-12MSD	74-97-5	Bromochloromethane	MSD	RPD	3	%	20
FC16561-12MSD	75-27-4	Bromodichloromethane	MSD	REC	89	%	79-125
FC16561-12MSD	75-27-4	Bromodichloromethane	MSD	RPD	3	%	20
FC16561-12MSD	75-25-2	Bromoform	MSD	REC	92	%	66-130
FC16561-12MSD	75-25-2	Bromoform	MSD	RPD	0	%	20
FC16561-12MSD	78-93-3	2-Butanone (MEK)	MSD	REC	99	%	56-143
FC16561-12MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	2	%	20

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-12MSD	75-15-0	Carbon Disulfide	MSD	REC	79	%	64-133
FC16561-12MSD	75-15-0	Carbon Disulfide	MSD	RPD	6	%	20
FC16561-12MSD	56-23-5	Carbon Tetrachloride	MSD	REC	90	%	72-136
FC16561-12MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	8	%	20
FC16561-12MSD	108-90-7	Chlorobenzene	MSD	REC	94	%	82-118
FC16561-12MSD	108-90-7	Chlorobenzene	MSD	RPD	3	%	20
FC16561-12MSD	75-00-3	Chloroethane	MSD	REC	95	%	60-138
FC16561-12MSD	75-00-3	Chloroethane	MSD	RPD	2	%	20
FC16561-12MSD	67-66-3	Chloroform	MSD	REC	98	%	79-124
FC16561-12MSD	67-66-3	Chloroform	MSD	RPD	4	%	20
FC16561-12MSD	110-82-7	Cyclohexane	MSD	REC	90	%	71-130
FC16561-12MSD	110-82-7	Cyclohexane	MSD	RPD	4	%	20
FC16561-12MSD	124-48-1	Dibromochloromethane	MSD	REC	100	%	74-126
FC16561-12MSD	124-48-1	Dibromochloromethane	MSD	RPD	1	%	20
FC16561-12MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	102	%	62-128
FC16561-12MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	3	%	20
FC16561-12MSD	106-93-4	1,2-Dibromoethane	MSD	REC	105	%	77-121
FC16561-12MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	2	%	20
FC16561-12MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	99	%	32-152
FC16561-12MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	5	%	20
FC16561-12MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	98	%	80-119
FC16561-12MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	4	%	20
FC16561-12MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	93	%	80-119
FC16561-12MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	4	%	20
FC16561-12MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	95	%	79-118
FC16561-12MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	4	%	20
FC16561-12MSD	75-34-3	1,1-Dichloroethane	MSD	REC	89	%	77-125
FC16561-12MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	6	%	20
FC16561-12MSD	107-06-2	1,2-Dichloroethane	MSD	REC	100	%	73-128
FC16561-12MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	4	%	20
FC16561-12MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	91	%	71-131
FC16561-12MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	5	%	20
FC16561-12MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	74	%	78-123
FC16561-12MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC16561-12MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	89	%	75-124
FC16561-12MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	6	%	20
FC16561-12MSD	78-87-5	1,2-Dichloropropane	MSD	REC	99	%	78-122
FC16561-12MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	5	%	20
FC16561-12MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	95	%	75-124
FC16561-12MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	4	%	20
FC16561-12MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	94	%	73-127
FC16561-12MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	1	%	20
FC16561-12MSD	100-41-4	Ethylbenzene	MSD	REC	93	%	79-121
FC16561-12MSD	100-41-4	Ethylbenzene	MSD	RPD	4	%	20
FC16561-12MSD	76-13-1	Freon 113	MSD	REC	93	%	70-136

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-12MSD	76-13-1	Freon 113	MSD	RPD	4	%	20
FC16561-12MSD	591-78-6	2-Hexanone	MSD	REC	114	%	57-139
FC16561-12MSD	591-78-6	2-Hexanone	MSD	RPD	1	%	20
FC16561-12MSD	98-82-8	Isopropylbenzene	MSD	REC	90	%	72-131
FC16561-12MSD	98-82-8	Isopropylbenzene	MSD	RPD	4	%	20
FC16561-12MSD	79-20-9	Methyl Acetate	MSD	REC	106	%	56-136
FC16561-12MSD	79-20-9	Methyl Acetate	MSD	RPD	3	%	20
FC16561-12MSD	74-83-9	Methyl Bromide	MSD	REC	95	%	53-141
FC16561-12MSD	74-83-9	Methyl Bromide	MSD	RPD	6	%	20
FC16561-12MSD	74-87-3	Methyl Chloride	MSD	REC	93	%	50-139
FC16561-12MSD	74-87-3	Methyl Chloride	MSD	RPD	7	%	20
FC16561-12MSD	108-87-2	Methylcyclohexane	MSD	REC	97	%	72-132
FC16561-12MSD	108-87-2	Methylcyclohexane	MSD	RPD	5	%	20
FC16561-12MSD	75-09-2	Methylene Chloride	MSD	REC	95	%	74-124
FC16561-12MSD	75-09-2	Methylene Chloride	MSD	RPD	2	%	20
FC16561-12MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	109	%	67-130
FC16561-12MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	1	%	20
FC16561-12MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	101	%	71-124
FC16561-12MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	3	%	20
FC16561-12MSD	100-42-5	Styrene	MSD	REC	95	%	78-123
FC16561-12MSD	100-42-5	Styrene	MSD	RPD	3	%	20
FC16561-12MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	99	%	71-121
FC16561-12MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	3	%	20
FC16561-12MSD	127-18-4	Tetrachloroethylene	MSD	REC	94	%	74-129
FC16561-12MSD	127-18-4	Tetrachloroethylene	MSD	RPD	4	%	20
FC16561-12MSD	108-88-3	Toluene	MSD	REC	95	%	80-121
FC16561-12MSD	108-88-3	Toluene	MSD	RPD	4	%	20
FC16561-12MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	98	%	69-129
FC16561-12MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	2	%	20
FC16561-12MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	97	%	69-130
FC16561-12MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	3	%	20
FC16561-12MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	90	%	74-131
FC16561-12MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	8	%	20
FC16561-12MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	97	%	80-119
FC16561-12MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	1	%	20
FC16561-12MSD	79-01-6	Trichloroethylene	MSD	REC	91	%	79-123
FC16561-12MSD	79-01-6	Trichloroethylene	MSD	RPD	5	%	20
FC16561-12MSD	75-69-4	Trichlorofluoromethane	MSD	REC	98	%	65-141
FC16561-12MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	5	%	20
FC16561-12MSD	75-01-4	Vinyl Chloride	MSD	REC	87	%	58-137
FC16561-12MSD	75-01-4	Vinyl Chloride	MSD	RPD	3	%	20
FC16561-12MSD		m,p-Xylene	MSD	REC	91	%	80-121
FC16561-12MSD		m,p-Xylene	MSD	RPD	4	%	20
FC16561-12MSD	95-47-6	o-Xylene	MSD	REC	90	%	78-122
FC16561-12MSD	95-47-6	o-Xylene	MSD	RPD	5	%	20

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-12MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	97	%	80-119
FC16561-12MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	81-118
FC16561-12MSD	2037-26-5	Toluene-D8	MSD	SURR	102	%	89-112
FC16561-12MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	99	%	85-114
FC16561-5MSD	67-64-1	Acetone	MSD	REC	98	%	39-160
FC16561-5MSD	67-64-1	Acetone	MSD	RPD	8	%	20
FC16561-5MSD	71-43-2	Benzene	MSD	REC	90	%	79-120
FC16561-5MSD	71-43-2	Benzene	MSD	RPD	3	%	20
FC16561-5MSD	74-97-5	Bromochloromethane	MSD	REC	84	%	78-123
FC16561-5MSD	74-97-5	Bromochloromethane	MSD	RPD	7	%	20
FC16561-5MSD	75-27-4	Bromodichloromethane	MSD	REC	82	%	79-125
FC16561-5MSD	75-27-4	Bromodichloromethane	MSD	RPD	5	%	20
FC16561-5MSD	75-25-2	Bromoform	MSD	REC	85	%	66-130
FC16561-5MSD	75-25-2	Bromoform	MSD	RPD	3	%	20
FC16561-5MSD	78-93-3	2-Butanone (MEK)	MSD	REC	93	%	56-143
FC16561-5MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	2	%	20
FC16561-5MSD	75-15-0	Carbon Disulfide	MSD	REC	80	%	64-133
FC16561-5MSD	75-15-0	Carbon Disulfide	MSD	RPD	4	%	20
FC16561-5MSD	56-23-5	Carbon Tetrachloride	MSD	REC	91	%	72-136
FC16561-5MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	4	%	20
FC16561-5MSD	108-90-7	Chlorobenzene	MSD	REC	90	%	82-118
FC16561-5MSD	108-90-7	Chlorobenzene	MSD	RPD	3	%	20
FC16561-5MSD	75-00-3	Chloroethane	MSD	REC	100	%	60-138
FC16561-5MSD	75-00-3	Chloroethane	MSD	RPD	4	%	20
FC16561-5MSD	67-66-3	Chloroform	MSD	REC	95	%	79-124
FC16561-5MSD	67-66-3	Chloroform	MSD	RPD	5	%	20
FC16561-5MSD	110-82-7	Cyclohexane	MSD	REC	94	%	71-130
FC16561-5MSD	110-82-7	Cyclohexane	MSD	RPD	3	%	20
FC16561-5MSD	124-48-1	Dibromochloromethane	MSD	REC	93	%	74-126
FC16561-5MSD	124-48-1	Dibromochloromethane	MSD	RPD	5	%	20
FC16561-5MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	93	%	62-128
FC16561-5MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	3	%	20
FC16561-5MSD	106-93-4	1,2-Dibromoethane	MSD	REC	95	%	77-121
FC16561-5MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	3	%	20
FC16561-5MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	111	%	32-152
FC16561-5MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	8	%	20
FC16561-5MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	90	%	80-119
FC16561-5MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	4	%	20
FC16561-5MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	88	%	80-119
FC16561-5MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	5	%	20
FC16561-5MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	90	%	79-118
FC16561-5MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	2	%	20
FC16561-5MSD	75-34-3	1,1-Dichloroethane	MSD	REC	88	%	77-125
FC16561-5MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	4	%	20
FC16561-5MSD	107-06-2	1,2-Dichloroethane	MSD	REC	90	%	73-128

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-5MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	6	%	20
FC16561-5MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	92	%	71-131
FC16561-5MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	3	%	20
FC16561-5MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	89	%	78-123
FC16561-5MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	2	%	20
FC16561-5MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	88	%	75-124
FC16561-5MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	2	%	20
FC16561-5MSD	78-87-5	1,2-Dichloropropane	MSD	REC	95	%	78-122
FC16561-5MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	4	%	20
FC16561-5MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	90	%	75-124
FC16561-5MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	5	%	20
FC16561-5MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	86	%	73-127
FC16561-5MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	5	%	20
FC16561-5MSD	100-41-4	Ethylbenzene	MSD	REC	90	%	79-121
FC16561-5MSD	100-41-4	Ethylbenzene	MSD	RPD	4	%	20
FC16561-5MSD	76-13-1	Freon 113	MSD	REC	98	%	70-136
FC16561-5MSD	76-13-1	Freon 113	MSD	RPD	3	%	20
FC16561-5MSD	591-78-6	2-Hexanone	MSD	REC	106	%	57-139
FC16561-5MSD	591-78-6	2-Hexanone	MSD	RPD	4	%	20
FC16561-5MSD	98-82-8	Isopropylbenzene	MSD	REC	88	%	72-131
FC16561-5MSD	98-82-8	Isopropylbenzene	MSD	RPD	4	%	20
FC16561-5MSD	79-20-9	Methyl Acetate	MSD	REC	88	%	56-136
FC16561-5MSD	79-20-9	Methyl Acetate	MSD	RPD	6	%	20
FC16561-5MSD	74-83-9	Methyl Bromide	MSD	REC	88	%	53-141
FC16561-5MSD	74-83-9	Methyl Bromide	MSD	RPD	20	%	20
FC16561-5MSD	74-87-3	Methyl Chloride	MSD	REC	96	%	50-139
FC16561-5MSD	74-87-3	Methyl Chloride	MSD	RPD	6	%	20
FC16561-5MSD	108-87-2	Methylcyclohexane	MSD	REC	103	%	72-132
FC16561-5MSD	108-87-2	Methylcyclohexane	MSD	RPD	3	%	20
FC16561-5MSD	75-09-2	Methylene Chloride	MSD	REC	91	%	74-124
FC16561-5MSD	75-09-2	Methylene Chloride	MSD	RPD	6	%	20
FC16561-5MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	103	%	67-130
FC16561-5MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	5	%	20
FC16561-5MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	91	%	71-124
FC16561-5MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	6	%	20
FC16561-5MSD	100-42-5	Styrene	MSD	REC	88	%	78-123
FC16561-5MSD	100-42-5	Styrene	MSD	RPD	4	%	20
FC16561-5MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	89	%	71-121
FC16561-5MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	6	%	20
FC16561-5MSD	127-18-4	Tetrachloroethylene	MSD	REC	92	%	74-129
FC16561-5MSD	127-18-4	Tetrachloroethylene	MSD	RPD	4	%	20
FC16561-5MSD	108-88-3	Toluene	MSD	REC	91	%	80-121
FC16561-5MSD	108-88-3	Toluene	MSD	RPD	4	%	20
FC16561-5MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	90	%	69-129
FC16561-5MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	4	%	20

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-5MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	92	%	69-130
FC16561-5MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	1	%	20
FC16561-5MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	87	%	74-131
FC16561-5MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	5	%	20
FC16561-5MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	89	%	80-119
FC16561-5MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	5	%	20
FC16561-5MSD	79-01-6	Trichloroethylene	MSD	REC	88	%	79-123
FC16561-5MSD	79-01-6	Trichloroethylene	MSD	RPD	4	%	20
FC16561-5MSD	75-69-4	Trichlorofluoromethane	MSD	REC	106	%	65-141
FC16561-5MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	5	%	20
FC16561-5MSD	75-01-4	Vinyl Chloride	MSD	REC	99	%	58-137
FC16561-5MSD	75-01-4	Vinyl Chloride	MSD	RPD	5	%	20
FC16561-5MSD		m,p-Xylene	MSD	REC	89	%	80-121
FC16561-5MSD		m,p-Xylene	MSD	RPD	2	%	20
FC16561-5MSD	95-47-6	o-Xylene	MSD	REC	86	%	78-122
FC16561-5MSD	95-47-6	o-Xylene	MSD	RPD	4	%	20
FC16561-5MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	98	%	80-119
FC16561-5MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	101	%	81-118
FC16561-5MSD	2037-26-5	Toluene-D8	MSD	SURR	102	%	89-112
FC16561-5MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	97	%	85-114
V2A1911-MB	1868-53-7	Dibromofluoromethane	MB	SURR	101	%	80-119
V2A1911-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	100	%	81-118
V2A1911-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	89-112
V2A1911-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	98	%	85-114
FC16561-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	81-118
FC16561-1	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC16561-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-2	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	85-114
FC16561-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
FC16561-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-3	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-4	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119
FC16561-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-5	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16561-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16561-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC16561-6	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC16561-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-7	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16561-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	80-119
FC16561-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-8	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119
FC16561-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-9	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16561-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-10	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16561-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
FC16561-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-11	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-12	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16561-12	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16561-13	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	80-119
FC16561-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16561-13	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-13	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16561-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16561-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-14	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	85-114
FC16561-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC16561-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	81-118
FC16561-15	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16561-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E2117	SW846 8260D						
V5E2117-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	101	%	78-123
V5E2117-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	98	%	80-119
V5E2117-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	101	%	81-118
V5E2117-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
V5E2117-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	85-114
FC16561-2MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	87	%	78-123
FC16561-2MS	1868-53-7	Dibromofluoromethane	MS	SURR	96	%	80-119
FC16561-2MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	81-118
FC16561-2MS	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FC16561-2MS	460-00-4	4-Bromofluorobenzene	MS	SURR	99	%	85-114
FC16561-2MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	88	%	78-123
FC16561-2MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	0	%	20
FC16561-2MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	96	%	80-119
FC16561-2MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	95	%	81-118
FC16561-2MSD	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112
FC16561-2MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	102	%	85-114
V5E2117-MB	1868-53-7	Dibromofluoromethane	MB	SURR	97	%	80-119
V5E2117-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	95	%	81-118
V5E2117-MB	2037-26-5	Toluene-D8	MB	SURR	105	%	89-112
V5E2117-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	107	%	85-114
FC16561-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16561-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16561-2	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16561-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16561-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16561-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	93	%	81-118
FC16561-7	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC16561-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
FC16561-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC16561-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC16561-8	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
FC16561-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC16561-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	93	%	80-119
FC16561-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	93	%	81-118
FC16561-9	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16561-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
GLL3143	RSKSOP-147/175						
GLL3143-BS	74-82-8	Methane	BSP	REC	100	%	73-125
GLL3143-BS	74-84-0	Ethane	BSP	REC	100	%	74-131
GLL3143-BS	74-85-1	Ethene	BSP	REC	103	%	72-133

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
GLL3143-BSD	74-82-8	Methane	BSD	REC	101	%	73-125
GLL3143-BSD	74-82-8	Methane	BSD	RPD	1	%	30
GLL3143-BSD	74-84-0	Ethane	BSD	REC	101	%	74-131
GLL3143-BSD	74-84-0	Ethane	BSD	RPD	2	%	30
GLL3143-BSD	74-85-1	Ethene	BSD	REC	105	%	72-133
GLL3143-BSD	74-85-1	Ethene	BSD	RPD	2	%	30
FC16559-3MS*	74-82-8	Methane	MS	REC	108	%	73-125
FC16559-3MS*	74-84-0	Ethane	MS	REC	95	%	74-131
FC16559-3MS*	74-85-1	Ethene	MS	REC	100	%	72-133
FC16559-3DUP*	74-82-8	Methane	DUP	RPD	13	%	30
FC16559-3DUP*	74-84-0	Ethane	DUP	RPD	0	%	30
FC16559-3DUP*	74-85-1	Ethene	DUP	RPD	0	%	30
GLL3144	RSKSOP-147/175						
GLL3144-BS	74-82-8	Methane	BSP	REC	98	%	73-125
GLL3144-BS	74-84-0	Ethane	BSP	REC	98	%	74-131
GLL3144-BS	74-85-1	Ethene	BSP	REC	102	%	72-133
GLL3144-BSD	74-82-8	Methane	BSD	REC	101	%	73-125
GLL3144-BSD	74-82-8	Methane	BSD	RPD	3	%	30
GLL3144-BSD	74-84-0	Ethane	BSD	REC	101	%	74-131
GLL3144-BSD	74-84-0	Ethane	BSD	RPD	3	%	30
GLL3144-BSD	74-85-1	Ethene	BSD	REC	104	%	72-133
GLL3144-BSD	74-85-1	Ethene	BSD	RPD	2	%	30
FC16561-5MS	74-82-8	Methane	MS	REC	97	%	73-125
FC16561-5MS	74-84-0	Ethane	MS	REC	98	%	74-131
FC16561-5MS	74-85-1	Ethene	MS	REC	102	%	72-133
FC16561-5DUP	74-82-8	Methane	DUP	RPD	200	%	30
FC16561-5DUP	74-84-0	Ethane	DUP	RPD	0	%	30
FC16561-5DUP	74-85-1	Ethene	DUP	RPD	0	%	30
GLL3145	RSKSOP-147/175						
GLL3145-BS	74-82-8	Methane	BSP	REC	94	%	73-125
GLL3145-BSD	74-82-8	Methane	BSD	REC	102	%	73-125
GLL3145-BSD	74-82-8	Methane	BSD	RPD	8	%	30
FC16768-1MS*	74-82-8	Methane	MS	REC	93	%	73-125
FC16768-6DUP*	74-82-8	Methane	DUP	RPD	200	%	30
GP40145	EPA 300/SW846 9056A						
GP40145-B1	16887-00-6	Chloride	BSP	REC	97.6	%	87-111
GP40145-B1	14797-55-8	Nitrogen, Nitrate	BSP	REC	94	%	88-111
GP40145-S1*	16887-00-6	Chloride	MS	REC	99.6	%	87-111
GP40145-S1*	14797-55-8	Nitrogen, Nitrate	MS	REC	94.8	%	88-111

* Sample used for QC is not from job FC16561

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16561
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/17/24 thru 06/18/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
GP40145-S2*	16887-00-6	Chloride	MSD	RPD	0	%	15
GP40145-S2*	16887-00-6	Chloride	MSD	REC	99.6	%	87-111
GP40145-S2*	14797-55-8	Nitrogen, Nitrate	MSD	RPD	0	%	15
GP40145-S2*	14797-55-8	Nitrogen, Nitrate	MSD	REC	94.8	%	88-111
GP40147	EPA 300/SW846 9056A						
GP40147-B1	16887-00-6	Chloride	BSP	REC	96.2	%	87-111
GP40147-B1	14797-55-8	Nitrogen, Nitrate	BSP	REC	93.2	%	88-111
GP40147-B1	14808-79-8	Sulfate	BSP	REC	93.4	%	87-112
GP40147-S1	16887-00-6	Chloride	MS	REC	96.2	%	87-111
GP40147-S1	14797-55-8	Nitrogen, Nitrate	MS	REC	93.6	%	88-111
GP40147-S1	14808-79-8	Sulfate	MS	REC	91.2	%	87-112
GP40147-S2	16887-00-6	Chloride	MSD	RPD	0	%	15
GP40147-S2	16887-00-6	Chloride	MSD	REC	96.2	%	87-111
GP40147-S2	14797-55-8	Nitrogen, Nitrate	MSD	RPD	0	%	15
GP40147-S2	14797-55-8	Nitrogen, Nitrate	MSD	REC	93.6	%	88-111
GP40147-S2	14808-79-8	Sulfate	MSD	RPD	0	%	15
GP40147-S2	14808-79-8	Sulfate	MSD	REC	91.2	%	87-112

* Sample used for QC is not from job FC16561

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1911-MB [a]	2A56304.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.39	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
76-13-1	Freon 113	ND	1.0	0.48	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.44	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1911-MB [a]	2A56304.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	2.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2117-MB [a]	5E47494.D	1	06/27/24	LT	n/a	n/a	V5E2117

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-2, FC16561-7, FC16561-8, FC16561-9

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1911-BS	2A56302.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	135	108	50-147
71-43-2	Benzene	25	24.3	97	81-122
74-97-5	Bromochloromethane	25	23.0	92	76-123
75-27-4	Bromodichloromethane	25	22.4	90	79-123
75-25-2	Bromoform	25	25.7	103	66-123
78-93-3	2-Butanone (MEK)	125	122	98	56-143
75-15-0	Carbon Disulfide	25	21.7	87	66-148
56-23-5	Carbon Tetrachloride	25	24.4	98	76-136
108-90-7	Chlorobenzene	25	23.7	95	82-124
75-00-3	Chloroethane	25	24.4	98	62-144
67-66-3	Chloroform	25	25.0	100	80-124
110-82-7	Cyclohexane	25	23.4	94	73-138
124-48-1	Dibromochloromethane	25	26.3	105	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	27.4	110	64-123
106-93-4	1,2-Dibromoethane	25	25.7	103	75-120
75-71-8	Dichlorodifluoromethane	25	26.5	106	42-167
95-50-1	1,2-Dichlorobenzene	25	24.0	96	82-124
541-73-1	1,3-Dichlorobenzene	25	23.5	94	84-125
106-46-7	1,4-Dichlorobenzene	25	23.6	94	78-120
75-34-3	1,1-Dichloroethane	25	22.8	91	81-122
107-06-2	1,2-Dichloroethane	25	24.1	96	75-125
75-35-4	1,1-Dichloroethylene	25	23.5	94	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.5	94	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.0	92	76-127
78-87-5	1,2-Dichloropropane	25	24.7	99	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.9	100	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	80-120
100-41-4	Ethylbenzene	25	24.0	96	81-121
76-13-1	Freon 113	25	24.8	99	72-134
591-78-6	2-Hexanone	125	133	106	61-129
98-82-8	Isopropylbenzene	25	23.1	92	83-132
79-20-9	Methyl Acetate	125	127	102	65-126
74-83-9	Methyl Bromide	25	25.3	101	59-143
74-87-3	Methyl Chloride	25	24.3	97	50-159
108-87-2	Methylcyclohexane	25	23.9	96	76-129
75-09-2	Methylene Chloride	25	24.7	99	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1911-BS	2A56302.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	130	104	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.6	98	72-117
100-42-5	Styrene	25	23.7	95	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	25.0	100	72-120
127-18-4	Tetrachloroethylene	25	24.9	100	76-135
108-88-3	Toluene	25	24.2	97	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.1	96	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.1	96	73-129
71-55-6	1,1,1-Trichloroethane	25	22.9	92	75-130
79-00-5	1,1,2-Trichloroethane	25	23.8	95	76-119
79-01-6	Trichloroethylene	25	23.9	96	81-126
75-69-4	Trichlorofluoromethane	25	25.0	100	71-156
75-01-4	Vinyl Chloride	25	23.6	94	69-159
	m,p-Xylene	50	46.9	94	79-126
95-47-6	o-Xylene	25	22.9	92	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2117-BS	5E47492.D	1	06/27/24	LT	n/a	n/a	V5E2117

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-2, FC16561-7, FC16561-8, FC16561-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	25.2	101	78-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5MS	2A56325.D	1	06/26/24	JW	n/a	n/a	V2A1911
FC16561-5MSD	2A56326.D	1	06/26/24	JW	n/a	n/a	V2A1911
FC16561-5	2A56306.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-5

CAS No.	Compound	FC16561-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	114	91	125	123	98	8	50-147/21
71-43-2	Benzene	1.0 U		25	23.4	94	25	22.6	90	3	81-122/14
74-97-5	Bromochloromethane	1.0 U		25	22.7	91	25	21.1	84	7	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	21.7	87	25	20.6	82	5	79-123/19
75-25-2	Bromoform	1.0 U		25	21.8	87	25	21.2	85	3	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		125	114	91	125	116	93	2	56-143/18
75-15-0	Carbon Disulfide	2.0 U		25	20.9	84	25	20.1	80	4	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		25	23.6	94	25	22.7	91	4	76-136/23
108-90-7	Chlorobenzene	1.0 U		25	23.3	93	25	22.5	90	3	82-124/14
75-00-3	Chloroethane	2.0 U		25	24.1	96	25	25.1	100	4	62-144/20
67-66-3	Chloroform	1.0 U		25	24.9	100	25	23.8	95	5	80-124/15
110-82-7	Cyclohexane	1.0 U		25	24.4	98	25	23.6	94	3	73-138/18
124-48-1	Dibromochloromethane	1.0 U		25	24.5	98	25	23.2	93	5	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		25	24.0	96	25	23.3	93	3	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		25	24.5	98	25	23.8	95	3	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		25	25.6	102	25	27.7	111	8	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		25	23.5	94	25	22.6	90	4	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		25	23.1	92	25	22.0	88	5	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		25	23.0	92	25	22.5	90	2	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		25	22.7	91	25	21.9	88	4	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U		25	24.0	96	25	22.6	90	6	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		25	23.8	95	25	23.0	92	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	11.8		25	34.7	92	25	34.0	89	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.30	J	25	22.9	90	25	22.4	88	2	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		25	24.7	99	25	23.7	95	4	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	23.6	94	25	22.4	90	5	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	22.5	90	25	21.4	86	5	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	23.2	93	25	22.4	90	4	81-121/14
76-13-1	Freon 113	1.0 U		25	25.3	101	25	24.5	98	3	72-134/20
591-78-6	2-Hexanone	10 U		125	127	102	125	132	106	4	61-129/18
98-82-8	Isopropylbenzene	1.0 U		25	22.9	92	25	22.0	88	4	83-132/15
79-20-9	Methyl Acetate	20 U		125	117	94	125	110	88	6	65-126/18
74-83-9	Methyl Bromide	5.0 U		25	17.9	72	25	21.9	88	20*	59-143/19
74-87-3	Methyl Chloride	2.0 U		25	22.8	91	25	24.1	96	6	50-159/19
108-87-2	Methylcyclohexane	1.0 U		25	26.6	106	25	25.8	103	3	76-129/17
75-09-2	Methylene Chloride	5.0 U		25	24.0	96	25	22.7	91	6	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5MS	2A56325.D	1	06/26/24	JW	n/a	n/a	V2A1911
FC16561-5MSD	2A56326.D	1	06/26/24	JW	n/a	n/a	V2A1911
FC16561-5	2A56306.D	1	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-5

CAS No.	Compound	FC16561-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		125	123	98	125	129	103	5	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	24.1	96	25	22.7	91	6	72-117/14
100-42-5	Styrene	1.0 U		25	23.0	92	25	22.1	88	4	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	23.5	94	25	22.2	89	6	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		25	24.0	96	25	23.0	92	4	76-135/16
108-88-3	Toluene	1.0 U		25	23.7	95	25	22.8	91	4	80-120/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		25	23.6	94	25	22.6	90	4	68-131/25
120-82-1	1,2,4-Trichlorobenzene	2.0 U		25	23.4	94	25	23.1	92	1	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		25	22.9	92	25	21.8	87	5	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		25	23.4	94	25	22.3	89	5	76-119/14
79-01-6	Trichloroethylene	0.98	J	25	24.0	92	25	23.0	88	4	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		25	25.1	100	25	26.5	106	5	71-156/21
75-01-4	Vinyl Chloride	1.0 U		25	23.4	94	25	24.7	99	5	69-159/18
	m,p-Xylene	2.0 U		50	45.3	91	50	44.3	89	2	79-126/15
95-47-6	o-Xylene	1.0 U		25	22.3	89	25	21.4	86	4	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FC16561-5	Limits
1868-53-7	Dibromofluoromethane	97%	98%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	99%	79-125%
2037-26-5	Toluene-D8	101%	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	97%	97%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-12MS	2A56327.D	10	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12MSD	2A56328.D	10	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12	2A56307.D	2	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12	2A56320.D	10	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	FC16561-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		1250	1250	100	1250	1270	102	2	50-147/21
71-43-2	Benzene	2.0 U		250	224	90	250	233	93	4	81-122/14
74-97-5	Bromochloromethane	2.0 U		250	226	90	250	233	93	3	76-123/14
75-27-4	Bromodichloromethane	2.0 U		250	216	86	250	222	89	3	79-123/19
75-25-2	Bromoform	2.0 U		250	229	92	250	230	92	0	66-123/21
78-93-3	2-Butanone (MEK)	10 U		1250	1220	98	1250	1240	99	2	56-143/18
75-15-0	Carbon Disulfide	4.0 U		250	187	75	250	198	79	6	66-148/23
56-23-5	Carbon Tetrachloride	2.0 U		250	207	83	250	224	90	8	76-136/23
108-90-7	Chlorobenzene	2.0 U		250	227	91	250	234	94	3	82-124/14
75-00-3	Chloroethane	4.0 U		250	232	93	250	237	95	2	62-144/20
67-66-3	Chloroform	2.0 U		250	236	94	250	245	98	4	80-124/15
110-82-7	Cyclohexane	2.0 U		250	218	87	250	226	90	4	73-138/18
124-48-1	Dibromochloromethane	2.0 U		250	246	98	250	249	100	1	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	10 U		250	247	99	250	254	102	3	64-123/18
106-93-4	1,2-Dibromoethane	4.0 U		250	258	103	250	262	105	2	75-120/13
75-71-8	Dichlorodifluoromethane	4.0 U		250	234	94	250	247	99	5	42-167/19
95-50-1	1,2-Dichlorobenzene	2.0 U		250	234	94	250	244	98	4	82-124/14
541-73-1	1,3-Dichlorobenzene	2.0 U		250	224	90	250	232	93	4	84-125/14
106-46-7	1,4-Dichlorobenzene	2.0 U		250	228	91	250	237	95	4	78-120/15
75-34-3	1,1-Dichloroethane	2.0 U		250	209	84	250	222	89	6	81-122/15
107-06-2	1,2-Dichloroethane	2.0 U		250	239	96	250	249	100	4	75-125/14
75-35-4	1,1-Dichloroethylene	2.0 U		250	215	86	250	227	91	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	171	a	250	389	68*	250	405	74*	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	6.1		250	214	83	250	228	89	6	76-127/17
78-87-5	1,2-Dichloropropane	2.0 U		250	237	95	250	248	99	5	76-124/14
10061-01-5	cis-1,3-Dichloropropene	2.0 U		250	229	92	250	238	95	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	2.0 U		250	233	93	250	235	94	1	80-120/22
100-41-4	Ethylbenzene	2.0 U		250	223	89	250	233	93	4	81-121/14
76-13-1	Freon 113	2.0 U		250	224	90	250	233	93	4	72-134/20
591-78-6	2-Hexanone	20 U		1250	1400	112	1250	1420	114	1	61-129/18
98-82-8	Isopropylbenzene	2.0 U		250	216	86	250	224	90	4	83-132/15
79-20-9	Methyl Acetate	40 U		1250	1280	102	1250	1320	106	3	65-126/18
74-83-9	Methyl Bromide	10 U		250	223	89	250	237	95	6	59-143/19
74-87-3	Methyl Chloride	4.0 U		250	217	87	250	233	93	7	50-159/19
108-87-2	Methylcyclohexane	2.0 U		250	230	92	250	242	97	5	76-129/17
75-09-2	Methylene Chloride	10 U		250	234	94	250	238	95	2	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-12MS	2A56327.D	10	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12MSD	2A56328.D	10	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12	2A56307.D	2	06/26/24	JW	n/a	n/a	V2A1911
FC16561-12	2A56320.D	10	06/26/24	JW	n/a	n/a	V2A1911

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-1, FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-9, FC16561-10, FC16561-11, FC16561-12, FC16561-13, FC16561-14, FC16561-15

CAS No.	Compound	FC16561-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U		1250	1350	108	1250	1360	109	1	66-122/16
1634-04-4	Methyl Tert Butyl Ether	2.0 U		250	244	98	250	252	101	3	72-117/14
100-42-5	Styrene	2.0 U		250	230	92	250	237	95	3	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U		250	240	96	250	248	99	3	72-120/14
127-18-4	Tetrachloroethylene	2.0 U		250	226	90	250	236	94	4	76-135/16
108-88-3	Toluene	2.0 U		250	227	91	250	237	95	4	80-120/14
87-61-6	1,2,3-Trichlorobenzene	4.0 U		250	240	96	250	246	98	2	68-131/25
120-82-1	1,2,4-Trichlorobenzene	4.0 U		250	236	94	250	243	97	3	73-129/20
71-55-6	1,1,1-Trichloroethane	2.0 U		250	206	82	250	224	90	8	75-130/16
79-00-5	1,1,2-Trichloroethane	2.0 U		250	240	96	250	243	97	1	76-119/14
79-01-6	Trichloroethylene	5.9		250	221	86	250	233	91	5	81-126/15
75-69-4	Trichlorofluoromethane	4.0 U		250	233	93	250	244	98	5	71-156/21
75-01-4	Vinyl Chloride	20.5		250	229	83	250	237	87	3	69-159/18
	m,p-Xylene	4.0 U		500	438	88	500	457	91	4	79-126/15
95-47-6	o-Xylene	2.0 U		250	216	86	250	226	90	5	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FC16561-12	FC16561-12	Limits
1868-53-7	Dibromofluoromethane	95%	97%	101%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	99%	99%	79-125%
2037-26-5	Toluene-D8	102%	102%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	98%	98%	83-118%

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-2MS	5E47512.D	5	06/27/24	LT	n/a	n/a	V5E2117
FC16561-2MSD	5E47513.D	5	06/27/24	LT	n/a	n/a	V5E2117
FC16561-2	5E47508.D	5	06/27/24	LT	n/a	n/a	V5E2117

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16561-2, FC16561-7, FC16561-8, FC16561-9

CAS No.	Compound	FC16561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	115		125	224	87	125	225	88	0	78-120/15

CAS No.	Surrogate Recoveries	MS	MSD	FC16561-2	Limits
1868-53-7	Dibromofluoromethane	96%	96%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	95%	95%	79-125%
2037-26-5	Toluene-D8	100%	101%	107%	85-112%
460-00-4	4-Bromofluorobenzene	99%	102%	106%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-BFB
Lab File ID: 2A56264.D
Instrument ID: GCMS2A
Injection Date: 06/25/24
Injection Time: 07:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	77464	100.0		Pass
96	5.0 - 9.0% of mass 95	5256	6.79		Pass
173	Less than 2.0% of mass 174	451	0.58	(0.74) [a]	Pass
174	50.0 - 200.0% of mass 95	60557	78.2		Pass
175	5.0 - 9.0% of mass 174	4463	5.76	(7.37) [a]	Pass
176	95.0 - 105.0% of mass 174	58979	76.1	(97.4) [a]	Pass
177	5.0 - 10.0% of mass 176	3865	4.99	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A1910-IC1910	2A56266.D	06/25/24	08:07	00:39	Initial cal 1
V2A1910-IC1910	2A56268.D	06/25/24	08:39	01:11	Initial cal 8
V2A1910-IC1910	2A56270.D	06/25/24	09:11	01:43	Initial cal 2
V2A1910-IC1910	2A56272.D	06/25/24	09:43	02:15	Initial cal 3
V2A1910-IC1910	2A56274.D	06/25/24	10:15	02:47	Initial cal 4
V2A1910-ICC1910	2A56276.D	06/25/24	10:47	03:19	Initial cal 5
V2A1910-IC1910	2A56278.D	06/25/24	11:19	03:51	Initial cal 6
V2A1910-IC1910	2A56280.D	06/25/24	11:51	04:23	Initial cal 7
V2A1910-ICV1910	2A56284.D	06/25/24	13:01	05:33	Initial cal verification 5
V2A1910-BS	2A56286.D	06/25/24	13:33	06:05	Blank Spike
V2A1910-MB	2A56288.D	06/25/24	14:22	06:54	Method Blank
FC16589-2	2A56290.D	06/25/24	14:57	07:29	(used for QC only; not part of job FC16561)
ZZZZZZ	2A56291.D	06/25/24	15:16	07:48	(unrelated sample)
ZZZZZZ	2A56292.D	06/25/24	15:40	08:12	(unrelated sample)
ZZZZZZ	2A56293.D	06/25/24	16:04	08:36	(unrelated sample)
ZZZZZZ	2A56294.D	06/25/24	16:28	09:00	(unrelated sample)
FC16589-2MS	2A56295.D	06/25/24	16:53	09:25	Matrix Spike
FC16589-2MSD	2A56296.D	06/25/24	17:17	09:49	Matrix Spike Duplicate
V2A1910-ECC1910	2A56297.D	06/25/24	17:41	10:13	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1911-BFB
Lab File ID: 2A56300.D
Instrument ID: GCMS2A
Injection Date: 06/26/24
Injection Time: 07:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	72597	100.0		Pass
96	5.0 - 9.0% of mass 95	4744	6.53		Pass
173	Less than 2.0% of mass 174	456	0.63	(0.73) [a]	Pass
174	50.0 - 200.0% of mass 95	62125	85.6		Pass
175	5.0 - 9.0% of mass 174	4131	5.69	(6.65) [a]	Pass
176	95.0 - 105.0% of mass 174	61056	84.1	(98.3) [a]	Pass
177	5.0 - 10.0% of mass 176	4046	5.57	(6.63) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A1911-CC1910	2A56301.D	06/26/24	07:56	00:26	Continuing cal 4
V2A1911-BS	2A56302.D	06/26/24	08:20	00:50	Blank Spike
V2A1911-MB	2A56304.D	06/26/24	09:07	01:37	Method Blank
FC16561-14	2A56305.D	06/26/24	09:31	02:01	TRIP BLANK
FC16561-5	2A56306.D	06/26/24	09:55	02:25	SEAD-AL-PT-24-20240618
FC16561-12	2A56307.D	06/26/24	10:20	02:50	SEAD-AL-PT-12A-20240618
FC16561-1	2A56308.D	06/26/24	10:44	03:14	SEAD-AL-MW-60-20240617
FC16561-2	2A56309.D	06/26/24	11:08	03:38	SEAD-AL-PT-17-20240618
FC16561-3	2A56310.D	06/26/24	11:32	04:02	SEAD-AL-MWT-26-20240618
FC16561-4	2A56311.D	06/26/24	11:56	04:26	SEAD-AL-MWT-7-20240618
FC16561-6	2A56312.D	06/26/24	12:20	04:50	SEAD-AL-MWT-27-20240618
FC16561-7	2A56313.D	06/26/24	12:44	05:14	SEAD-AL-MWT-29-20240618
FC16561-8	2A56314.D	06/26/24	13:07	05:37	SEAD-AL-DUP-01-20240618
FC16561-9	2A56315.D	06/26/24	13:31	06:01	SEAD-AL-DUP-02-20240618
FC16561-10	2A56316.D	06/26/24	13:55	06:25	SEAD-AL-MWT-25-20240618
FC16561-11	2A56317.D	06/26/24	14:20	06:50	SEAD-AL-MWT-22-20240618
FC16561-13	2A56318.D	06/26/24	14:44	07:14	SEAD-AL-MW-40-20240618
FC16561-15	2A56319.D	06/26/24	15:08	07:38	SEAD-AL-MWT-23-20240618
FC16561-12	2A56320.D	06/26/24	15:32	08:02	SEAD-AL-PT-12A-20240618
ZZZZZZ	2A56321.D	06/26/24	15:56	08:26	(unrelated sample)
ZZZZZZ	2A56322.D	06/26/24	16:20	08:50	(unrelated sample)
ZZZZZZ	2A56323.D	06/26/24	16:44	09:14	(unrelated sample)
ZZZZZZ	2A56324.D	06/26/24	17:08	09:38	(unrelated sample)
FC16561-5MS	2A56325.D	06/26/24	17:32	10:02	Matrix Spike
FC16561-5MSD	2A56326.D	06/26/24	17:56	10:26	Matrix Spike Duplicate
FC16561-12MS	2A56327.D	06/26/24	18:20	10:50	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample:	V2A1911-BFB	**Injection Date:**	06/26/24
Lab File ID:	2A56300.D	**Injection Time:**	07:30
Instrument ID:	GCMS2A		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC16561-12MSD	2A56328.D	06/26/24	18:44	11:14	Matrix Spike Duplicate
V2A1911-ECC1910	2A56329.D	06/26/24	19:08	11:38	Ending cal 4
V2A1912-CC1910	2A56331.D	06/26/24	19:56	12:26	Continuing cal 4
V2A1912-BS	2A56332.D	06/26/24	20:20	12:50	Blank Spike
FC16551-4MS	2A56333.D	06/26/24	20:44	13:14	Matrix Spike
FC16551-4MSD	2A56334.D	06/26/24	21:08	13:38	Matrix Spike Duplicate
V2A1912-MB	2A56336.D	06/26/24	21:56	14:26	Method Blank
FC16551-4	2A56338.D	06/26/24	22:44	15:14	(used for QC only; not part of job FC16561)
ZZZZZZ	2A56339.D	06/26/24	23:08	15:38	(unrelated sample)
ZZZZZZ	2A56340.D	06/26/24	23:32	16:02	(unrelated sample)
ZZZZZZ	2A56341.D	06/26/24	23:56	16:26	(unrelated sample)
ZZZZZZ	2A56342.D	06/27/24	00:20	16:50	(unrelated sample)
ZZZZZZ	2A56343.D	06/27/24	00:44	17:14	(unrelated sample)
ZZZZZZ	2A56344.D	06/27/24	01:08	17:38	(unrelated sample)
ZZZZZZ	2A56345.D	06/27/24	01:32	18:02	(unrelated sample)
ZZZZZZ	2A56346.D	06/27/24	01:56	18:26	(unrelated sample)
ZZZZZZ	2A56348.D	06/27/24	02:44	19:14	(unrelated sample)
ZZZZZZ	2A56349.D	06/27/24	03:08	19:38	(unrelated sample)
ZZZZZZ	2A56350.D	06/27/24	03:32	20:02	(unrelated sample)
ZZZZZZ	2A56351.D	06/27/24	03:56	20:26	(unrelated sample)
V2A1912-ECC1910	2A56352.D	06/27/24	04:20	20:50	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-BFB
Lab File ID: 5E47450.D
Instrument ID: GCMS5E
Injection Date: 06/25/24
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	52048	100.0		Pass
96	5.0 - 9.0% of mass 95	3740	7.19		Pass
173	Less than 2.0% of mass 174	195	0.37	(0.40) [a]	Pass
174	50.0 - 200.0% of mass 95	48613	93.4		Pass
175	5.0 - 9.0% of mass 174	3397	6.53	(6.99) [a]	Pass
176	95.0 - 105.0% of mass 174	46925	90.2	(96.5) [a]	Pass
177	5.0 - 10.0% of mass 176	3166	6.08	(6.75) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2113-IC2113	5E47451.D	06/25/24	12:49	00:28	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24	13:12	00:51	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24	13:34	01:13	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24	13:57	01:36	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24	14:20	01:59	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24	14:43	02:22	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24	15:06	02:45	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24	15:29	03:08	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24	16:14	03:53	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-BFB
Lab File ID: 5E47490.D
Instrument ID: GCMS5E
Injection Date: 06/27/24
Injection Time: 07:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	53995	100.0		Pass
96	5.0 - 9.0% of mass 95	3620	6.70		Pass
173	Less than 2.0% of mass 174	264	0.49	(0.53) [a]	Pass
174	50.0 - 200.0% of mass 95	49584	91.8		Pass
175	5.0 - 9.0% of mass 174	3158	5.85	(6.37) [a]	Pass
176	95.0 - 105.0% of mass 174	47872	88.7	(96.5) [a]	Pass
177	5.0 - 10.0% of mass 176	3141	5.82	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2117-CC2113	5E47491.D	06/27/24	07:38	00:31	Continuing cal 5
V5E2116-BS	5E47492.D	06/27/24	08:10	01:03	Blank Spike
V5E2115-BS	5E47492.D	06/27/24	08:10	01:03	Blank Spike
V5E2117-BS	5E47492.D	06/27/24	08:10	01:03	Blank Spike
V5E2116-MB	5E47494.D	06/27/24	08:56	01:49	Method Blank
V5E2115-MB	5E47494.D	06/27/24	08:56	01:49	Method Blank
V5E2117-MB	5E47494.D	06/27/24	08:56	01:49	Method Blank
OP3828-LB	5E47495.D	06/27/24	09:34	02:27	Leachate Blank
ZZZZZZ	5E47496.D	06/27/24	09:57	02:50	(unrelated sample)
ZZZZZZ	5E47497.D	06/27/24	10:19	03:12	(unrelated sample)
FC16639-1L	5E47498.D	06/27/24	10:42	03:35	(used for QC only; not part of job FC16561)
ZZZZZZ	5E47499.D	06/27/24	11:05	03:58	(unrelated sample)
ZZZZZZ	5E47500.D	06/27/24	11:28	04:21	(unrelated sample)
OP3956-LB	5E47501.D	06/27/24	11:51	04:44	Leachate Blank
ZZZZZZ	5E47502.D	06/27/24	12:13	05:06	(unrelated sample)
FC16313-2L	5E47503.D	06/27/24	12:36	05:29	(used for QC only; not part of job FC16561)
ZZZZZZ	5E47504.D	06/27/24	12:59	05:52	(unrelated sample)
ZZZZZZ	5E47505.D	06/27/24	13:22	06:15	(unrelated sample)
ZZZZZZ	5E47506.D	06/27/24	13:45	06:38	(unrelated sample)
ZZZZZZ	5E47507.D	06/27/24	14:07	07:00	(unrelated sample)
FC16561-2	5E47508.D	06/27/24	14:30	07:23	SEAD-AL-PT-17-20240618
FC16561-7	5E47509.D	06/27/24	14:53	07:46	SEAD-AL-MWT-29-20240618
FC16561-8	5E47510.D	06/27/24	15:16	08:09	SEAD-AL-DUP-01-20240618
FC16561-9	5E47511.D	06/27/24	15:39	08:32	SEAD-AL-DUP-02-20240618
FC16561-2MS	5E47512.D	06/27/24	16:01	08:54	Matrix Spike
FC16561-2MSD	5E47513.D	06/27/24	16:24	09:17	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample:	V5E2117-BFB	**Injection Date:**	06/27/24
Lab File ID:	5E47490.D	**Injection Time:**	07:07
Instrument ID:	GCMS5E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FC16639-1LMS	5E47514.D	06/27/24	16:47	09:40	Matrix Spike
FC16639-1LMSD	5E47515.D	06/27/24	17:10	10:03	Matrix Spike Duplicate
FC16313-2LMS	5E47516.D	06/27/24	17:32	10:25	Matrix Spike
FC16313-2LMSD	5E47517.D	06/27/24	17:55	10:48	Matrix Spike Duplicate
V5E2117-ECC2113	5E47518.D	06/27/24	18:18	11:11	Ending cal 5

Internal Standard Area Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V2A1911-CC1910	**Injection Date:**	06/26/24
Lab File ID:	2A56301.D	**Injection Time:**	07:56
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	300895	3.40	219742	5.35	130499	7.09
Check Std [b]	294494	3.40	208314	5.35	122444	7.09
Upper Limit [c]	588988	3.57	416628	5.52	244888	7.26
Lower Limit [d]	147247	3.23	104157	5.18	61222	6.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2A1911-BS	294626	3.40	209736	5.35	122251	7.09
V2A1911-MB [e]	274997	3.40	206713	5.35	121133	7.09
FC16561-14	273581	3.40	204575	5.35	117825	7.09
FC16561-5	276573	3.40	205765	5.35	118328	7.09
FC16561-12	271585	3.40	201925	5.35	117468	7.09
FC16561-1	273456	3.40	204622	5.35	119257	7.09
FC16561-2	270128	3.40	203133	5.35	117409	7.09
FC16561-3	267008	3.40	200891	5.35	119041	7.09
FC16561-4	271249	3.40	202907	5.35	116606	7.09
FC16561-6 [e]	284334	3.40	214414	5.35	125128	7.09
FC16561-7	261491	3.40	196670	5.35	114943	7.09
FC16561-8	284145	3.40	209706	5.35	122025	7.09
FC16561-9	264892	3.40	197061	5.35	114707	7.09
FC16561-10	263481	3.40	196909	5.35	113892	7.09
FC16561-11	259715	3.40	194613	5.35	112180	7.09
FC16561-13	262050	3.40	195207	5.35	113844	7.09
FC16561-15	262538	3.40	194794	5.35	113703	7.09
FC16561-12	262024	3.40	196057	5.35	113923	7.09
ZZZZZZ	260835	3.40	195328	5.35	112016	7.09
ZZZZZZ	257482	3.40	191889	5.35	111936	7.09
ZZZZZZ	254457	3.40	191458	5.35	111022	7.09
ZZZZZZ	257129	3.40	191466	5.35	112176	7.09
FC16561-5MS	274779	3.40	198399	5.35	118362	7.09
FC16561-5MSD	272129	3.40	194718	5.35	116425	7.09
FC16561-12MS	280187	3.40	198686	5.35	118733	7.09
FC16561-12MSD	278188	3.40	198157	5.35	117835	7.09
V2A1911-ECC1910	276585	3.40	195955	5.35	118846	7.09

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V2A1910-ICC1910 2A56276.D 06/25/24 10:47

Internal Standard Area Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V2A1911-CC1910	**Injection Date:**	06/26/24
Lab File ID:	2A56301.D	**Injection Time:**	07:56
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2117-CC2113	**Injection Date:**	06/27/24
Lab File ID:	5E47491.D	**Injection Time:**	07:38
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	422604	8.46	286059	11.59	149134	13.95
Check Std [b]	397479	8.46	267975	11.59	141838	13.95
Upper Limit [c]	794958	8.63	535950	11.76	283676	14.12
Lower Limit [d]	198740	8.29	133988	11.42	70919	13.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E2115-BS	399025	8.46	259709	11.59	133638	13.95
V5E2116-BS	399025	8.46	259709	11.59	133638	13.95
V5E2117-BS	399025	8.46	259709	11.59	133638	13.95
V5E2117-MB [e]	352944	8.46	224792	11.59	109395	13.95
V5E2115-MB [e]	352944	8.46	224792	11.59	109395	13.95
V5E2116-MB [e]	352944	8.46	224792	11.59	109395	13.95
OP3828-LB	346824	8.46	217932	11.59	105842	13.95
ZZZZZZ	335972	8.46	211168	11.59	106415	13.95
ZZZZZZ	334730	8.46	211092	11.59	103833	13.95
FC16639-1L	332366	8.46	209242	11.59	101029	13.95
ZZZZZZ	327603	8.46	204527	11.60	101834	13.95
ZZZZZZ	331289	8.46	207238	11.59	101489	13.95
OP3956-LB	315871	8.46	198673	11.59	96840	13.95
ZZZZZZ	315270	8.46	200022	11.59	99476	13.95
FC16313-2L	316658	8.46	204567	11.59	98621	13.95
ZZZZZZ	310449	8.46	199294	11.59	95386	13.95
ZZZZZZ	308243	8.46	194988	11.60	95749	13.95
ZZZZZZ	302849	8.46	192744	11.60	93137	13.95
ZZZZZZ	303920	8.46	191373	11.60	92677	13.95
FC16561-2	300187	8.46	188068	11.59	91439	13.95
FC16561-7	297381	8.46	187051	11.59	90902	13.95
FC16561-8	307577	8.46	196804	11.59	93540	13.95
FC16561-9	293278	8.46	184053	11.59	89065	13.95
FC16561-2MS	324531	8.46	212057	11.59	110364	13.95
FC16561-2MSD	333175	8.46	215473	11.59	110977	13.95
FC16639-1LMS	348001	8.46	227191	11.59	118599	13.95
FC16639-1LMSD	356928	8.46	233694	11.59	120476	13.95
FC16313-2LMS	363775	8.46	240216	11.59	121899	13.95
FC16313-2LMSD	366956	8.46	243850	11.59	125547	13.95
V5E2117-ECC2113	379581	8.46	258779	11.59	133682	13.95

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5

Internal Standard Area Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2117-CC2113	**Injection Date:**	06/27/24
Lab File ID:	5E47491.D	**Injection Time:**	07:38
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E2113-ICC2113 5E47456.D 06/25/24 14:43
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC16561-1	2A56308.D	101	98	100	98
FC16561-2	5E47508.D	96	95	107	106
FC16561-2	2A56309.D	102	100	100	100
FC16561-3	2A56310.D	103	100	100	98
FC16561-4	2A56311.D	101	100	100	99
FC16561-5	2A56306.D	100	99	101	99
FC16561-6	2A56312.D	100	101	100	98
FC16561-7	5E47509.D	97	93	106	104
FC16561-7	2A56313.D	102	99	101	99
FC16561-8	5E47510.D	95	96	104	105
FC16561-8	2A56314.D	99	99	100	99
FC16561-9	5E47511.D	93	93	107	104
FC16561-9	2A56315.D	100	100	101	98
FC16561-10	2A56316.D	101	100	101	99
FC16561-11	2A56317.D	103	100	100	99
FC16561-12	2A56320.D	101	99	101	98
FC16561-12	2A56307.D	101	99	100	98
FC16561-13	2A56318.D	100	100	100	99
FC16561-14	2A56305.D	101	99	100	100
FC16561-15	2A56319.D	102	99	100	99
FC16561-12MS	2A56327.D	95	99	102	98
FC16561-12MSD	2A56328.D	97	99	102	99
FC16561-2MS	5E47512.D	96	100	100	99
FC16561-2MSD	5E47513.D	96	95	101	102
FC16561-5MS	2A56325.D	97	101	101	97
FC16561-5MSD	2A56326.D	98	101	102	97
V2A1911-BS	2A56302.D	97	99	102	99
V2A1911-MB	2A56304.D	101	100	100	98
V5E2117-BS	5E47492.D	98	101	102	101
V5E2117-MB	5E47494.D	97	95	105	107

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

Response Factor Report MSVOA17

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Calibration Files
1 =2A56266.D 2 =2A56270.D 3 =2A56272.D 4 =2A56274.D
5 =2A56276.D 6 =2A56278.D 7 =2A56280.D 8 =2A56268.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------									
2) Dichlorodifl	0.276	0.261	0.240	0.241	0.249	0.233	0.225	0.252	0.247	6.49
3) Chloromethan		0.322	0.286	0.266	0.271	0.254	0.252	0.341	0.284	12.13
4) 1,3-butadien		0.399	0.346	0.336	0.312	0.302	0.284	0.547	0.361	24.99
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983										
Response Ratio = 0.00000 + 0.36029 *A + -0.04025 *A^2										
5) Vinyl Chlori	0.351	0.304	0.272	0.265	0.272	0.261	0.255	0.320	0.288	11.84
6) Bromomethane		0.149	0.130	0.117	0.117	0.117	0.120		0.125	10.15
7) Chloroethane		0.184	0.165	0.150	0.145	0.129	0.119	0.210	0.157	20.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992										
Response Ratio = 0.00000 + 0.16752 *A + -0.02539 *A^2										
8) Trichloroflu	0.393	0.424	0.390	0.377	0.378	0.363	0.345	0.388	0.382	6.05
9) Ethyl Ether	0.224	0.211	0.204	0.195	0.199	0.193	0.190	0.212	0.204	5.67
10) Ethanol		0.003	0.003	0.003	0.003	0.003	0.003		0.003	9.25
11) 1,2-Dichloro		0.221	0.211	0.201	0.203	0.195	0.189	0.305	0.218	18.26
---- Linear regr., Force(0,0) ---- Coefficient = 0.9993										
Response Ratio = 0.00000 + 0.19648 *A										
12) 1,1-Dichloro	0.447	0.404	0.386	0.374	0.377	0.359	0.349	0.414	0.389	8.16
13) Freon 113	0.214	0.232	0.244	0.236	0.238	0.230	0.225	0.222	0.230	4.22
14) Carbon Disul		0.788	0.733	0.710	0.726	0.695	0.677	0.848	0.740	8.04
---- Linear regr., Force(0,0) ---- Coefficient = 0.9993										
Response Ratio = 0.00000 + 0.69872 *A										
15) Iodomethane		0.109	0.124	0.178	0.209	0.218	0.207		0.174	26.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9924										
Response Ratio = 0.00000 + 0.16928 *A + 0.02375 *A^2										
16) Acrolein	0.047	0.044	0.048	0.049	0.049	0.048	0.048	0.049	0.048	3.56
17) Allyl chlori		0.384	0.368	0.371	0.380	0.362	0.355	0.440	0.380	7.50
18) Methylene Ch		0.453	0.373	0.341	0.336	0.318	0.311		0.355	14.79
19) Acetone	0.110	0.097	0.099	0.103	0.102	0.097	0.091	0.105	0.100	5.99
20) Methyl aceta	0.272	0.249	0.249	0.247	0.250	0.240	0.240	0.244	0.249	4.04
21) trans-1,2-Di	0.482	0.397	0.372	0.361	0.358	0.347	0.342	0.429	0.386	12.51
22) Hexane	0.225	0.240	0.227	0.232	0.239	0.228	0.227	0.221	0.230	2.85
23) Methyl Tert	0.684	0.709	0.719	0.690	0.722	0.691	0.693	0.697	0.701	2.03
24) Acetonitrile		0.035	0.033	0.034	0.033	0.031	0.029	0.041	0.034	11.30
25) Tert Butyl A	0.042	0.040	0.042	0.039	0.041	0.039	0.039	0.040	0.040	3.13
26) Di-isopropyl	0.887	0.776	0.787	0.754	0.781	0.762	0.762	0.830	0.792	5.67
27) Chloroprene	1.131	1.000	1.030	1.038	1.040	1.003	0.989	1.074	1.038	4.47
28) 1,1-Dichloro	0.608	0.508	0.477	0.456	0.465	0.447	0.433	0.551	0.493	12.08
29) Acrylonitril	0.132	0.124	0.128	0.125	0.127	0.121	0.121	0.124	0.125	2.87
30) ETBE	0.733	0.741	0.758	0.734	0.779	0.763	0.759	0.738	0.751	2.22
31) Vinyl acetat	0.513	0.551	0.639	0.629	0.646	0.618	0.619	0.578	0.599	7.86

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

```
32) cis-1,2-Dich 0.419 0.292 0.279 0.266 0.269 0.258 0.255 0.328 0.296  18.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.28238 *A + -0.01510 *A^2

33) 2,2-Dichloro 0.509 0.415 0.379 0.361 0.364 0.360 0.348 0.456 0.399  14.31
34) Bromochlorom 0.150 0.146 0.138 0.132 0.137 0.129 0.124 0.153 0.139   7.42
35) Cyclohexane  0.452 0.485 0.474 0.455 0.459 0.442 0.434 0.460 0.458   3.57
36) Chloroform   0.667 0.527 0.489 0.463 0.469 0.451 0.442 0.569 0.509  14.97
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.45621 *A

37) Ethyl acetat 0.316 0.295 0.342 0.337 0.351 0.336 0.338 0.314 0.328   5.61
38) Tetrahydrofu       0.123 0.126 0.110 0.121 0.115 0.114 0.111 0.117   5.35
39) Dibromofluor 0.297 0.300 0.292 0.285 0.283 0.279 0.277 0.297 0.289   3.08
40) Carbon Tetra 0.434 0.379 0.384 0.348 0.372 0.365 0.365 0.402 0.381   7.00
41) 1,1,1-Trichl 0.553 0.436 0.420 0.400 0.411 0.398 0.394 0.487 0.437  12.70
42) 2-Butanone   0.158 0.155 0.165 0.170 0.172 0.166 0.167 0.155 0.164   4.19
43) 1,1-Dichloro 0.395 0.341 0.348 0.333 0.337 0.328 0.318 0.357 0.345   6.88
44) tert-Butyl f 0.175 0.191 0.201 0.207 0.224 0.224 0.230 0.187 0.205   9.70
45) Propionitril 0.052 0.044 0.046 0.048 0.047 0.045 0.043 0.050 0.047   6.36
46) Methacryloni 0.177 0.173 0.182 0.192 0.192 0.186 0.184 0.188 0.184   3.72
47) Benzene      1.254 1.000 0.985 0.940 0.966 0.940 0.924 1.078 1.011  10.82
48) TAME         0.678 0.652 0.651 0.630 0.666 0.657 0.663 0.650 0.656   2.16
49) 1,2-Dichloro 0.350 0.356 0.351 0.349 0.354 0.353 0.308 0.348 0.346   4.51
50) 1,2-Dichloro 0.412 0.370 0.370 0.358 0.361 0.351 0.349 0.386 0.369   5.64
51) Isobutyl Alc 0.027 0.025 0.025 0.025 0.026 0.024 0.023 0.027 0.025   4.91
52) Tert Amyl Al 0.030 0.032 0.034 0.032 0.033 0.032 0.032 0.031 0.032   3.23
53) Trichloroeth 0.321 0.291 0.286 0.271 0.277 0.271 0.263 0.326 0.288   8.21
54) Methylcycloh 0.442 0.463 0.455 0.433 0.449 0.443 0.441 0.445 0.446   2.10
55) Dibromometha 0.183 0.179 0.175 0.171 0.173 0.167 0.167 0.184 0.175   3.83
56) 1,2-Dichloro 0.297 0.260 0.255 0.250 0.258 0.247 0.241 0.282 0.261   7.22
57) Bromodichlor 0.417 0.365 0.354 0.349 0.352 0.349 0.345 0.393 0.365   7.06
58) Methyl metha 0.242 0.230 0.228 0.251 0.261 0.248 0.250 0.257 0.246   4.81
59) 1,4-Dioxane        0.002 0.003 0.002 0.003 0.002 0.003       0.003   6.02
60) 2-Chloroethy 0.172 0.178 0.180 0.176 0.184 0.177 0.178 0.180 0.178   2.03
61) cis-1,3-Dich 0.398 0.395 0.394 0.390 0.399 0.392 0.393 0.411 0.396   1.67

62) I   Chlorobenzene-d5      ----------------ISTD---------------------
63) Toluene-d8   1.332 1.369 1.380 1.385 1.346 1.341 1.351 1.340 1.355   1.47
64) Toluene      1.818 1.507 1.482 1.413 1.423 1.385 1.386 1.586 1.500   9.71
65) 2-Nitropropa 0.122 0.122 0.131 0.135 0.141 0.141 0.143 0.121 0.132   7.18
66) 4-Methyl-2-p 0.447 0.425 0.456 0.459 0.456 0.447 0.451 0.441 0.448   2.42
67) trans-1,3-Di 0.498 0.466 0.489 0.495 0.516 0.520 0.526 0.457 0.496   5.00
68) Tetrachloroe 0.418 0.389 0.382 0.378 0.384 0.381 0.381 0.389 0.388   3.25
69) Ethyl methac 0.449 0.415 0.426 0.463 0.458 0.448 0.447 0.448 0.444   3.62
70) 1,1,2-Trichl 0.342 0.271 0.267 0.273 0.273 0.275 0.276 0.279 0.282   8.68
71) Dibromochlor 0.333 0.334 0.346 0.349 0.366 0.369 0.378 0.324 0.350   5.48
72) 1,3-Dichloro 0.448 0.492 0.494 0.494 0.512 0.503 0.510 0.467 0.490   4.51
73) 1,2-Dibromoe 0.316 0.314 0.337 0.336 0.352 0.345 0.349 0.328 0.335   4.28
74) 3,3-Dimethyl 0.056 0.054 0.057 0.055 0.055 0.054 0.056 0.055 0.055   2.12
75) 2-hexanone   0.418 0.429 0.460 0.446 0.440 0.424 0.424 0.432 0.434   3.19
76) 1-Chlorohexa 0.694 0.597 0.563 0.540 0.526 0.507 0.509 0.611 0.568  11.22
77) Ethylbenzene 2.101 1.742 1.707 1.626 1.657 1.611 1.609 1.852 1.738   9.67
78) Chlorobenzen 1.120 0.994 0.964 0.926 0.931 0.907 0.908 1.014 0.971   7.41
79) 1,1,1,2-Tetr 0.339 0.318 0.325 0.322 0.331 0.337 0.341 0.336 0.331   2.57
80) m,p-Xylene   1.702 1.420 1.398 1.345 1.360 1.325 1.321 1.498 1.421   8.98
81) o-Xylene     1.723 1.511 1.467 1.408 1.427 1.397 1.387 1.587 1.488   7.81
82) Styrene      1.184 1.087 1.062 1.042 1.050 1.023 1.027 1.111 1.073   4.99
83) Bromoform    0.237 0.231 0.245 0.249 0.258 0.268 0.274 0.224 0.248   7.09
84) Isopropylben 2.045 1.788 1.725 1.651 1.670 1.612 1.602 1.931 1.753   9.12
```

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

85)	I 1,4-Dichlorobenzene-d	----------	----------	----------	----------	ISTD	----------	----------	----------	----------	
86)	4-Bromofluor	0.791	0.784	0.789	0.787	0.791	0.796	0.800	0.793	0.791	0.64
87)	cis-1,4-Dich		0.177	0.181	0.204	0.213	0.225	0.239	0.229	0.210	11.37
88)	n-Propylbenz	4.584	3.611	3.522	3.416	3.504	3.454	3.462	3.944	3.687	10.83
89)	Bromobenzene	0.801	0.695	0.670	0.653	0.671	0.681	0.678	0.745	0.699	7.05
90)	1,1,2,2-Tetr	0.976	0.809	0.805	0.774	0.794	0.784	0.796	0.848	0.823	7.94
91)	1,3,5-Trimet	2.990	2.450	2.404	2.315	2.394	2.365	2.355	2.760	2.504	9.59
92)	2-Chlorotolu	2.436	1.996	1.949	1.884	1.957	1.932	1.917	2.211	2.035	9.36
93)	trans-1,4-Di		0.247	0.243	0.255	0.279	0.277	0.283	0.272	0.265	6.12
94)	1,2,3-Trichl	0.213	0.210	0.215	0.216	0.219	0.219	0.222	0.211	0.216	2.03
95)	Cyclohexanon		0.025	0.026	0.024	0.025	0.023	0.024		0.025	4.38
96)	4-Chlorotolu	2.592	2.153	2.120	2.016	2.077	2.052	2.043	2.381	2.179	9.30
97)	tert-Butylbe	1.846	1.492	1.467	1.381	1.433	1.404	1.386	1.642	1.506	10.69
98)	1,2,4-Trimet	2.743	2.340	2.248	2.174	2.282	2.266	2.255	2.433	2.343	7.63
99)	Pentachloroe	0.383	0.342	0.351	0.376	0.397	0.400	0.406	0.364	0.377	6.26
100)	sec-Butylben	3.888	3.175	3.060	2.947	3.076	2.979	2.936	3.313	3.172	9.96
101)	4-Isopropylt	3.343	2.655	2.583	2.489	2.576	2.525	2.502	2.873	2.693	10.76
102)	1,3-Dichloro	1.551	1.373	1.335	1.276	1.326	1.291	1.290	1.439	1.360	6.89
103)	1,2,3-Trimet	2.520	2.300	2.281	2.199	2.307	2.267	2.269	2.431	2.322	4.44
104)	1,4-Dichloro	1.571	1.373	1.333	1.285	1.334	1.300	1.277	1.410	1.360	7.07
105)	n-Butylbenze	1.452	1.201	1.186	1.140	1.191	1.156	1.167	1.362	1.232	9.13
106)	Benzyl Chlor	0.270	0.284	0.295	0.307	0.325	0.324	0.326	0.286	0.302	7.14
107)	1,2-Dichloro	1.284	1.274	1.218	1.158	1.212	1.177	1.164	1.273	1.220	4.25
108)	1,2-Dibromo-	0.158	0.164	0.165	0.170	0.169	0.165	0.165	0.179	0.167	3.58
109)	Hexachlorobu	0.435	0.357	0.342	0.312	0.322	0.304	0.307	0.385	0.346	13.16
110)	1,2,4-Trichl	0.825	0.768	0.742	0.706	0.726	0.701	0.715	0.754	0.742	5.51
111)	Naphthalene	2.132	2.055	2.059	1.964	2.013	1.951	1.983	2.066	2.028	3.02
112)	1,2,3-Trichl	0.732	0.672	0.663	0.623	0.641	0.627	0.644	0.706	0.664	5.81

(#) = Out of Range ### Number of calibration levels exceeded format ###

V2A1910_06252024.M Tue Jun 25 13:47:03 2024

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\06-25-2024\2A56284.D Vial: 61
Acq On : 25 Jun 2024 1:01 pm Operator: jeniferw
Sample : ICV1910-5 Inst : MSVOA17
Misc : MS56892,V2A1910,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	101	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.268	-8.5	109	0.00	1.03
3	Chloromethane	0.284	0.273	3.9	102	0.00	1.13
		Amount	Calc.	%Drift			
4	1,3-butadiene	40.000	37.110	7.2	99	0.00	1.19
		AvgRF	CCRF	%Dev			
5	Vinyl Chloride	0.288	0.273	5.2	101	0.00	1.18
6	Bromomethane	0.125	0.112	10.4	96	0.00	1.35
		Amount	Calc.	%Drift			
7	Chloroethane	40.000	39.267	1.8	101	0.00	1.42
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.382	0.382	0.0	102	0.00	1.50
9	Ethyl Ether	0.204	0.188	7.8	95	0.00	1.66
10	Ethanol	0.003	0.003	0.0	92	0.00	1.71
		Amount	Calc.	%Drift			
11	1,2-Dichlorotrifluoroetha	40.000	56.252	-40.6#	137	0.00	1.75
		AvgRF	CCRF	%Dev			
12	1,1-Dichloroethene	0.389	0.364	6.4	98	0.00	1.77
13	Freon 113	0.230	0.229	0.4	97	0.00	1.79
		Amount	Calc.	%Drift			
14	Carbon Disulfide	40.000	33.319	16.7	81	0.00	1.79
15	Iodomethane	40.000	33.891	15.3	76	0.00	1.83
		AvgRF	CCRF	%Dev			
16	Acrolein	0.048	0.056	-16.7	117	0.00	1.91
17	Allyl chloride	0.380	0.371	2.4	99	0.00	2.00
18	Methylene Chloride	0.355	0.343	3.4	103	0.00	2.04
19	Acetone	0.100	0.100	0.0	99	0.00	2.05
20	Methyl acetate	0.249	0.250	-0.4	101	0.00	2.13
21	trans-1,2-Dichloroethene	0.386	0.353	8.5	100	0.00	2.13
22	Hexane	0.230	0.221	3.9	93	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.703	-0.3	98	0.00	2.20
24	Acetonitrile	0.034	0.031	8.8	95	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.037	7.5	92	0.00	2.21
26	Di-isopropyl ether	0.792	0.730	7.8	94	0.00	2.40

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

27		Chloroprene	1.038	1.004	3.3	98	0.00	2.44
28		1,1-Dichloroethane	0.493	0.444	9.9	97	0.00	2.44
29		Acrylonitrile	0.125	0.119	4.8	95	0.00	2.44
30		ETBE	0.751	0.725	3.5	94	0.00	2.58
31		Vinyl acetate	0.599	0.662	-10.5	104	0.00	2.56
		----------	Amount	Calc.	%Drift	----------		
32		cis-1,2-Dichloroethene	40.000	37.831	5.4	96	0.00	2.72
		----------	AvgRF	CCRF	%Dev	----------		
33		2,2-Dichloropropane	0.399	0.384	3.8	107	0.00	2.78
34		Bromochloromethane	0.139	0.131	5.8	97	0.00	2.82
35		Cyclohexane	0.458	0.439	4.1	97	0.00	2.86
		----------	Amount	Calc.	%Drift	----------		
36		Chloroform	40.000	39.888	0.3	98	0.00	2.86
		----------	AvgRF	CCRF	%Dev	----------		
37		Ethyl acetate	0.328	0.337	-2.7	97	0.00	2.91
38		Tetrahydrofuran	0.117	0.110	6.0	92	0.00	2.94
39	S	Dibromofluoromethane	0.289	0.286	1.0	102	0.00	2.96
40		Carbon Tetrachloride	0.381	0.373	2.1	101	0.00	2.96
41		1,1,1-Trichloroethane	0.437	0.396	9.4	97	0.00	2.99
42		2-Butanone	0.164	0.156	4.9	92	0.00	3.00
43		1,1-Dichloropropene	0.345	0.339	1.7	102	0.00	3.05
44		tert-Butyl formate	0.205	0.235	-14.6	106	0.00	3.10
45		Propionitrile	0.047	0.045	4.3	97	0.00	3.14
46		Methacrylonitrile	0.184	0.192	-4.3	101	0.00	3.17
47		Benzene	1.011	0.943	6.7	99	0.00	3.18
48		TAME	0.656	0.618	5.8	94	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.351	-1.4	100	0.00	3.24
50		1,2-Dichloroethane	0.369	0.361	2.2	101	0.00	3.27
51		Isobutyl Alcohol	0.025	0.025	0.0	97	0.00	3.25
52		Tert Amyl Alcohol	0.032	0.032	0.0	100	0.00	3.32
53		Trichloroethene	0.288	0.273	5.2	100	0.00	3.51
54		Methylcyclohexane	0.446	0.442	0.9	99	0.00	3.53
55		Dibromomethane	0.175	0.171	2.3	100	0.00	3.74
56		1,2-Dichloropropane	0.261	0.260	0.4	102	0.00	3.79
57		Bromodichloromethane	0.365	0.335	8.2	96	0.00	3.83
58		Methyl methacrylate	0.246	0.258	-4.9	100	0.00	3.92
59		1,4-Dioxane	0.003	0.003	0.0	102	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.182	-2.2	100	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.395	0.3	100	0.00	4.20
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	5.35
63	S	Toluene-d8	1.355	1.357	-0.1	102	0.00	4.34
64		Toluene	1.500	1.403	6.5	100	0.00	4.37
65		2-Nitropropane	0.132	0.142	-7.6	102	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.459	-2.5	102	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.480	3.2	94	0.00	4.61
68		Tetrachloroethene	0.388	0.374	3.6	98	0.00	4.63
69		Ethyl methacrylate	0.444	0.450	-1.4	99	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.263	6.7	98	0.00	4.71
71		Dibromochloromethane	0.350	0.364	-4.0	100	0.00	4.84
72		1,3-Dichloropropane	0.490	0.529	-8.0	104	0.00	4.89
73		1,2-Dibromoethane	0.335	0.344	-2.7	99	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.054	1.8	100	0.00	5.12
75		2-hexanone	0.434	0.449	-3.5	103	0.00	5.14
76		1-Chlorohexane	0.568	0.511	10.0	98	0.00	5.36
77		Ethylbenzene	1.738	1.620	6.8	99	0.00	5.39

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

78		Chlorobenzene	0.971	0.902	7.1	98	0.00	5.36
79		1,1,1,2-Tetrachloroethane	0.331	0.324	2.1	99	0.00	5.41
80		m,p-Xylene	1.421	1.312	7.7	98	0.00	5.50
81		o-Xylene	1.488	1.358	8.7	96	0.00	5.80
82		Styrene	1.073	1.031	3.9	99	0.00	5.83
83		Bromoform	0.248	0.249	-0.4	98	0.00	5.84
84		Isopropylbenzene	1.753	1.613	8.0	98	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.788	0.4	102	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.218	-3.8	105	0.00	6.26
88		n-Propylbenzene	3.687	3.345	9.3	98	0.00	6.34
89		Bromobenzene	0.699	0.684	2.1	104	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.761	7.5	98	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.302	8.1	98	0.00	6.50
92		2-Chlorotoluene	2.035	1.869	8.2	98	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.285	-7.5	105	0.00	6.50
94		1,2,3-Trichloropropane	0.216	0.227	-5.1	106	0.00	6.46
95		Cyclohexanone	0.025	0.035	-40.0#	142	0.00	6.48
96		4-Chlorotoluene	2.179	1.977	9.3	97	0.00	6.58
97		tert-Butylbenzene	1.506	1.359	9.8	97	0.00	6.74
98		1,2,4-Trimethylbenzene	2.343	2.197	6.2	99	0.00	6.80
99		Pentachloroethane	0.377	0.390	-3.4	100	0.00	6.74
100		sec-Butylbenzene	3.172	2.774	12.5	92	0.00	6.88
101		4-Isopropyltoluene	2.693	2.425	10.0	96	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.252	7.9	97	0.00	7.03
103		1,2,3-Trimethylbenzene	2.322	2.177	6.2	97	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.274	6.3	98	0.00	7.10
105		n-Butylbenzene	1.232	1.187	3.7	102	0.00	7.34
106		Benzyl Chloride	0.302	0.325	-7.6	102	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.166	4.4	98	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.165	1.2	100	0.00	8.00
109		Hexachlorobutadiene	0.346	0.321	7.2	102	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.688	7.3	97	0.00	8.50
111		Naphthalene	2.028	1.880	7.3	96	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.618	6.9	99	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A56276.D V2A1910_06252024.M Tue Jun 25 13:48:29 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1911-CC1910
Lab FileID: 2A56301.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\06-26-2024\2A56301.D Vial: 2
Acq On : 26 Jun 2024 7:56 am Operator: jeniferw
Sample : CC1910-4 Inst : MSVOA17
Misc : MS56910,V2A1911,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.228	7.7	95	0.00	1.03
3	Chloromethane	0.284	0.266	6.3	100	0.00	1.13
	----------	Amount	Calc.	%Drift	----------		
4	1,3-butadiene	25.000	24.206	3.2	98	0.00	1.19
	----------	AvgRF	CCRF	%Dev	----------		
5	Vinyl Chloride	0.288	0.275	4.5	104	0.00	1.17
6	Bromomethane	0.125	0.123	1.6	106	0.00	1.35
	----------	Amount	Calc.	%Drift	----------		
7	Chloroethane	25.000	24.305	2.8	101	0.00	1.42
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	0.382	0.380	0.5	101	0.00	1.50
9	Ethyl Ether	0.204	0.188	7.8	96	0.00	1.66
10	Ethanol	0.003	0.003	0.0	124	0.00	1.71
	----------	Amount	Calc.	%Drift	----------		
11	1,2-Dichlorotrifluoroetha	25.000	25.380	-1.5	99	0.00	1.75
	----------	AvgRF	CCRF	%Dev	----------		
12	1,1-Dichloroethene	0.389	0.366	5.9	98	0.00	1.76
13	Freon 113	0.230	0.225	2.2	95	0.00	1.79
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide	25.000	25.549	-2.2	101	0.00	1.78
15	Iodomethane	25.000	22.022	11.9	89	0.00	1.83
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.048	0.048	0.0	98	0.00	1.91
17	Allyl chloride	0.380	0.380	0.0	103	0.00	2.00
18	Methylene Chloride	0.355	0.334	5.9	98	0.00	2.04
19	Acetone	0.100	0.105	-5.0	101	0.00	2.05
20	Methyl acetate	0.249	0.244	2.0	99	0.00	2.13
21	trans-1,2-Dichloroethene	0.386	0.358	7.3	99	0.00	2.13
22	Hexane	0.230	0.224	2.6	96	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.673	4.0	97	0.00	2.20
24	Acetonitrile	0.034	0.036	-5.9	106	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.043	-7.5	109	0.00	2.21
26	Di-isopropyl ether	0.792	0.747	5.7	99	0.00	2.40

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V2A1911-CC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56301.D
Project: Former Seneca Army Depot; Romulus, NY

27		Chloroprene	1.038	1.042	-0.4	100	0.00	2.44
28		1,1-Dichloroethane	0.493	0.455	7.7	100	0.00	2.44
29		Acrylonitrile	0.125	0.127	-1.6	101	0.00	2.44
30		ETBE	0.751	0.721	4.0	98	0.00	2.58
31		Vinyl acetate	0.599	0.640	-6.8	102	0.00	2.56
		----------	Amount	Calc.	%Drift	----------		
32		cis-1,2-Dichloroethene	25.000	23.438	6.2	97	0.00	2.72
		----------	AvgRF	CCRF	%Dev	----------		
33		2,2-Dichloropropane	0.399	0.365	8.5	101	0.00	2.78
34		Bromochloromethane	0.139	0.125	10.1	95	0.00	2.82
35		Cyclohexane	0.458	0.440	3.9	97	0.00	2.86
		----------	Amount	Calc.	%Drift	----------		
36		Chloroform	25.000	24.712	1.2	97	0.00	2.86
		----------	AvgRF	CCRF	%Dev	----------		
37		Ethyl acetate	0.328	0.345	-5.2	102	0.00	2.91
38		Tetrahydrofuran	0.117	0.121	-3.4	110	0.00	2.94
39	S	Dibromofluoromethane	0.289	0.276	4.5	97	0.00	2.95
40		Carbon Tetrachloride	0.381	0.367	3.7	105	0.00	2.96
41		1,1,1-Trichloroethane	0.437	0.393	10.1	98	0.00	2.99
42		2-Butanone	0.164	0.179	-9.1	105	0.00	3.00
43		1,1-Dichloropropene	0.345	0.332	3.8	100	0.00	3.05
44		tert-Butyl formate	0.205	0.232	-13.2	112	0.00	3.10
45		Propionitrile	0.047	0.048	-2.1	102	0.00	3.14
46		Methacrylonitrile	0.184	0.193	-4.9	100	0.00	3.17
47		Benzene	1.011	0.949	6.1	101	0.00	3.18
48		TAME	0.656	0.636	3.0	101	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.338	2.3	97	0.00	3.24
50		1,2-Dichloroethane	0.369	0.346	6.2	97	0.00	3.27
51		Isobutyl Alcohol	0.025	0.027	-8.0	108	0.00	3.26
52		Tert Amyl Alcohol	0.032	0.036	-12.5	112	0.00	3.32
53		Trichloroethene	0.288	0.272	5.6	101	0.00	3.51
54		Methylcyclohexane	0.446	0.430	3.6	99	0.00	3.53
55		Dibromomethane	0.175	0.165	5.7	97	0.00	3.74
56		1,2-Dichloropropane	0.261	0.237	9.2	95	0.00	3.79
57		Bromodichloromethane	0.365	0.325	11.0	93	0.00	3.83
58		Methyl methacrylate	0.246	0.257	-4.5	102	0.00	3.92
59		1,4-Dioxane	0.003	0.003	0.0	110	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.182	-2.2	103	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.374	5.6	96	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00	5.35
63	S	Toluene-d8	1.355	1.394	-2.9	98	0.00	4.34
64		Toluene	1.500	1.438	4.1	99	0.00	4.37
65		2-Nitropropane	0.132	0.144	-9.1	104	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.478	-6.7	102	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.506	-2.0	100	0.00	4.61
68		Tetrachloroethene	0.388	0.387	0.3	100	0.00	4.63
69		Ethyl methacrylate	0.444	0.447	-0.7	94	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.268	5.0	96	0.00	4.71
71		Dibromochloromethane	0.350	0.351	-0.3	98	0.00	4.84
72		1,3-Dichloropropane	0.490	0.495	-1.0	98	0.00	4.89
73		1,2-Dibromoethane	0.335	0.346	-3.3	101	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.059	-7.3	106	0.00	5.12
75		2-hexanone	0.434	0.469	-8.1	103	0.00	5.14
76		1-Chlorohexane	0.568	0.511	10.0	92	0.00	5.36
77		Ethylbenzene	1.738	1.665	4.2	100	0.00	5.39

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V2A1911-CC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56301.D
Project: Former Seneca Army Depot; Romulus, NY

78		Chlorobenzene	0.971	0.904	6.9	95	0.00	5.36
79		1,1,1,2-Tetrachloroethane	0.331	0.325	1.8	99	0.00	5.41
80		m,p-Xylene	1.421	1.331	6.3	97	0.00	5.50
81		o-Xylene	1.488	1.389	6.7	96	0.00	5.80
82		Styrene	1.073	0.995	7.3	93	0.00	5.84
83		Bromoform	0.248	0.256	-3.2	101	0.00	5.84
84		Isopropylbenzene	1.753	1.615	7.9	96	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.785	0.8	95	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.217	-3.3	101	0.00	6.26
88		n-Propylbenzene	3.687	3.422	7.2	95	0.00	6.35
89		Bromobenzene	0.699	0.654	6.4	95	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.798	3.0	98	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.306	7.9	95	0.00	6.51
92		2-Chlorotoluene	2.035	1.881	7.6	95	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.268	-1.1	100	0.00	6.50
94		1,2,3-Trichloropropane	0.216	0.222	-2.8	98	0.00	6.47
95		Cyclohexanone	0.025	0.028	-12.0	110	0.00	6.48
96		4-Chlorotoluene	2.179	1.991	8.6	94	0.00	6.58
97		tert-Butylbenzene	1.506	1.374	8.8	95	0.00	6.75
98		1,2,4-Trimethylbenzene	2.343	2.174	7.2	95	0.00	6.80
99		Pentachloroethane	0.377	0.393	-4.2	99	0.00	6.75
100		sec-Butylbenzene	3.172	2.885	9.0	93	0.00	6.89
101		4-Isopropyltoluene	2.693	2.440	9.4	93	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.270	6.6	95	0.00	7.04
103		1,2,3-Trimethylbenzene	2.322	2.174	6.4	94	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.268	6.8	94	0.00	7.11
105		n-Butylbenzene	1.232	1.110	9.9	93	0.00	7.34
106		Benzyl Chloride	0.302	0.325	-7.6	101	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.147	6.0	94	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.176	-5.4	99	0.00	8.01
109		Hexachlorobutadiene	0.346	0.320	7.5	97	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.700	5.7	94	0.00	8.50
111		Naphthalene	2.028	1.988	2.0	96	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.626	5.7	95	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A56274.D V2A1910_06252024.M Wed Jun 26 08:28:46 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1911-ECC1910
Lab FileID: 2A56329.D

Evaluate Continuing Calibration Report

Data File : R:\GBS Manila Data V...911\V2A1911\2A56329.d Vial: 30
Acq On : 26 Jun 2024 7:08 pm Operator: jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : R:\GBS Manila Da...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	94	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.221	10.5	86	0.00	1.02
3	Chloromethane	0.284	0.261	8.1	92	0.00	1.13
	----------	True	Calc.	% Drift	----------		
4	1,3-butadiene	25.000	24.308	2.8	93	0.00	1.18
	----------	AvgRF	CCRF	% Dev	----------		
5	Vinyl Chloride	0.288	0.261	9.4	92	0.00	1.17
6	Bromomethane	0.125	0.117	6.4	94	0.00	1.34
	----------	True	Calc.	% Drift	----------		
7	Chloroethane	25.000	24.446	2.2	95	0.00	1.41
	----------	AvgRF	CCRF	% Dev	----------		
8	Trichlorofluoromethane	0.382	0.381	0.3	95	0.00	1.50
9	Ethyl Ether	0.204	0.200	2.0	96	0.00	1.66
10	Ethanol	0.003	0.004	-33.3	141	0.00	1.70
	----------	True	Calc.	% Drift	----------		
11	1,2-Dichlorotrifluoroetha	25.000	24.723	1.1	91	0.00	1.74
	----------	AvgRF	CCRF	% Dev	----------		
12	1,1-Dichloroethene	0.389	0.356	8.5	89	0.00	1.76
13	Freon 113	0.230	0.223	3.0	89	0.00	1.78
	----------	True	Calc.	% Drift	----------		
14	Carbon Disulfide	25.000	23.827	4.7	88	0.00	1.78
15	Iodomethane	25.000	24.664	1.3	94	0.00	1.83
	----------	AvgRF	CCRF	% Dev	----------		
16	Acrolein	0.048	0.047	2.1	90	0.00	1.90
17	Allyl chloride	0.380	0.356	6.3	90	0.00	2.00
18	Methylene Chloride	0.355	0.352	0.8	97	0.00	2.04
19	Acetone	0.100	0.112	-12.0	102	0.00	2.05
20	Methyl acetate	0.249	0.256	-2.8	98	0.00	2.12
21	trans-1,2-Dichloroethene	0.386	0.342	11.4	89	0.00	2.13
22	Hexane	0.230	0.228	0.9	92	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.694	1.0	94	0.00	2.19
24	Acetonitrile	0.034	0.038	-11.8	106	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.048	-20.0	115	0.00	2.21
26	Di-isopropyl ether	0.792	0.783	1.1	98	0.00	2.39

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1911-ECC1910
Lab FileID: 2A56329.D

27		Chloroprene	1.038	1.039	-0.1	94	0.00	2.44
28		1,1-Dichloroethane	0.493	0.449	8.9	93	0.00	2.44
29		Acrylonitrile	0.125	0.129	-3.2	97	0.00	2.44
30		ETBE	0.751	0.769	-2.4	98	0.00	2.58
31		Vinyl acetate	0.599	0.650	-8.5	97	0.00	2.56
		----------	True	Calc.	% Drift	----------		
32		cis-1,2-Dichloroethene	25.000	23.715	5.1	92	0.00	2.72
		----------	AvgRF	CCRF	% Dev	----------		
33		2,2-Dichloropropane	0.399	0.325	18.5	85	0.00	2.78
34		Bromochloromethane	0.139	0.133	4.3	95	0.00	2.82
35		Cyclohexane	0.458	0.443	3.3	91	0.00	2.86
		----------	True	Calc.	% Drift	----------		
36		Chloroform	25.000	24.643	1.4	91	0.00	2.86
		----------	AvgRF	CCRF	% Dev	----------		
37		Ethyl acetate	0.328	0.360	-9.8	100	0.00	2.91
38		Tetrahydrofuran	0.117	0.126	-7.7	108	0.00	2.94
39	S	Dibromofluoromethane	0.289	0.278	3.8	92	0.00	2.95
40		Carbon Tetrachloride	0.381	0.330	13.4	89	0.00	2.96
41		1,1,1-Trichloroethane	0.437	0.387	11.4	91	0.00	2.98
42		2-Butanone	0.164	0.189	-15.2	104	0.00	3.00
43		1,1-Dichloropropene	0.345	0.321	7.0	91	0.00	3.05
44		tert-Butyl formate	0.205	0.223	-8.8	101	0.00	3.09
45		Propionitrile	0.047	0.050	-6.4	99	0.00	3.14
46		Methacrylonitrile	0.184	0.199	-8.2	97	0.00	3.17
47		Benzene	1.011	0.941	6.9	94	0.00	3.18
48		TAME	0.656	0.678	-3.4	101	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.347	-0.3	93	0.00	3.24
50		1,2-Dichloroethane	0.369	0.365	1.1	96	0.00	3.27
51		Isobutyl Alcohol	0.025	0.030	-20.0	111	0.00	3.25
52		Tert Amyl Alcohol	0.032	0.040	-25.0	118	0.00	3.32
53		Trichloroethene	0.288	0.265	8.0	92	0.00	3.50
54		Methylcyclohexane	0.446	0.437	2.0	95	0.00	3.53
55		Dibromomethane	0.175	0.171	2.3	94	0.00	3.73
56		1,2-Dichloropropane	0.261	0.246	5.7	92	0.00	3.79
57		Bromodichloromethane	0.365	0.334	8.5	90	0.00	3.83
58		Methyl methacrylate	0.246	0.266	-8.1	99	0.00	3.92
59		1,4-Dioxane	0.003	0.004	-33.3	149	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.189	-6.2	101	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.379	4.3	91	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	5.35
63	S	Toluene-d8	1.355	1.384	-2.1	92	0.00	4.34
64		Toluene	1.500	1.445	3.7	94	0.00	4.37
65		2-Nitropropane	0.132	0.139	-5.3	95	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.508	-13.4	102	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.503	-1.4	94	0.00	4.61
68		Tetrachloroethene	0.388	0.399	-2.8	97	0.00	4.63
69		Ethyl methacrylate	0.444	0.460	-3.6	91	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.282	0.0	95	0.00	4.71
71		Dibromochloromethane	0.350	0.345	1.4	91	0.00	4.84
72		1,3-Dichloropropane	0.490	0.528	-7.8	98	0.00	4.89
73		1,2-Dibromoethane	0.335	0.353	-5.4	97	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.065	-18.2	110	0.00	5.12
75		2-hexanone	0.434	0.503	-15.9	104	0.00	5.14
76		1-Chlorohexane	0.568	0.515	9.3	88	0.00	5.36
77		Ethylbenzene	1.738	1.659	4.5	94	0.00	5.39

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V2A1911-ECC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56329.D
Project: Former Seneca Army Depot; Romulus, NY

78		Chlorobenzene	0.971	0.937	3.5	93	0.00	5.36
79		1,1,1,2-Tetrachloroethane	0.331	0.339	-2.4	97	0.00	5.41
80		m,p-Xylene	1.421	1.339	5.8	91	0.00	5.50
81		o-Xylene	1.488	1.405	5.6	92	0.00	5.80
82		Styrene	1.073	1.024	4.6	90	0.00	5.83
83		Bromoform	0.248	0.243	2.0	90	0.00	5.84
84		Isopropylbenzene	1.753	1.619	7.6	90	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.781	1.3	92	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.191	9.0	87	0.00	6.26
88		n-Propylbenzene	3.687	3.340	9.4	90	0.00	6.34
89		Bromobenzene	0.699	0.664	5.0	94	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.799	2.9	95	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.290	8.5	91	0.00	6.51
92		2-Chlorotoluene	2.035	1.885	7.4	92	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.261	1.5	95	0.00	6.50
94		1,2,3-Trichloropropane	0.216	0.228	-5.6	97	0.00	6.47
95		Cyclohexanone	0.025	0.034	-36.0	131	0.00	6.48
96		4-Chlorotoluene	2.179	1.989	8.7	91	0.00	6.58
97		tert-Butylbenzene	1.506	1.391	7.6	93	0.00	6.75
98		1,2,4-Trimethylbenzene	2.343	2.212	5.6	94	0.00	6.80
99		Pentachloroethane	0.377	0.343	9.0	84	0.00	6.75
100		sec-Butylbenzene	3.172	2.933	7.5	92	0.00	6.89
101		4-Isopropyltoluene	2.693	2.506	6.9	93	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.278	6.0	93	0.00	7.04
103		1,2,3-Trimethylbenzene	2.322	2.223	4.3	93	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.286	5.4	92	0.00	7.11
105		n-Butylbenzene	1.232	1.162	5.7	94	0.00	7.34
106		Benzyl Chloride	0.302	0.265	12.3	80	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.170	4.1	93	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.163	2.4	89	0.00	8.01
109		Hexachlorobutadiene	0.346	0.320	7.5	95	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.722	2.7	94	0.00	8.50
111		Naphthalene	2.028	2.016	0.6	95	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.641	3.5	95	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A56274.D V2A1910_06252024.M Thu Jun 27 07:00:22 2024

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

Response Factor Report MSVOA20_5E

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Calibration Files
1 =5E47451.D 2 =5E47453.D 3 =5E47454.D 4 =5E47455.D
5 =5E47456.D 6 =5E47457.D 7 =5E47458.D 8 =5E47452.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------									
2) Dichlorodifl	0.176	0.151	0.154	0.144	0.158	0.159	0.162	0.146	0.156	6.38
3) Chloromethan	0.369	0.253	0.253	0.231	0.237	0.241	0.247	0.264	0.262	16.94
---- Linear regr., Force(0,0) ---- Coefficient = 0.9991										
Response Ratio = 0.00000 + 0.24308 *A										
4) Vinyl Chlori	0.433	0.309	0.319	0.293	0.308	0.306	0.291	0.299	0.320	14.61
5) 1,3-Butadien	0.724	0.566	0.490	0.411	0.405	0.374	0.366	0.535	0.484	25.28
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.39044 *A										
6) Bromomethane	0.313	0.190	0.203	0.185	0.201	0.221	0.235	0.223	0.222	18.32
---- Linear regr., Force(0,0) ---- Coefficient = 0.9921										
Response Ratio = 0.00000 + 0.21907 *A										
7) Chloroethane	0.277	0.204	0.228	0.261	0.213			0.212	0.232	12.81
8) Trichloroflu	0.373	0.281	0.279	0.275	0.308	0.323	0.371	0.269	0.310	13.65
9) Ethyl Ether	0.141	0.133	0.161	0.142	0.151	0.156	0.165	0.151	0.150	7.21
10) Ethanol		0.000	0.001	0.003	0.003	0.003	0.003		0.002	60.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.00314 *A										
11) 1,2-Dichloro	0.124	0.143	0.157	0.150	0.161	0.163	0.175	0.195	0.158	13.28
12) 1,1-Dichloro	0.238	0.241	0.272	0.240	0.270	0.280	0.300	0.294	0.267	9.25
13) Freon 113	0.125	0.153	0.188	0.166	0.184	0.188	0.197	0.203	0.175	14.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9968										
Response Ratio = 0.00000 + 0.18777 *A										
14) Carbon Disul	0.549	0.484	0.518	0.457	0.502	0.524	0.561	0.607	0.525	8.94
15) Iodomethane	0.074	0.115	0.174	0.180	0.196	0.208	0.220	0.099	0.158	34.48
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.20337 *A										
16) Acrolein	0.023	0.034	0.033	0.038	0.041	0.044	0.045	0.034	0.036	19.96
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.04237 *A										
17) Allyl chlori	0.371	0.327	0.275	0.270	0.288	0.302	0.310	0.246	0.298	12.88
18) Methylene Ch	0.955	0.397	0.380	0.270	0.276	0.274	0.285	0.673	0.439	56.68
---- Linear regr., Force(0,0) ---- Coefficient = 0.9965										
Response Ratio = 0.00000 + 0.29052 *A										
19) Acetone	0.087	0.084	0.084	0.089	0.084	0.091	0.094	0.093	0.088	4.69
20) Methyl aceta	0.165	0.172	0.206	0.201	0.210	0.234	0.248	0.171	0.201	15.17
---- Linear regr., Force(0,0) ---- Coefficient = 0.9939										
Response Ratio = 0.00000 + 0.22958 *A										

```
21) trans-1,2-Di 0.254 0.231 0.268 0.238 0.263 0.282 0.308 0.281 0.266   9.45
22) Hexane       0.110 0.155 0.172 0.151 0.170 0.171 0.180 0.189 0.162  14.99
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9969
              Response Ratio = 0.00000 + 0.17216 *A

23) Methyl Tert  0.452 0.442 0.514 0.477 0.513 0.545 0.574 0.513 0.504   8.93
24) Acetonitrile 0.034 0.033 0.032 0.032 0.033 0.037 0.038 0.028 0.033   9.39
25) Di-isopropyl 0.627 0.606 0.726 0.635 0.667 0.688 0.722 0.724 0.674   7.11
26) Chloroprene  0.193 0.241 0.213 0.222 0.242 0.261 0.280 0.199 0.231  13.00
27) 1,1-Dichloro 0.326 0.313 0.376 0.328 0.350 0.364 0.390 0.372 0.352   7.83
28) Acrylonitril 0.082 0.103 0.082 0.097 0.102 0.111 0.115 0.090 0.098  12.73
29) ETBE         0.447 0.457 0.567 0.507 0.551 0.598 0.648 0.545 0.540  12.63
30) Tert Butyl A 0.025 0.030 0.036 0.035 0.037 0.042 0.043 0.032 0.035  16.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9944
              Response Ratio = 0.00000 + 0.04020 *A

31) Vinyl acetat 0.012 0.422 0.420 0.500 0.545 0.610 0.652 0.384 0.443  44.80
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9915
              Response Ratio = 0.00000 + 0.59015 *A

32) cis-1,2-Dich 0.174 0.179 0.211 0.189 0.199 0.200 0.216 0.202 0.196   7.43
33) 2,2-Dichloro 0.209 0.206 0.229 0.215 0.236 0.241 0.259 0.221 0.227   7.89
34) Bromochlorom 0.067 0.083 0.096 0.084 0.088 0.090 0.096 0.068 0.084  13.41
35) Cyclohexane  0.241 0.297 0.341 0.310 0.349 0.363 0.384 0.341 0.328  13.63
36) Chloroform   0.277 0.292 0.342 0.317 0.334 0.349 0.372 0.331 0.327   9.41
37) Ethyl acetat 0.291 0.285 0.273 0.303 0.318 0.343 0.355 0.276 0.306  10.03
38) Tetrahydrofu 0.088 0.127 0.140 0.112 0.111 0.119 0.118 0.133 0.118  13.42
39) Dibromofluor 0.251 0.255 0.257 0.256 0.259 0.267 0.271 0.259 0.259   2.52
40) Carbon Tetra 0.138 0.165 0.193 0.180 0.207 0.223 0.243 0.205 0.194  17.03
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9910
              Response Ratio = 0.00000 + 0.22110 *A

41) 1,1,1-Trichl 0.230 0.217 0.260 0.232 0.254 0.264 0.285 0.265 0.251   9.06
42) 2-Butanone   0.011 0.134 0.145 0.164 0.154 0.168 0.171 0.138 0.136  38.39
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.16399 *A

43) 1,1-Dichloro 0.206 0.203 0.245 0.228 0.253 0.259 0.275 0.249 0.240  10.63
44) tert-Butyl f 0.030 0.031 0.042 0.043 0.049 0.060 0.066 0.035 0.044  29.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.03655 *A + 0.00153 *A^2

45) Propionitril 0.037 0.043 0.042 0.044 0.046 0.055 0.059 0.030 0.045  20.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.03910 *A + 0.00102 *A^2

46) Methacryloni 0.178 0.188 0.186 0.191 0.210 0.244 0.263 0.149 0.201  18.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.17446 *A + 0.00456 *A^2

47) Benzene      0.806 0.703 0.797 0.719 0.788 0.843 0.913 0.836 0.801   8.44
48) TAME         0.443 0.436 0.523 0.498 0.536 0.567 0.611 0.500 0.514  11.47
49) 1,2-Dichloro 0.290 0.289 0.297 0.310 0.303 0.322 0.329 0.294 0.304   4.97
50) 1,2-Dichloro 0.208 0.212 0.255 0.232 0.249 0.260 0.274 0.249 0.242   9.60
51) tert Amyl al 0.017 0.020 0.026 0.026 0.028 0.031 0.033 0.019 0.025  22.72
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9933
              Response Ratio = 0.00000 + 0.03016 *A

52) Trichloroeth 0.181 0.184 0.197 0.178 0.194 0.211 0.228 0.201 0.197   8.47
```

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

53) Methylcycloh 0.222 0.275 0.321 0.291 0.345 0.356 0.386 0.339 0.317 16.45
---- Linear regr., Force(0,0) ---- Coefficient = 0.9930
Response Ratio = 0.00000 + 0.35604 *A

54) Dibromometha 0.071 0.099 0.123 0.112 0.120 0.129 0.133 0.114 0.113 17.84
---- Linear regr., Force(0,0) ---- Coefficient = 0.9968
Response Ratio = 0.00000 + 0.12645 *A

55) 1,2-Dichloro 0.165 0.170 0.200 0.181 0.193 0.196 0.208 0.193 0.188 7.93
56) Bromodichlor 0.171 0.180 0.220 0.203 0.222 0.242 0.258 0.218 0.214 13.56
57) Methyl metha 0.057 0.192 0.195 0.197 0.204 0.218 0.222 0.070 0.169 39.21
---- Linear regr., Force(0,0) ---- Coefficient = 0.9982
Response Ratio = 0.00000 + 0.21217 *A

58) 1,4-Dioxane 0.002 0.002 0.002 0.003 0.003 0.003 0.001 0.002 37.49
---- Linear regr., Force(0,0) ---- Coefficient = 0.9934
Response Ratio = 0.00000 + 0.00281 *A

59) 2-Chloroethy 0.058 0.069 0.087 0.088 0.089 0.101 0.098 0.073 0.083 17.87
---- Linear regr., Force(0,0) ---- Coefficient = 0.9970
Response Ratio = 0.00000 + 0.09496 *A

60) cis-1,3-Dich 0.152 0.192 0.254 0.242 0.267 0.285 0.301 0.213 0.238 20.93
---- Linear regr., Force(0,0) ---- Coefficient = 0.9949
Response Ratio = 0.00000 + 0.28014 *A

61) I Chlorobenzene-d5 ----------ISTD----------
62) Toluene-d8 1.452 1.446 1.470 1.426 1.374 1.310 1.221 1.473 1.397 6.43
63) Toluene 1.479 1.067 1.245 1.059 1.101 1.085 1.099 1.353 1.186 13.23
64) Isobutyl alc 0.020 0.019 0.019 0.021 0.022 0.025 0.024 0.016 0.021 13.81
65) 2-Nitropropa 0.035 0.047 0.054 0.059 0.066 0.077 0.081 0.050 0.059 26.56
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.05308 *A + 0.00300 *A^2

66) 4-Methyl-2-p 0.374 0.451 0.454 0.509 0.467 0.498 0.501 0.497 0.469 9.47
67) trans-1,3-Di 0.153 0.248 0.346 0.333 0.363 0.393 0.407 0.257 0.312 27.65
---- Linear regr., Force(0,0) ---- Coefficient = 0.9956
Response Ratio = 0.00000 + 0.38113 *A

68) Tetrachloroe 0.259 0.253 0.289 0.272 0.294 0.298 0.310 0.316 0.286 8.02
69) Ethyl methac 0.161 0.305 0.333 0.346 0.367 0.376 0.370 0.129 0.298 32.79
---- Linear regr., Force(0,0) ---- Coefficient = 0.9988
Response Ratio = 0.00000 + 0.36326 *A

70) 1,1,2-Trichl 0.179 0.198 0.236 0.217 0.222 0.223 0.219 0.214 0.213 8.10
71) Dibromochlor 0.134 0.175 0.212 0.212 0.229 0.238 0.246 0.189 0.204 18.16
---- Linear regr., Force(0,0) ---- Coefficient = 0.9976
Response Ratio = 0.00000 + 0.23388 *A

72) 1,3-Dichloro 0.309 0.366 0.453 0.399 0.406 0.404 0.397 0.388 0.390 10.47
73) 1,2-Dibromoe 0.101 0.194 0.259 0.239 0.247 0.255 0.248 0.222 0.220 23.89
---- Linear regr., Force(0,0) ---- Coefficient = 0.9988
Response Ratio = 0.00000 + 0.24720 *A

74) 3,3-Dimethyl 0.018 0.015 0.019 0.024 0.027 0.037 0.041 0.015 0.024 40.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983
Response Ratio = 0.00000 + 0.01783 *A + 0.00024 *A^2

75) 2-hexanone 0.215 0.275 0.307 0.356 0.334 0.365 0.365 0.264 0.310 17.69

```
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.35355 *A

 76) 1-Chlorohexa 0.246 0.297 0.367 0.346 0.382 0.380 0.387 0.329 0.342  14.42
 77) Ethylbenzene 1.587 1.222 1.361 1.251 1.321 1.365 1.449 1.521 1.385   9.18
 78) Chlorobenzen 0.715 0.663 0.773 0.716 0.740 0.758 0.798 0.818 0.748   6.68
 79) 1,1,1,2-Tetr 0.189 0.176 0.224 0.213 0.228 0.232 0.239 0.207 0.214  10.37
 80) m,p-Xylene   1.091 0.848 0.998 0.906 0.984 1.033 1.116 1.037 1.002   8.95
 81) o-Xylene     1.042 0.806 0.994 0.893 0.927 0.927 0.958 0.985 0.941   7.61
 82) Styrene      0.390 0.520 0.668 0.639 0.668 0.691 0.719 0.550 0.606  18.27
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.68669 *A

 83) Bromoform    0.035 0.097 0.123 0.137 0.154 0.170 0.180 0.090 0.123  38.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.12052 *A + 0.03150 *A^2

 84) Isopropylben 0.978 0.989 1.135 1.024 1.101 1.117 1.167 1.150 1.083   6.90

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86) 4-Bromofluor 0.876 0.858 0.858 0.833 0.816 0.762 0.700 0.891 0.824   7.77
 87) cis-1,4-Dich 0.164 0.100 0.101 0.123 0.136 0.142 0.146 0.208 0.140  25.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
               Response Ratio = 0.00000 + 0.12058 *A + 0.01369 *A^2

 88) n-Propylbenz 2.660 2.493 2.825 2.477 2.675 2.558 2.579 2.970 2.655   6.39
 89) Bromobenzene 0.406 0.465 0.540 0.482 0.500 0.491 0.483 0.552 0.490   9.21
 90) 1,1,2,2-Tetr 0.593 0.631 0.804 0.710 0.743 0.721 0.687 0.722 0.701   9.33
 91) 1,3,5-Trimet 1.491 1.470 1.736 1.543 1.709 1.700 1.780 1.710 1.642   7.37
 92) 2-Chlorotolu 1.775 1.597 1.836 1.589 1.730 1.669 1.741 1.911 1.731   6.45
 93) trans-1,4-Di       0.057 0.092 0.128 0.139 0.153 0.153 0.078 0.114  33.71
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9924
               Response Ratio = 0.00000 + 0.14332 *A

 94) 1,2,3-Trichl 0.102 0.149 0.198 0.178 0.182 0.183 0.174 0.192 0.170  18.14
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.17864 *A

 95) Cyclohexanon 0.028 0.017 0.018 0.021 0.024 0.025 0.024 0.004 0.020  36.31
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9907
               Response Ratio = 0.00000 + 0.02330 *A

 96) 4-Chlorotolu 1.480 1.389 1.560 1.384 1.468 1.416 1.431 1.559 1.461   4.76
 97) a-Methyl sty                                                 0.000  -1.00
 98) tert-Butylbe 0.851 0.914 0.938 0.863 0.939 0.919 0.943 1.085 0.931   7.64
 99) 1,2,4-Trimet 1.515 1.407 1.705 1.537 1.645 1.626 1.693 1.676 1.600   6.53
100) Pentachloroe 0.116 0.210 0.219 0.229 0.267 0.276 0.283 0.141 0.218  28.33
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9961
               Response Ratio = 0.00000 + 0.26779 *A

101) sec-Butylben 2.068 1.999 2.152 1.943 2.162 2.058 2.087 2.402 2.109   6.58
102) 4-Isopropylt 1.333 1.427 1.669 1.508 1.696 1.648 1.693 1.640 1.577   8.72
103) 1,3-Dichloro 0.897 0.875 0.974 0.871 0.933 0.913 0.921 1.009 0.924   5.15
104) 1,2,3-Trimet 1.705 1.563 1.873 1.705 1.885 1.896 1.998 1.934 1.820   8.04
105) 1,4-Dichloro 1.006 0.992 1.141 1.019 1.085 1.075 1.124 1.153 1.074   5.86
106) n-Butylbenze 0.494 0.701 0.849 0.816 0.932 0.915 0.921 0.906 0.817  18.51
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.90169 *A

107) Benzyl Chlor 0.163 0.081 0.119 0.154 0.172 0.191 0.197 0.020 0.137  44.26
```

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9935
                Response Ratio = 0.00000 + 0.13023 *A + 0.03685 *A^2

108) 1,2-Dichloro 0.736 0.738 0.922 0.824 0.877 0.853 0.850 0.915 0.839   8.49
109) 1,2-Dibromo- 0.099 0.063 0.084 0.091 0.099 0.107 0.106 0.019 0.083  35.41
              ---- Linear regr., Force(0,0) ----  Coefficient =  0.9921
                Response Ratio = 0.00000 + 0.10107 *A

110) Hexachlorobu 0.162 0.169 0.167 0.159 0.170 0.171 0.166 0.210 0.172   9.27
111) 1,2,4-Trichl 0.336 0.383 0.448 0.411 0.462 0.459 0.452 0.436 0.424  10.49
112) Naphthalene  0.810 1.062 1.316 1.265 1.352 1.369 1.321 1.043 1.192  16.75
              ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
                Response Ratio = 0.00000 + 1.32416 *A

113) 1,2,3-Trichl 0.315 0.368 0.400 0.374 0.406 0.400 0.387 0.404 0.382   8.00
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           V5E2113_06252024_.M        Wed Jun 26 07:06:10 2024
```

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-25-2024\5E47460.D Vial: 11
Acq On : 25 Jun 2024 4:14 pm Operator: lianatr
Sample : ICV2113-5 Inst : MSVOA20_5E
Misc : MS56909,V5E2113,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.184	-17.9	124	0.00	2.81
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	41.806	-4.5	114	0.00	3.13
		AvgRF	CCRF	%Dev			
4	Vinyl Chloride	0.320	0.325	-1.6	112	0.00	3.27
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	40.955	-2.4	105	0.00	3.30
6	Bromomethane	40.000	39.107	2.2	113	0.00	3.77
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.232	0.261	-12.5	130	0.00	3.94
8	Trichlorofluoromethane	0.310	0.310	0.0	107	0.00	4.16
9	Ethyl Ether	0.150	0.145	3.3	101	0.00	4.58
		Amount	Calc.	%Drift			
10	Ethanol	800.000	759.838	5.0	103	0.00	4.77
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.158	0.230	-45.6#	152	0.00	4.83
12	1,1-Dichloroethene	0.267	0.272	-1.9	107	0.00	4.86
		Amount	Calc.	%Drift			
13	Freon 113	40.000	38.752	3.1	105	0.00	4.90
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.525	0.434	17.3	92	0.00	4.92
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	33.752	15.6	93	0.00	5.06
16	Acrolein	200.000	226.456	-13.2	125	0.00	5.29
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.299	-0.3	110	0.00	5.46
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	39.178	2.1	109	0.00	5.59
		AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

19		Acetone	0.088	0.092	-4.5	116	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	191.917	4.0	111	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.271	-1.9	109	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	36.066	9.8	97	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.519	-3.0	107	0.00	5.89
24		Acetonitrile	0.033	0.034	-3.0	110	0.00	6.20
25		Di-isopropyl ether	0.674	0.643	4.6	102	0.00	6.32
26		Chloroprene	0.231	0.258	-11.7	113	0.00	6.48
27		1,1-Dichloroethane	0.352	0.350	0.6	106	0.00	6.52
28		Acrylonitrile	0.098	0.095	3.1	99	0.00	6.57
29		ETBE	0.540	0.542	-0.4	104	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	360.932	9.8	105	0.00	5.97
31		Vinyl acetate	200.000	185.431	7.3	107	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.200	-2.0	107	0.00	7.13
33		2,2-Dichloropropane	0.227	0.255	-12.3	114	0.00	7.25
34		Bromochloromethane	0.084	0.089	-6.0	108	0.00	7.35
35		Cyclohexane	0.328	0.342	-4.3	104	0.00	7.36
36		Chloroform	0.327	0.348	-6.4	110	0.00	7.41
37		Ethyl acetate	0.306	0.308	-0.7	103	0.00	7.50
38		Tetrahydrofuran	0.118	0.110	6.8	105	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.266	-2.7	109	0.00	7.61
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	39.507	1.2	112	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.258	-2.8	108	0.00	7.66
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	180.858	9.6	102	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.261	-8.8	109	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	423.888	-6.0	114	0.00	7.87
45		Propionitrile	400.000	404.330	-1.1	110	0.00	8.05
46		Methacrylonitrile	400.000	399.820	0.0	107	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.807	-0.7	109	0.00	8.05
48		TAME	0.514	0.514	0.0	102	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.327	-7.6	114	0.00	8.18
50		1,2-Dichloroethane	0.242	0.253	-4.5	108	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	386.588	3.4	111	0.00	8.28

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.198	-0.5	109	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	38.002	5.0	104	0.00	8.64
54		Dibromomethane	40.000	39.455	1.4	110	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.201	-6.9	111	0.00	9.17
56		Bromodichloromethane	0.214	0.223	-4.2	106	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	38.119	4.7	105	0.00	9.33
58		1,4-Dioxane	800.000	717.106	10.4	102	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	188.312	5.8	106	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	39.838	0.4	111	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	11.59
62	S	Toluene-d8	1.397	1.389	0.6	107	0.00	10.03
63		Toluene	1.186	1.129	4.8	109	0.00	10.09
64		Isobutyl alcohol	0.021	0.023	-9.5	109	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	208.216	-4.1	109	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.495	-5.5	112	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	37.429	6.4	104	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.298	-4.2	107	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	40.482	-1.2	106	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.224	-5.2	107	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	40.246	-0.6	109	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.432	-10.8	113	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	39.570	1.1	105	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2039.782	-2.0	110	0.00	11.19
75		2-hexanone	200.000	205.001	-2.5	115	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.381	-11.4	106	0.00	11.54
77		Ethylbenzene	1.385	1.347	2.7	108	0.00	11.61
78		Chlorobenzene	0.748	0.753	-0.7	108	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.230	-7.5	107	0.00	11.66
80		m,p-Xylene	1.002	0.990	1.2	106	0.00	11.75
81		o-Xylene	0.941	0.917	2.6	105	0.00	12.19

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			Amount	Calc.	%Drift			
82		Styrene	40.000	40.018	-0.0	109	0.00	12.24
83		Bromoform	40.000	41.712	-4.3	105	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.109	-2.4	107	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.813	1.3	108	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	43.850	-9.6	116	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.615	1.5	106	0.00	12.91
89		Bromobenzene	0.490	0.513	-4.7	112	0.00	12.93
90		1,1,2,2-Tetrachloroethane	0.701	0.724	-3.3	106	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.712	-4.3	109	0.00	13.09
92		2-Chlorotoluene	1.731	1.692	2.3	106	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	42.700	-6.8	119	0.00	13.16
94		1,2,3-Trichloropropane	40.000	42.845	-7.1	114	0.00	13.14
95		Cyclohexanone	200.000	306.622	-53.3#	163	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.432	2.0	106	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.926	0.5	107	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.652	-3.2	109	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	39.006	2.5	106	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.011	4.6	101	0.00	13.62
102		4-Isopropyltoluene	1.577	1.645	-4.3	105	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.904	2.2	105	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.842	-1.2	106	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.076	-0.2	108	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	41.961	-4.9	110	0.00	14.17
107		Benzyl Chloride	40.000	42.741	-6.9	109	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.858	-2.3	106	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	42.520	-6.3	118	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.181	-5.2	115	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.451	-6.4	106	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.390	1.5	105	0.00	16.01
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

113	1,2,3-Trichlorobenzene	0.382	0.393	-2.9	105	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Wed Jun 26 07:05:58 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-CC2113
Lab FileID: 5E47491.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-27-2024\5E47491.D Vial: 2
Acq On : 27 Jun 2024 7:38 am Operator: lianatr
Sample : CC2113-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF / Amount	CCRF / Calc.	%Dev / %Drift	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	94	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.158	-1.3	94	0.00	2.81
	---------- Amount	Calc.	%Drift	----------			
3	Chloromethane	40.000	41.487	-3.7	100	0.00	3.13
	---------- AvgRF	CCRF	%Dev	----------			
4	Vinyl Chloride	0.320	0.322	-0.6	98	0.00	3.27
	---------- Amount	Calc.	%Drift	----------			
5	1,3-Butadiene	40.000	44.899	-12.2	102	0.00	3.30
6	Bromomethane	40.000	43.581	-9.0	112	0.00	3.77
	---------- AvgRF	CCRF	%Dev	----------			
7	Chloroethane	0.232	0.321	-38.4#	142	0.00	3.94
8	Trichlorofluoromethane	0.310	0.322	-3.9	98	0.00	4.16
9	Ethyl Ether	0.150	0.159	-6.0	99	0.00	4.58
	---------- Amount	Calc.	%Drift	----------			
10	Ethanol	800.000	669.883	16.3	81	0.00	4.78
	---------- AvgRF	CCRF	%Dev	----------			
11	1,2-Dichlorotrifluoroetha	0.158	0.253	-60.1#	148	0.00	4.83
12	1,1-Dichloroethene	0.267	0.292	-9.4	102	0.00	4.86
	---------- Amount	Calc.	%Drift	----------			
13	Freon 113	40.000	42.715	-6.8	103	0.00	4.90
	---------- AvgRF	CCRF	%Dev	----------			
14	Carbon Disulfide	0.525	0.582	-10.9	109	0.00	4.92
	---------- Amount	Calc.	%Drift	----------			
15	Iodomethane	40.000	38.770	3.1	95	0.00	5.06
16	Acrolein	200.000	202.696	-1.3	99	0.00	5.28
	---------- AvgRF	CCRF	%Dev	----------			
17	Allyl chloride	0.298	0.328	-10.1	107	0.00	5.46
	---------- Amount	Calc.	%Drift	----------			
18	Methylene Chloride	40.000	40.194	-0.5	100	0.00	5.59
	---------- AvgRF	CCRF	%Dev	----------			

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V5E2117-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47491.D
Project: Former Seneca Army Depot; Romulus, NY

19		Acetone	0.088	0.085	3.4	95	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	194.183	2.9	100	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.284	-6.8	102	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	43.633	-9.1	104	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.522	-3.6	96	0.00	5.89
24		Acetonitrile	0.033	0.037	-12.1	105	0.00	6.20
25		Di-isopropyl ether	0.674	0.705	-4.6	99	0.00	6.32
26		Chloroprene	0.231	0.265	-14.7	103	0.00	6.48
27		1,1-Dichloroethane	0.352	0.381	-8.2	102	0.00	6.52
28		Acrylonitrile	0.098	0.106	-8.2	98	0.00	6.57
29		ETBE	0.540	0.569	-5.4	97	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	351.257	12.2	91	0.00	5.97
31		Vinyl acetate	200.000	195.901	2.0	100	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.209	-6.6	99	0.00	7.13
33		2,2-Dichloropropane	0.227	0.255	-12.3	102	0.00	7.25
34		Bromochloromethane	0.084	0.095	-13.1	101	0.00	7.35
35		Cyclohexane	0.328	0.383	-16.8	103	0.00	7.36
36		Chloroform	0.327	0.350	-7.0	99	0.00	7.41
37		Ethyl acetate	0.306	0.331	-8.2	98	0.00	7.50
38		Tetrahydrofuran	0.118	0.115	2.5	97	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.258	0.4	94	0.00	7.60
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	40.057	-0.1	100	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.266	-6.0	98	0.00	7.65
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	197.274	1.4	99	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.264	-10.0	98	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	435.407	-8.9	104	0.00	7.87
45		Propionitrile	400.000	425.986	-6.5	104	0.00	8.05
46		Methacrylonitrile	400.000	427.719	-6.9	102	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.850	-6.1	101	0.00	8.05
48		TAME	0.514	0.548	-6.6	96	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.313	-3.0	97	0.00	8.18
50		1,2-Dichloroethane	0.242	0.255	-5.4	96	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	368.344	7.9	94	0.00	8.28

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V5E2117-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47491.D
Project: Former Seneca Army Depot; Romulus, NY

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.207	-5.1	100	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	41.189	-3.0	100	0.00	8.64
54		Dibromomethane	40.000	39.442	1.4	97	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.205	-9.0	100	0.00	9.17
56		Bromodichloromethane	0.214	0.234	-9.3	99	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	41.682	-4.2	102	0.00	9.33
58		1,4-Dioxane	800.000	653.685	18.3	82	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	220.383	-10.2	110	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	40.240	-0.6	99	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00	11.59
62	S	Toluene-d8	1.397	1.376	1.5	94	0.00	10.03
63		Toluene	1.186	1.185	0.1	101	0.00	10.09
64		Isobutyl alcohol	0.021	0.023	-9.5	99	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	251.655	-25.8#	121	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.490	-4.5	98	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	40.651	-1.6	100	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.310	-8.4	99	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	42.762	-6.9	99	0.00	10.58
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.231	-8.5	98	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	41.221	-3.1	99	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.421	-7.9	97	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	41.053	-2.6	96	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	1915.469	4.2	90	0.00	11.19
75		2-hexanone	200.000	197.587	1.2	98	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.413	-20.8#	101	0.00	11.54
77		Ethylbenzene	1.385	1.400	-1.1	99	0.00	11.61
78		Chlorobenzene	0.748	0.784	-4.8	99	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.239	-11.7	98	0.00	11.66
80		m,p-Xylene	1.002	1.042	-4.0	99	0.00	11.75
81		o-Xylene	0.941	0.972	-3.3	98	0.00	12.19

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-CC2113
Lab FileID: 5E47491.D

			Amount	Calc.	%Drift			
82		Styrene	40.000	41.248	-3.1	99	0.00	12.24
83		Bromoform	40.000	42.750	-6.9	96	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.177	-8.7	100	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.804	2.4	94	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	45.797	-14.5	106	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.792	-5.2	99	0.00	12.91
89		Bromobenzene	0.490	0.514	-4.9	98	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.751	-7.1	96	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.764	-7.4	98	0.00	13.09
92		2-Chlorotoluene	1.731	1.774	-2.5	98	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	43.443	-8.6	106	0.00	13.17
94		1,2,3-Trichloropropane	40.000	41.233	-3.1	96	0.00	13.14
95		Cyclohexanone	200.000	180.657	9.7	84	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.502	-2.8	97	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.950	-2.0	96	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.693	-5.8	98	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	42.355	-5.9	101	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.234	-5.9	98	0.00	13.62
102		4-Isopropyltoluene	1.577	1.752	-11.1	98	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.959	-3.8	98	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.913	-5.1	97	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.100	-2.4	96	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	42.874	-7.2	99	0.00	14.17
107		Benzyl Chloride	40.000	49.487	-23.7#	114	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.883	-5.2	96	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	39.725	0.7	97	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.181	-5.2	101	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.441	-4.0	91	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.281	1.8	91	0.00	16.01
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-CC2113
Lab FileID: 5E47491.D

113	1,2,3-Trichlorobenzene	0.382	0.381	0.3	89	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Thu Jun 27 12:02:10 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-ECC2113
Lab FileID: 5E47518.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5E47518.d Vial: 29
Acq On : 27 Jun 2024 6:18 pm Operator: lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	90	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.163	-4.5	93	0.00	2.81
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	43.200	-8.0	100	0.00	3.13
		AvgRF	CCRF	%Dev			
4	Vinyl Chloride	0.320	0.328	-2.5	96	0.00	3.27
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	45.360	-13.4	98	0.00	3.30
6	Bromomethane	40.000	41.051	-2.6	101	0.00	3.77
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.232	0.224	3.4	94	0.00	3.95
8	Trichlorofluoromethane	0.310	0.312	-0.6	91	0.00	4.15
9	Ethyl Ether	0.150	0.166	-10.7	99	0.00	4.58
		Amount	Calc.	%Drift			
10	Ethanol	800.000	1052.582	-31.6	121	0.00	4.77
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.158	0.255	-61.4#	142	0.00	4.83
12	1,1-Dichloroethene	0.267	0.300	-12.4	100	0.00	4.86
		Amount	Calc.	%Drift			
13	Freon 113	40.000	40.730	-1.8	93	0.00	4.90
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.525	0.546	-4.0	98	0.00	4.92
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	42.234	-5.6	99	0.00	5.06
16	Acrolein	200.000	198.382	0.8	93	0.00	5.29
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.322	-8.1	101	0.00	5.46
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	40.801	-2.0	97	0.00	5.59
		AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V5E2117-ECC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47518.D
Project: Former Seneca Army Depot; Romulus, NY

19		Acetone	0.088	0.091	-3.4	96	0.00	5.64
		----------	Amount	Calc.	%Drift	----------		
20		Methyl acetate	200.000	204.753	-2.4	100	0.00	5.78
		----------	AvgRF	CCRF	%Dev	----------		
21		trans-1,2-Dichloroethene	0.266	0.283	-6.4	97	0.00	5.79
		----------	Amount	Calc.	%Drift	----------		
22		Hexane	40.000	40.475	-1.2	92	0.00	5.87
		----------	AvgRF	CCRF	%Dev	----------		
23		Methyl Tert Butyl Ether	0.504	0.540	-7.1	94	0.00	5.89
24		Acetonitrile	0.033	0.039	-18.2	107	0.00	6.21
25		Di-isopropyl ether	0.674	0.737	-9.3	99	0.00	6.32
26		Chloroprene	0.231	0.266	-15.2	99	0.00	6.49
27		1,1-Dichloroethane	0.352	0.377	-7.1	97	0.00	6.52
28		Acrylonitrile	0.098	0.110	-12.2	97	0.00	6.57
29		ETBE	0.540	0.591	-9.4	96	0.00	6.74
		----------	Amount	Calc.	%Drift	----------		
30		Tert Butyl Alcohol	400.000	398.762	0.3	98	0.00	5.97
31		Vinyl acetate	200.000	197.889	1.1	96	0.00	6.77
		----------	AvgRF	CCRF	%Dev	----------		
32		cis-1,2-Dichloroethene	0.196	0.206	-5.1	93	0.00	7.12
33		2,2-Dichloropropane	0.227	0.228	-0.4	87	0.00	7.25
34		Bromochloromethane	0.084	0.093	-10.7	95	0.00	7.35
35		Cyclohexane	0.328	0.382	-16.5	98	0.00	7.36
36		Chloroform	0.327	0.345	-5.5	93	0.00	7.41
37		Ethyl acetate	0.306	0.344	-12.4	97	0.00	7.50
38		Tetrahydrofuran	0.118	0.123	-4.2	99	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.254	1.9	88	0.00	7.61
		----------	Amount	Calc.	%Drift	----------		
40		Carbon Tetrachloride	40.000	39.122	2.2	94	0.00	7.58
		----------	AvgRF	CCRF	%Dev	----------		
41		1,1,1-Trichloroethane	0.251	0.260	-3.6	92	0.00	7.65
		----------	Amount	Calc.	%Drift	----------		
42		2-Butanone	200.000	205.951	-3.0	98	0.00	7.72
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.240	0.265	-10.4	94	0.00	7.78
		----------	Amount	Calc.	%Drift	----------		
44		tert-Butyl formate	400.000	412.252	-3.1	93	0.00	7.87
45		Propionitrile	400.000	440.143	-10.0	103	0.00	8.05
46		Methacrylonitrile	400.000	442.334	-10.6	102	0.00	8.07
		----------	AvgRF	CCRF	%Dev	----------		
47		Benzene	0.801	0.847	-5.7	96	0.00	8.05
48		TAME	0.514	0.570	-10.9	95	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.318	-4.6	94	0.00	8.18
50		1,2-Dichloroethane	0.242	0.259	-7.0	93	0.00	8.25
		----------	Amount	Calc.	%Drift	----------		
51		tert Amyl alcohol	400.000	404.104	-1.0	98	0.00	8.28

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-ECC2113
Lab FileID: 5E47518.D

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.208	-5.6	96	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	40.990	-2.5	95	0.00	8.64
54		Dibromomethane	40.000	40.079	-0.2	95	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.209	-11.2	97	0.00	9.17
56		Bromodichloromethane	0.214	0.236	-10.3	96	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	41.420	-3.6	97	0.00	9.33
58		1,4-Dioxane	800.000	842.492	-5.3	101	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	214.258	-7.1	102	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	40.040	-0.1	94	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	11.59
62	S	Toluene-d8	1.397	1.368	2.1	90	0.00	10.03
63		Toluene	1.186	1.165	1.8	96	0.00	10.09
64		Isobutyl alcohol	0.021	0.027	-28.6	111	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	218.100	-9.0	98	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.511	-9.0	99	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	39.750	0.6	94	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.321	-12.2	99	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	44.431	-11.1	100	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.230	-8.0	94	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	40.284	-0.7	93	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.430	-10.3	96	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	41.304	-3.3	94	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2295.048	-14.8	111	0.00	11.19
75		2-hexanone	200.000	209.096	-4.5	100	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.400	-17.0	95	0.00	11.54
77		Ethylbenzene	1.385	1.400	-1.1	96	0.00	11.61
78		Chlorobenzene	0.748	0.780	-4.3	95	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.236	-10.3	94	0.00	11.66
80		m,p-Xylene	1.002	1.030	-2.8	95	0.00	11.75
81		o-Xylene	0.941	0.980	-4.1	96	0.00	12.18

Continuing Calibration Summary

Job Number: FC16561 **Sample:** V5E2117-ECC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47518.D
Project: Former Seneca Army Depot; Romulus, NY

			Amount	Calc.	%Drift			
82		Styrene	40.000	41.336	-3.3	96	0.00	12.24
83		Bromoform	40.000	42.520	-6.3	92	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.166	-7.7	96	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.829	-0.6	91	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	44.509	-11.3	97	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.848	-7.3	95	0.00	12.91
89		Bromobenzene	0.490	0.526	-7.3	94	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.780	-11.3	94	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.814	-10.5	95	0.00	13.09
92		2-Chlorotoluene	1.731	1.800	-4.0	93	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	42.654	-6.6	98	0.00	13.17
94		1,2,3-Trichloropropane	40.000	43.229	-8.1	95	0.00	13.14
95		Cyclohexanone	200.000	236.554	-18.3	103	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.548	-6.0	95	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	1.016	-9.1	97	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.764	-10.2	96	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	38.494	3.8	86	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.321	-10.1	96	0.00	13.62
102		4-Isopropyltoluene	1.577	1.795	-13.8	95	0.00	13.75
103		1,3-Dichlorobenzene	0.924	1.006	-8.9	97	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	2.038	-12.0	97	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.147	-6.8	95	0.00	13.96
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	42.824	-7.1	93	0.00	14.17
107		Benzyl Chloride	40.000	40.345	-0.9	84	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.897	-6.9	92	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	41.375	-3.4	95	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.177	-2.9	94	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.471	-11.1	91	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	42.768	-6.9	94	0.00	16.01
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2117-ECC2113
Lab FileID: 5E47518.D

113	1,2,3-Trichlorobenzene	0.382	0.413	-8.1	91	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Fri Jun 28 08:10:30 2024

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V2A1910	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1910-BFB	2A56264.D	06/25/24 07:28	n/a	BFB Tune
V2A1910-IC1910	2A56266.D	06/25/24 08:07	n/a	Initial cal 1
V2A1910-IC1910	2A56268.D	06/25/24 08:39	n/a	Initial cal 8
V2A1910-IC1910	2A56270.D	06/25/24 09:11	n/a	Initial cal 2
V2A1910-IC1910	2A56272.D	06/25/24 09:43	n/a	Initial cal 3
V2A1910-IC1910	2A56274.D	06/25/24 10:15	n/a	Initial cal 4
V2A1910-ICC1910	2A56276.D	06/25/24 10:47	n/a	Initial cal 5
V2A1910-IC1910	2A56278.D	06/25/24 11:19	n/a	Initial cal 6
V2A1910-IC1910	2A56280.D	06/25/24 11:51	n/a	Initial cal 7
V2A1910-ICV1910	2A56284.D	06/25/24 13:01	n/a	Initial cal verification 5
V2A1910-BS	2A56286.D	06/25/24 13:33	n/a	Blank Spike
V2A1910-MB	2A56288.D	06/25/24 14:22	n/a	Method Blank
FC16589-2	2A56290.D	06/25/24 14:57	n/a	(used for QC only; not part of job FC16561)
ZZZZZZ	2A56291.D	06/25/24 15:16	n/a	(unrelated sample)
ZZZZZZ	2A56292.D	06/25/24 15:40	n/a	(unrelated sample)
ZZZZZZ	2A56293.D	06/25/24 16:04	n/a	(unrelated sample)
ZZZZZZ	2A56294.D	06/25/24 16:28	n/a	(unrelated sample)
FC16589-2MS	2A56295.D	06/25/24 16:53	n/a	Matrix Spike
FC16589-2MSD	2A56296.D	06/25/24 17:17	n/a	Matrix Spike Duplicate
V2A1910-ECC1910	2A56297.D	06/25/24 17:41	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V2A1911 **Method:** SW846 8260D **Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1911-BFB	2A56300.D	06/26/24 07:30	n/a	BFB Tune
V2A1911-CC1910	2A56301.D	06/26/24 07:56	n/a	Continuing cal 4
V2A1911-BS	2A56302.D	06/26/24 08:20	n/a	Blank Spike
V2A1911-MB	2A56304.D	06/26/24 09:07	n/a	Method Blank
FC16561-14	2A56305.D	06/26/24 09:31	n/a	TRIP BLANK
FC16561-5	2A56306.D	06/26/24 09:55	n/a	SEAD-AL-PT-24-20240618
FC16561-12	2A56307.D	06/26/24 10:20	n/a	SEAD-AL-PT-12A-20240618
FC16561-1	2A56308.D	06/26/24 10:44	n/a	SEAD-AL-MW-60-20240617
FC16561-2	2A56309.D	06/26/24 11:08	n/a	SEAD-AL-PT-17-20240618
FC16561-3	2A56310.D	06/26/24 11:32	n/a	SEAD-AL-MWT-26-20240618
FC16561-4	2A56311.D	06/26/24 11:56	n/a	SEAD-AL-MWT-7-20240618
FC16561-6	2A56312.D	06/26/24 12:20	n/a	SEAD-AL-MWT-27-20240618
FC16561-7	2A56313.D	06/26/24 12:44	n/a	SEAD-AL-MWT-29-20240618
FC16561-8	2A56314.D	06/26/24 13:07	n/a	SEAD-AL-DUP-01-20240618
FC16561-9	2A56315.D	06/26/24 13:31	n/a	SEAD-AL-DUP-02-20240618
FC16561-10	2A56316.D	06/26/24 13:55	n/a	SEAD-AL-MWT-25-20240618
FC16561-11	2A56317.D	06/26/24 14:20	n/a	SEAD-AL-MWT-22-20240618
FC16561-13	2A56318.D	06/26/24 14:44	n/a	SEAD-AL-MW-40-20240618
FC16561-15	2A56319.D	06/26/24 15:08	n/a	SEAD-AL-MWT-23-20240618
FC16561-12	2A56320.D	06/26/24 15:32	n/a	SEAD-AL-PT-12A-20240618
ZZZZZZ	2A56321.D	06/26/24 15:56	n/a	(unrelated sample)
ZZZZZZ	2A56322.D	06/26/24 16:20	n/a	(unrelated sample)
ZZZZZZ	2A56323.D	06/26/24 16:44	n/a	(unrelated sample)
ZZZZZZ	2A56324.D	06/26/24 17:08	n/a	(unrelated sample)
FC16561-5MS	2A56325.D	06/26/24 17:32	n/a	Matrix Spike
FC16561-5MSD	2A56326.D	06/26/24 17:56	n/a	Matrix Spike Duplicate
FC16561-12MS	2A56327.D	06/26/24 18:20	n/a	Matrix Spike
FC16561-12MSD	2A56328.D	06/26/24 18:44	n/a	Matrix Spike Duplicate
V2A1911-ECC1910	2A56329.D	06/26/24 19:08	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2113 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2113-BFB	5E47450.D	06/25/24 12:21	n/a	BFB Tune
V5E2113-IC2113	5E47451.D	06/25/24 12:49	n/a	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24 13:12	n/a	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24 13:34	n/a	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24 13:57	n/a	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24 14:20	n/a	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24 14:43	n/a	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24 15:06	n/a	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24 15:29	n/a	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24 16:14	n/a	Initial cal verification 5

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2117	**Method:** SW846 8260D	**Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2117-BFB	5E47490.D	06/27/24 07:07	n/a	BFB Tune
V5E2117-CC2113	5E47491.D	06/27/24 07:38	n/a	Continuing cal 5
V5E2117-BS	5E47492.D	06/27/24 08:10	n/a	Blank Spike
V5E2117-MB	5E47494.D	06/27/24 08:56	n/a	Method Blank
FC16561-2	5E47508.D	06/27/24 14:30	n/a	SEAD-AL-PT-17-20240618
FC16561-7	5E47509.D	06/27/24 14:53	n/a	SEAD-AL-MWT-29-20240618
FC16561-8	5E47510.D	06/27/24 15:16	n/a	SEAD-AL-DUP-01-20240618
FC16561-9	5E47511.D	06/27/24 15:39	n/a	SEAD-AL-DUP-02-20240618
FC16561-2MS	5E47512.D	06/27/24 16:01	n/a	Matrix Spike
FC16561-2MSD	5E47513.D	06/27/24 16:24	n/a	Matrix Spike Duplicate
V5E2117-ECC2113	5E47518.D	06/27/24 18:18	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56308.d
Acq On : 26 Jun 2024 10:44 am
Operator : jeniferw
Sample : FC16561-1 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 06:07:38 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	273456	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	204622	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	119257	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	79992	50.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.34%			
49) 1,2-Dichloroethane-d4	3.235	65	93194	49.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.48%			
63) Toluene-d8	4.336	98	276413	49.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.66%			
86) 4-Bromofluorobenzene	6.229	174	92057	48.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.56%			

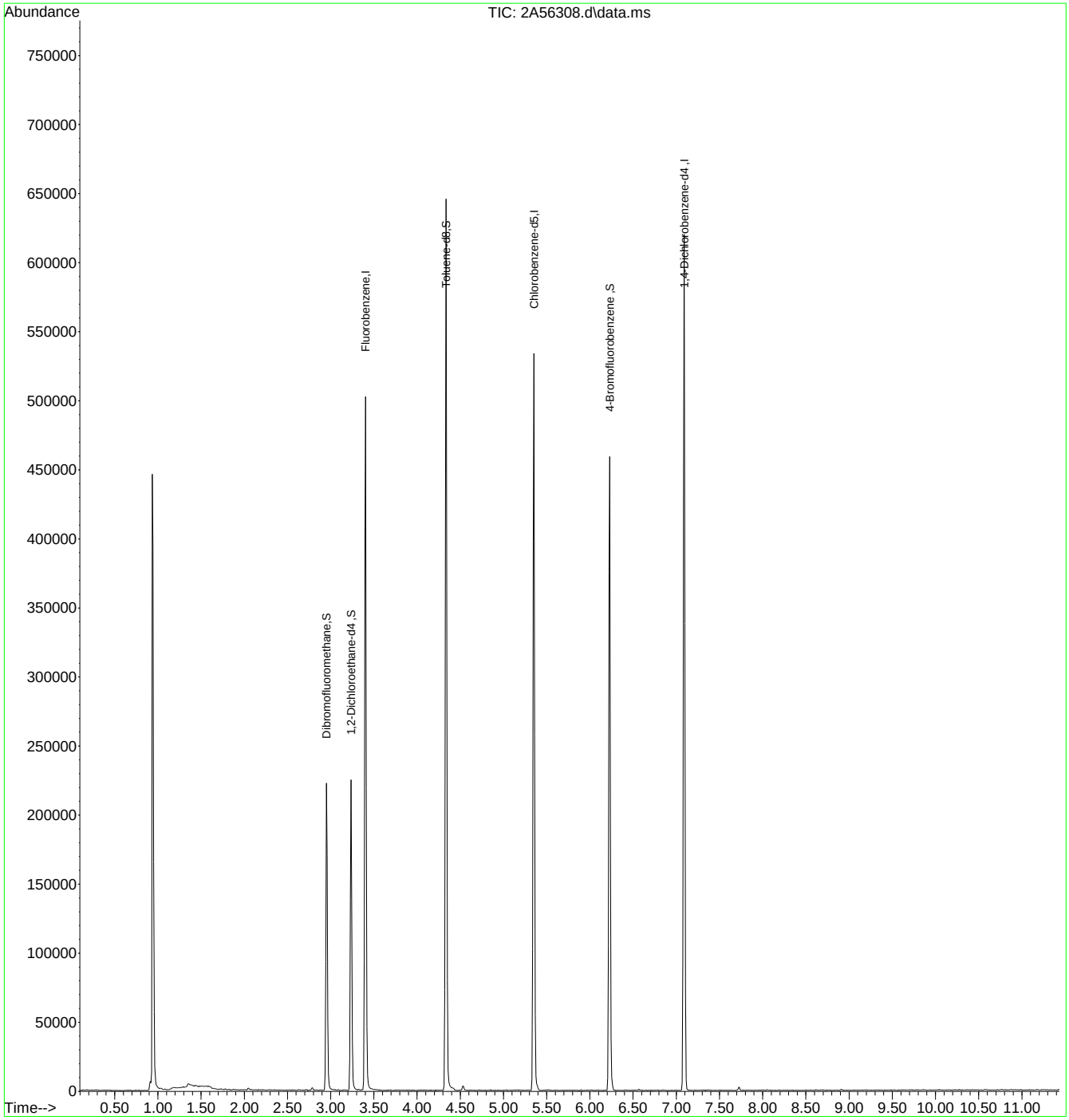
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56308.d
Acq On : 26 Jun 2024 10:44 am
Operator : jeniferw
Sample : FC16561-1 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 06:07:38 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56309.d
Acq On : 26 Jun 2024 11:08 am
Operator : jeniferw
Sample : FC16561-2 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 06:08:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

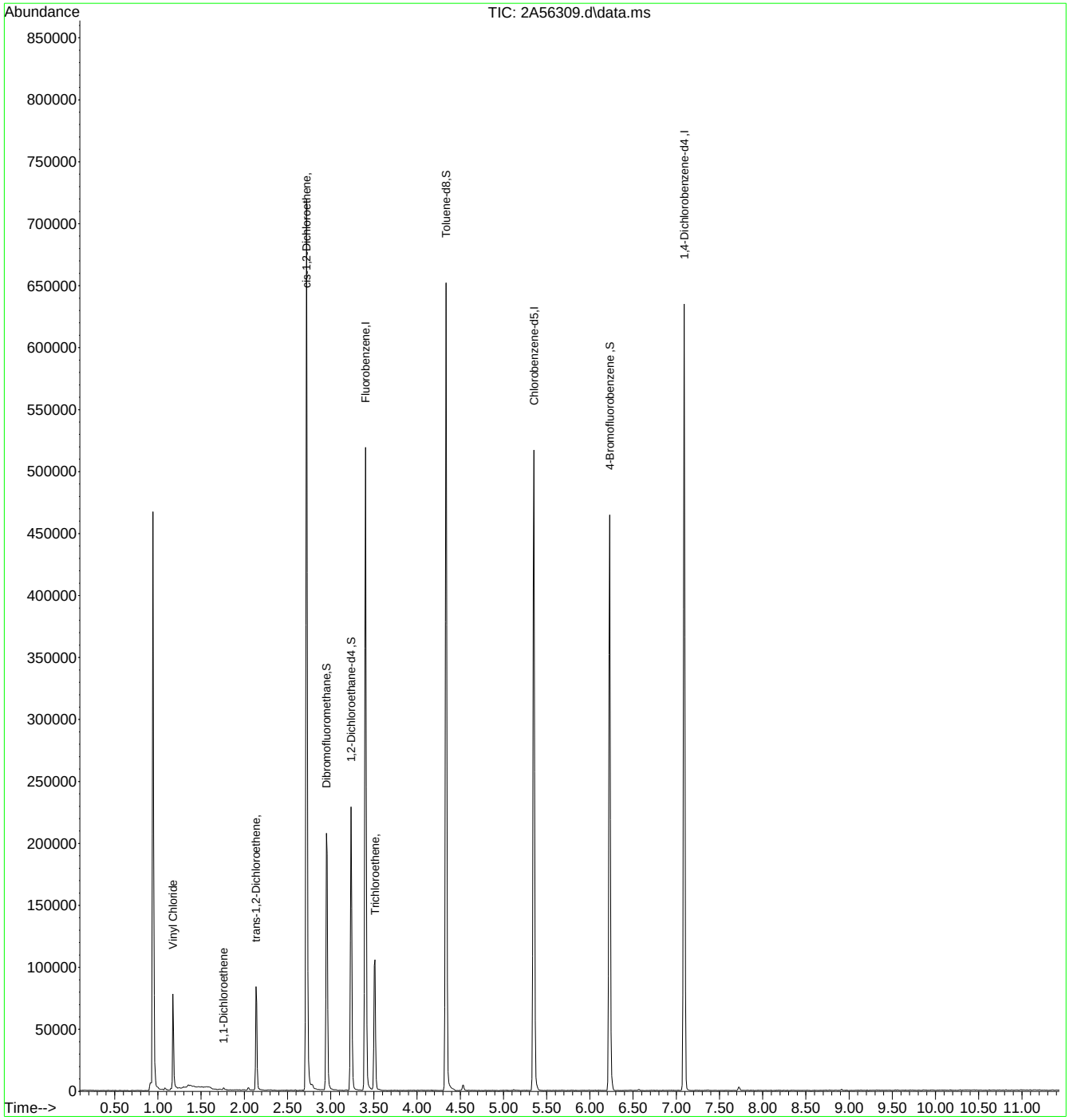
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	270128	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	203133	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	117409	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	79277	50.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.66%			
49) 1,2-Dichloroethane-d4	3.235	65	93734	50.14	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.28%			
63) Toluene-d8	4.336	98	274653	49.88	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.76%			
86) 4-Bromofluorobenzene	6.229	174	92633	49.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.70%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.173	62	39319	25.3052	ug/L	97
12) 1,1-Dichloroethene	1.758	61	548	0.2610	ug/L	78
21) trans-1,2-Dichloroethene	2.135	61	27847	13.3524	ug/L #	75
32) cis-1,2-Dichloroethene	2.720	96	177877	136.5391	ug/L #	76
53) Trichloroethene	3.512	95	23797	15.2777	ug/L	91

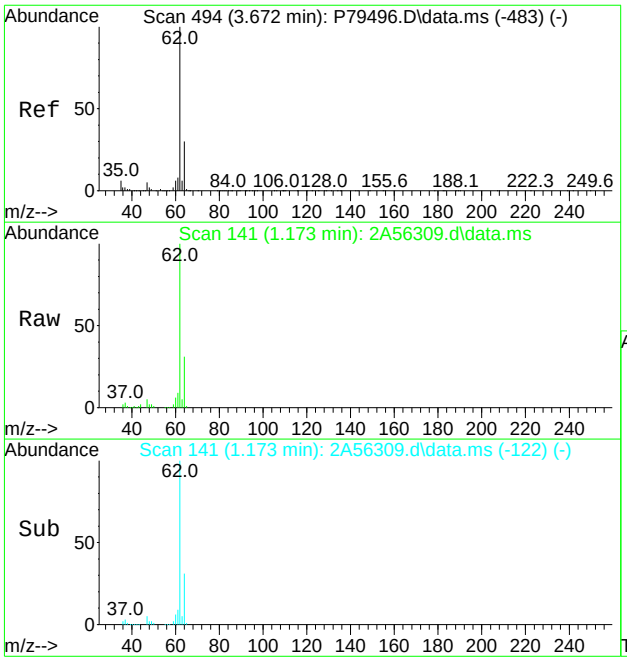
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56309.d
Acq On : 26 Jun 2024 11:08 am
Operator : jeniferw
Sample : FC16561-2 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 06:08:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

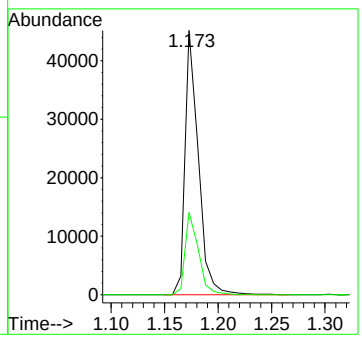


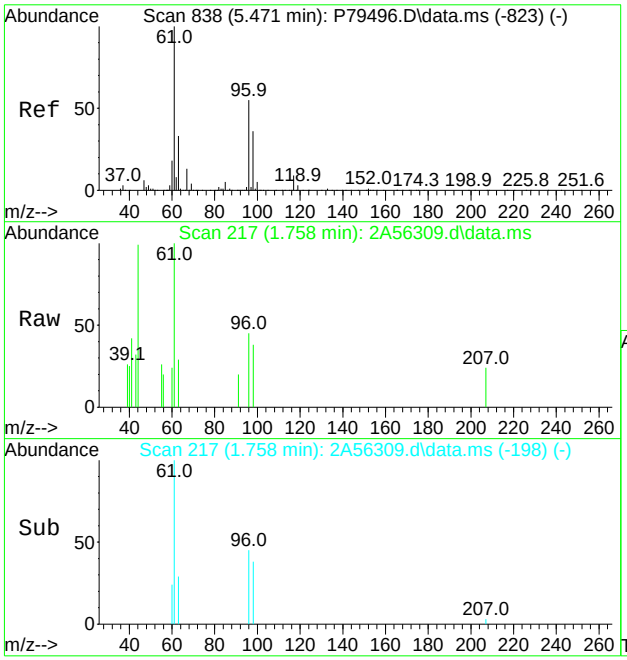


#5
Vinyl Chloride
Concen: 25.3052 ug/L
RT: 1.173 min Scan# 141
Delta R.T. -0.007 min
Lab File: 2A56309.d
Acq: 26 Jun 2024 11:08 am

Tgt Ion: 62 Resp: 39319

Ion	Ratio	Lower	Upper
62	100		
64	31.2	3.1	63.1

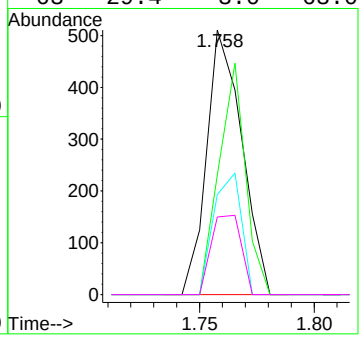


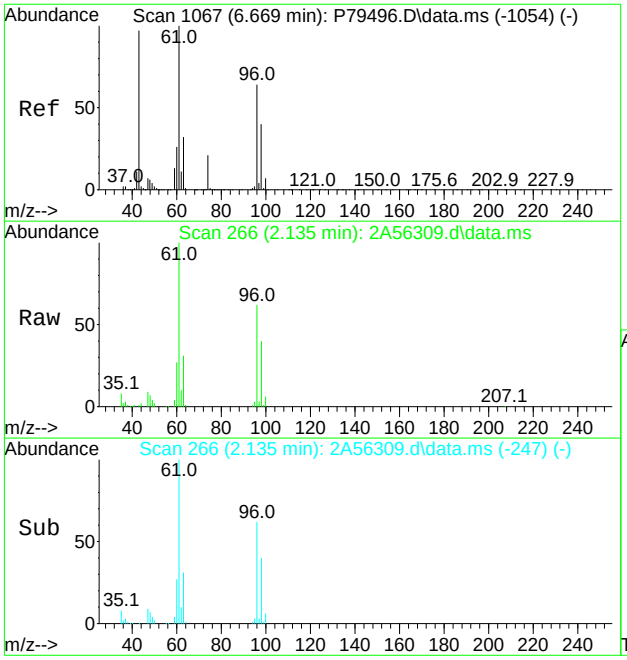


#12
1,1-Dichloroethene
Concen: 0.2610 ug/L
RT: 1.758 min Scan# 217
Delta R.T. -0.007 min
Lab File: 2A56309.d
Acq: 26 Jun 2024 11:08 am

Tgt Ion: 61 Resp: 548

Ion	Ratio	Lower	Upper
61	100		
96	45.2	44.5	104.5
98	37.8	17.5	77.5
63	29.4	3.0	63.0

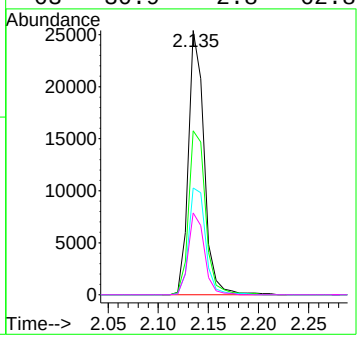


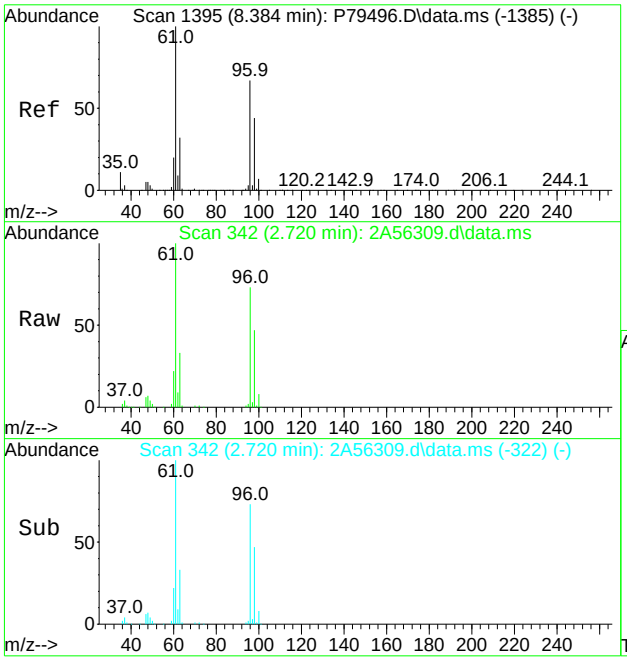


#21
trans-1,2-Dichloroethene
Concen: 13.3524 ug/L
RT: 2.135 min Scan# 266
Delta R.T. -0.007 min
Lab File: 2A56309.d
Acq: 26 Jun 2024 11:08 am

Tgt Ion: 61 Resp: 27847

Ion	Ratio	Lower	Upper
61	100		
96	62.0	62.8	122.8#
98	40.4	29.8	89.8
63	30.9	2.8	62.8

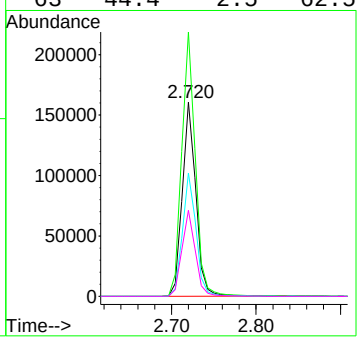


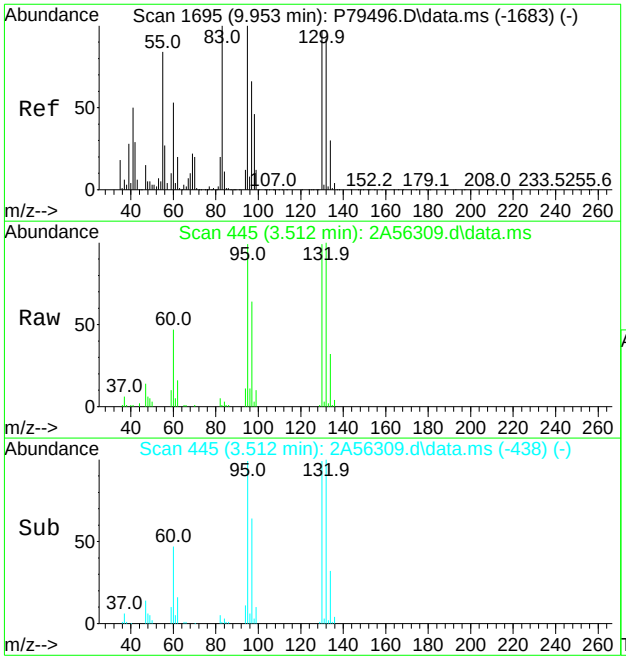


#32
cis-1,2-Dichloroethene
Concen: 136.5391 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56309.d
Acq: 26 Jun 2024 11:08 am

Tgt Ion: 96 Resp: 177877

Ion	Ratio	Lower	Upper
96	100		
61	136.2	67.8	127.8#
98	63.5	35.4	95.4
63	44.4	2.5	62.5

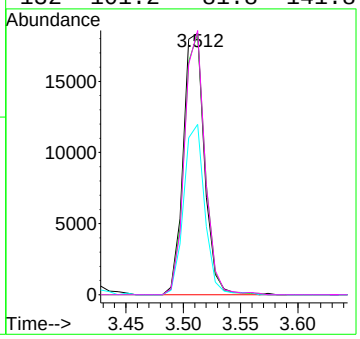




#53
Trichloroethene
Concen: 15.2777 ug/L
RT: 3.512 min Scan# 445
Delta R.T. 0.000 min
Lab File: 2A56309.d
Acq: 26 Jun 2024 11:08 am

Tgt Ion: 95 Resp: 23797

Ion	Ratio	Lower	Upper
95	100		
130	100.1	85.1	145.1
97	65.2	34.8	94.8
132	101.2	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47508.d
Acq On : 27 Jun 2024 2:30 pm
Operator : lianatr
Sample : FC16561-2 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 28 07:23:19 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

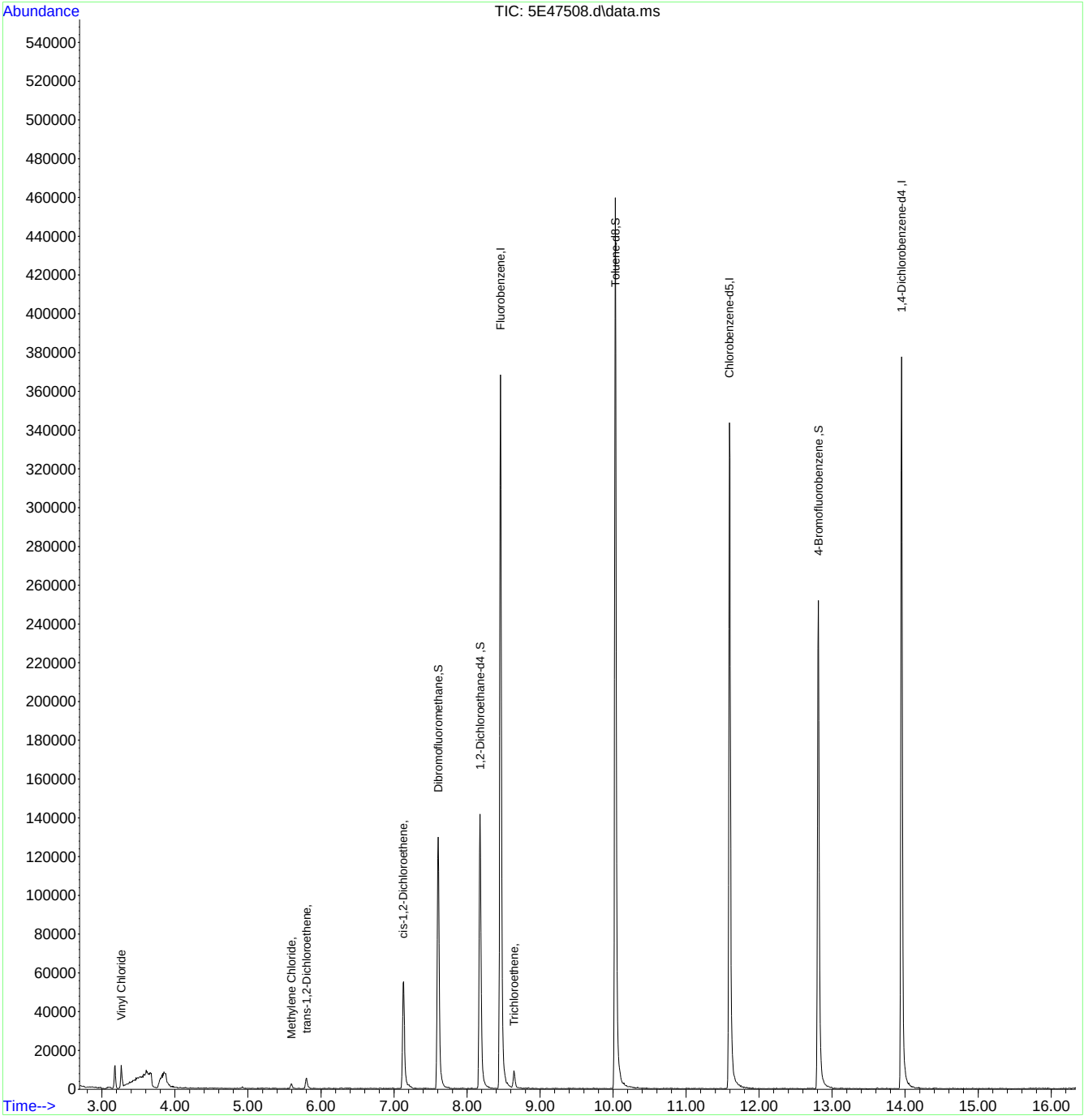
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	300187	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	188068	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	91439	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	74807	48.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.12%			
49) 1,2-Dichloroethane-d4	8.180	65	86335	47.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.56%			
62) Toluene-d8	10.033	98	281804	53.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.30%			
86) 4-Bromofluorobenzene	12.813	95	80090	53.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.26%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	9401	4.8971	ug/L	99
18) Methylene Chloride	5.595	49	1571	0.9007	ug/L	90
21) trans-1,2-Dichloroethene	5.802	61	3632	2.2765	ug/L	88
32) cis-1,2-Dichloroethene	7.125	96	27140	23.0422	ug/L	92
52) Trichloroethene	8.643	95	3038	2.5734	ug/L	91

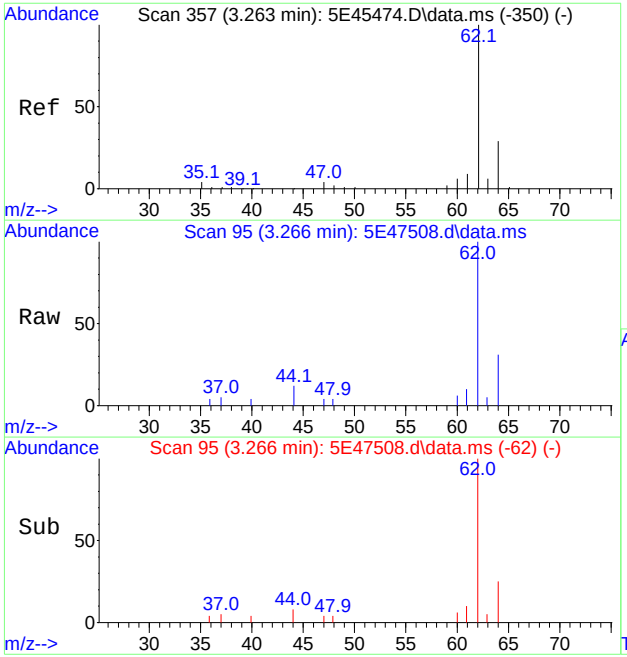
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47508.d
Acq On : 27 Jun 2024 2:30 pm
Operator : lianatr
Sample : FC16561-2 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 28 07:23:19 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

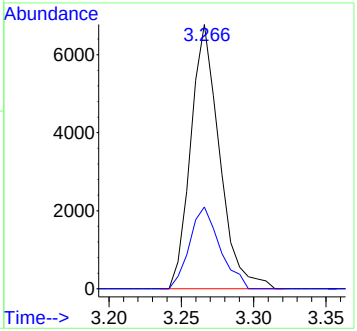


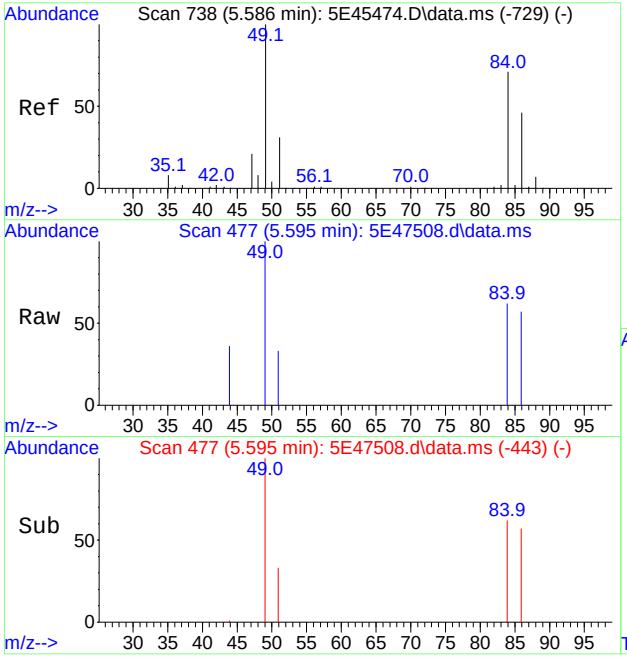


#4
Vinyl Chloride
Concen: 4.8971 ug/L
RT: 3.266 min Scan# 95
Delta R.T. -0.000 min
Lab File: 5E47508.d
Acq: 27 Jun 2024 2:30 pm

Tgt Ion: 62 Resp: 9401

Ion	Ratio	Lower	Upper
62	100		
64	31.0	1.8	61.8

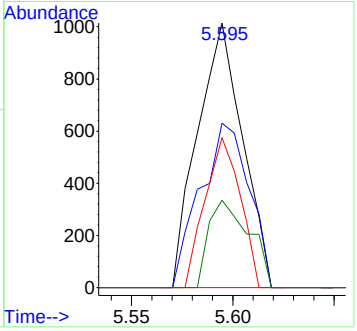


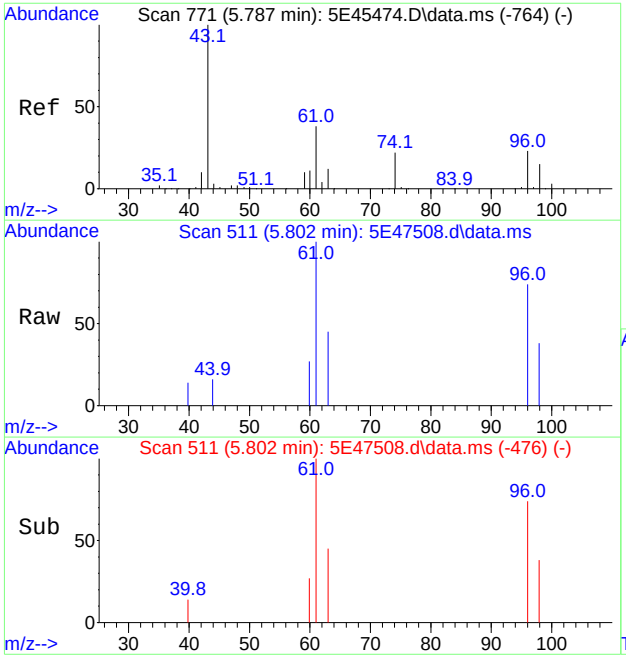


#18
Methylene Chloride
Concen: 0.9007 ug/L
RT: 5.595 min Scan# 477
Delta R.T. 0.006 min
Lab File: 5E47508.d
Acq: 27 Jun 2024 2:30 pm

Tgt Ion: 49 Resp: 1571

Ion	Ratio	Lower	Upper
49	100		
84	62.2	37.7	97.7
86	56.7	14.3	74.3
51	33.0	0.0	59.9

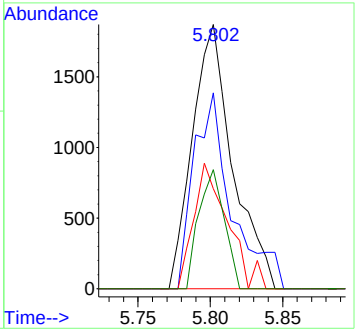


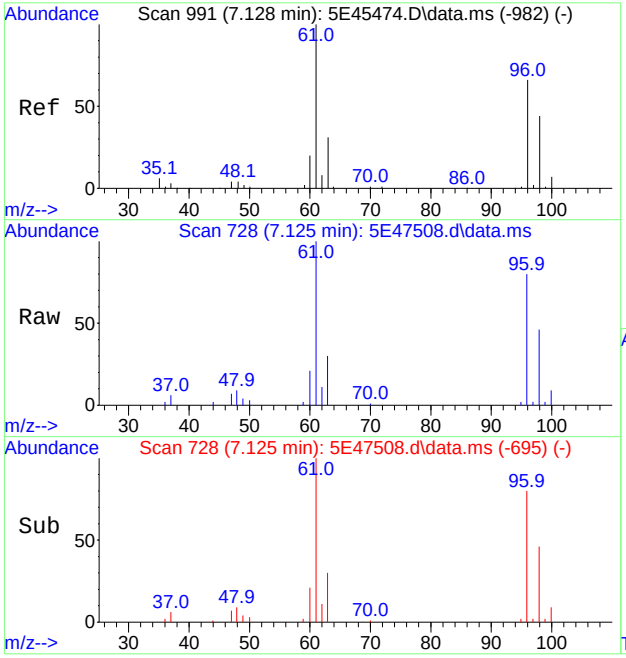


#21
trans-1,2-Dichloroethene
Concen: 2.2765 ug/L
RT: 5.802 min Scan# 511
Delta R.T. 0.012 min
Lab File: 5E47508.d
Acq: 27 Jun 2024 2:30 pm

Tgt Ion: 61 Resp: 3632

Ion	Ratio	Lower	Upper
61	100		
96	74.1	38.7	98.7
98	37.8	13.9	73.9
63	45.1	1.2	61.2

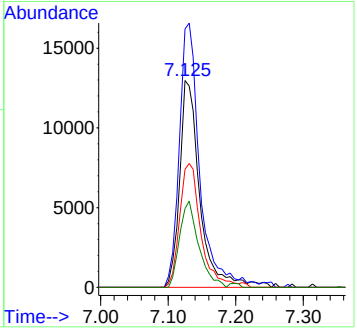


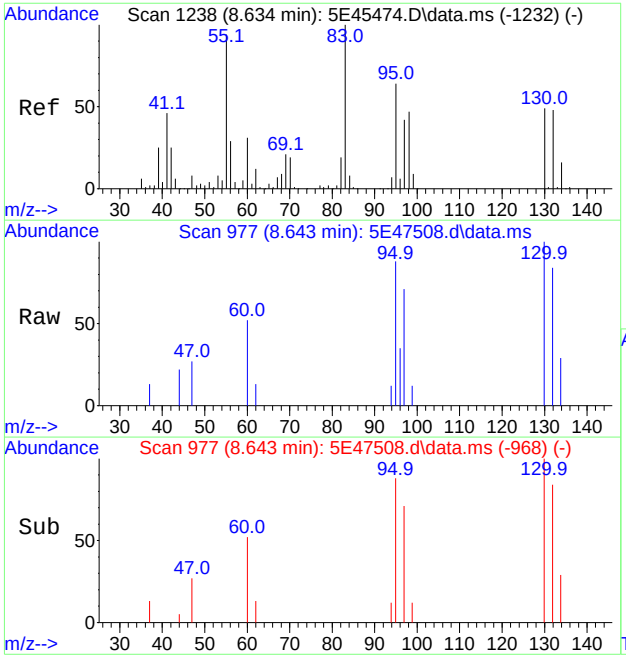


#32
cis-1,2-Dichloroethene
Concen: 23.0422 ug/L
RT: 7.125 min Scan# 728
Delta R.T. -0.000 min
Lab File: 5E47508.d
Acq: 27 Jun 2024 2:30 pm

Tgt Ion: 96 Resp: 27140

Ion	Ratio	Lower	Upper
96	100		
61	124.9	104.0	164.0
98	57.1	35.5	95.5
63	38.1	12.4	72.4

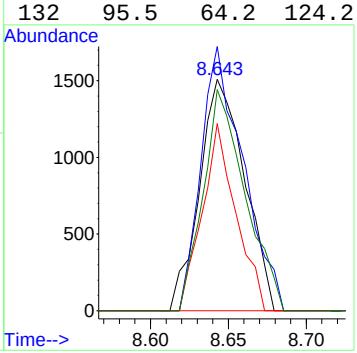




#52
Trichloroethene
Concen: 2.5734 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47508.d
Acq: 27 Jun 2024 2:30 pm

Tgt Ion: 95 Resp: 3038

Ion	Ratio	Lower	Upper
95	100		
130	114.2	71.7	131.7
97	80.9	40.5	100.5
132	95.5	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56310.d
Acq On : 26 Jun 2024 11:32 am
Operator : jeniferw
Sample : FC16561-3 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 06:09:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

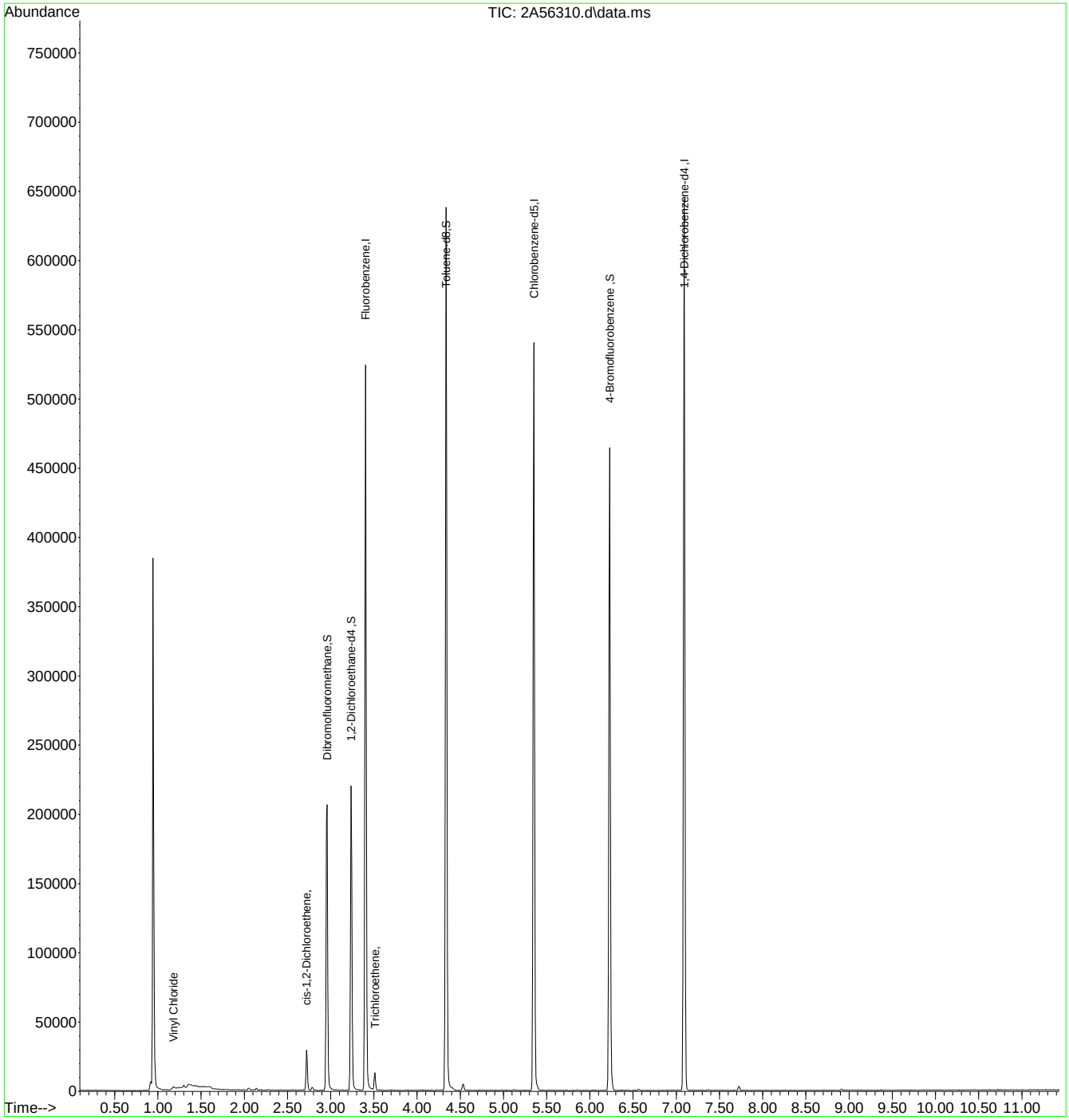
Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1) Fluorobenzene			3.405	96	267008	50.00	ug/L	0.00
62) Chlorobenzene-d5			5.352	117	200891	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4			7.091	152	119041	50.00	ug/L	0.00
System Monitoring Compounds								
39) Dibromofluoromethane			2.958	113	79621	51.65	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery = 103.30%			
49) 1,2-Dichloroethane-d4			3.235	65	92791	50.21	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125			Recovery = 100.42%			
63) Toluene-d8			4.336	98	271942	49.94	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112			Recovery = 99.88%			
86) 4-Bromofluorobenzene			6.229	174	92207	48.94	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery = 97.88%			
Target Compounds								Qvalue
5) Vinyl Chloride			1.181	62	656	0.4271	ug/L	97
32) cis-1,2-Dichloroethene			2.720	96	7321	4.8805	ug/L #	74
53) Trichloroethene			3.513	95	2635	1.7114	ug/L	91

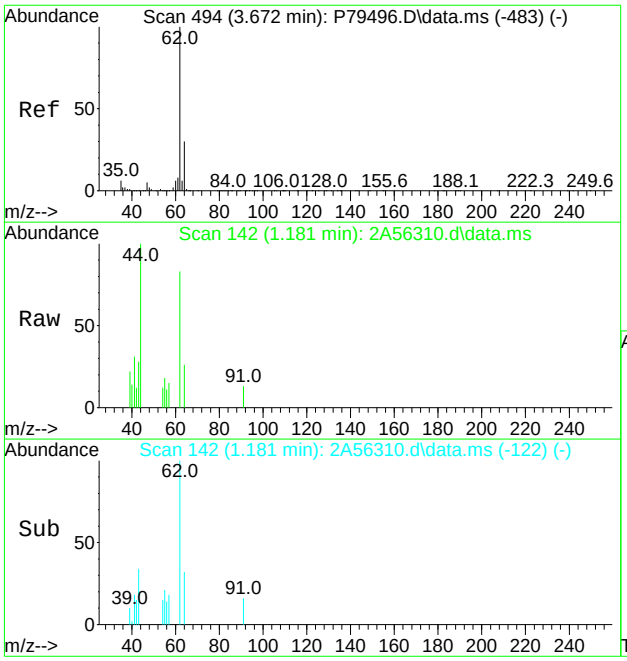
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56310.d
Acq On : 26 Jun 2024 11:32 am
Operator : jeniferw
Sample : FC16561-3 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 06:09:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

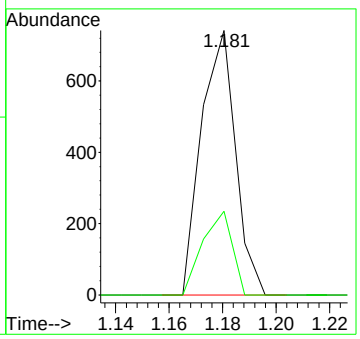


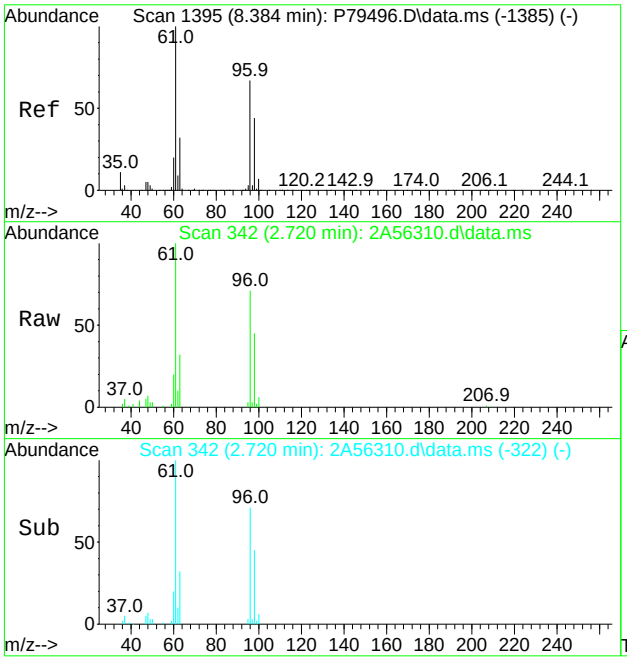


#5
Vinyl Chloride
Concen: 0.4271 ug/L
RT: 1.181 min Scan# 142
Delta R.T. 0.001 min
Lab File: 2A56310.d
Acq: 26 Jun 2024 11:32 am

Tgt Ion: 62 Resp: 656

Ion	Ratio	Lower	Upper
62	100		
64	31.7	3.1	63.1

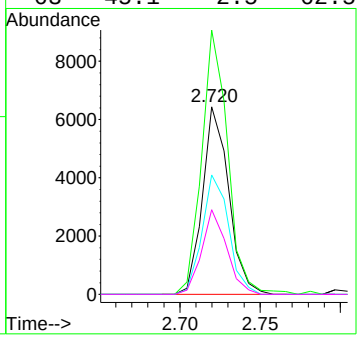


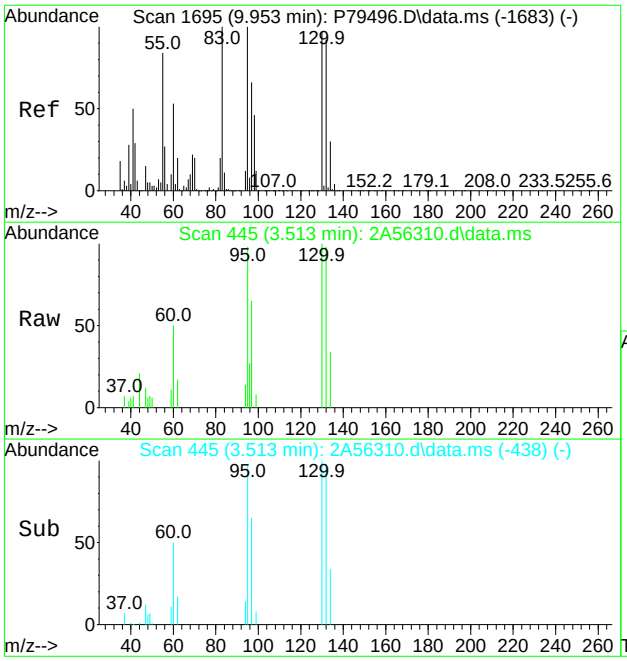


#32
cis-1,2-Dichloroethene
Concen: 4.8805 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56310.d
Acq: 26 Jun 2024 11:32 am

Tgt Ion: 96 Resp: 7321

Ion	Ratio	Lower	Upper
96	100		
61	140.9	67.8	127.8#
98	63.6	35.4	95.4
63	45.1	2.5	62.5

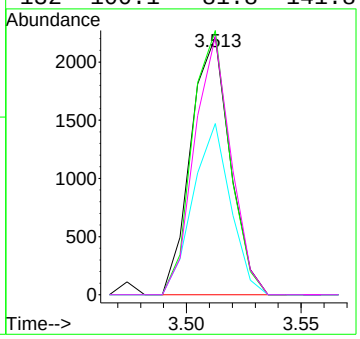




#53
Trichloroethene
Concen: 1.7114 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56310.d
Acq: 26 Jun 2024 11:32 am

Tgt Ion: 95 Resp: 2635

Ion	Ratio	Lower	Upper
95	100		
130	102.4	85.1	145.1
97	66.3	34.8	94.8
132	100.1	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56311.d
Acq On : 26 Jun 2024 11:56 am
Operator : jeniferw
Sample : FC16561-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,2.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 06:10:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

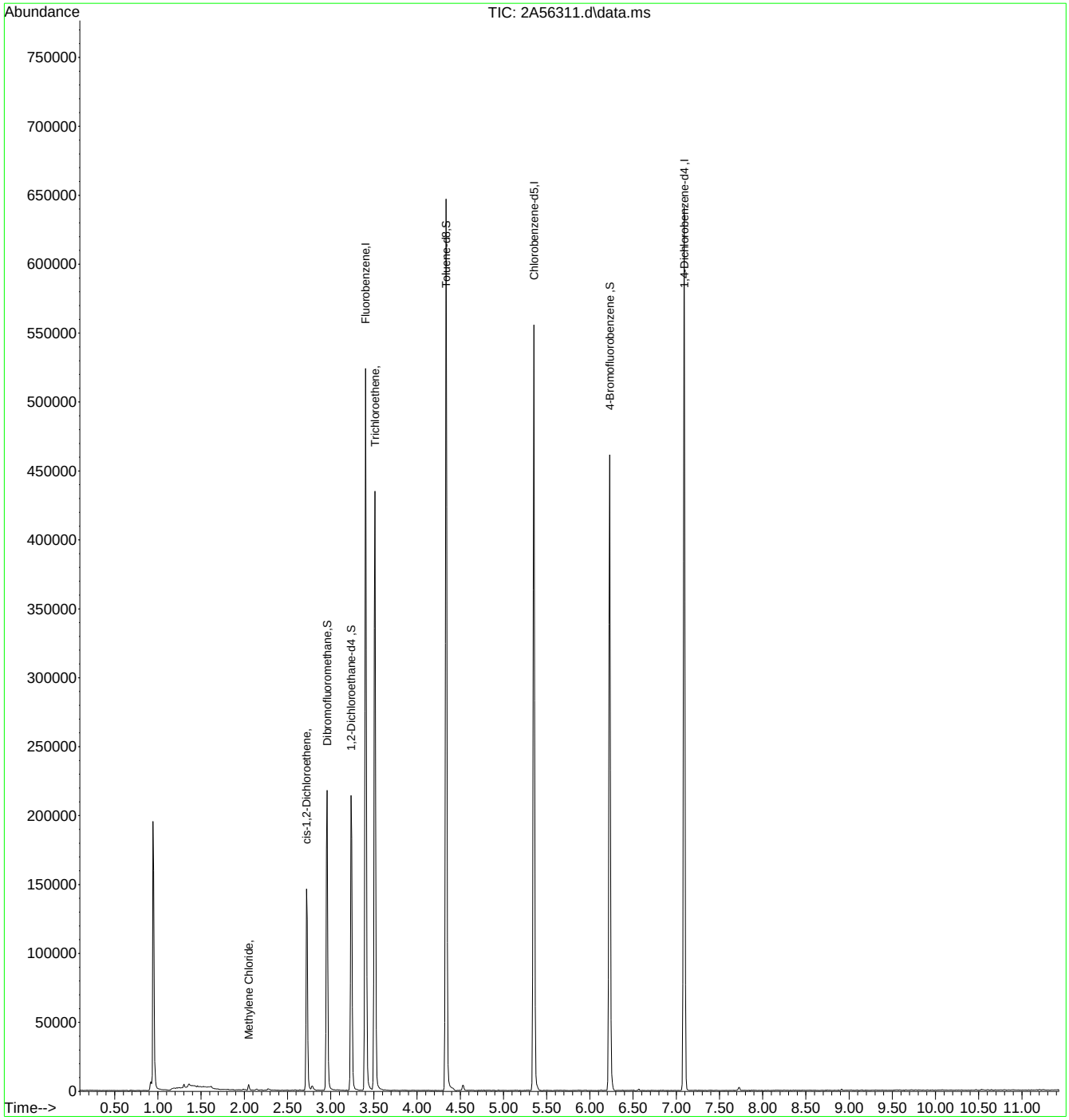
Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1) Fluorobenzene			3.405	96	271249	50.00	ug/L	0.00
62) Chlorobenzene-d5			5.352	117	202907	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4			7.091	152	116606	50.00	ug/L	0.00
System Monitoring Compounds								
39) Dibromofluoromethane			2.958	113	78929	50.40	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery =	100.80%		
49) 1,2-Dichloroethane-d4			3.235	65	93941	50.04	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125			Recovery =	100.08%		
63) Toluene-d8			4.336	98	274063	49.82	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112			Recovery =	99.64%		
86) 4-Bromofluorobenzene			6.229	174	91175	49.41	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery =	98.82%		
Target Compounds								Qvalue
18) Methylene Chloride			2.050	49	1161	0.6020	ug/L #	71
32) cis-1,2-Dichloroethene			2.720	96	37762	25.3374	ug/L #	70
53) Trichloroethene			3.513	95	91475	58.4845	ug/L	91

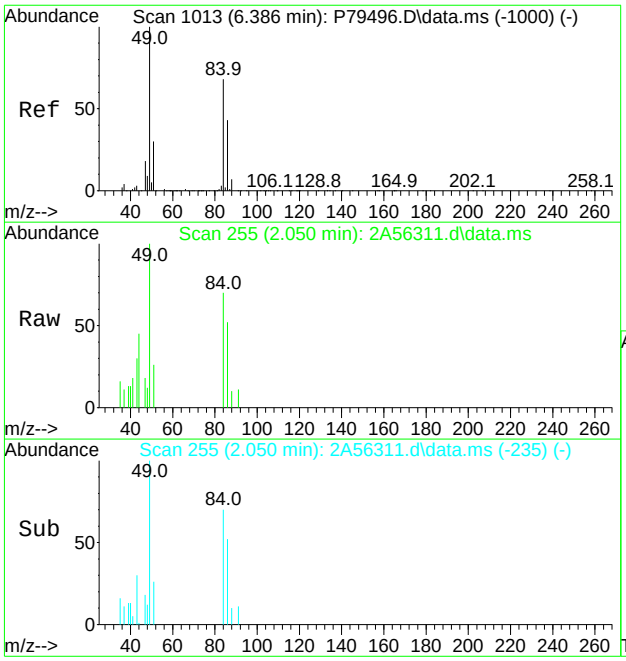
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56311.d
Acq On : 26 Jun 2024 11:56 am
Operator : jeniferw
Sample : FC16561-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,2.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 06:10:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

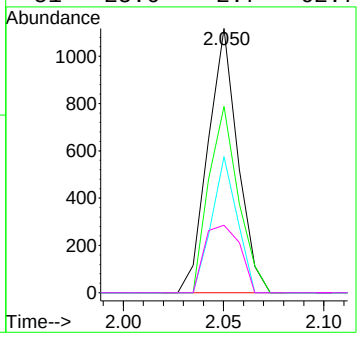


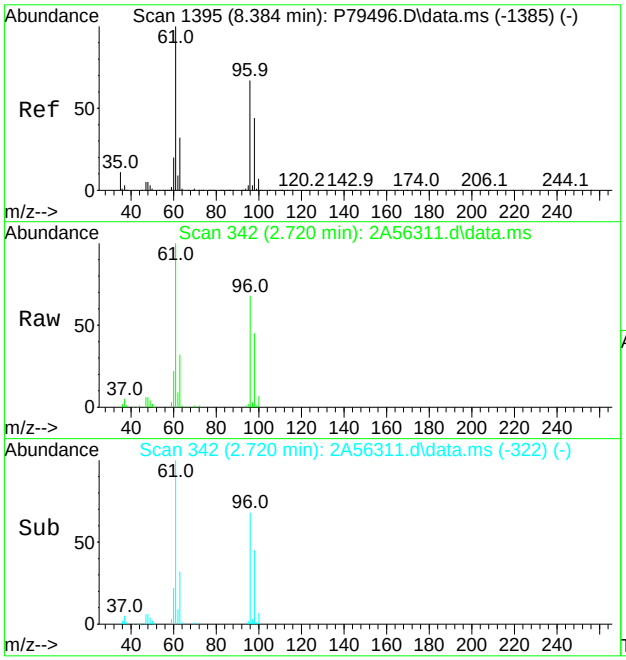


#18
Methylene Chloride
Concen: 0.6020 ug/L
RT: 2.050 min Scan# 255
Delta R.T. 0.000 min
Lab File: 2A56311.d
Acq: 26 Jun 2024 11:56 am

Tgt Ion: 49 Resp: 1161

Ion	Ratio	Lower	Upper
49	100		
84	70.5	78.4	138.4#
86	51.5	42.5	102.5
51	25.6	2.7	62.7

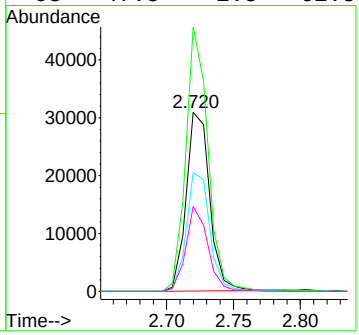


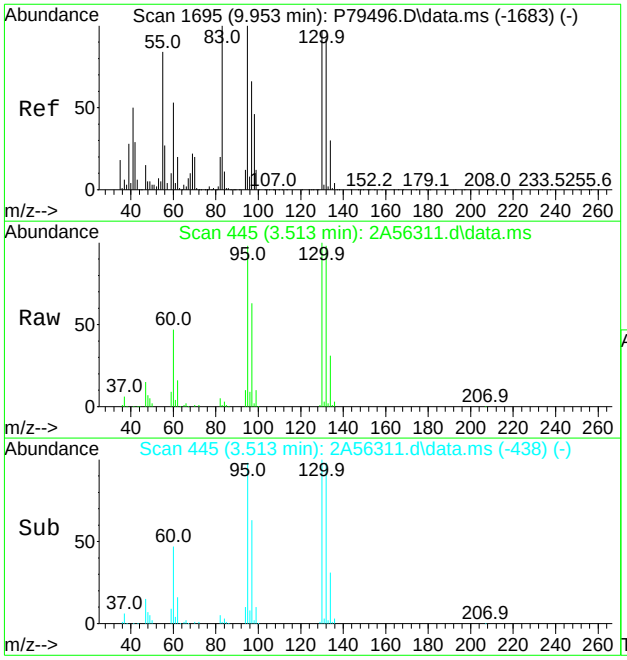


#32
cis-1,2-Dichloroethene
Concen: 25.3374 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56311.d
Acq: 26 Jun 2024 11:56 am

Tgt Ion: 96 Resp: 37762

Ion	Ratio	Lower	Upper
96	100		
61	147.6	67.8	127.8#
98	66.4	35.4	95.4
63	47.5	2.5	62.5

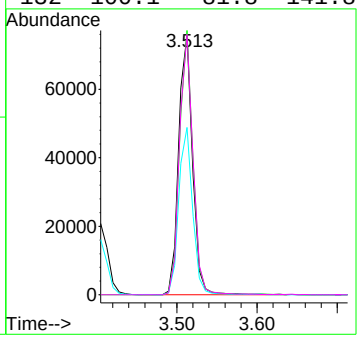




#53
Trichloroethene
Concen: 58.4845 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56311.d
Acq: 26 Jun 2024 11:56 am

Tgt Ion: 95 Resp: 91475

Ion	Ratio	Lower	Upper
95	100		
130	101.7	85.1	145.1
97	64.3	34.8	94.8
132	100.1	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56306.d
Acq On : 26 Jun 2024 9:55 am
Operator : jeniferw
Sample : FC16561-5 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 06:05:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

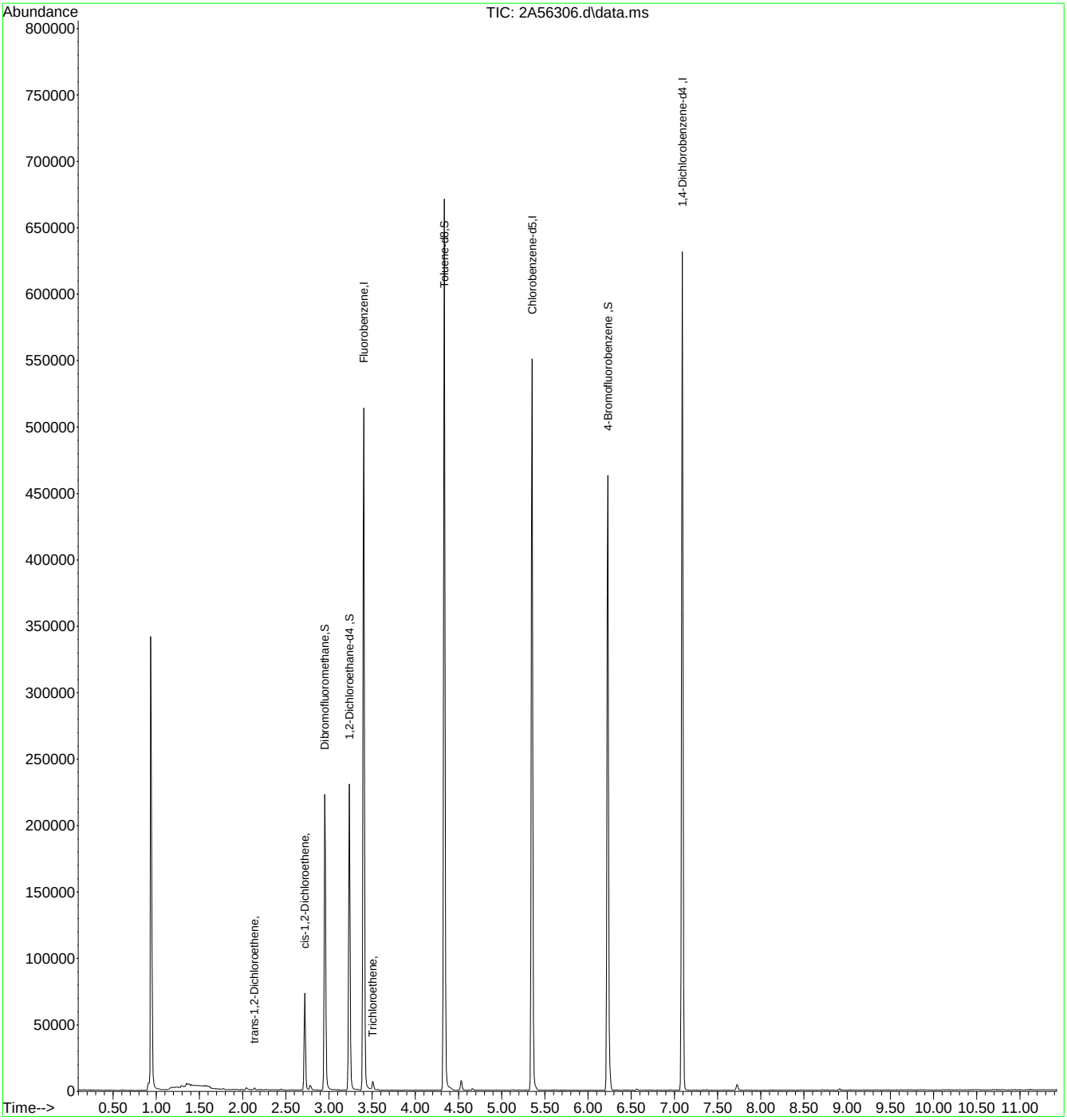
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	276573	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	205765	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	118328	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	79851	50.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.02%			
49) 1,2-Dichloroethane-d4	3.235	65	94781	49.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.04%			
63) Toluene-d8	4.336	98	282506	50.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.30%			
86) 4-Bromofluorobenzene	6.229	174	92416	49.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.70%			
Target Compounds						Qvalue
21) trans-1,2-Dichloroethene	2.135	61	648	0.3035	ug/L #	77
32) cis-1,2-Dichloroethene	2.720	96	18172	11.7827	ug/L #	78
53) Trichloroethene	3.505	95	1568	0.9832	ug/L	87

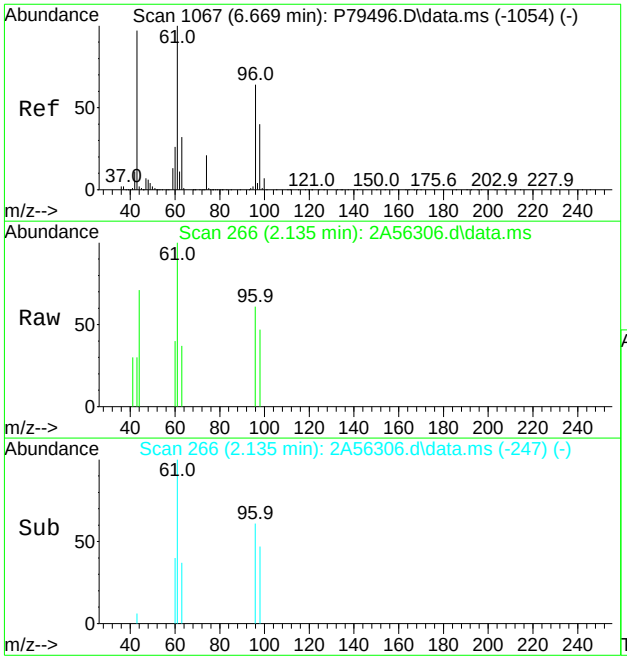
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56306.d
Acq On : 26 Jun 2024 9:55 am
Operator : jeniferw
Sample : FC16561-5 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 06:05:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

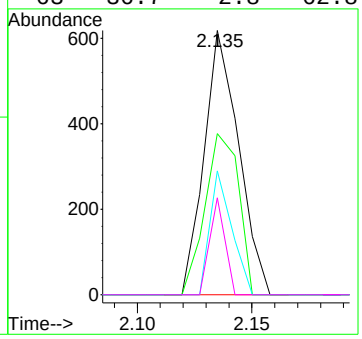


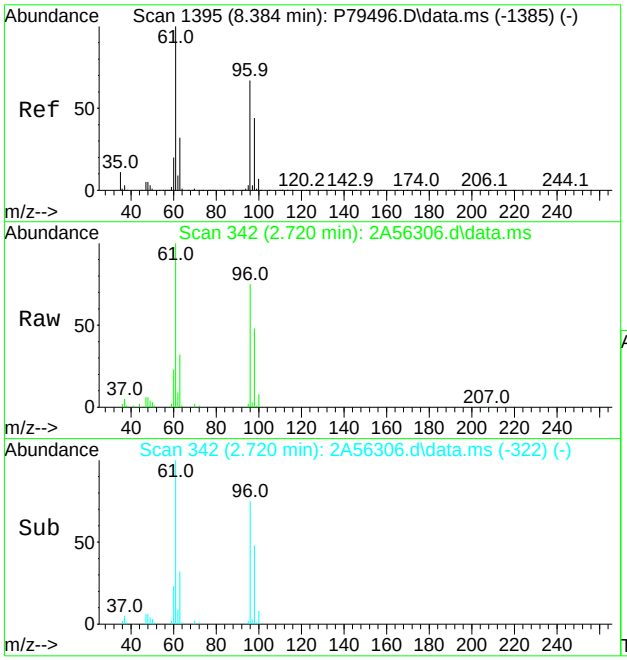


#21
trans-1,2-Dichloroethene
Concen: 0.3035 ug/L
RT: 2.135 min Scan# 266
Delta R.T. -0.007 min
Lab File: 2A56306.d
Acq: 26 Jun 2024 9:55 am

Tgt Ion: 61 Resp: 648

Ion	Ratio	Lower	Upper
61	100		
96	60.9	62.8	122.8#
98	46.8	29.8	89.8
63	36.7	2.8	62.8

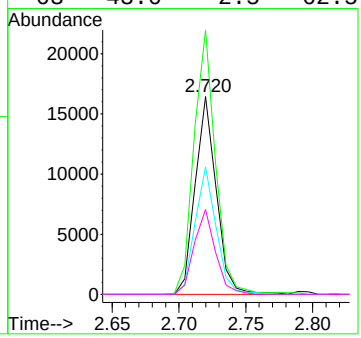


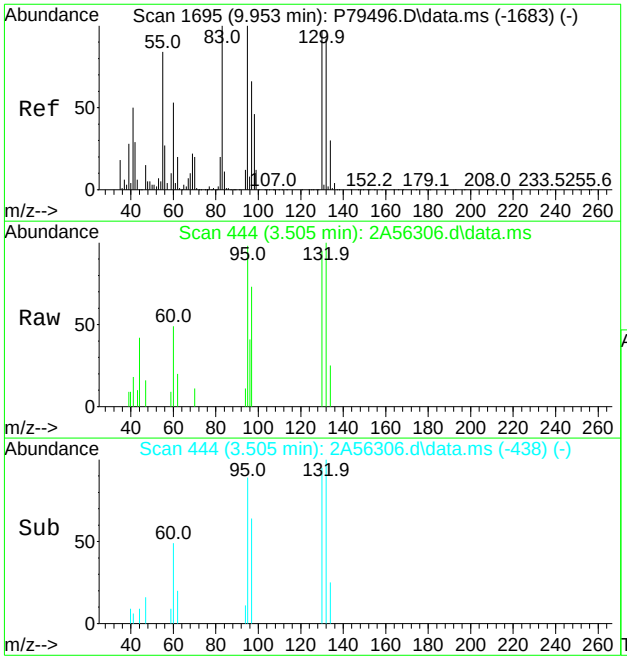


#32
cis-1,2-Dichloroethene
Concen: 11.7827 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56306.d
Acq: 26 Jun 2024 9:55 am

Tgt Ion: 96 Resp: 18172

Ion	Ratio	Lower	Upper
96	100		
61	133.7	67.8	127.8#
98	64.4	35.4	95.4
63	43.0	2.5	62.5

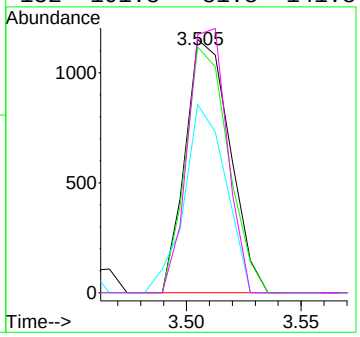




#53
Trichloroethene
Concen: 0.9832 ug/L
RT: 3.505 min Scan# 444
Delta R.T. -0.007 min
Lab File: 2A56306.d
Acq: 26 Jun 2024 9:55 am

Tgt Ion: 95 Resp: 1568

Ion	Ratio	Lower	Upper
95	100		
130	97.0	85.1	145.1
97	74.3	34.8	94.8
132	101.8	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56312.d
Acq On : 26 Jun 2024 12:20 pm
Operator : jeniferw
Sample : FC16561-6 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 06:11:04 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

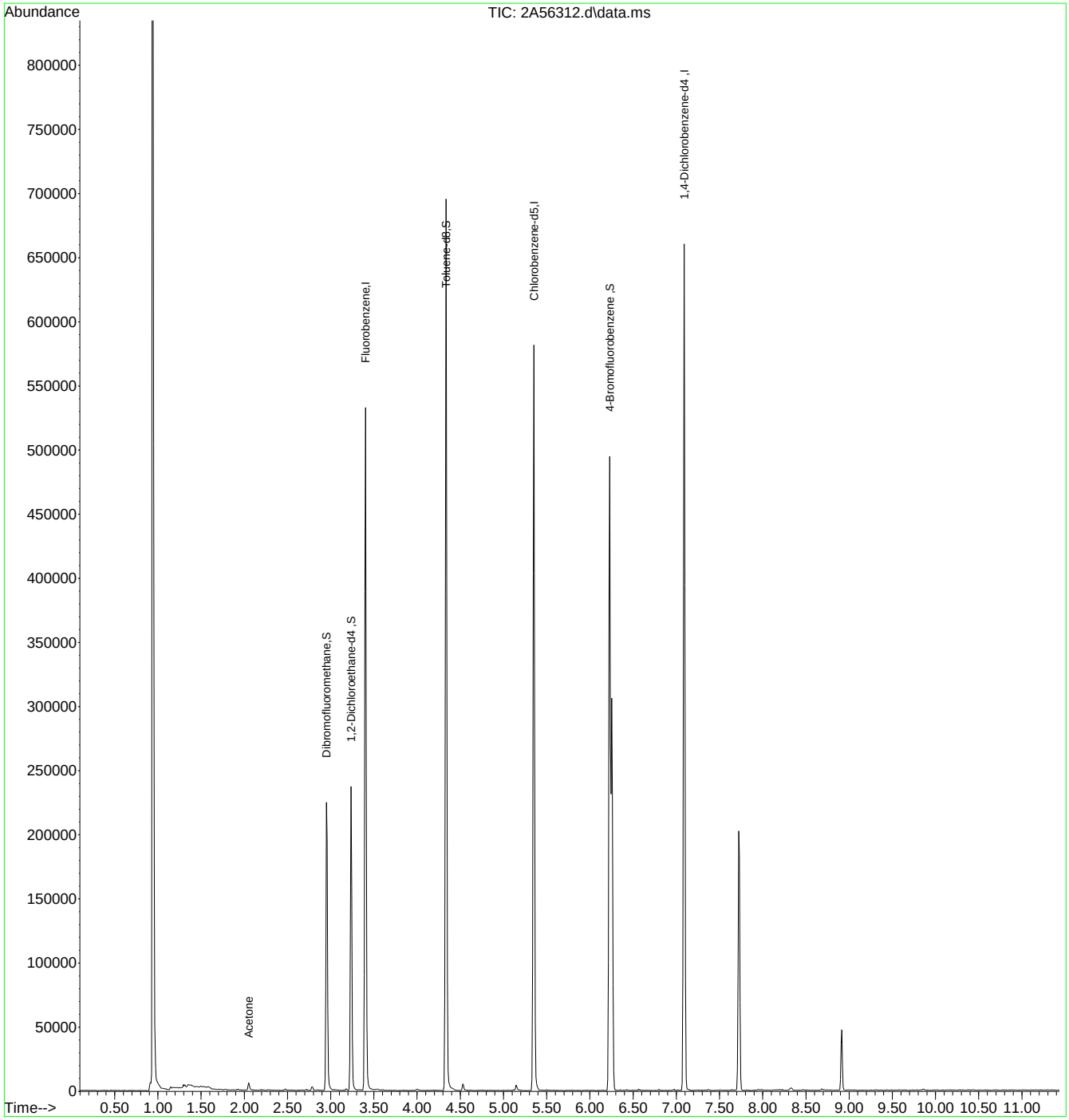
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	284334	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	214414	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	125128	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	82472	50.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.48%			
49) 1,2-Dichloroethane-d4	3.235	65	99588	50.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.22%			
63) Toluene-d8	4.336	98	290505	49.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.96%			
86) 4-Bromofluorobenzene	6.229	174	96886	48.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.86%			
Target Compounds						Qvalue
19) Acetone	2.050	43	4063	7.1108	ug/L	80

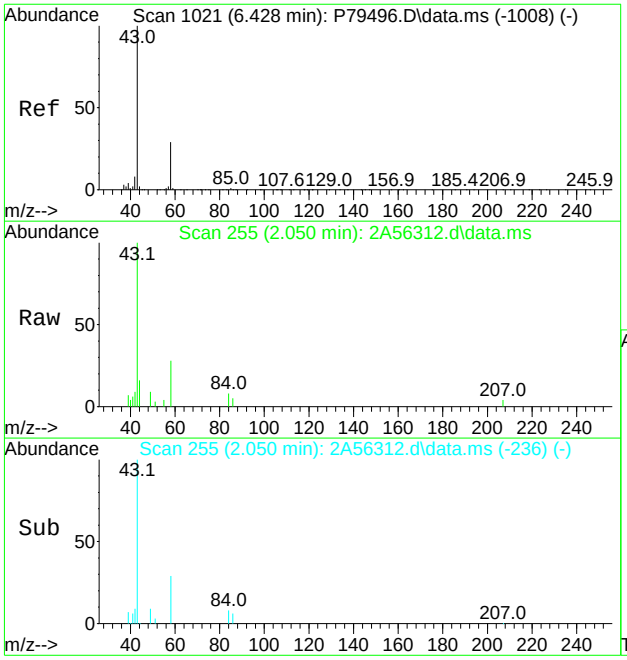
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56312.d
Acq On : 26 Jun 2024 12:20 pm
Operator : jeniferw
Sample : FC16561-6 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 06:11:04 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

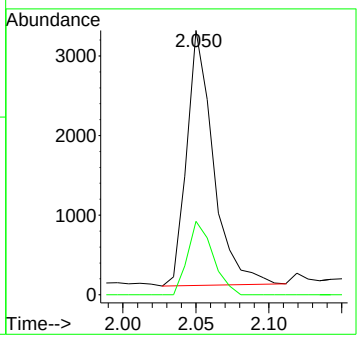




#19
Acetone
Concen: 7.1108 ug/L
RT: 2.050 min Scan# 255
Delta R.T. 0.000 min
Lab File: 2A56312.d
Acq: 26 Jun 2024 12:20 pm

Tgt Ion: 43 Resp: 4063

Ion	Ratio	Lower	Upper
43	100		
58	27.8	10.4	70.4



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56313.d
Acq On : 26 Jun 2024 12:44 pm
Operator : jeniferw
Sample : FC16561-7 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 06:11:48 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

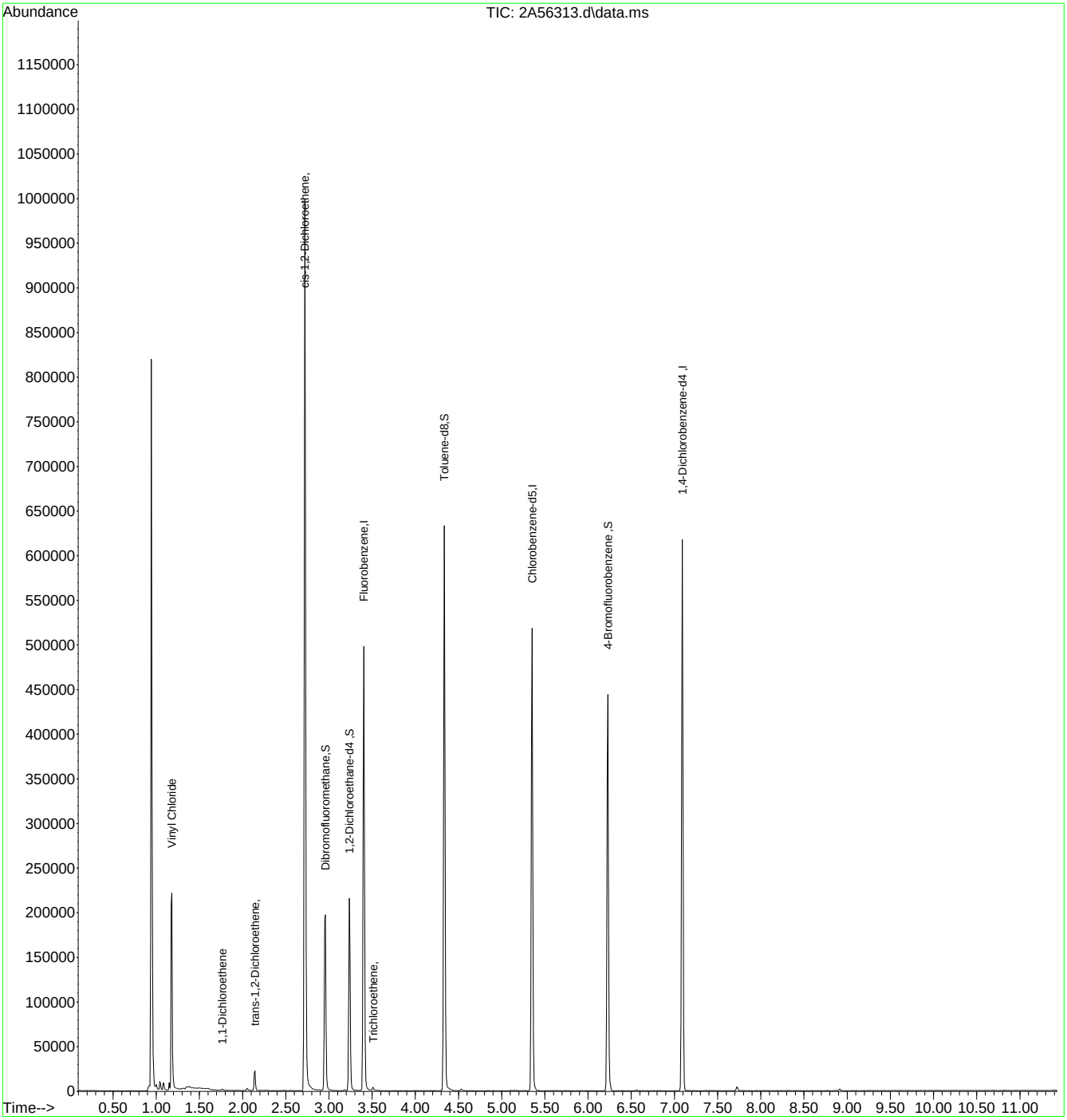
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	261491	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	196670	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	114943	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	77283	51.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.38%			
49) 1,2-Dichloroethane-d4	3.236	65	89656	49.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.08%			
63) Toluene-d8	4.336	98	269523	50.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.10%			
86) 4-Bromofluorobenzene	6.229	174	89660	49.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.58%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.181	62	134382	89.3432	ug/L	98
12) 1,1-Dichloroethene	1.766	61	545	0.2681	ug/L	82
21) trans-1,2-Dichloroethene	2.143	61	7425	3.6778	ug/L	83
32) cis-1,2-Dichloroethene	2.720	96	247073	218.2591	ug/L #	76
53) Trichloroethene	3.513	95	979	0.6493	ug/L #	73

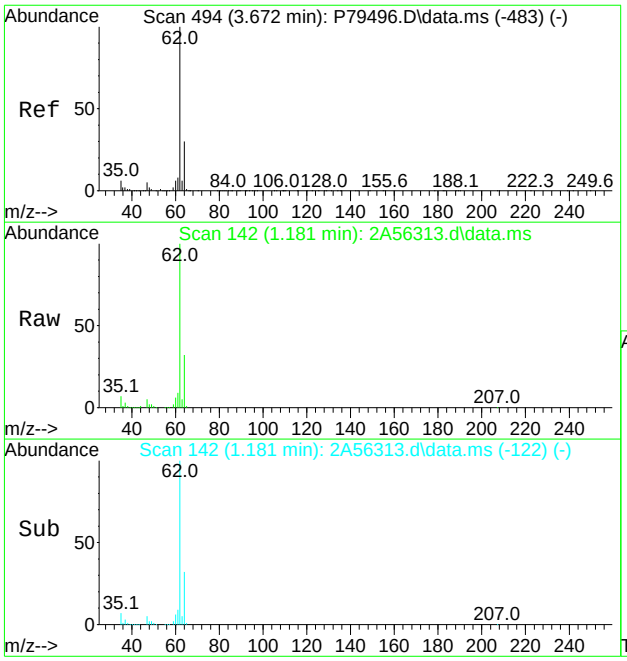
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56313.d
Acq On : 26 Jun 2024 12:44 pm
Operator : jeniferw
Sample : FC16561-7 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 06:11:48 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

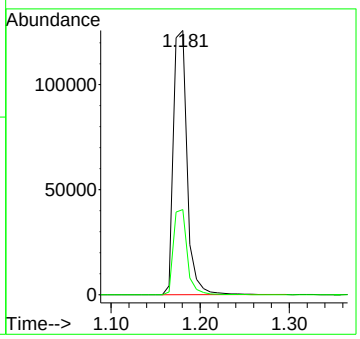


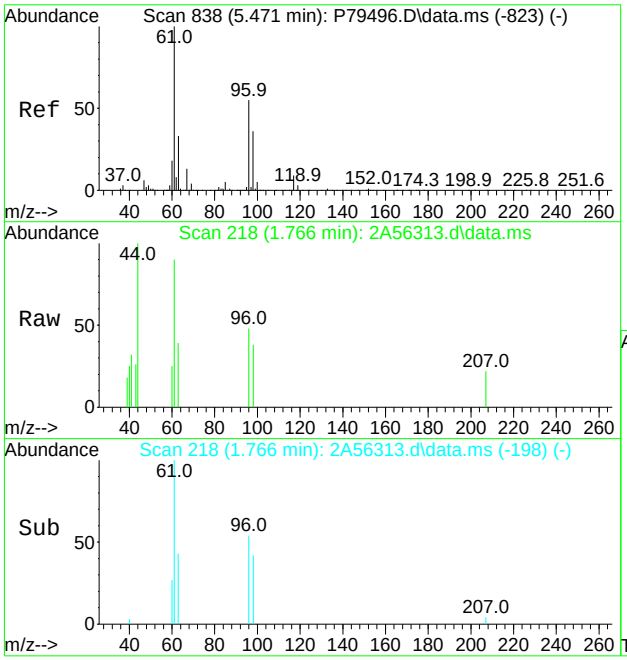


#5
Vinyl Chloride
Concen: 89.3432 ug/L
RT: 1.181 min Scan# 142
Delta R.T. 0.001 min
Lab File: 2A56313.d
Acq: 26 Jun 2024 12:44 pm

Tgt Ion: 62 Resp: 134382

Ion	Ratio	Lower	Upper
62	100		
64	32.2	3.1	63.1

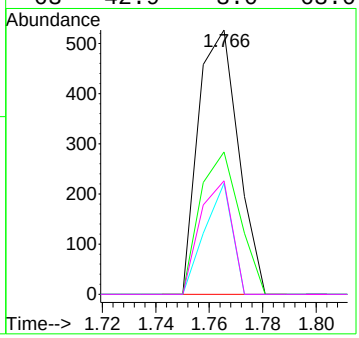


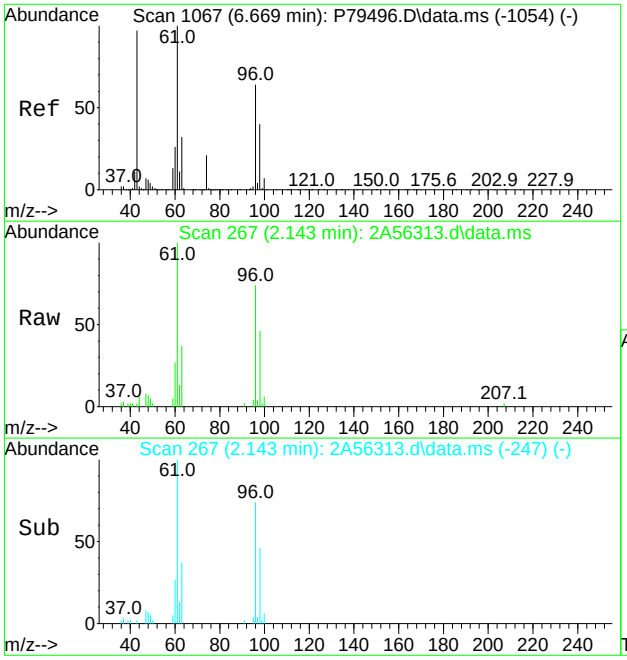


#12
1,1-Dichloroethene
Concen: 0.2681 ug/L
RT: 1.766 min Scan# 218
Delta R.T. 0.001 min
Lab File: 2A56313.d
Acq: 26 Jun 2024 12:44 pm

Tgt Ion: 61 Resp: 545

Ion	Ratio	Lower	Upper
61	100		
96	53.9	44.5	104.5
98	41.9	17.5	77.5
63	42.9	3.0	63.0

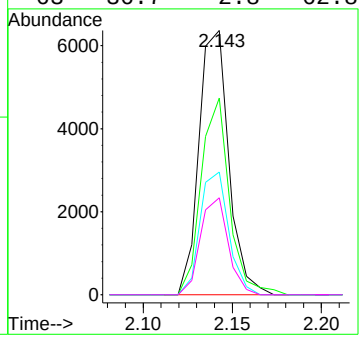


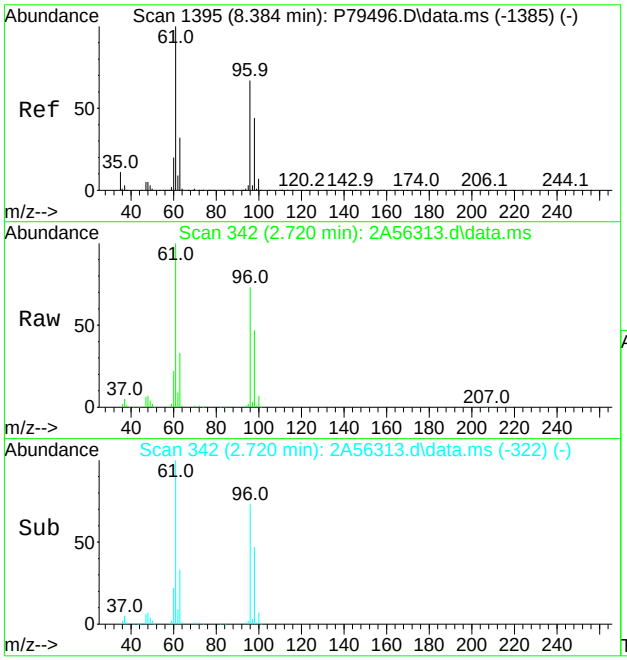


#21
trans-1,2-Dichloroethene
Concen: 3.6778 ug/L
RT: 2.143 min Scan# 267
Delta R.T. 0.001 min
Lab File: 2A56313.d
Acq: 26 Jun 2024 12:44 pm

Tgt Ion: 61 Resp: 7425

Ion	Ratio	Lower	Upper
61	100		
96	74.4	62.8	122.8
98	46.4	29.8	89.8
63	36.7	2.8	62.8

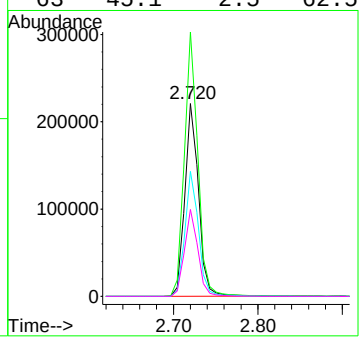


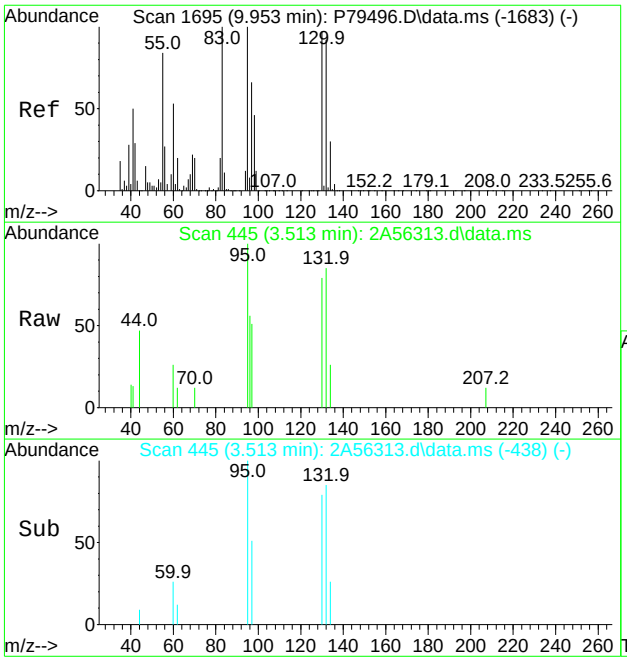


#32
cis-1,2-Dichloroethene
Concen: 218.2591 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56313.d
Acq: 26 Jun 2024 12:44 pm

Tgt Ion: 96 Resp: 247073

Ion	Ratio	Lower	Upper
96	100		
61	137.1	67.8	127.8#
98	64.9	35.4	95.4
63	45.1	2.5	62.5

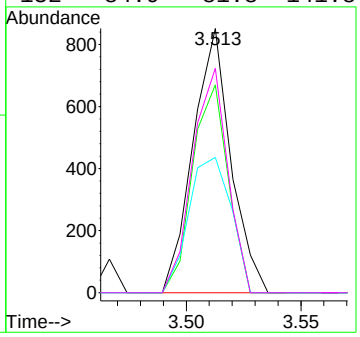




#53
Trichloroethene
Concen: 0.6493 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56313.d
Acq: 26 Jun 2024 12:44 pm

Tgt Ion: 95 Resp: 979

Ion	Ratio	Lower	Upper
95	100		
130	78.6	85.1	145.1#
97	51.2	34.8	94.8
132	84.9	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47509.d
Acq On : 27 Jun 2024 2:53 pm
Operator : lianatr
Sample : FC16561-7 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 07:23:39 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

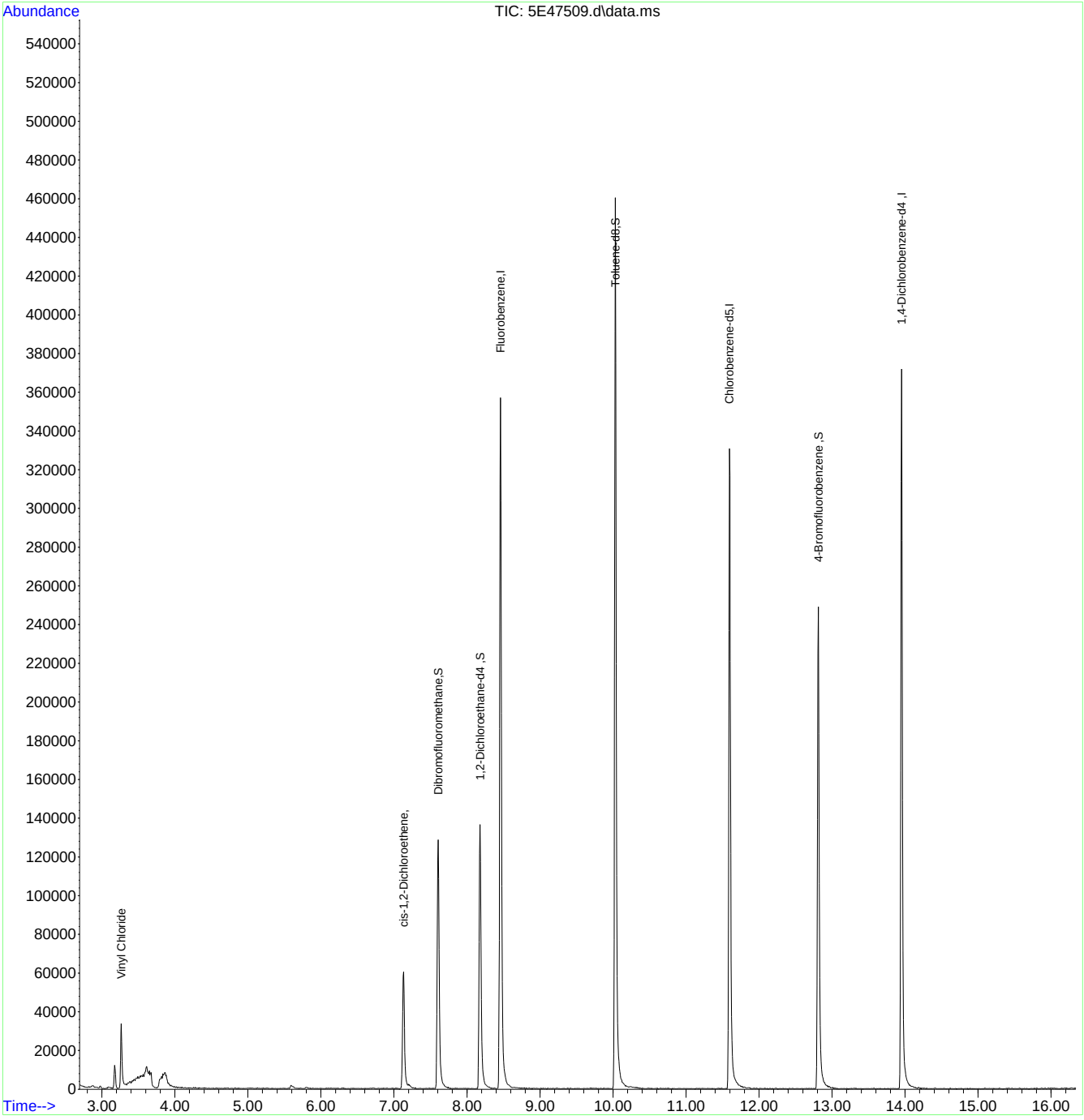
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	297381	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	187051	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	90902	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	74571	48.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.72%			
49) 1,2-Dichloroethane-d4	8.180	65	84159	46.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.04%			
62) Toluene-d8	10.033	98	277413	53.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.20%			
86) 4-Bromofluorobenzene	12.813	95	77950	52.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.02%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	28670	15.0756	ug/L	98
32) cis-1,2-Dichloroethene	7.131	96	26814	22.9802	ug/L	97

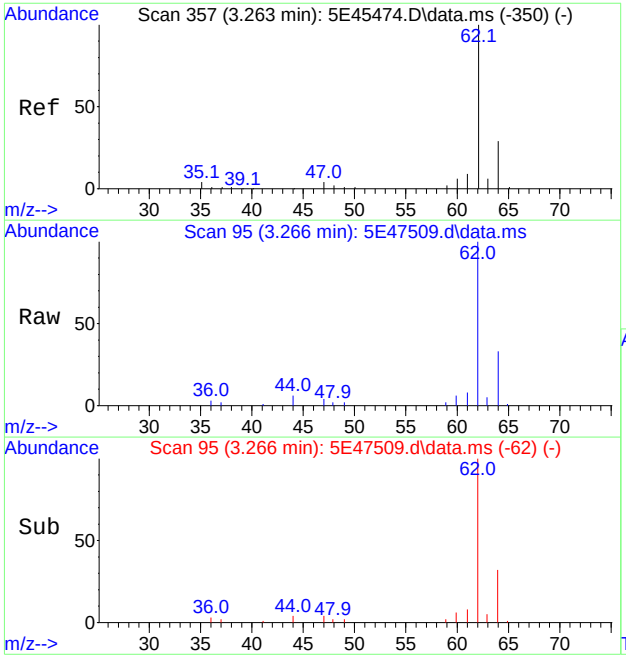
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47509.d
Acq On : 27 Jun 2024 2:53 pm
Operator : lianatr
Sample : FC16561-7 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 07:23:39 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

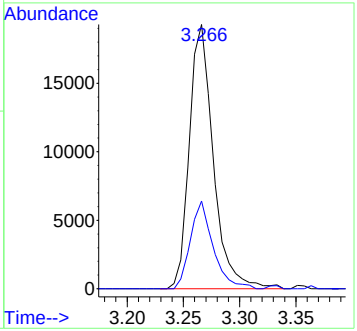


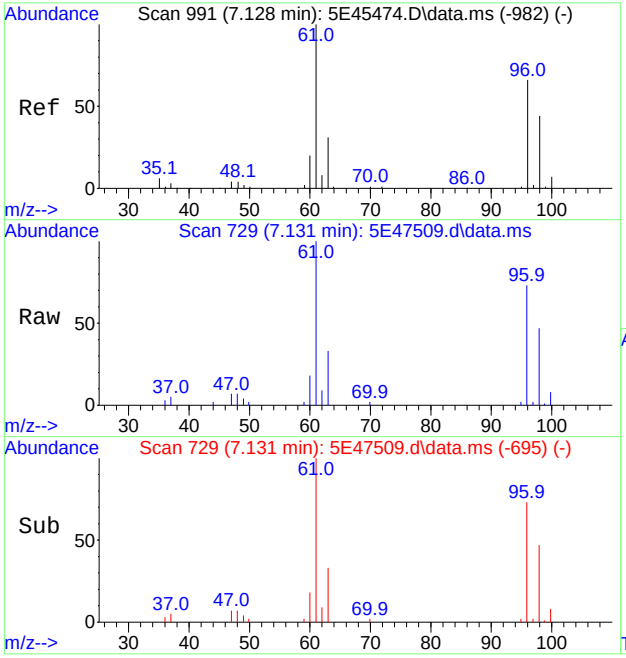


#4
Vinyl Chloride
Concen: 15.0756 ug/L
RT: 3.266 min Scan# 95
Delta R.T. 0.000 min
Lab File: 5E47509.d
Acq: 27 Jun 2024 2:53 pm

Tgt Ion: 62 Resp: 28670

Ion	Ratio	Lower	Upper
62	100		
64	33.2	1.8	61.8

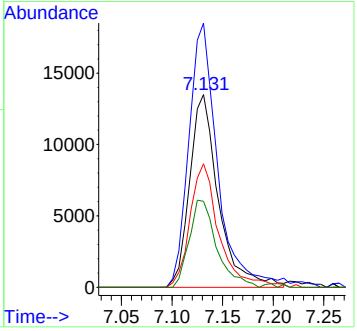




#32
cis-1,2-Dichloroethene
Concen: 22.9802 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47509.d
Acq: 27 Jun 2024 2:53 pm

Tgt Ion: 96 Resp: 26814

Ion	Ratio	Lower	Upper
96	100		
61	137.1	104.0	164.0
98	64.1	35.5	95.5
63	44.7	12.4	72.4



Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 06/28/24 08:18

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56314.d
Acq On : 26 Jun 2024 1:07 pm
Operator : jeniferw
Sample : FC16561-8 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 06:13:05 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

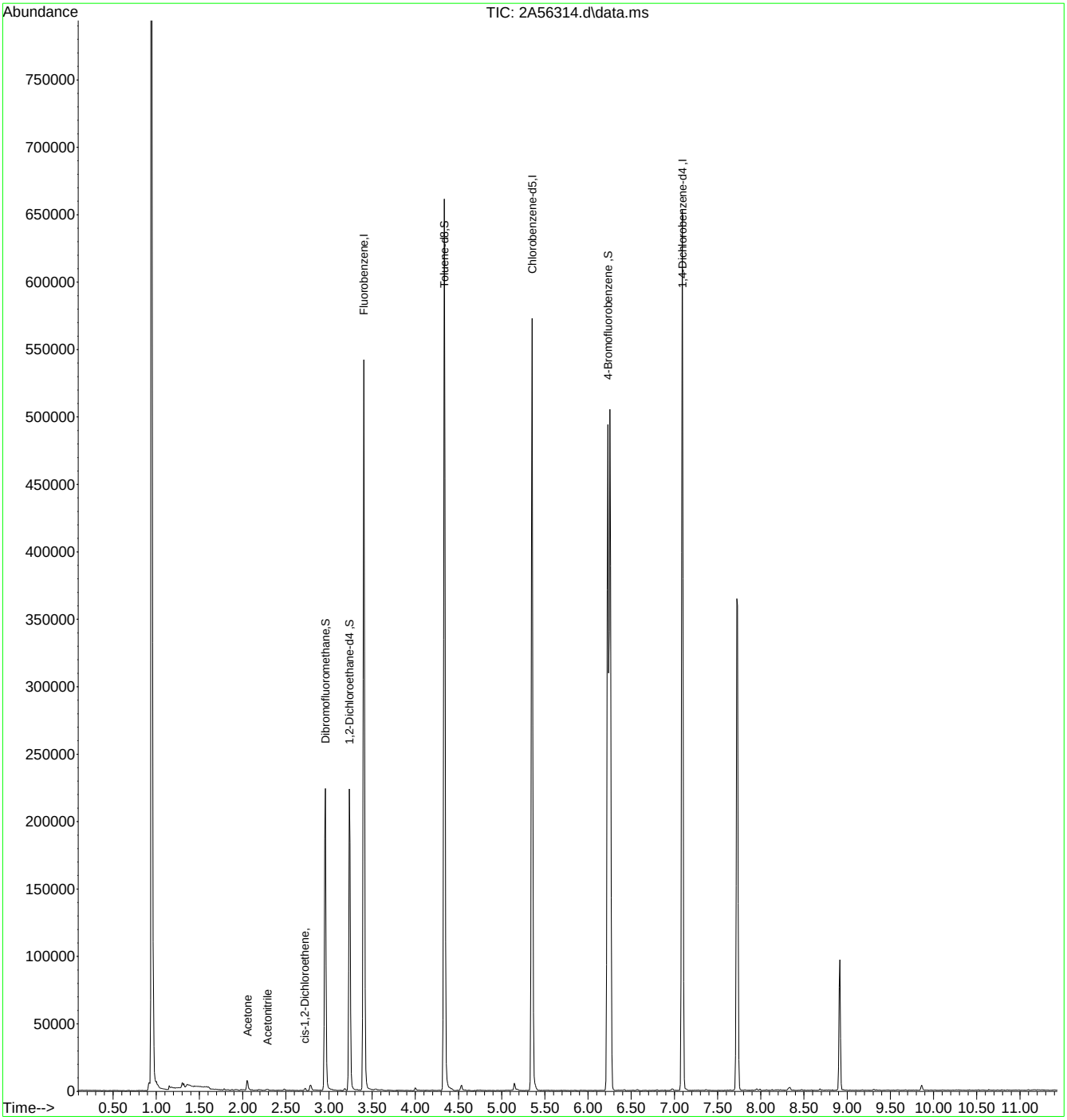
Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1) Fluorobenzene			3.405	96	284145	50.00	ug/L	0.00
62) Chlorobenzene-d5			5.352	117	209706	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4			7.091	152	122025	50.00	ug/L	0.00
System Monitoring Compounds								
39) Dibromofluoromethane			2.958	113	81230	49.51	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery =	99.02%		
49) 1,2-Dichloroethane-d4			3.235	65	97321	49.49	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125			Recovery =	98.98%		
63) Toluene-d8			4.336	98	285491	50.22	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112			Recovery =	100.44%		
86) 4-Bromofluorobenzene			6.229	174	95543	49.47	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118			Recovery =	98.94%		
Target Compounds								Qvalue
19) Acetone			2.058	43	5744	10.0595	ug/L	80
24) Acetonitrile			2.289	41	2288m	11.9428	ug/L	
32) cis-1,2-Dichloroethene			2.720	96	557	0.3472	ug/L	89

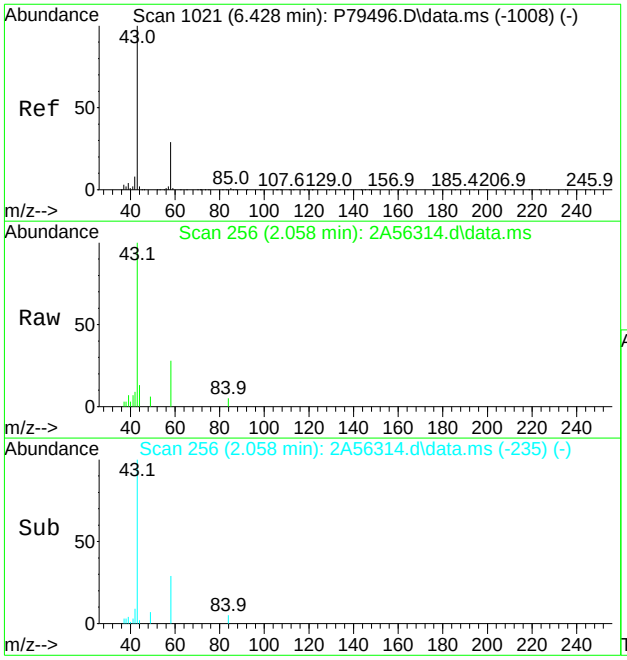
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56314.d
Acq On : 26 Jun 2024 1:07 pm
Operator : jeniferw
Sample : FC16561-8 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 06:13:05 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

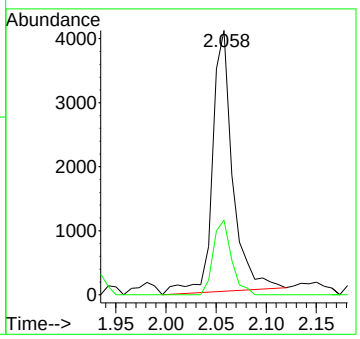


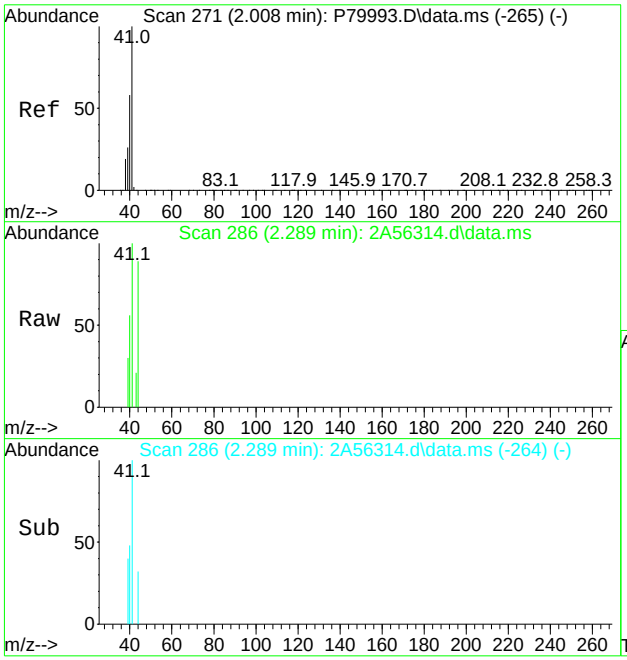


#19
Acetone
Concen: 10.0595 ug/L
RT: 2.058 min Scan# 256
Delta R.T. 0.008 min
Lab File: 2A56314.d
Acq: 26 Jun 2024 1:07 pm

Tgt Ion: 43 Resp: 5744

Ion	Ratio	Lower	Upper
43	100		
58	28.2	10.4	70.4

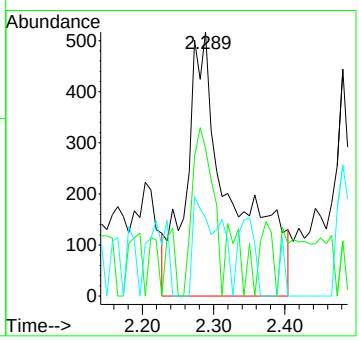


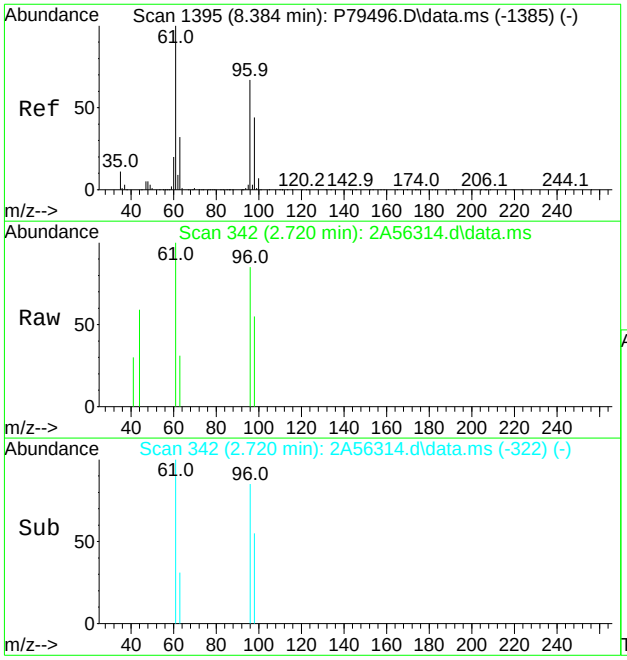


#24
Acetonitrile
Concen: 11.9428 ug/L m
RT: 2.289 min Scan# 286
Delta R.T. 0.016 min
Lab File: 2A56314.d
Acq: 26 Jun 2024 1:07 pm

Tgt Ion: 41 Resp: 2288

Ion	Ratio	Lower	Upper
41	100		
40	55.9	31.9	71.9
39	29.8	0.0	37.4

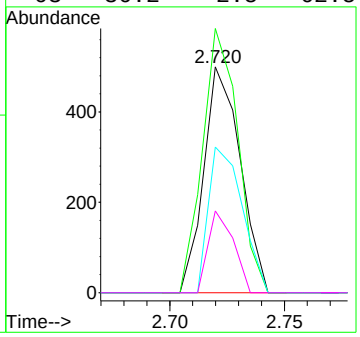




#32
cis-1,2-Dichloroethene
Concen: 0.3472 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56314.d
Acq: 26 Jun 2024 1:07 pm

Tgt Ion: 96 Resp: 557

Ion	Ratio	Lower	Upper
96	100		
61	117.0	67.8	127.8
98	64.4	35.4	95.4
63	36.2	2.5	62.5



Manual Integration Approval Summary

Sample Number: FC16561-8
Lab FileID: 2A56314.D
Injection Time: 06/26/24 13:07

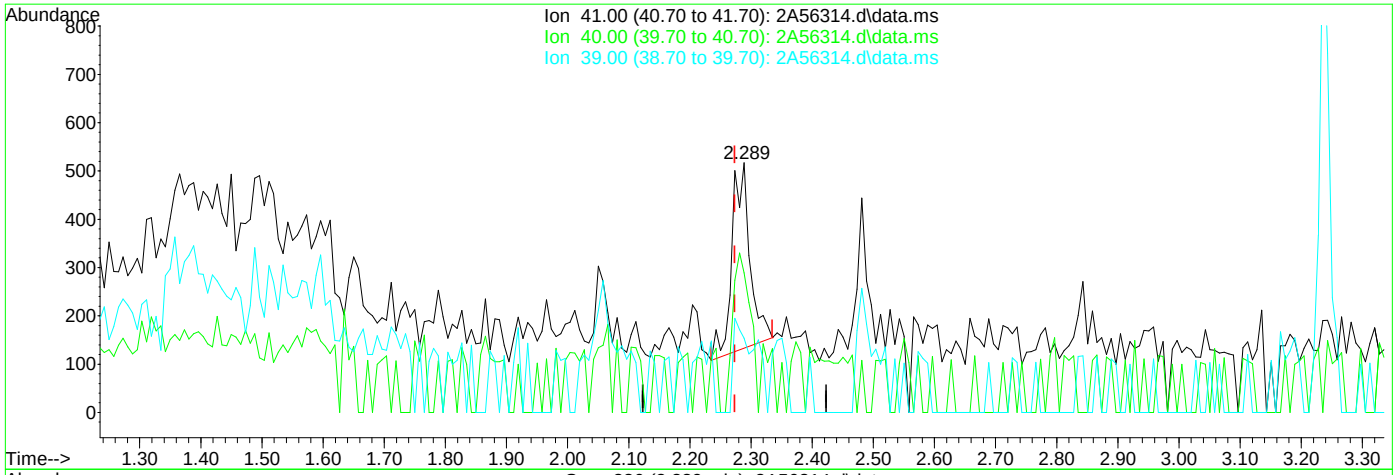
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/28/24 08:18 Neil Christiana

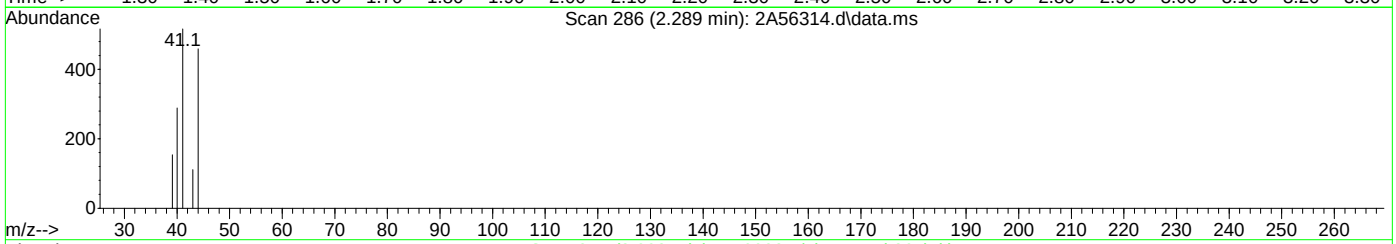
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.29	Split peak

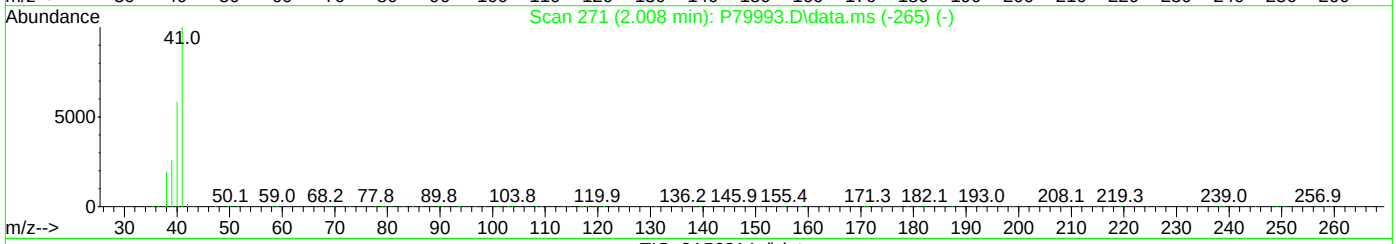
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56314.d
Acq On : 26 Jun 2024 1:07 pm
Operator : jeniferw
Sample : FC16561-8 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 05:59:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56314.d\data.ms

(24) Acetonitrile

2.289min (+0.016) 4.16ug/L

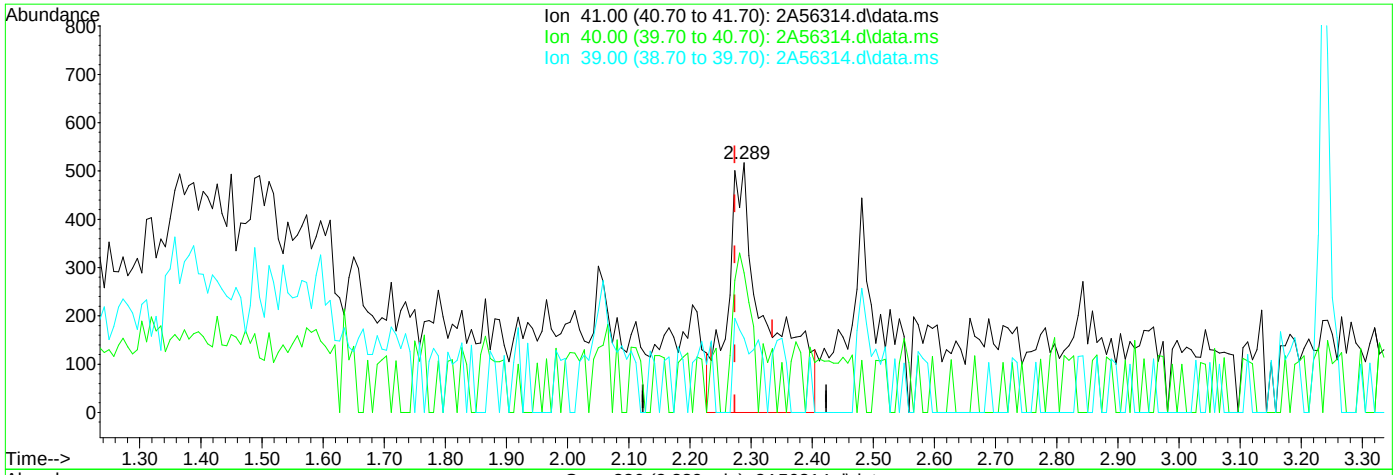
response 797

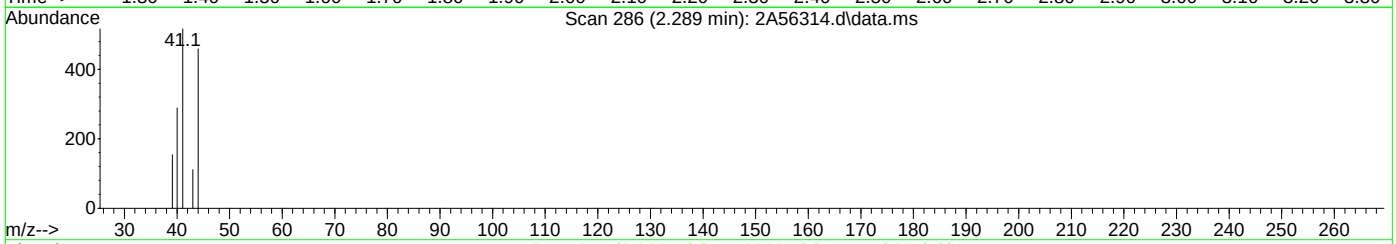
Ion	Exp%	Act%
41.00	100	100
40.00	51.90	43.03
39.00	17.40	7.82
0.00	0.00	0.00

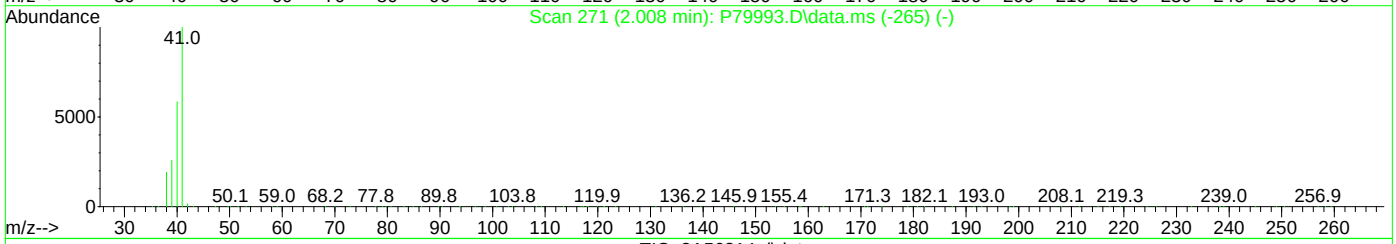
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56314.d
Acq On : 26 Jun 2024 1:07 pm
Operator : jeniferw
Sample : FC16561-8 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 05:59:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56314.d\data.ms

(24) Acetonitrile

2.289min (+0.016) 11.94ug/L m

response 2288

Ion	Exp%	Act%
41.00	100	100
40.00	51.90	55.90
39.00	17.40	29.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47510.d
Acq On : 27 Jun 2024 3:16 pm
Operator : lianatr
Sample : FC16561-8 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 07:24:12 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

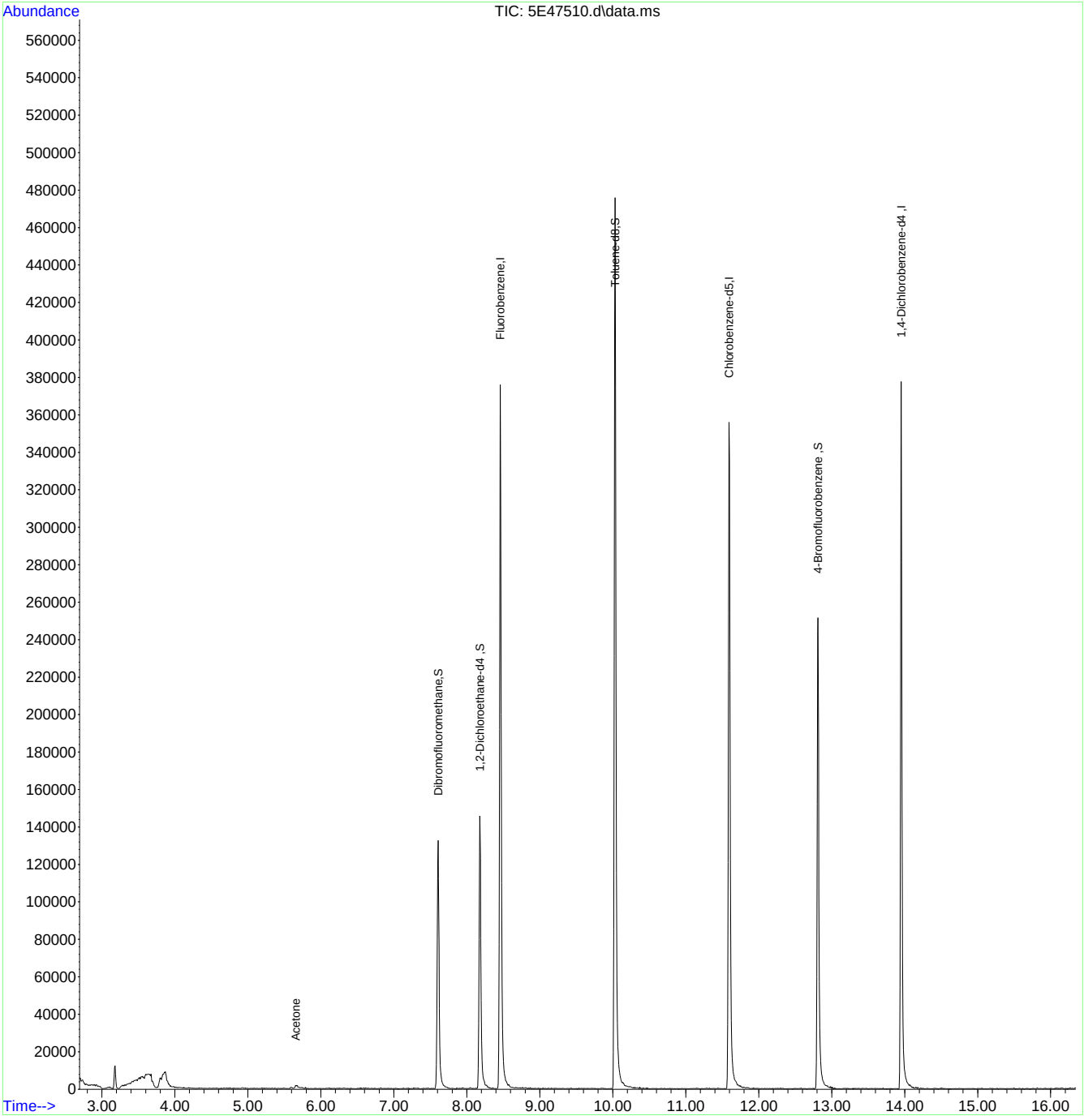
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	307577	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	196804	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	93540	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	75552	47.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.74%			
49) 1,2-Dichloroethane-d4	8.180	65	89408	47.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.56%			
62) Toluene-d8	10.033	98	286474	52.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.22%			
86) 4-Bromofluorobenzene	12.813	95	81293	52.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.42%			
Target Compounds						Qvalue
19) Acetone	5.656	43	4564	8.4107	ug/L	81

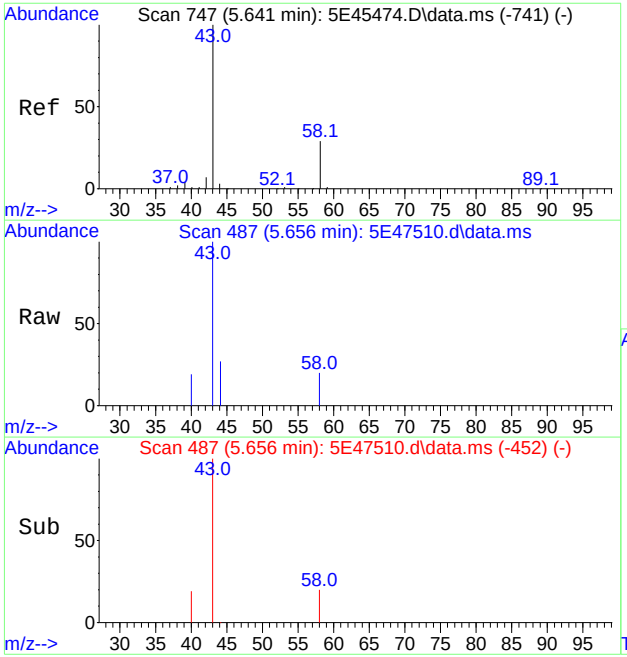
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47510.d
Acq On : 27 Jun 2024 3:16 pm
Operator : lianatr
Sample : FC16561-8 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 07:24:12 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

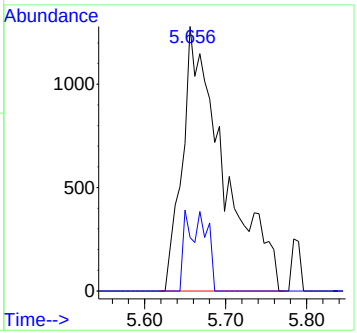




#19
Acetone
Concen: 8.4107 ug/L
RT: 5.656 min Scan# 487
Delta R.T. 0.013 min
Lab File: 5E47510.d
Acq: 27 Jun 2024 3:16 pm

Tgt Ion: 43 Resp: 4564

Ion	Ratio	Lower	Upper
43	100		
58	20.2	0.7	60.7



7.1.11

7

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56315.d
Acq On : 26 Jun 2024 1:31 pm
Operator : jeniferw
Sample : FC16561-9 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 06:13:50 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

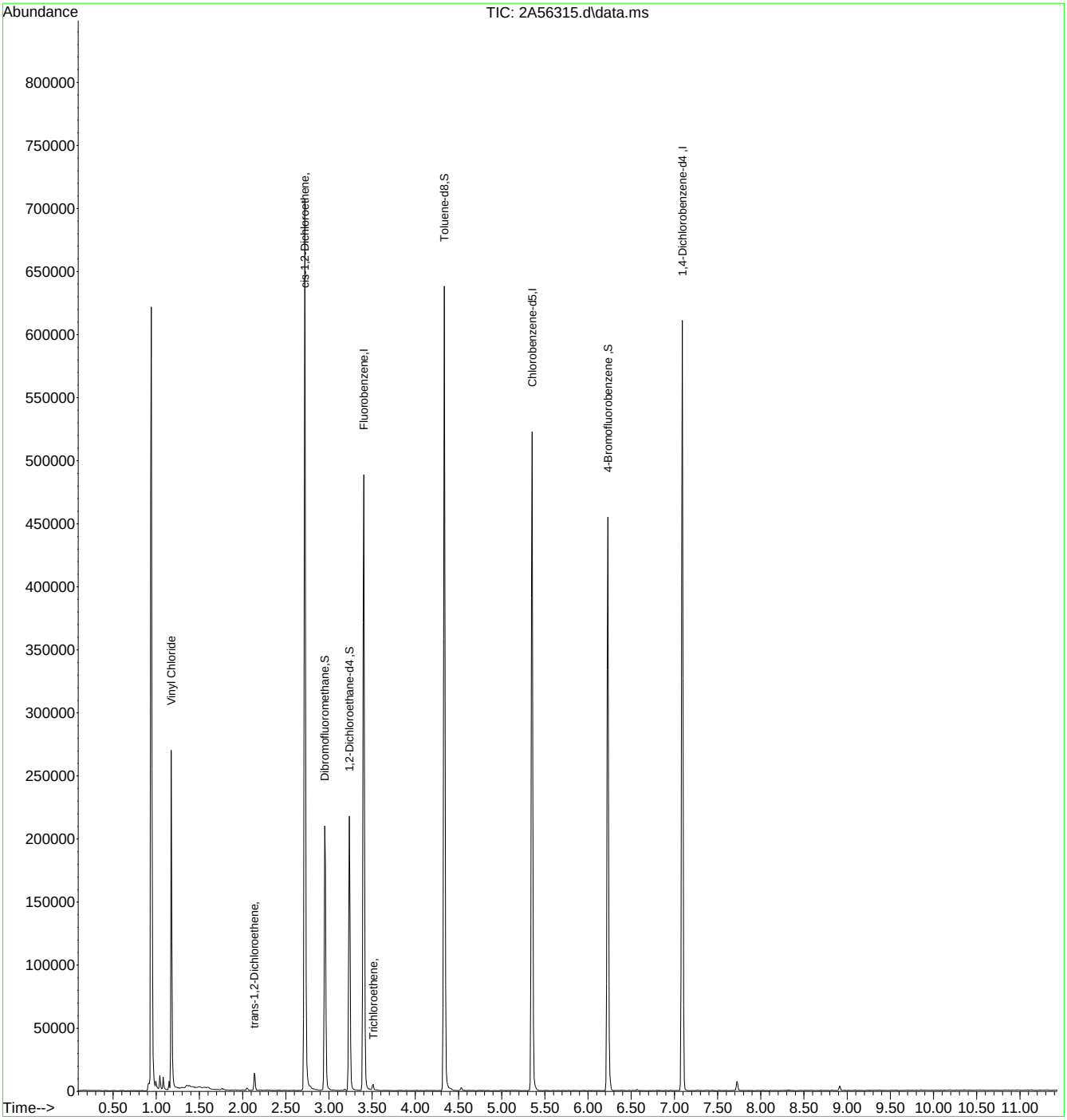
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.405	96	264892	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.352	117	197061	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.091	152	114707	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		2.951	113	76662	50.13	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	100.26%		
49) 1,2-Dichloroethane-d4		3.235	65	91264	49.78	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	99.56%		
63) Toluene-d8		4.336	98	268897	50.34	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	100.68%		
86) 4-Bromofluorobenzene		6.229	174	89083	49.07	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	98.14%		
Target Compounds							Qvalue
5) Vinyl Chloride		1.173	62	121133	79.5007	ug/L	99
21) trans-1,2-Dichloroethene		2.135	61	4602	2.2502	ug/L	77
32) cis-1,2-Dichloroethene		2.720	96	171667	133.9411	ug/L #	77
53) Trichloroethene		3.512	95	1021	0.6684	ug/L	95

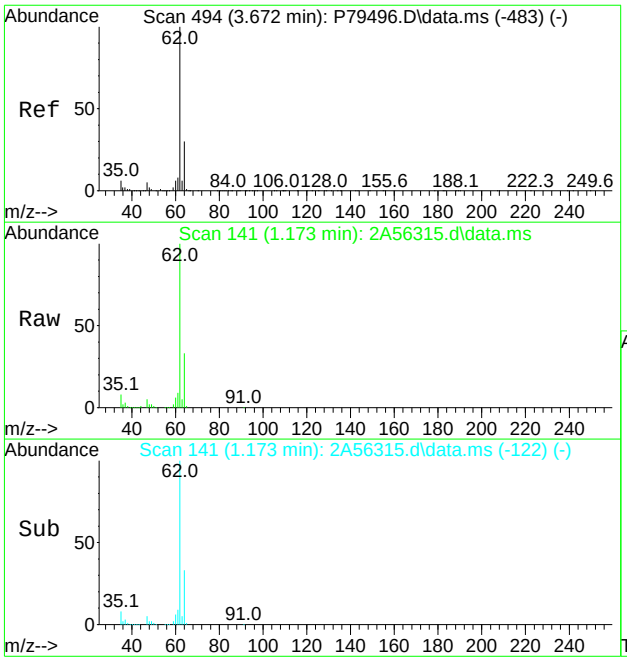
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56315.d
Acq On : 26 Jun 2024 1:31 pm
Operator : jeniferw
Sample : FC16561-9 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 06:13:50 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

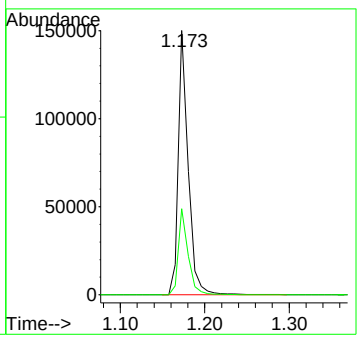


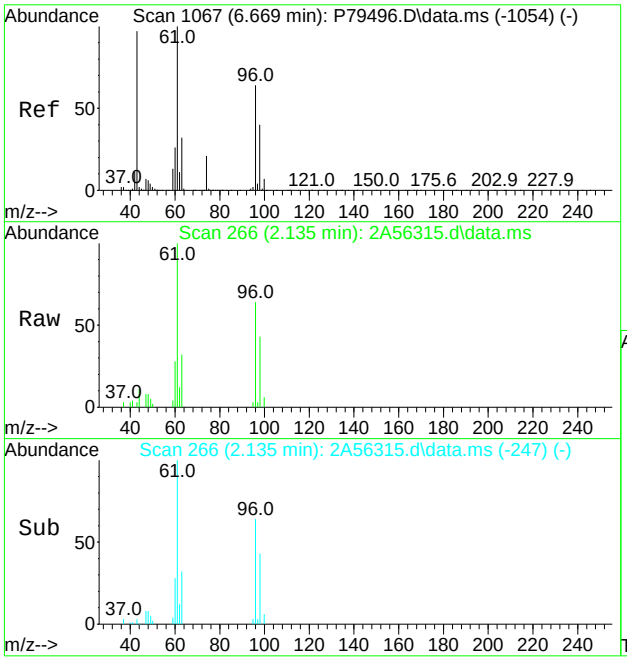


#5
Vinyl Chloride
Concen: 79.5007 ug/L
RT: 1.173 min Scan# 141
Delta R.T. -0.007 min
Lab File: 2A56315.d
Acq: 26 Jun 2024 1:31 pm

Tgt Ion: 62 Resp: 121133

Ion	Ratio	Lower	Upper
62	100		
64	32.6	3.1	63.1

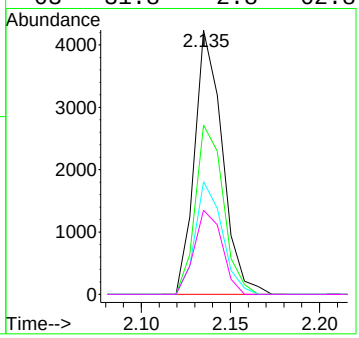


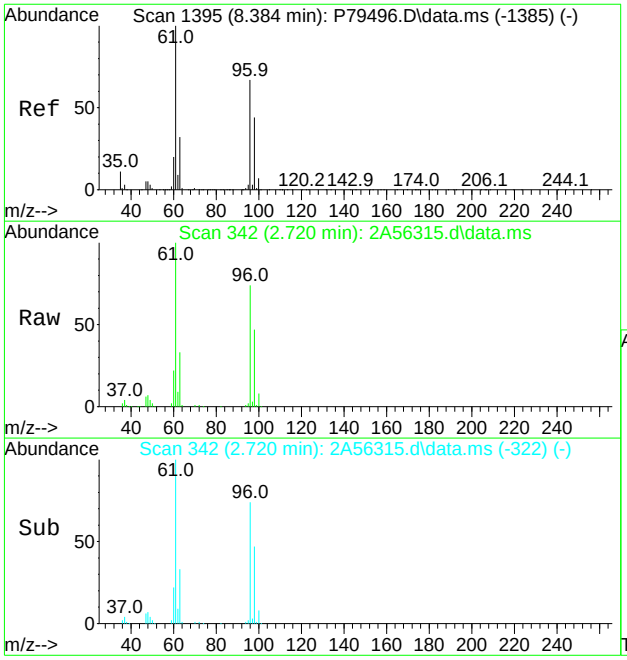


#21
trans-1,2-Dichloroethene
Concen: 2.2502 ug/L
RT: 2.135 min Scan# 266
Delta R.T. -0.007 min
Lab File: 2A56315.d
Acq: 26 Jun 2024 1:31 pm

Tgt Ion: 61 Resp: 4602

Ion	Ratio	Lower	Upper
61	100		
96	64.0	62.8	122.8
98	42.6	29.8	89.8
63	31.8	2.8	62.8

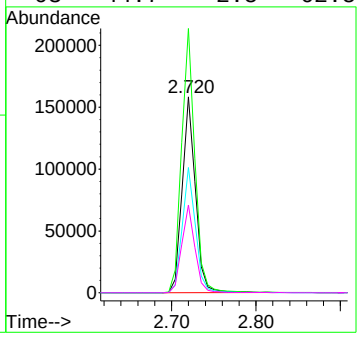


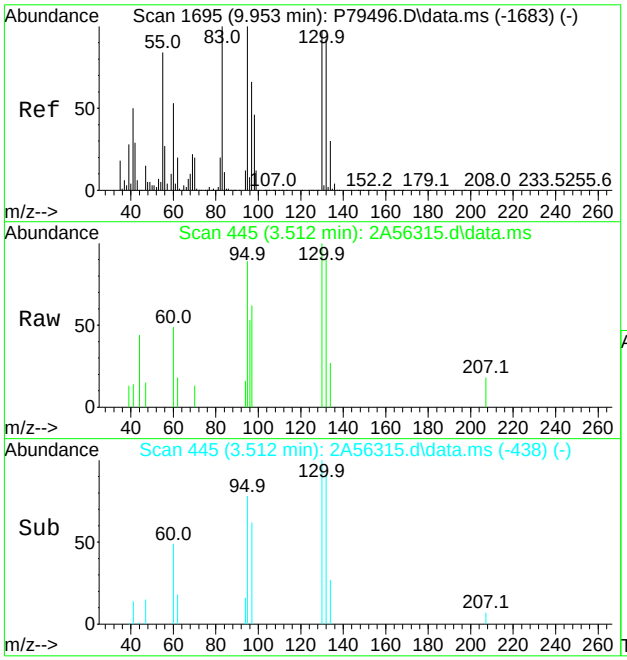


#32
cis-1,2-Dichloroethene
Concen: 133.9411 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56315.d
Acq: 26 Jun 2024 1:31 pm

Tgt Ion: 96 Resp: 171667

Ion	Ratio	Lower	Upper
96	100		
61	134.9	67.8	127.8#
98	64.0	35.4	95.4
63	44.7	2.5	62.5

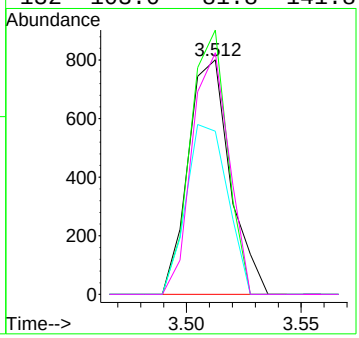




#53
Trichloroethene
Concen: 0.6684 ug/L
RT: 3.512 min Scan# 445
Delta R.T. 0.000 min
Lab File: 2A56315.d
Acq: 26 Jun 2024 1:31 pm

Tgt Ion: 95 Resp: 1021

Ion	Ratio	Lower	Upper
95	100		
130	112.7	85.1	145.1
97	69.5	34.8	94.8
132	103.0	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47511.d
Acq On : 27 Jun 2024 3:39 pm
Operator : lianatr
Sample : FC16561-9 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 07:24:27 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	293278	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	184053	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	89065	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	71094	46.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.50%			
49) 1,2-Dichloroethane-d4	8.180	65	83200	46.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.26%			
62) Toluene-d8	10.033	98	274296	53.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.72%			
86) 4-Bromofluorobenzene	12.813	95	76641	52.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.40%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	29542	15.7514	ug/L	97
18) Methylene Chloride	5.595	49	1245	0.7306	ug/L	94
32) cis-1,2-Dichloroethene	7.131	96	27176	23.6163	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

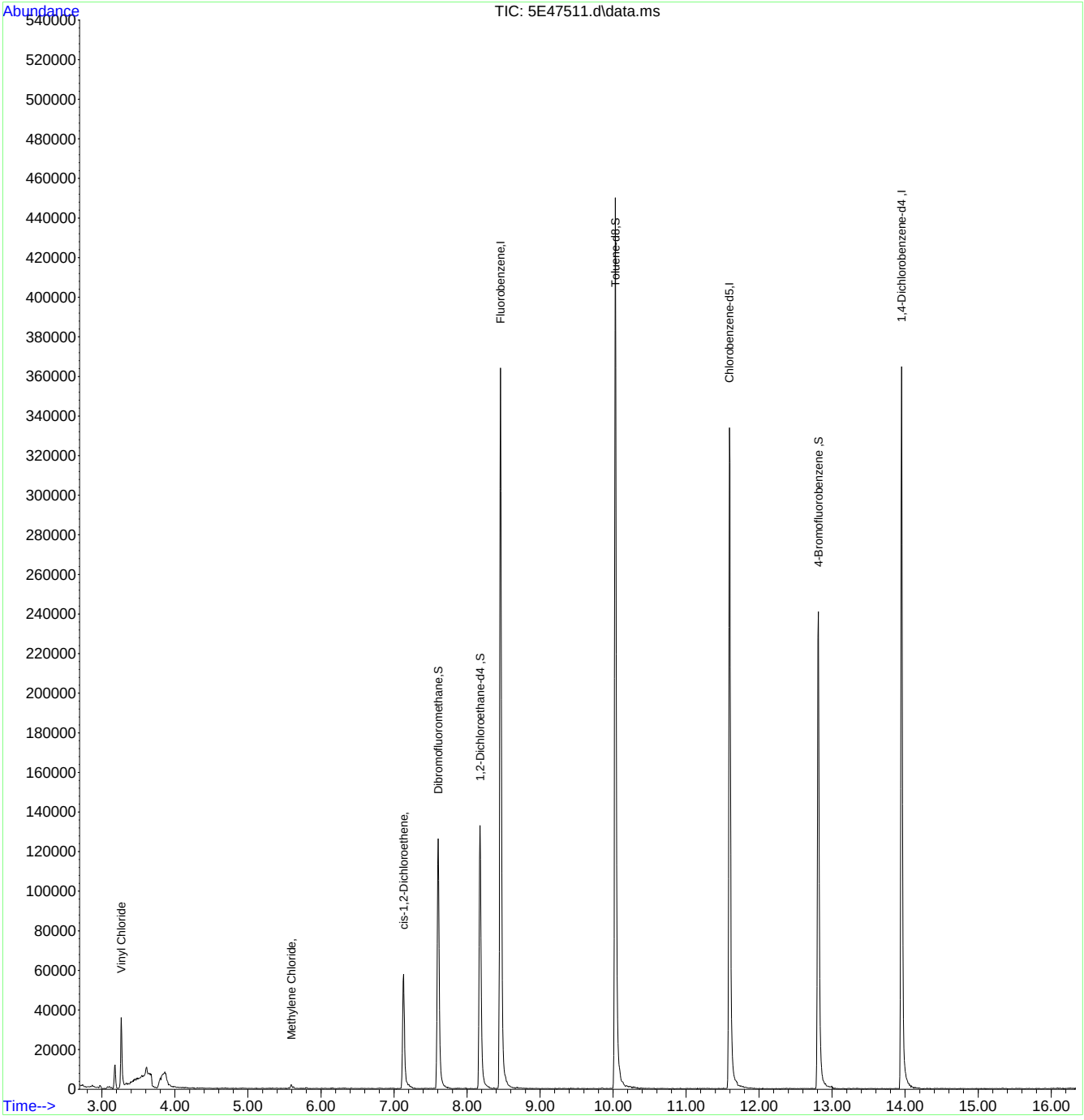
7.1.13

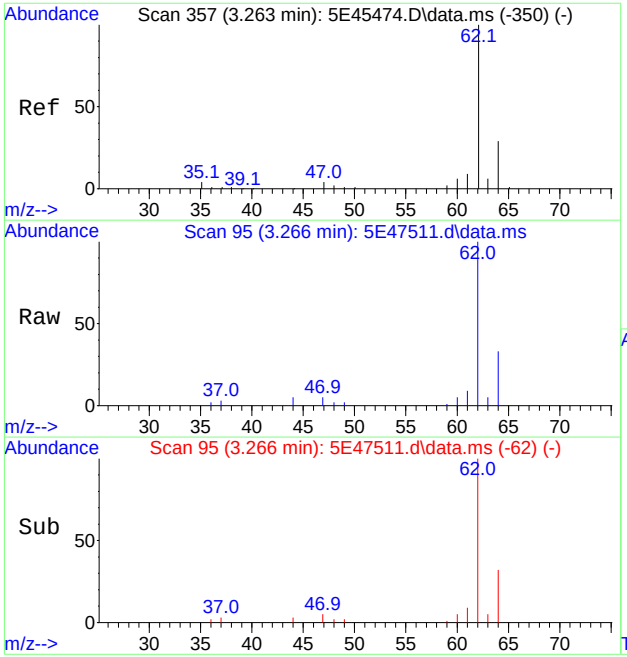
7

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47511.d
Acq On : 27 Jun 2024 3:39 pm
Operator : lianatr
Sample : FC16561-9 5X Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 07:24:27 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

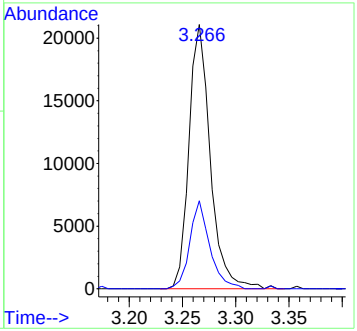


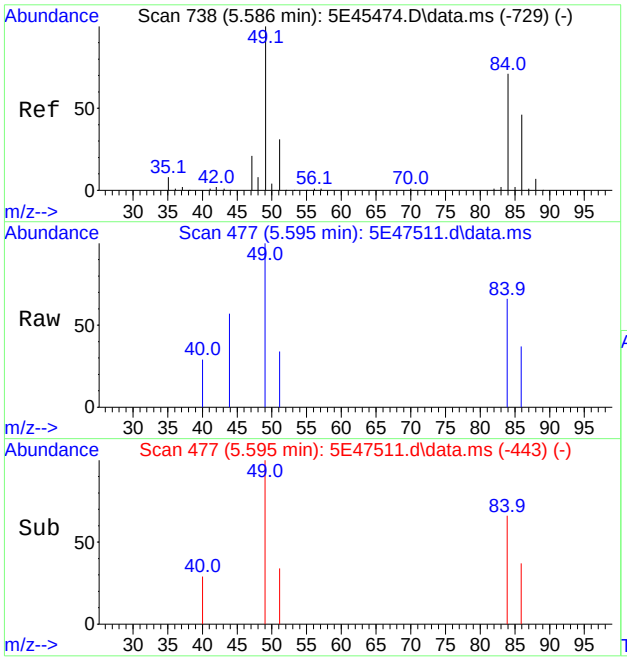


#4
Vinyl Chloride
Concen: 15.7514 ug/L
RT: 3.266 min Scan# 95
Delta R.T. -0.000 min
Lab File: 5E47511.d
Acq: 27 Jun 2024 3:39 pm

Tgt Ion: 62 Resp: 29542

Ion	Ratio	Lower	Upper
62	100		
64	33.2	1.8	61.8

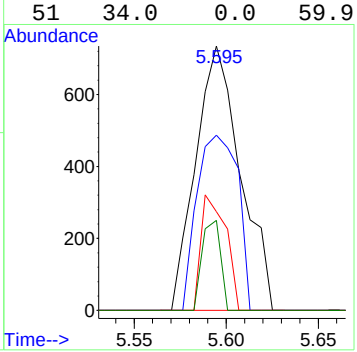


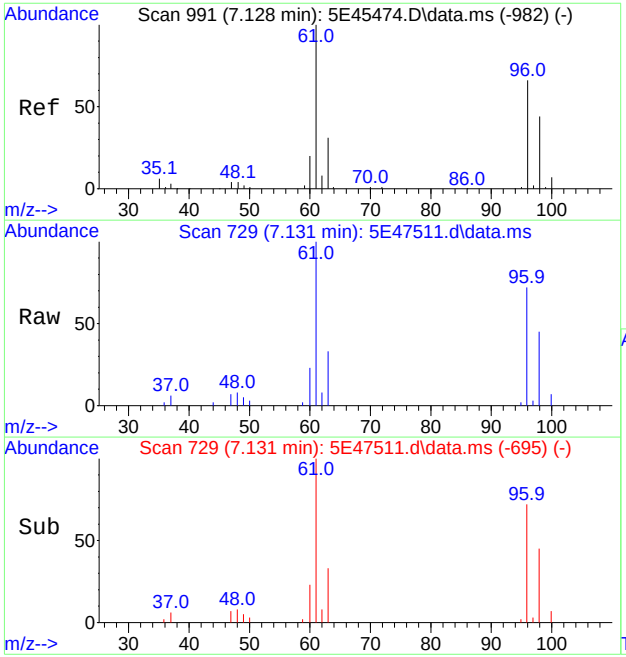


#18
Methylene Chloride
Concen: 0.7306 ug/L
RT: 5.595 min Scan# 477
Delta R.T. 0.006 min
Lab File: 5E47511.d
Acq: 27 Jun 2024 3:39 pm

Tgt Ion: 49 Resp: 1245

Ion	Ratio	Lower	Upper
49	100		
84	66.3	37.7	97.7
86	37.3	14.3	74.3
51	34.0	0.0	59.9

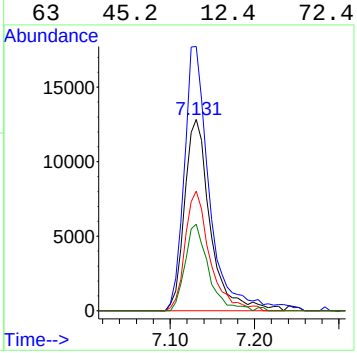




#32
cis-1,2-Dichloroethene
Concen: 23.6163 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47511.d
Acq: 27 Jun 2024 3:39 pm

Tgt Ion: 96 Resp: 27176

Ion	Ratio	Lower	Upper
96	100		
61	138.1	104.0	164.0
98	62.5	35.5	95.5
63	45.2	12.4	72.4



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56316.d
Acq On : 26 Jun 2024 1:55 pm
Operator : jeniferw
Sample : FC16561-10 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 27 06:14:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

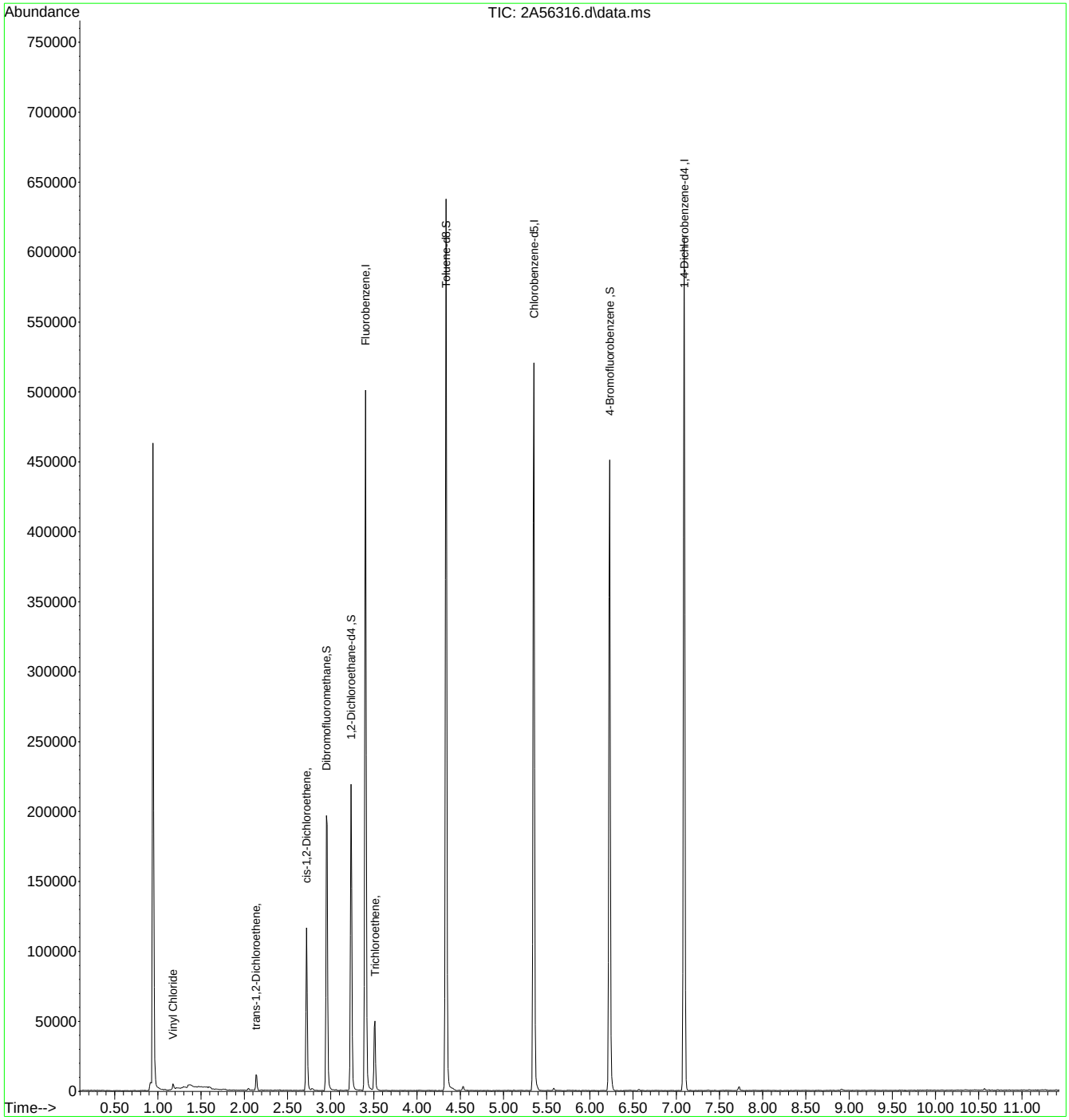
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.405	96	263481	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.352	117	196909	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.091	152	113892	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		2.951	113	76910	50.56	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	101.12%		
49) 1,2-Dichloroethane-d4		3.236	65	90863	49.83	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	99.66%		
63) Toluene-d8		4.336	98	268579	50.32	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	100.64%		
86) 4-Bromofluorobenzene		6.229	174	89499	49.65	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	99.30%		
Target Compounds							Qvalue
5) Vinyl Chloride		1.173	62	2032	1.3408	ug/L	94
21) trans-1,2-Dichloroethene		2.135	61	3780	1.8582	ug/L	77
32) cis-1,2-Dichloroethene		2.720	96	28025	19.2293	ug/L #	75
53) Trichloroethene		3.513	95	10972	7.2218	ug/L	90

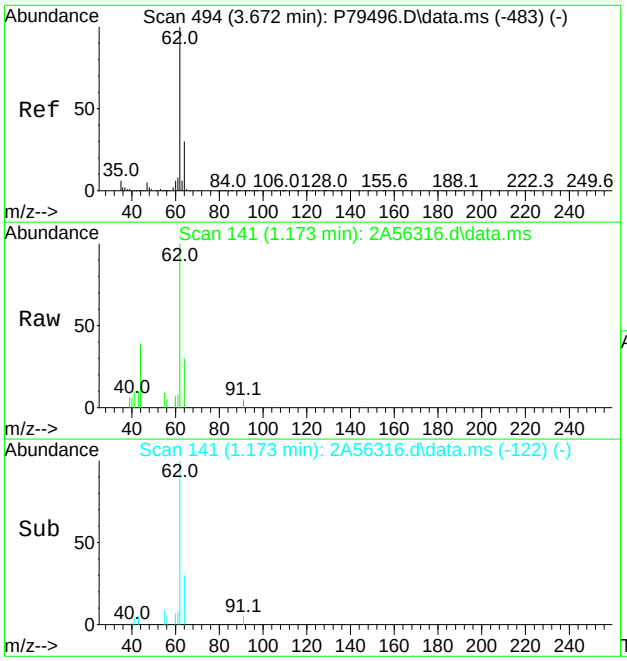
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56316.d
Acq On : 26 Jun 2024 1:55 pm
Operator : jeniferw
Sample : FC16561-10 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 27 06:14:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

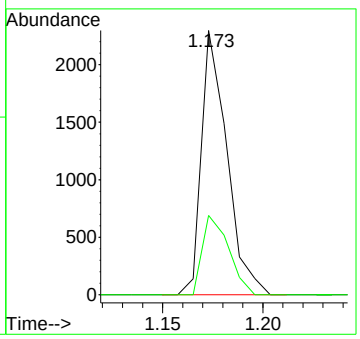


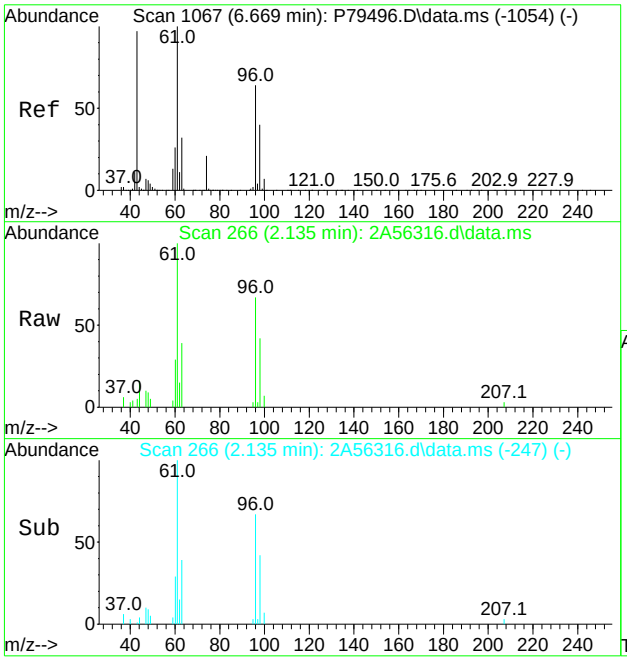


#5
Vinyl Chloride
Concen: 1.3408 ug/L
RT: 1.173 min Scan# 141
Delta R.T. -0.007 min
Lab File: 2A56316.d
Acq: 26 Jun 2024 1:55 pm

Tgt Ion: 62 Resp: 2032

Ion	Ratio	Lower	Upper
62	100		
64	30.0	3.1	63.1

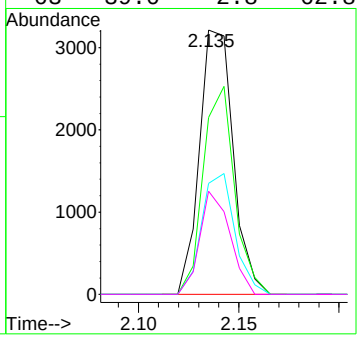


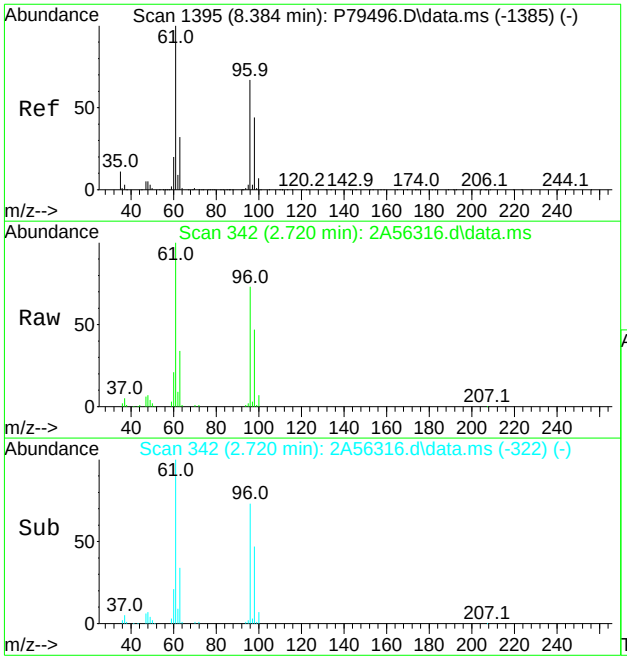


#21
trans-1,2-Dichloroethene
Concen: 1.8582 ug/L
RT: 2.135 min Scan# 266
Delta R.T. -0.007 min
Lab File: 2A56316.d
Acq: 26 Jun 2024 1:55 pm

Tgt Ion: 61 Resp: 3780

Ion	Ratio	Lower	Upper
61	100		
96	66.9	62.8	122.8
98	42.0	29.8	89.8
63	39.0	2.8	62.8

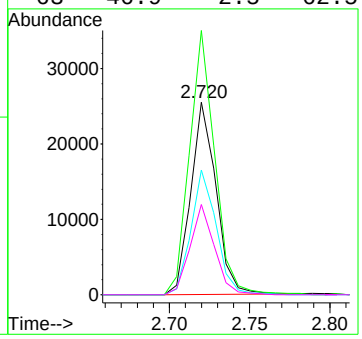


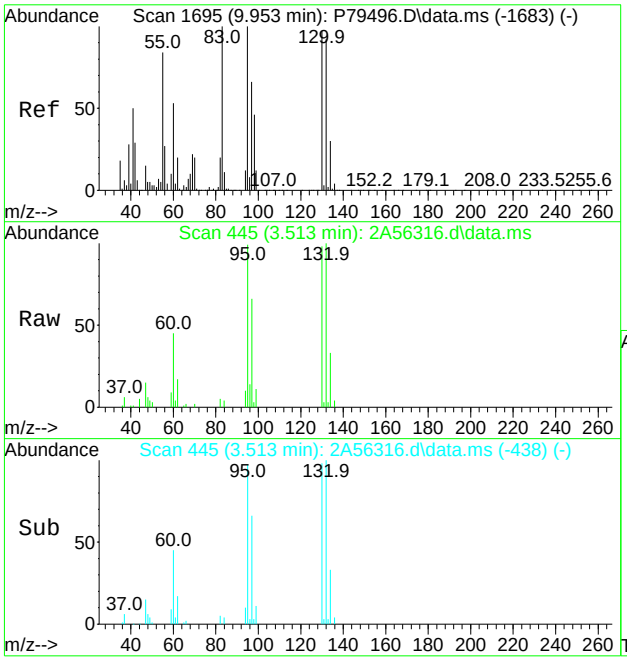


#32
cis-1,2-Dichloroethene
Concen: 19.2293 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56316.d
Acq: 26 Jun 2024 1:55 pm

Tgt Ion: 96 Resp: 28025

Ion	Ratio	Lower	Upper
96	100		
61	137.4	67.8	127.8#
98	64.9	35.4	95.4
63	46.9	2.5	62.5

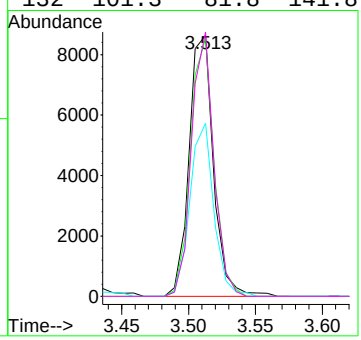




#53
Trichloroethene
Concen: 7.2218 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56316.d
Acq: 26 Jun 2024 1:55 pm

Tgt Ion: 95 Resp: 10972

Ion	Ratio	Lower	Upper
95	100		
130	98.9	85.1	145.1
97	66.4	34.8	94.8
132	101.3	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56317.d
Acq On : 26 Jun 2024 2:20 pm
Operator : jeniferw
Sample : FC16561-11 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 27 06:15:10 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

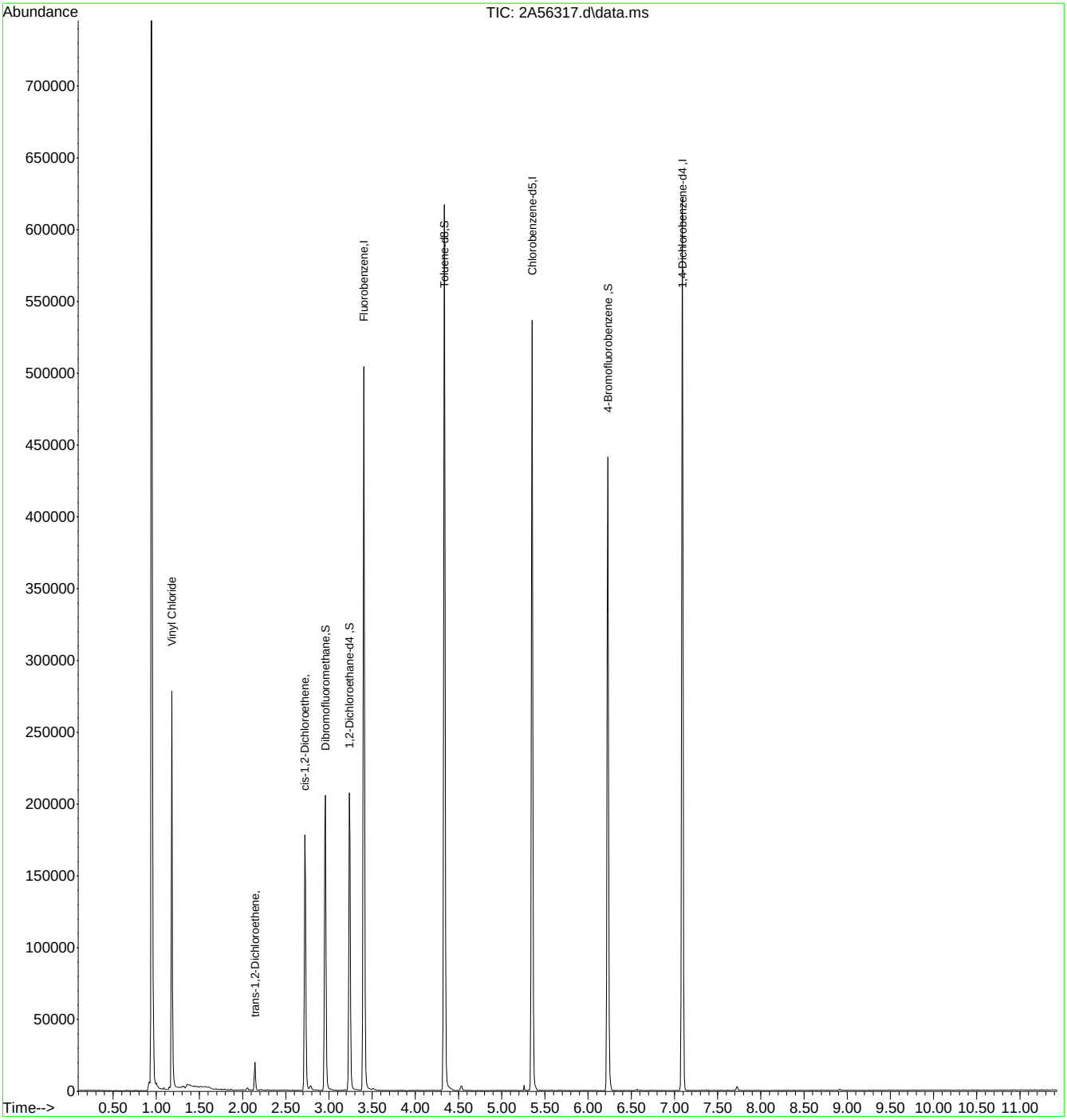
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.405	96	259715	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.352	117	194613	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.091	152	112180	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		2.958	113	76948	51.32	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	102.64%		
49) 1,2-Dichloroethane-d4		3.235	65	90225	50.20	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	100.40%		
63) Toluene-d8		4.336	98	263425	49.93	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	99.86%		
86) 4-Bromofluorobenzene		6.229	174	88248	49.71	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	99.42%		
Target Compounds							Qvalue
5) Vinyl Chloride		1.180	62	130839	87.5825	ug/L	99
21) trans-1,2-Dichloroethene		2.142	61	5845	2.9150	ug/L	79
32) cis-1,2-Dichloroethene		2.720	96	45739	32.2999	ug/L #	71

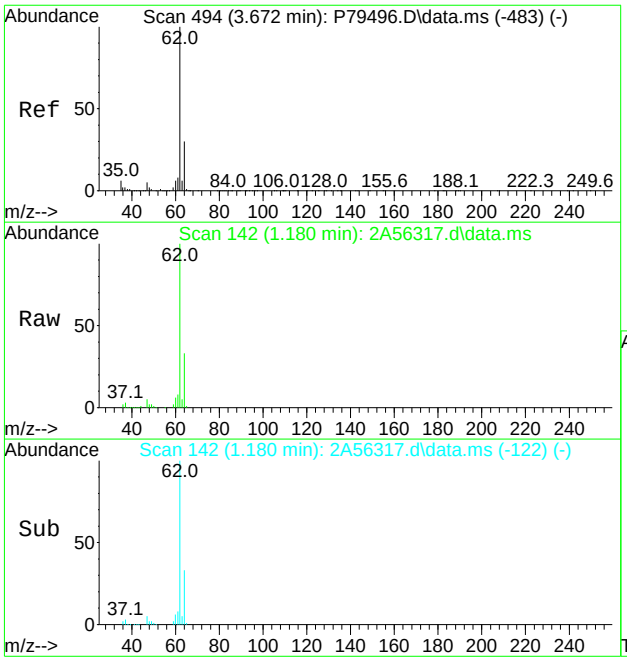
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56317.d
Acq On : 26 Jun 2024 2:20 pm
Operator : jeniferw
Sample : FC16561-11 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 27 06:15:10 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

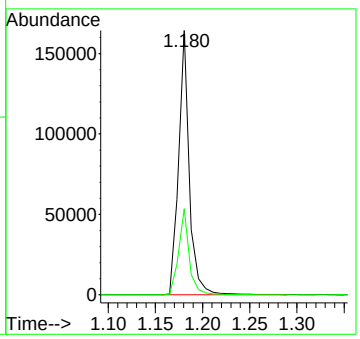


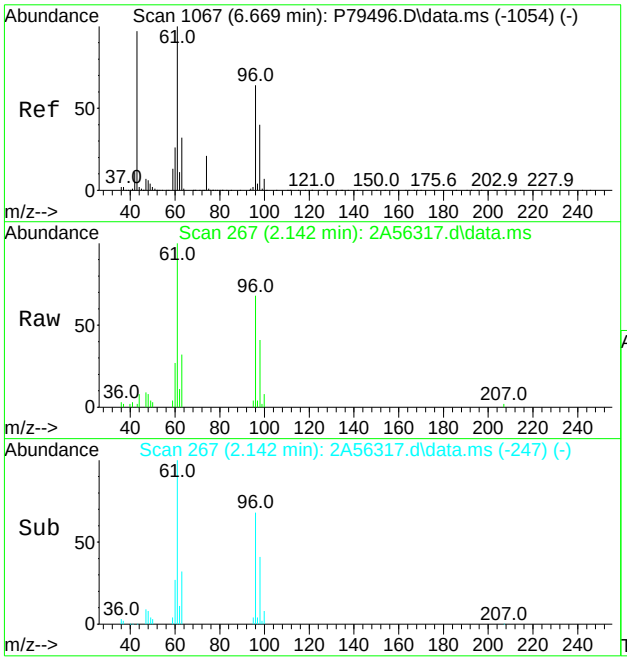


#5
Vinyl Chloride
Concen: 87.5825 ug/L
RT: 1.180 min Scan# 142
Delta R.T. 0.000 min
Lab File: 2A56317.d
Acq: 26 Jun 2024 2:20 pm

Tgt Ion: 62 Resp: 130839

Ion	Ratio	Lower	Upper
62	100		
64	32.6	3.1	63.1

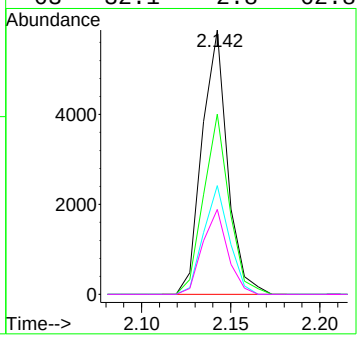


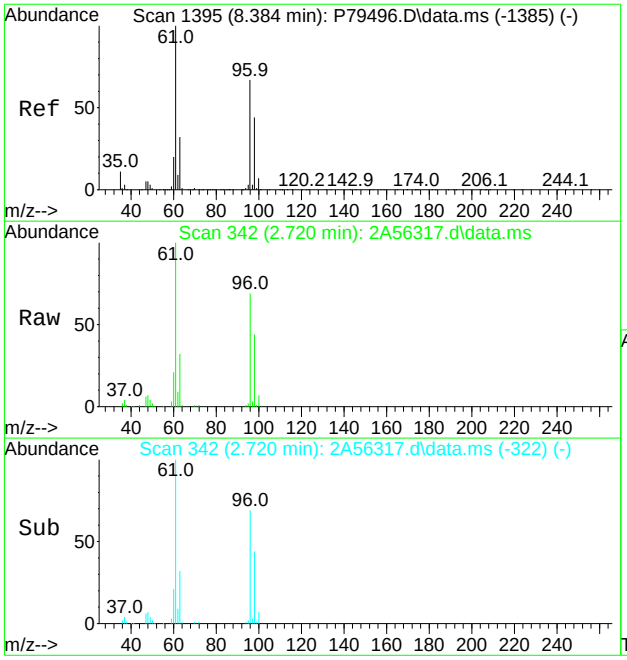


#21
trans-1,2-Dichloroethene
Concen: 2.9150 ug/L
RT: 2.142 min Scan# 267
Delta R.T. 0.000 min
Lab File: 2A56317.d
Acq: 26 Jun 2024 2:20 pm

Tgt Ion: 61 Resp: 5845

Ion	Ratio	Lower	Upper
61	100		
96	68.1	62.8	122.8
98	41.2	29.8	89.8
63	32.1	2.8	62.8

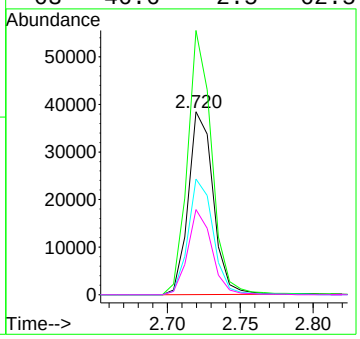




#32
cis-1,2-Dichloroethene
Concen: 32.2999 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56317.d
Acq: 26 Jun 2024 2:20 pm

Tgt Ion: 96 Resp: 45739

Ion	Ratio	Lower	Upper
96	100		
61	144.5	67.8	127.8#
98	63.2	35.4	95.4
63	46.6	2.5	62.5



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56307.d
Acq On : 26 Jun 2024 10:20 am
Operator : jeniferw
Sample : FC16561-12 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,2
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 06:07:01 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

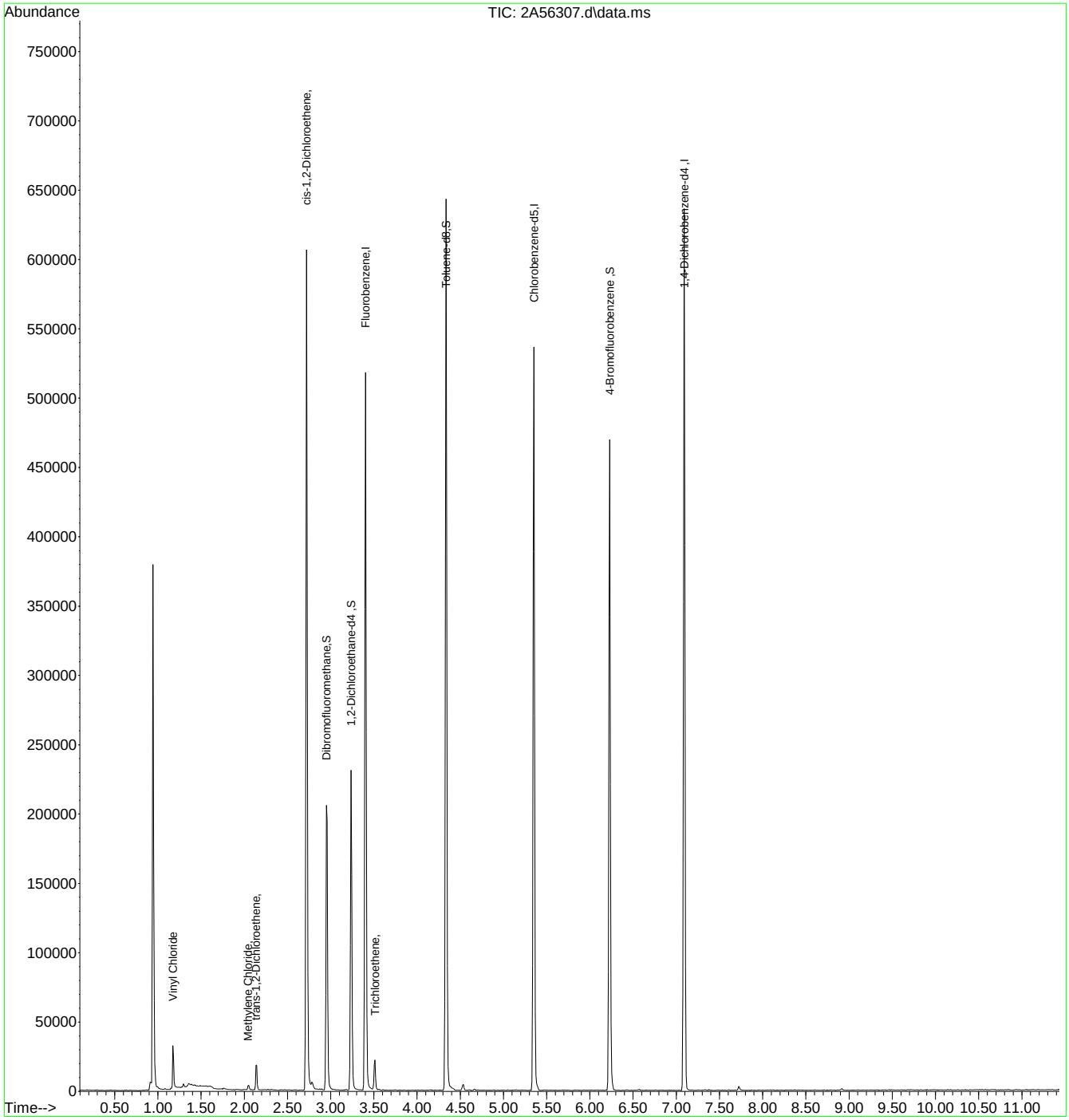
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	271585	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	201925	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	117468	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	78910	50.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.66%			
49) 1,2-Dichloroethane-d4	3.235	65	93477	49.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.46%			
63) Toluene-d8	4.336	98	274373	50.12	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.24%			
86) 4-Bromofluorobenzene	6.229	174	90873	48.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.76%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.173	62	16009	10.2479	ug/L	98
18) Methylene Chloride	2.043	49	1096	0.5676	ug/L #	67
21) trans-1,2-Dichloroethene	2.135	61	6408	3.0561	ug/L #	75
32) cis-1,2-Dichloroethene	2.720	96	148405	109.6078	ug/L #	75
53) Trichloroethene	3.513	95	4603	2.9393	ug/L	92

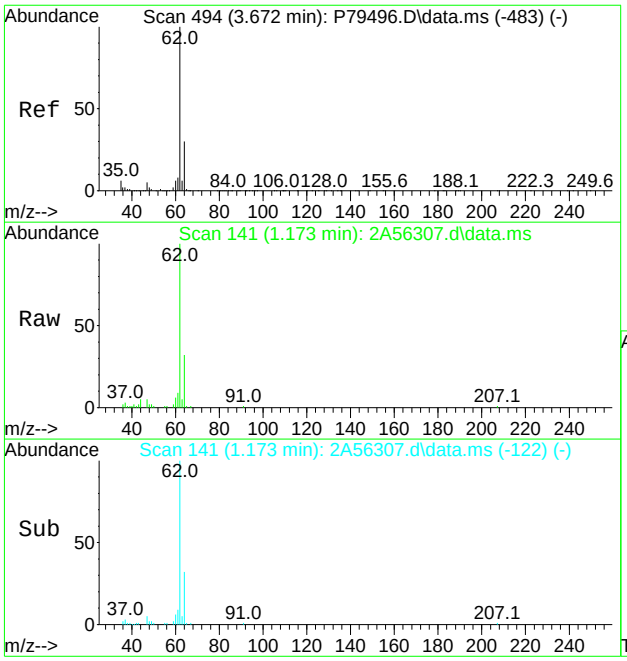
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56307.d
Acq On : 26 Jun 2024 10:20 am
Operator : jeniferw
Sample : FC16561-12 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,2
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 06:07:01 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

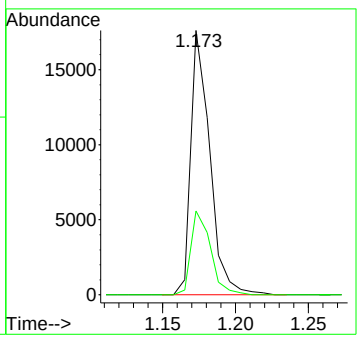


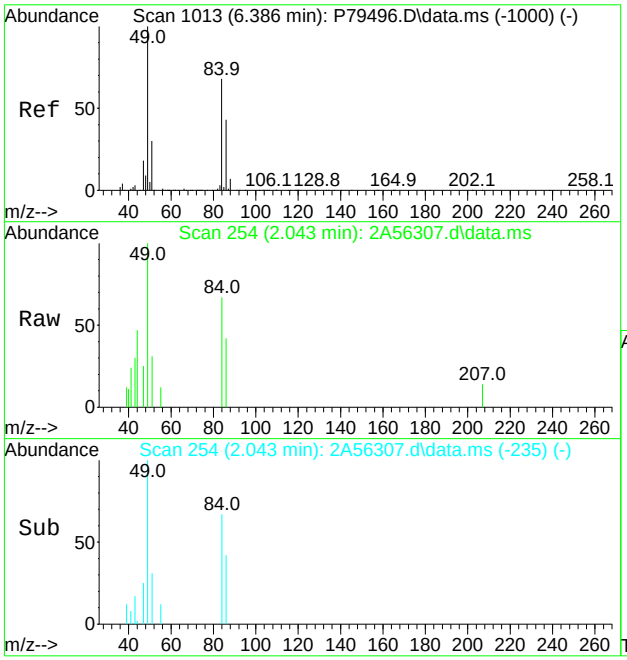


#5
Vinyl Chloride
Concen: 10.2479 ug/L
RT: 1.173 min Scan# 141
Delta R.T. -0.007 min
Lab File: 2A56307.d
Acq: 26 Jun 2024 10:20 am

Tgt Ion: 62 Resp: 16009

Ion	Ratio	Lower	Upper
62	100		
64	31.7	3.1	63.1

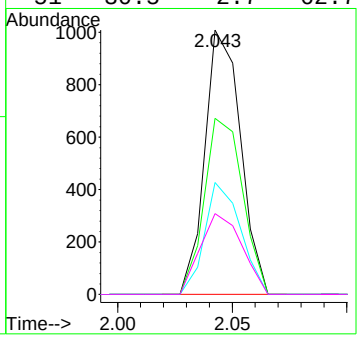


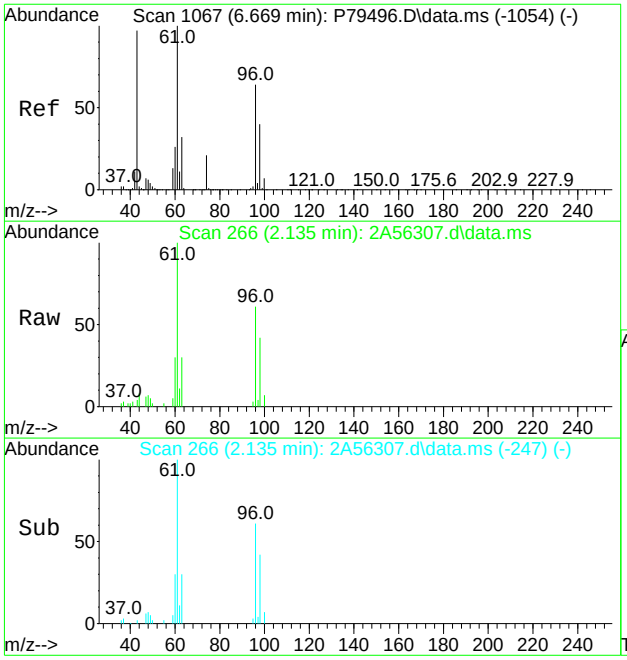


#18
Methylene Chloride
Concen: 0.5676 ug/L
RT: 2.043 min Scan# 254
Delta R.T. -0.007 min
Lab File: 2A56307.d
Acq: 26 Jun 2024 10:20 am

Tgt Ion: 49 Resp: 1096

Ion	Ratio	Lower	Upper
49	100		
84	66.6	78.4	138.4#
86	42.3	42.5	102.5#
51	30.5	2.7	62.7

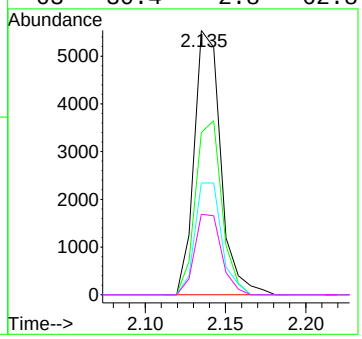


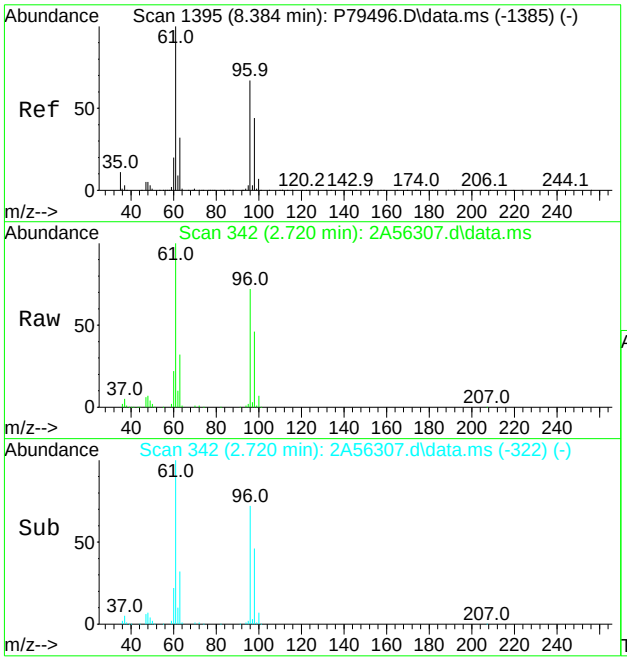


#21
trans-1,2-Dichloroethene
Concen: 3.0561 ug/L
RT: 2.135 min Scan# 266
Delta R.T. -0.007 min
Lab File: 2A56307.d
Acq: 26 Jun 2024 10:20 am

Tgt Ion: 61 Resp: 6408

Ion	Ratio	Lower	Upper
61	100		
96	61.3	62.8	122.8#
98	42.3	29.8	89.8
63	30.4	2.8	62.8

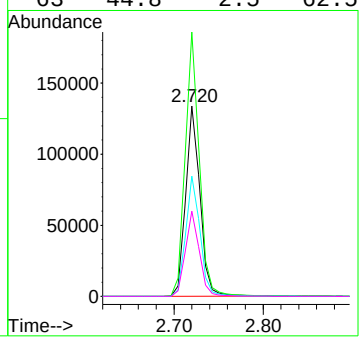


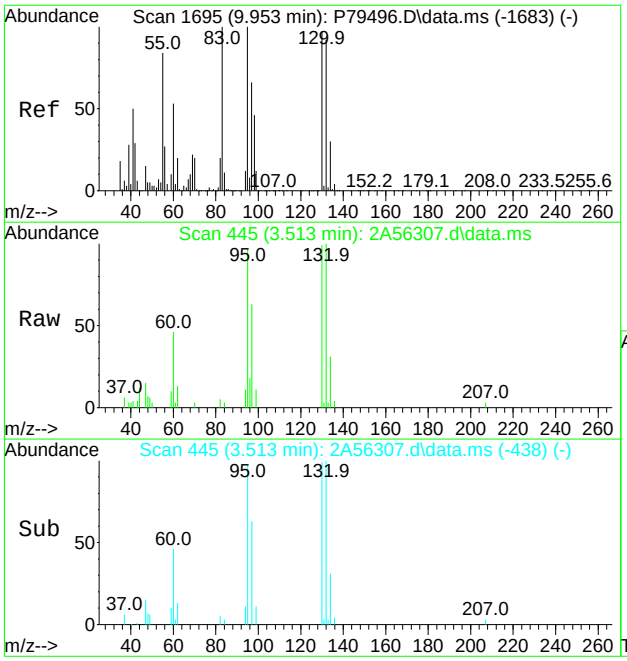


#32
cis-1,2-Dichloroethene
Concen: 109.6078 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56307.d
Acq: 26 Jun 2024 10:20 am

Tgt Ion: 96 Resp: 148405

Ion	Ratio	Lower	Upper
96	100		
61	138.9	67.8	127.8#
98	63.2	35.4	95.4
63	44.8	2.5	62.5

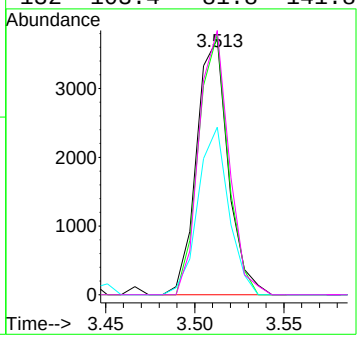




#53
Trichloroethene
Concen: 2.9393 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56307.d
Acq: 26 Jun 2024 10:20 am

Tgt Ion: 95 Resp: 4603

Ion	Ratio	Lower	Upper
95	100		
130	101.9	85.1	145.1
97	65.5	34.8	94.8
132	103.4	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56320.d
Acq On : 26 Jun 2024 3:32 pm
Operator : jeniferw
Sample : FC16561-12 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 27 06:17:23 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

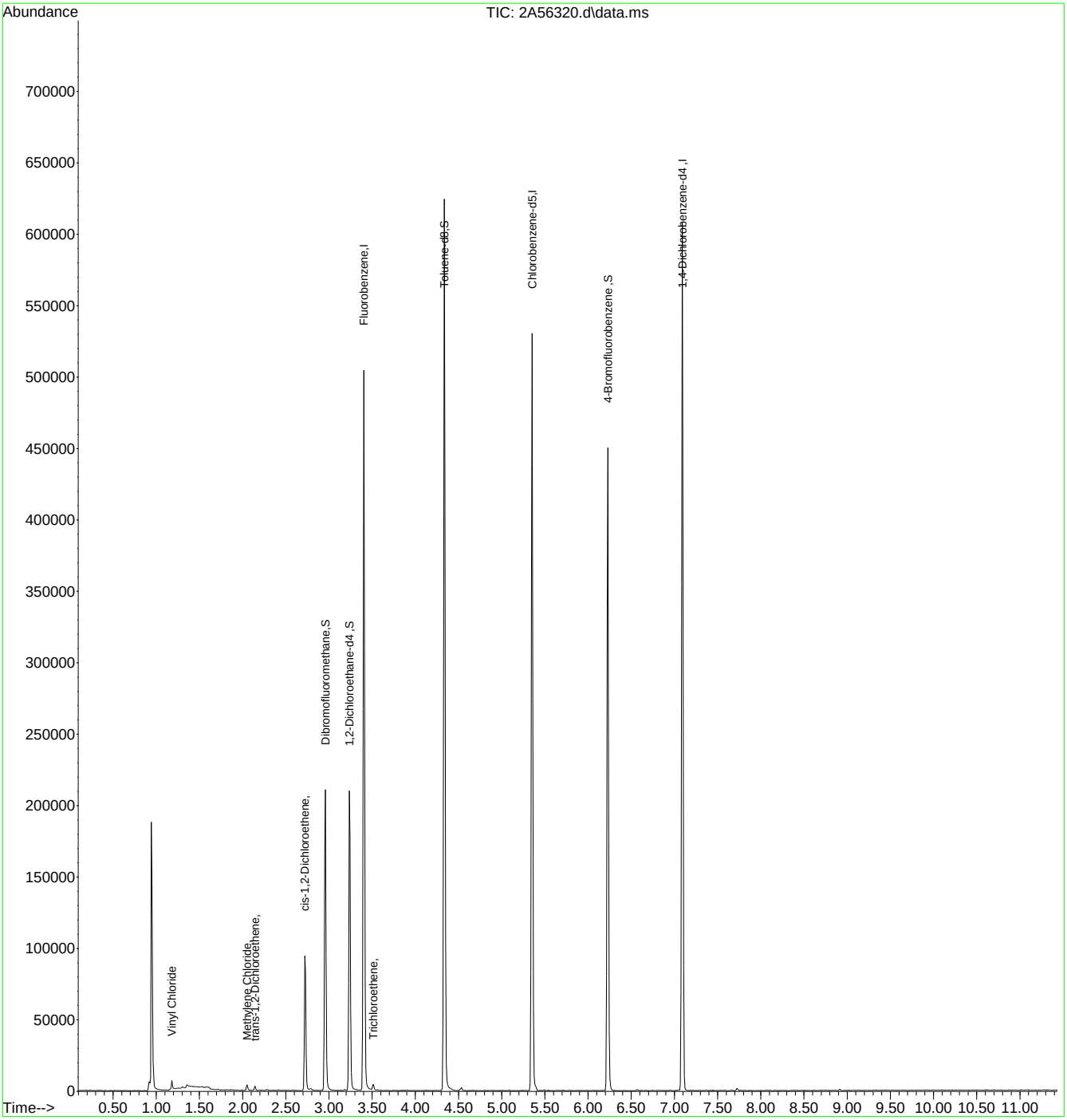
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	262024	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	196057	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	113923	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	76717	50.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.42%			
49) 1,2-Dichloroethane-d4	3.235	65	89980	49.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.24%			
63) Toluene-d8	4.336	98	267172	50.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.54%			
86) 4-Bromofluorobenzene	6.229	174	88625	49.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.32%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.180	62	2648	1.7569	ug/L	93
18) Methylene Chloride	2.050	49	1362	0.7311	ug/L #	67
21) trans-1,2-Dichloroethene	2.142	61	1025	0.5067	ug/L #	73
32) cis-1,2-Dichloroethene	2.720	96	24867	17.1179	ug/L #	71
53) Trichloroethene	3.512	95	932	0.6169	ug/L	79

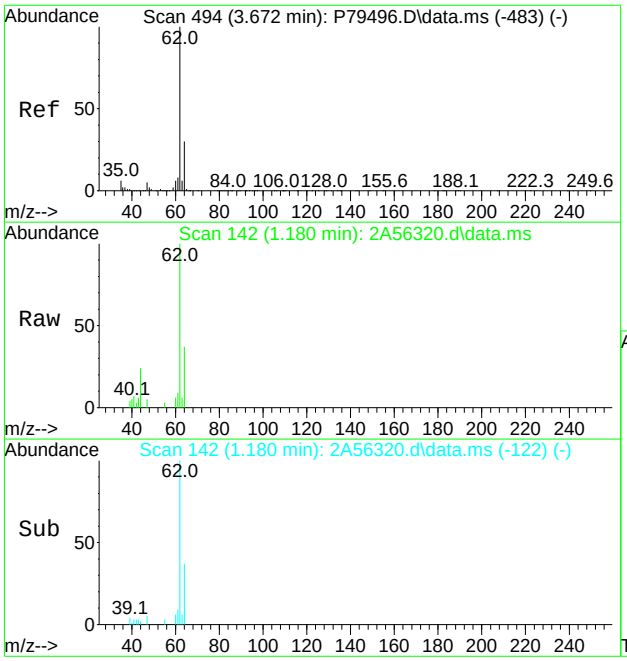
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56320.d
Acq On : 26 Jun 2024 3:32 pm
Operator : jeniferw
Sample : FC16561-12 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 27 06:17:23 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

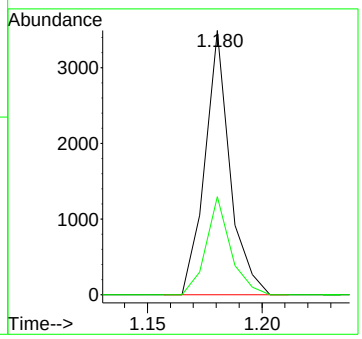


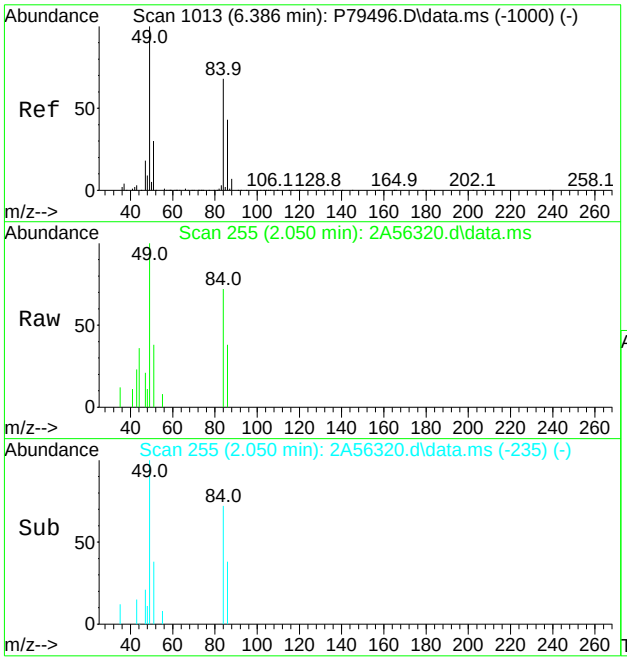


#5
Vinyl Chloride
Concen: 1.7569 ug/L
RT: 1.180 min Scan# 142
Delta R.T. 0.000 min
Lab File: 2A56320.d
Acq: 26 Jun 2024 3:32 pm

Tgt Ion: 62 Resp: 2648

Ion	Ratio	Lower	Upper
62	100		
64	37.1	3.1	63.1

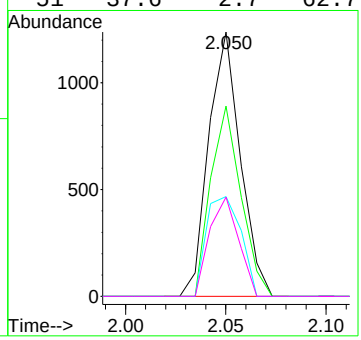


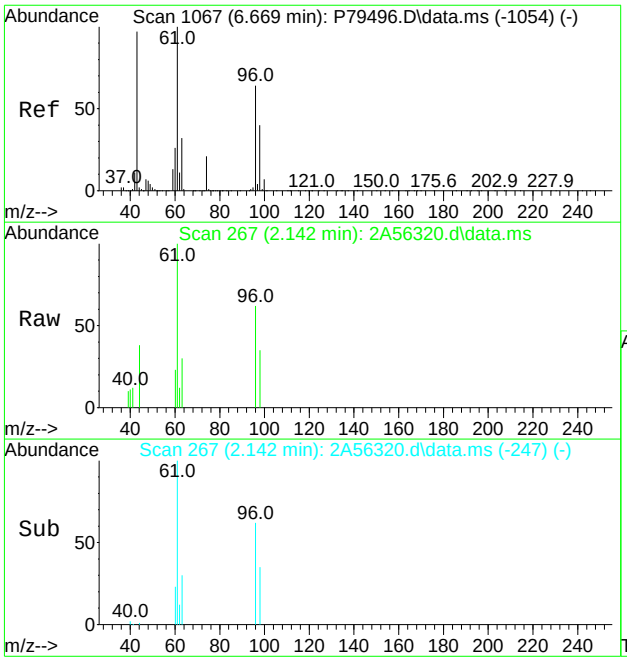


#18
Methylene Chloride
Concen: 0.7311 ug/L
RT: 2.050 min Scan# 255
Delta R.T. 0.000 min
Lab File: 2A56320.d
Acq: 26 Jun 2024 3:32 pm

Tgt Ion: 49 Resp: 1362

Ion	Ratio	Lower	Upper
49	100		
84	72.0	78.4	138.4#
86	37.7	42.5	102.5#
51	37.6	2.7	62.7

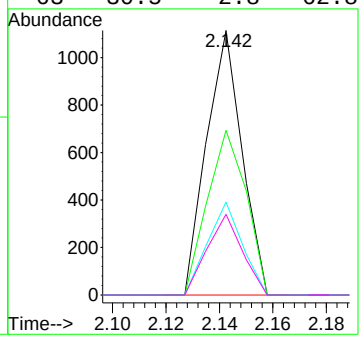


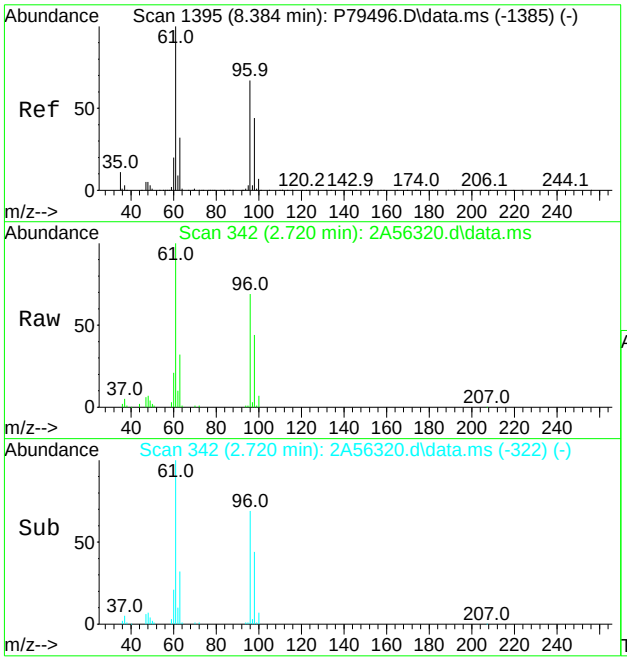


#21
trans-1,2-Dichloroethene
Concen: 0.5067 ug/L
RT: 2.142 min Scan# 267
Delta R.T. 0.000 min
Lab File: 2A56320.d
Acq: 26 Jun 2024 3:32 pm

Tgt Ion: 61 Resp: 1025

Ion	Ratio	Lower	Upper
61	100		
96	62.2	62.8	122.8#
98	35.2	29.8	89.8
63	30.5	2.8	62.8

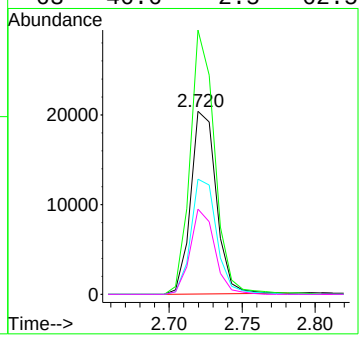


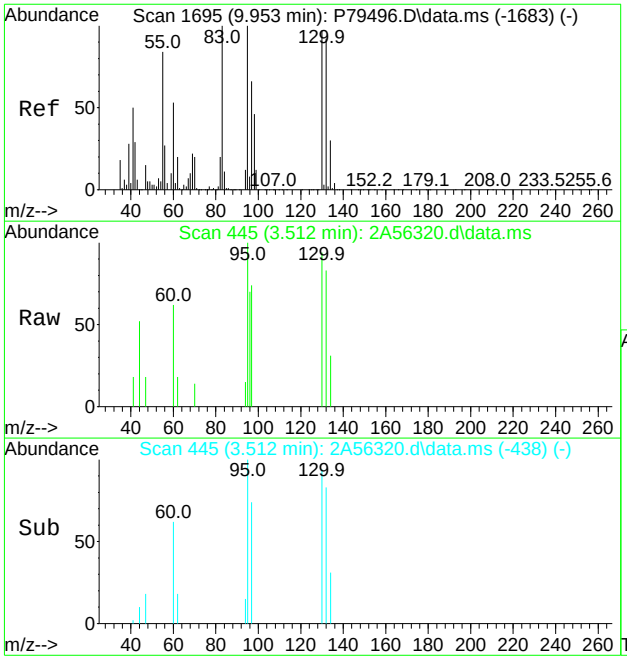


#32
cis-1,2-Dichloroethene
Concen: 17.1179 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56320.d
Acq: 26 Jun 2024 3:32 pm

Tgt Ion: 96 Resp: 24867

Ion	Ratio	Lower	Upper
96	100		
61	144.5	67.8	127.8#
98	63.0	35.4	95.4
63	46.6	2.5	62.5

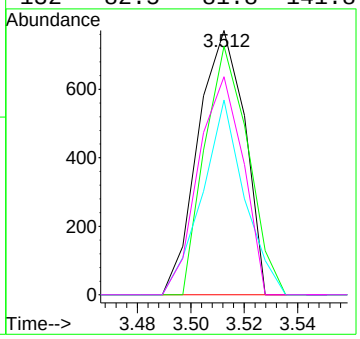




#53
Trichloroethene
Concen: 0.6169 ug/L
RT: 3.512 min Scan# 445
Delta R.T. 0.000 min
Lab File: 2A56320.d
Acq: 26 Jun 2024 3:32 pm

Tgt Ion: 95 Resp: 932

Ion	Ratio	Lower	Upper
95	100		
130	94.0	85.1	145.1
97	73.7	34.8	94.8
132	82.5	81.8	141.8



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56318.d
Acq On : 26 Jun 2024 2:44 pm
Operator : jeniferw
Sample : FC16561-13 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 27 06:16:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

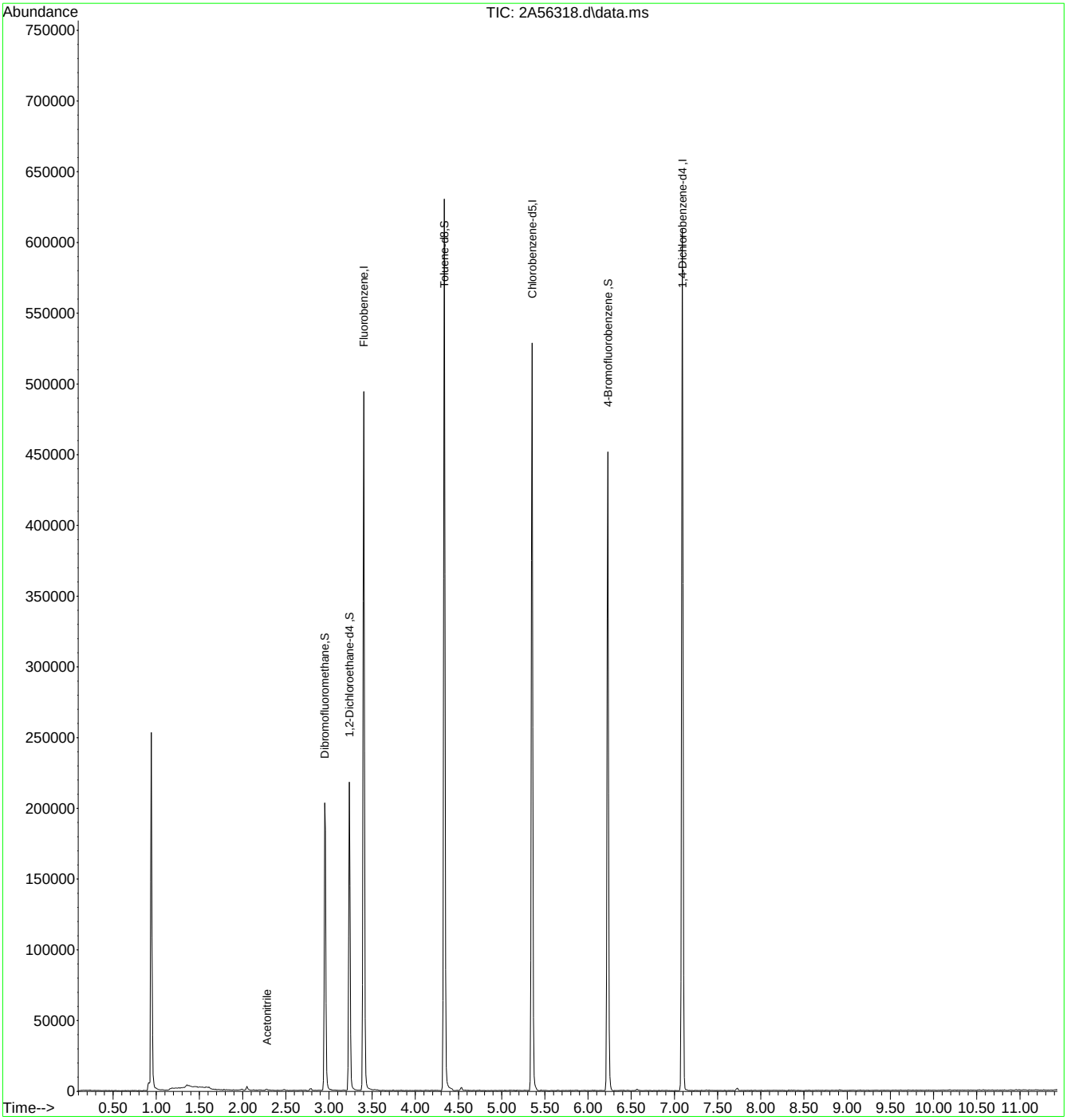
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	262050	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	195207	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	113844	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	75789	50.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.18%			
49) 1,2-Dichloroethane-d4	3.235	65	90269	49.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.54%			
63) Toluene-d8	4.336	98	265631	50.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.40%			
86) 4-Bromofluorobenzene	6.229	174	88860	49.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.64%			
Target Compounds						Qvalue
24) Acetonitrile	2.281	41	1711m	9.6840	ug/L	

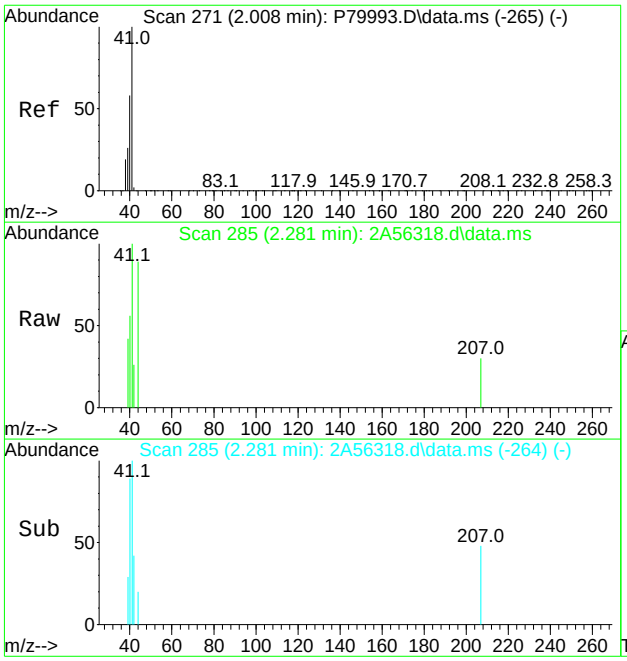
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56318.d
Acq On : 26 Jun 2024 2:44 pm
Operator : jeniferw
Sample : FC16561-13 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 27 06:16:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

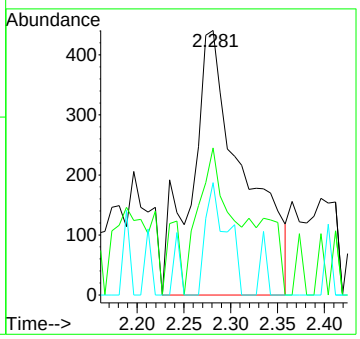




#24
Acetonitrile
Concen: 9.6840 ug/L m
RT: 2.281 min Scan# 285
Delta R.T. 0.008 min
Lab File: 2A56318.d
Acq: 26 Jun 2024 2:44 pm

Tgt Ion: 41 Resp: 1711

Ion	Ratio	Lower	Upper
41	100		
40	55.6	31.9	71.9
39	42.4	0.0	37.4#



Manual Integration Approval Summary

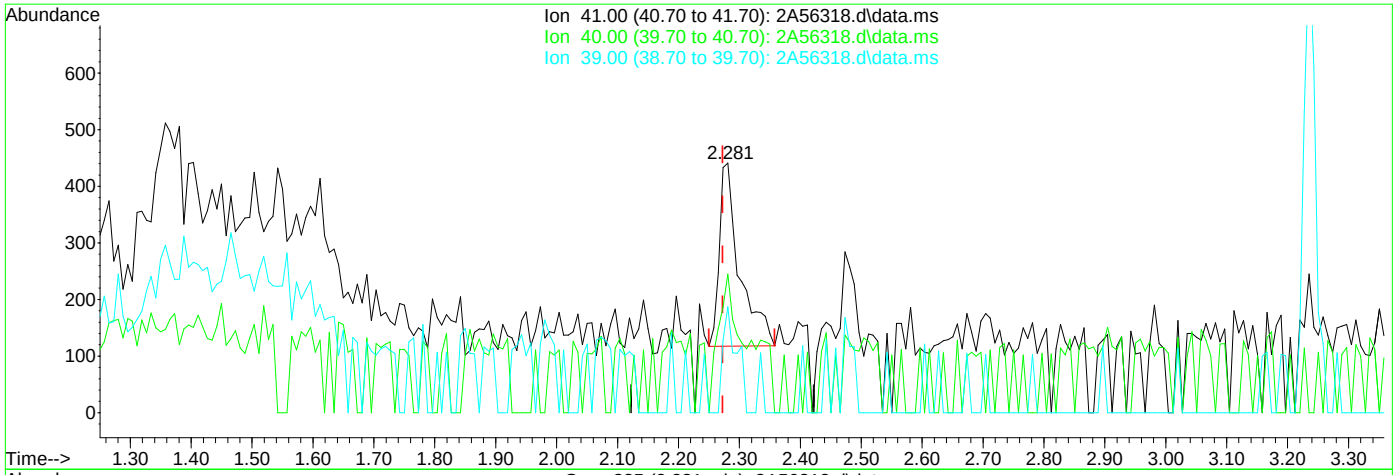
Sample Number: FC16561-13
Lab FileID: 2A56318.D
Injection Time: 06/26/24 14:44
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/27/24 08:22 Karen Watson

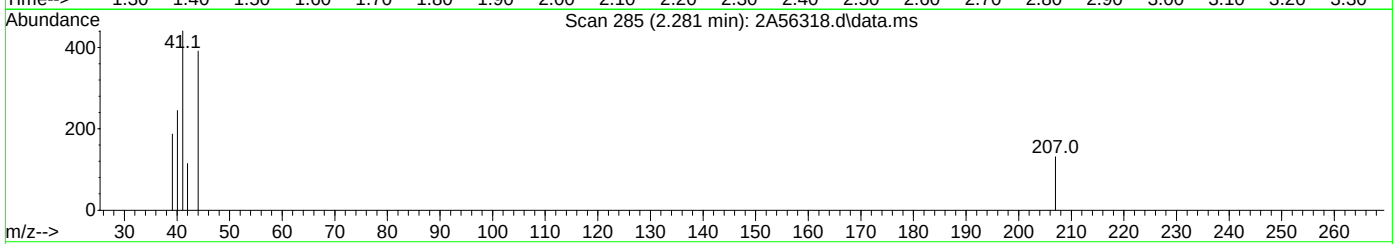
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetonitrile	75-05-8		2.28	Split peak

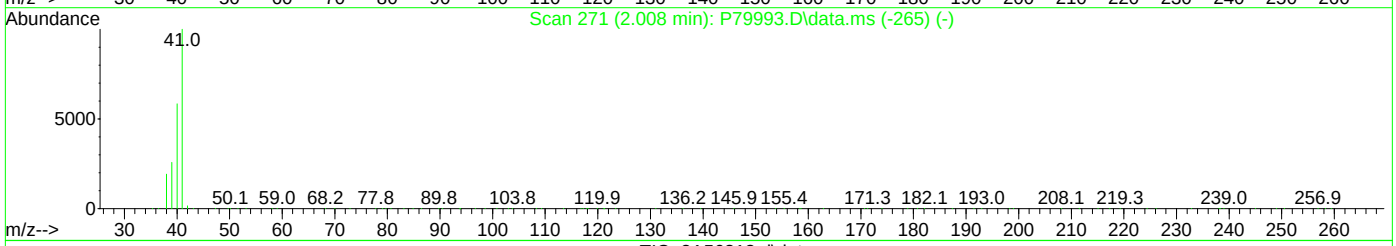
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56318.d
Acq On : 26 Jun 2024 2:44 pm
Operator : jeniferw
Sample : FC16561-13 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 27 06:00:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56318.d\data.ms

(24) Acetonitrile

2.281min (+0.008) 4.22ug/L

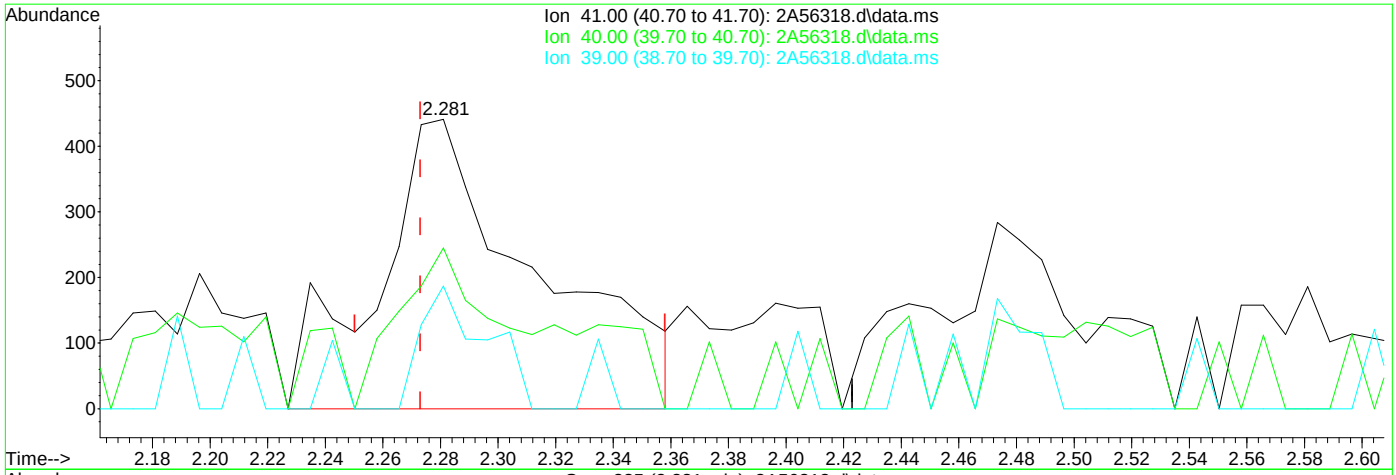
response 745

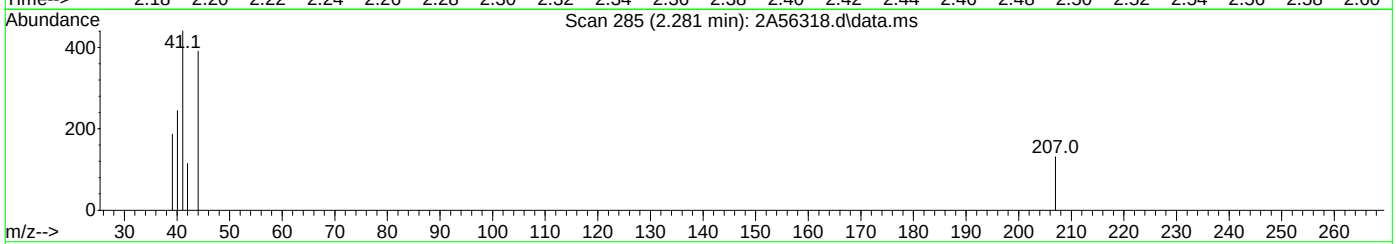
Ion	Exp%	Act%
41.00	100	100
40.00	51.90	75.62#
39.00	17.40	57.72#
0.00	0.00	0.00

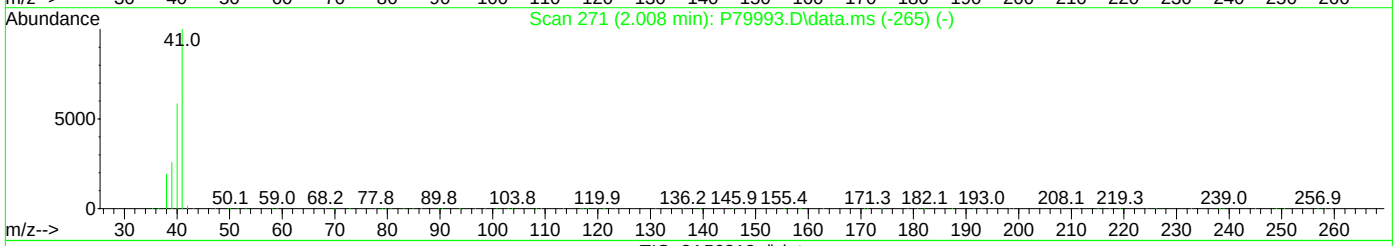
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56318.d
Acq On : 26 Jun 2024 2:44 pm
Operator : jeniferw
Sample : FC16561-13 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 27 06:00:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56318.d\data.ms

(24) Acetonitrile

2.281min (+0.008) 9.68ug/L m

response 1711

Ion	Exp%	Act%
41.00	100	100
40.00	51.90	55.56
39.00	17.40	42.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56305.D
Acq On : 26 Jun 2024 9:31 am
Operator : jeniferw
Sample : FC16561-14
Misc : MS56912,V2A1911,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 09:56:07 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	273581	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	204575	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	117825	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	79759	50.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%			
49) 1,2-Dichloroethane-d4	3.235	65	93769	49.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.04%			
63) Toluene-d8	4.336	98	276283	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
86) 4-Bromofluorobenzene	6.229	174	93260	50.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.02%			

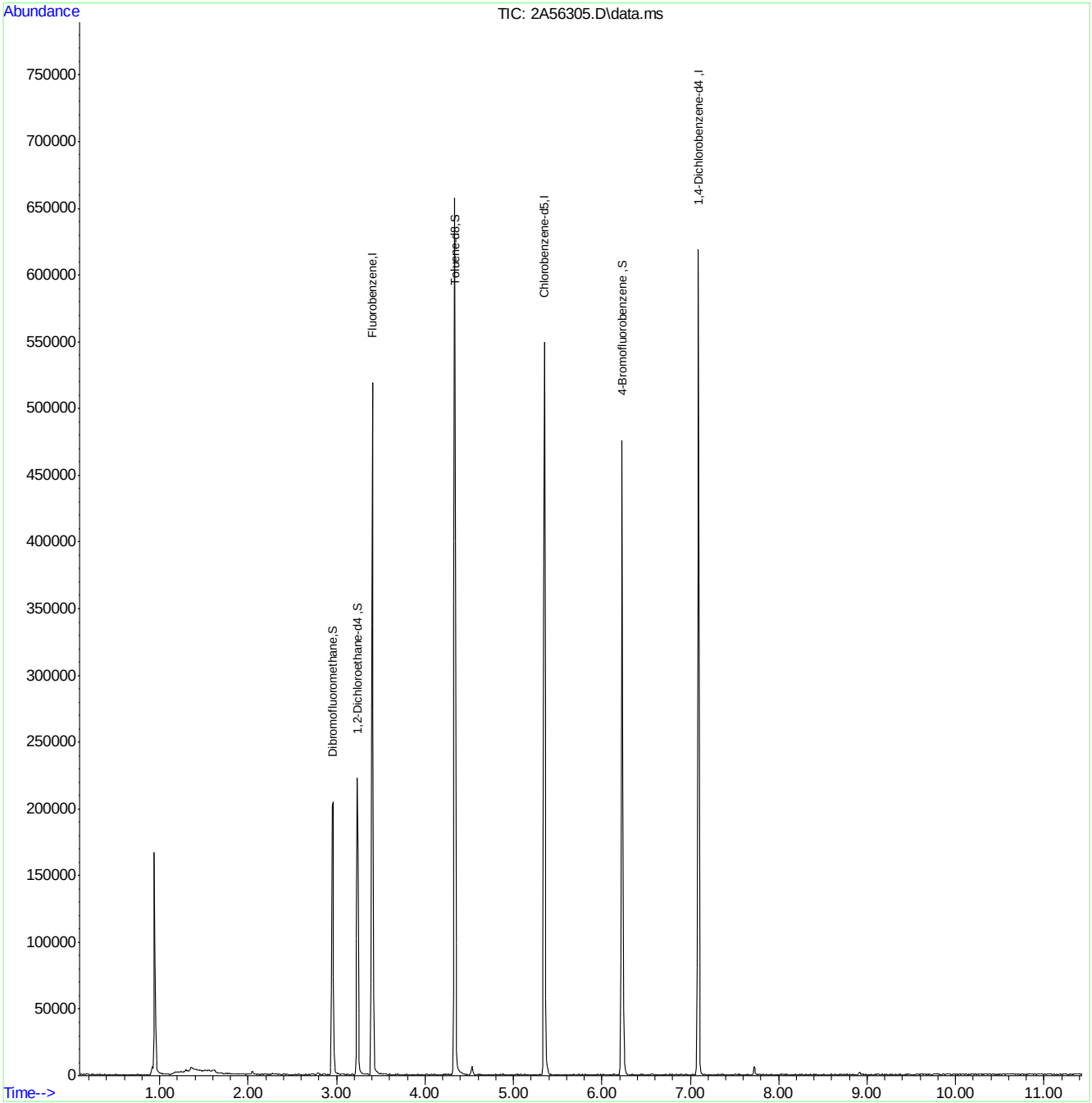
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56305.D
Acq On : 26 Jun 2024 9:31 am
Operator : jeniferw
Sample : FC16561-14
Misc : MS56912,V2A1911,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 09:56:07 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56319.d
Acq On : 26 Jun 2024 3:08 pm
Operator : jeniferw
Sample : FC16561-15 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 27 06:16:49 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

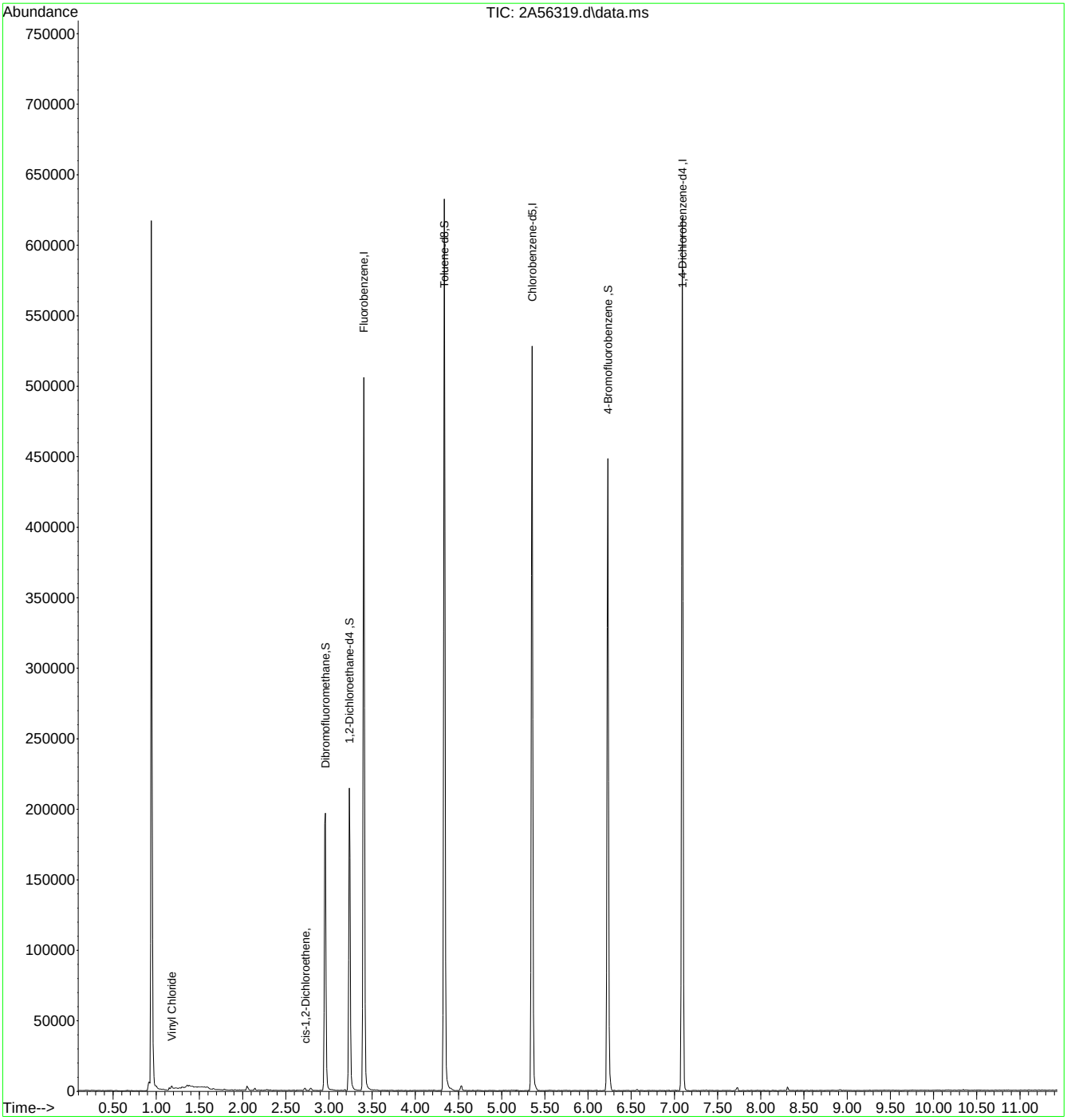
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	262538	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	194794	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	113703	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	76984	50.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.58%			
49) 1,2-Dichloroethane-d4	3.235	65	89975	49.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.04%			
63) Toluene-d8	4.336	98	264470	50.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.16%			
86) 4-Bromofluorobenzene	6.229	174	88825	49.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.72%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.181	62	1203	0.7966	ug/L	95
32) cis-1,2-Dichloroethene	2.727	96	555	0.3745	ug/L	87

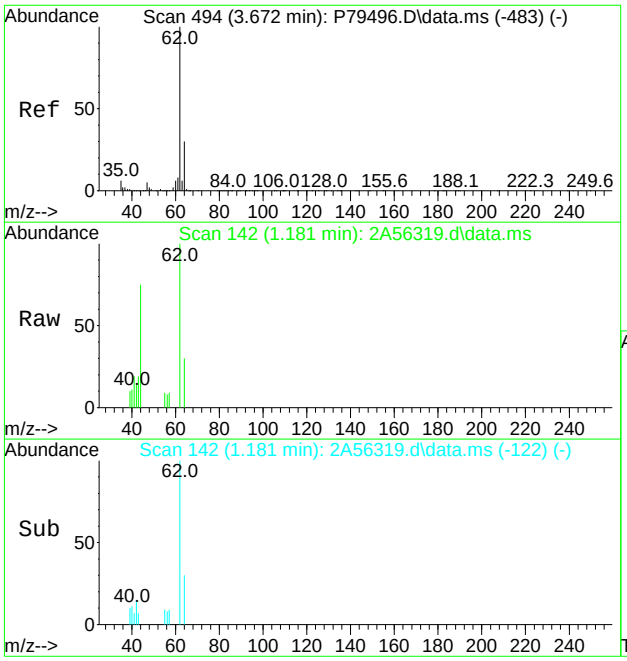
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56319.d
Acq On : 26 Jun 2024 3:08 pm
Operator : jeniferw
Sample : FC16561-15 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 27 06:16:49 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

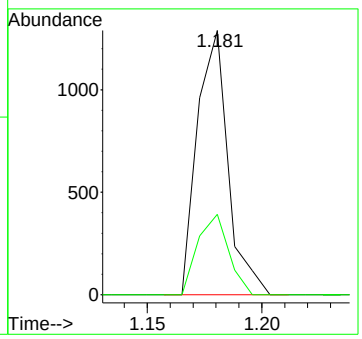


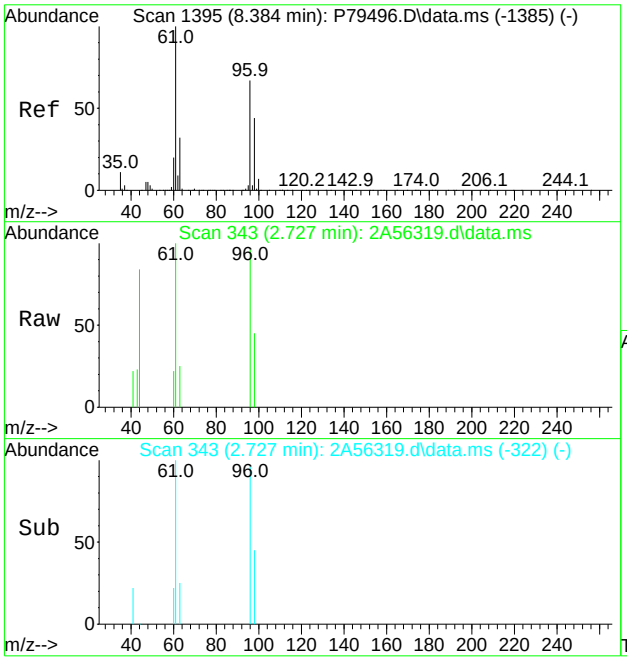


#5
Vinyl Chloride
Concen: 0.7966 ug/L
RT: 1.181 min Scan# 142
Delta R.T. 0.001 min
Lab File: 2A56319.d
Acq: 26 Jun 2024 3:08 pm

Tgt Ion: 62 Resp: 1203

Ion	Ratio	Lower	Upper
62	100		
64	30.5	3.1	63.1

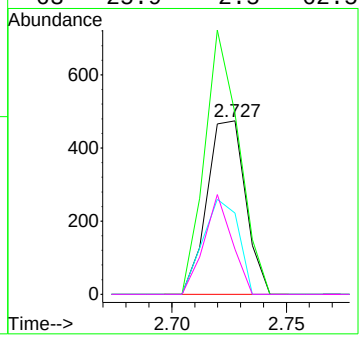




#32
cis-1,2-Dichloroethene
Concen: 0.3745 ug/L
RT: 2.727 min Scan# 343
Delta R.T. 0.008 min
Lab File: 2A56319.d
Acq: 26 Jun 2024 3:08 pm

Tgt Ion: 96 Resp: 555

Ion	Ratio	Lower	Upper
96	100		
61	104.4	67.8	127.8
98	46.8	35.4	95.4
63	25.9	2.5	62.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56304.D
Acq On : 26 Jun 2024 9:07 am
Operator : jeniferw
Sample : MB
Misc : MS56910,V2A1911,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 09:55:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

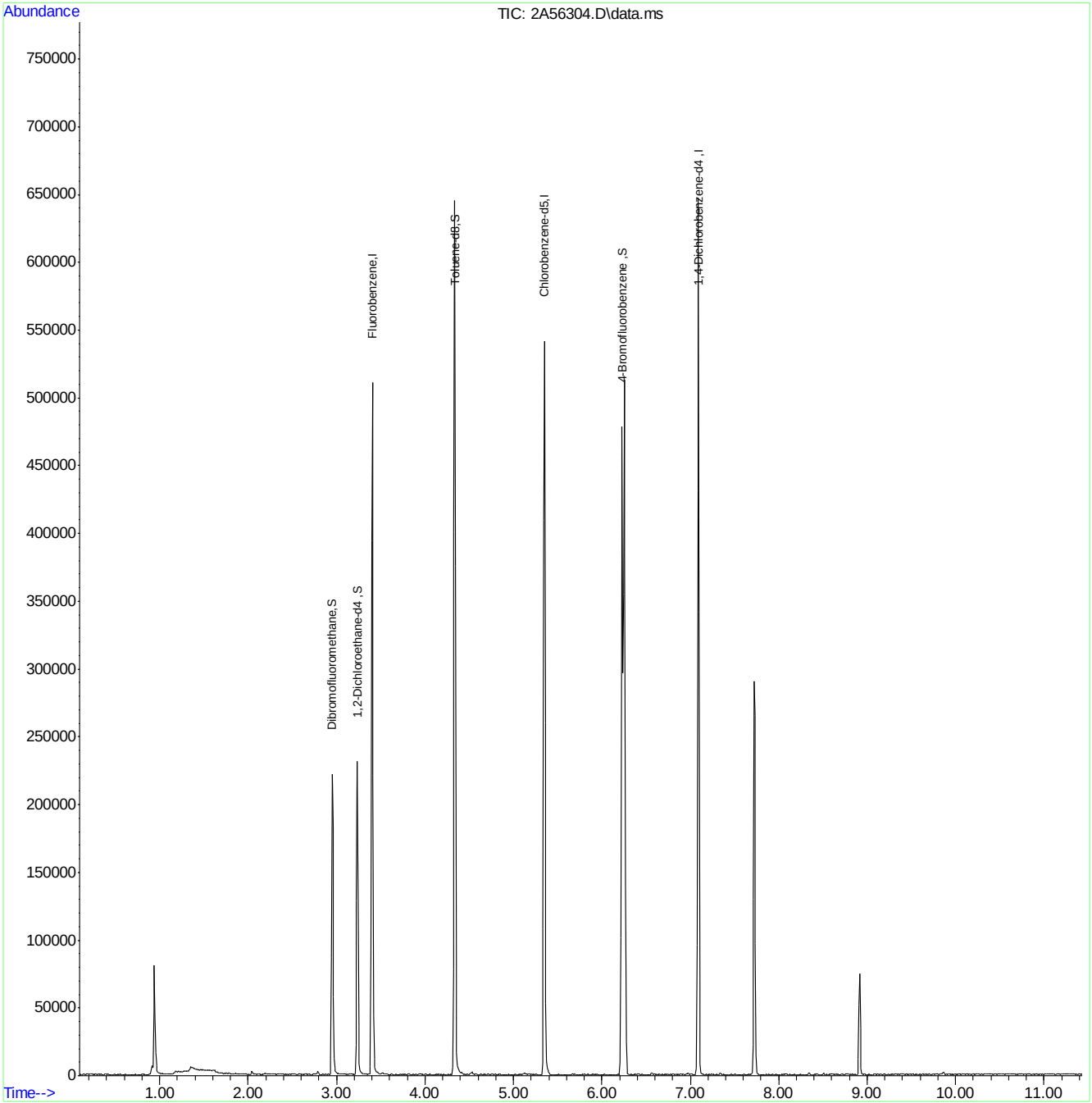
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	274997	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	206713	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	121133	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	80305	50.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.16%			
49) 1,2-Dichloroethane-d4	3.235	65	94821	49.82	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.64%			
63) Toluene-d8	4.336	98	280443	50.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.10%			
86) 4-Bromofluorobenzene	6.229	174	94339	49.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.42%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56304.D
Acq On : 26 Jun 2024 9:07 am
Operator : jeniferw
Sample : MB
Misc : MS56910,V2A1911,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 09:55:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47494.D
Acq On : 27 Jun 2024 8:56 am
Operator : lianatr
Sample : MB
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 09:19:11 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

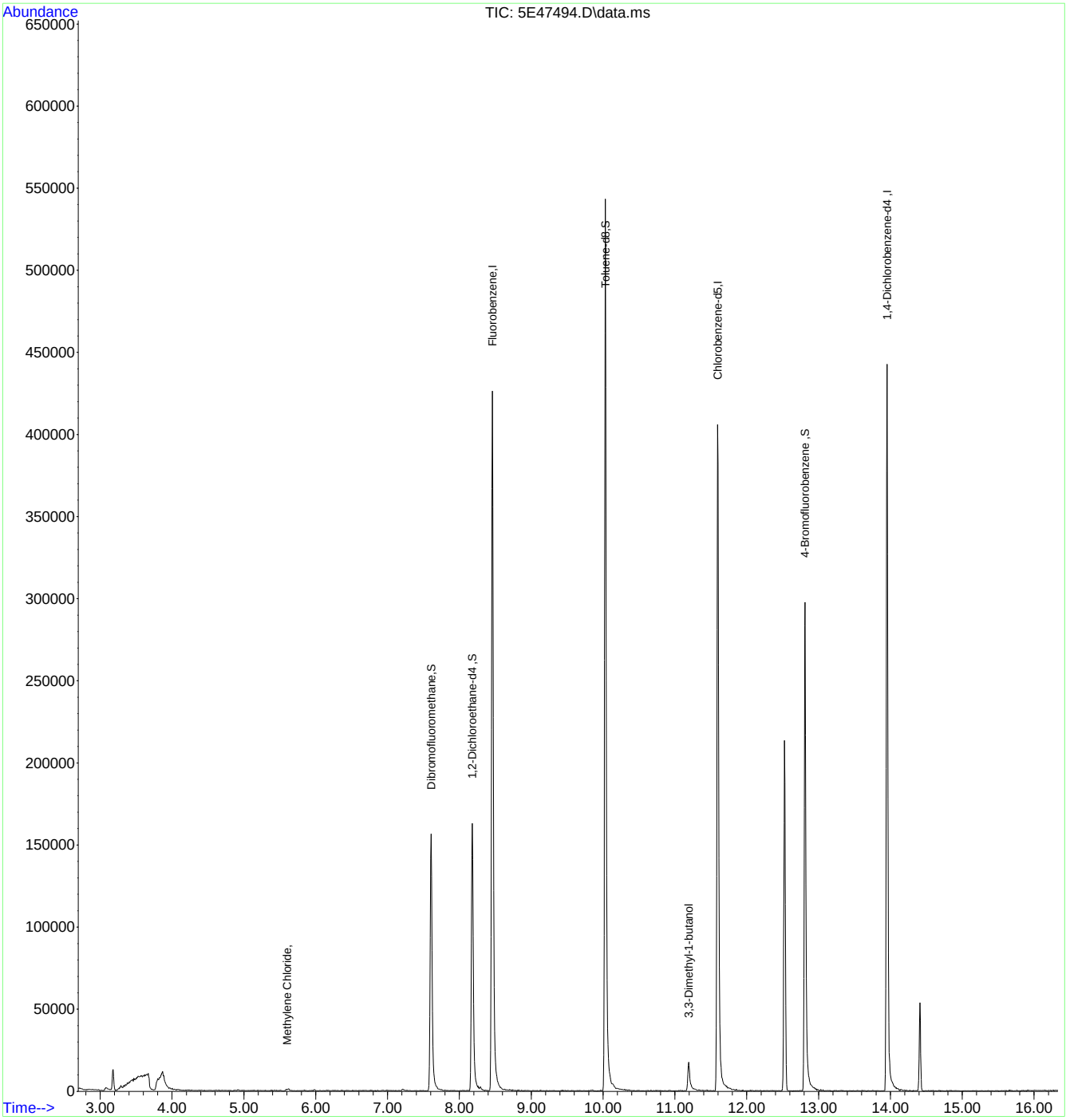
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	352944	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	224792	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	109395	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	88877	48.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.12%			
49) 1,2-Dichloroethane-d4	8.180	65	102341	47.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.34%			
62) Toluene-d8	10.033	98	329316	52.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.90%			
86) 4-Bromofluorobenzene	12.813	95	96851	53.70	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.40%			
Target Compounds						Qvalue
18) Methylene Chloride	5.601	49	535	0.26	ug/L	# 61
74) 3,3-Dimethyl-1-butanol	11.191	57	11564	139.07	ug/L	98

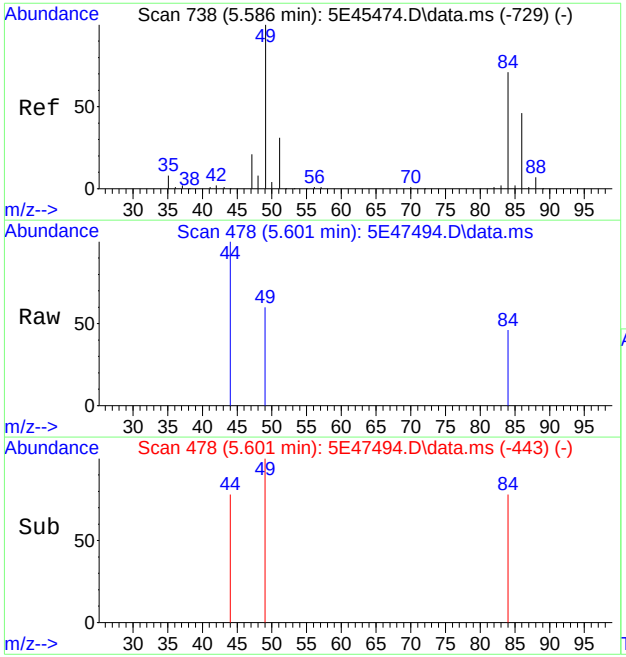
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47494.D
Acq On : 27 Jun 2024 8:56 am
Operator : lianatr
Sample : MB
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 09:19:11 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

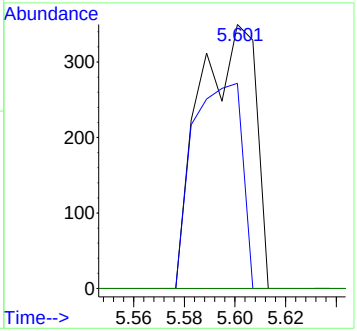


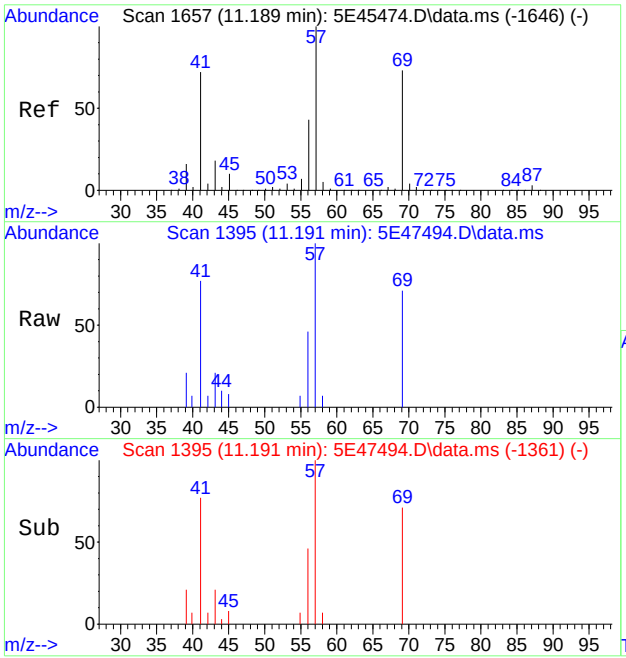


#18
Methylene Chloride
Concen: 0.26 ug/L
RT: 5.601 min Scan# 478
Delta R.T. 0.012 min
Lab File: 5E47494.D
Acq: 27 Jun 2024 8:56 am

Tgt Ion: 49 Resp: 535

Ion	Ratio	Lower	Upper
49	100		
84	77.7	37.7	97.7
86	0.0	14.3	74.3#
51	0.0	0.0	59.9

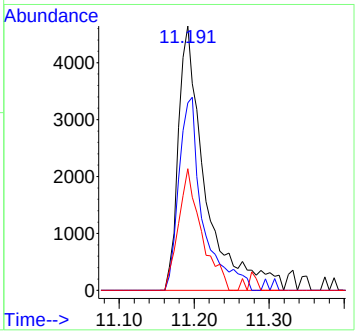




#74
3,3-Dimethyl-1-butanol
Concen: 139.07 ug/L
RT: 11.191 min Scan# 1395
Delta R.T. 0.006 min
Lab File: 5E47494.D
Acq: 27 Jun 2024 8:56 am

Tgt Ion: 57 Resp: 11564

Ion	Ratio	Lower	Upper
57	100		
69	70.9	50.2	90.2
56	46.0	24.1	64.1



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:53 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	294626	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	209736	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	122251	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	82220	48.34	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.68%				
49) 1,2-Dichloroethane-d4	3.235	65	100989	49.53	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.06%				
63) Toluene-d8	4.336	98	290441	51.08	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.16%				
86) 4-Bromofluorobenzene	6.229	174	95300	49.26	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.52%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.027	85	38615	26.52	ug/L		98
3) Chloromethane	1.134	50	40662	24.26	ug/L		98
4) 1,3-butadiene	1.188	39	47096	23.41	ug/L	#	75
5) Vinyl Chloride	1.181	62	39986	23.59	ug/L		99
6) Bromomethane	1.350	94	18673	25.35	ug/L		98
7) Chloroethane	1.419	64	22290	24.38	ug/L		95
8) Trichlorofluoromethane	1.504	101	56298	25.00	ug/L		100
9) Ethyl Ether	1.658	59	26884	22.42	ug/L		86
10) Ethanol	1.712	45	10934m	594.46	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	42088	36.35	ug/L		92
12) 1,1-Dichloroethene	1.765	61	53880	23.53	ug/L		89
13) Freon 113	1.789	101	33659	24.82	ug/L	#	85
14) Carbon Disulfide	1.789	76	89291	21.69	ug/L		83
15) Iodomethane	1.835	142	24985	23.50	ug/L		89
16) Acrolein	1.912	56	41848	148.63	ug/L		96
17) Allyl chloride	1.996	41	58012	25.91	ug/L		80
18) Methylene Chloride	2.050	49	51739	24.70	ug/L	#	74
19) Acetone	2.050	43	79649	134.53	ug/L		81
20) Methyl acetate	2.127	43	186764	127.46	ug/L		87
21) trans-1,2-Dichloroethene	2.143	61	52266	22.98	ug/L		82
22) Hexane	2.196	56	31555	23.28	ug/L	#	79
23) Methyl Tert Butyl Ether	2.196	73	101564	24.60	ug/L		86
24) Acetonitrile	2.273	41	55892	281.36	ug/L		98
25) Tert Butyl Alcohol	2.212	59	61040	258.58	ug/L		62
26) Di-isopropyl ether	2.397	45	107013	22.93	ug/L		87
27) Chloroprene	2.443	53	151214	24.72	ug/L		92
28) 1,1-Dichloroethane	2.443	63	66277	22.81	ug/L		96
29) Acrylonitrile	2.443	52	90393	122.50	ug/L		96
30) ETBE	2.581	59	106540	24.09	ug/L		90
31) Vinyl acetate	2.566	43	486289	137.72	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	38102	23.49	ug/L	#	74
33) 2,2-Dichloropropane	2.781	77	56867	24.20	ug/L		95
34) Bromochloromethane	2.820	128	18770	22.97	ug/L	#	57
35) Cyclohexane	2.858	56	63008	23.37	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:53 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	67099	24.96	ug/L		94
37) Ethyl acetate	2.912	43	250738	129.57	ug/L		89
38) Tetrahydrofuran	2.943	42	16919	24.53	ug/L		82
40) Carbon Tetrachloride	2.958	117	54674m	24.35	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	59082	22.93	ug/L		93
42) 2-Butanone	3.005	43	117835	122.27	ug/L		82
43) 1,1-Dichloropropene	3.051	75	51005	25.12	ug/L	#	75
44) tert-Butyl formate	3.097	59	181174	150.07	ug/L		94
45) Propionitrile	3.143	54	72106	261.42	ug/L		100
46) Methacrylonitrile	3.166	41	288090	265.46	ug/L		94
47) Benzene	3.182	78	144904	24.32	ug/L		83
48) TAME	3.251	73	92136	23.84	ug/L		84
50) 1,2-Dichloroethane	3.274	62	52524	24.12	ug/L		94
51) Isobutyl Alcohol	3.259	43	79942	538.03	ug/L		97
52) Tert Amyl Alcohol	3.320	59	52139	276.62	ug/L		90
53) Trichloroethene	3.513	95	40677	23.94	ug/L		90
54) Methylcyclohexane	3.528	83	62778	23.87	ug/L	#	81
55) Dibromomethane	3.736	93	25242	24.51	ug/L		82
56) 1,2-Dichloropropane	3.790	63	37984	24.68	ug/L		89
57) Bromodichloromethane	3.828	83	48246	22.40	ug/L	#	94
58) Methyl methacrylate	3.920	41	38722	26.72	ug/L	#	68
59) 1,4-Dioxane	3.936	88	9053	609.40	ug/L		78
60) 2-Chloroethyl vinyl ether	4.167	63	133380	127.01	ug/L		82
61) cis-1,3-Dichloropropene	4.205	75	58115	24.88	ug/L		78
64) Toluene	4.367	91	152479	24.23	ug/L		99
65) 2-Nitropropane	4.467	41	79066	142.80	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	244234	130.06	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	51300	24.66	ug/L		85
68) Tetrachloroethene	4.629	166	40455	24.87	ug/L		93
69) Ethyl methacrylate	4.729	69	47323	25.39	ug/L	#	69
70) 1,1,2-Trichloroethane	4.713	83	28192	23.85	ug/L		86
71) Dibromochloromethane	4.836	129	38556	26.27	ug/L		97
72) 1,3-Dichloropropane	4.890	76	55808	27.14	ug/L		74
73) 1,2-Dibromoethane	4.990	107	36147	25.75	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	307927	1330.68	ug/L		94
75) 2-hexanone	5.136	43	242946	133.39	ug/L		74
76) 1-Chlorohexane	5.360	91	54086m	22.69	ug/L		
77) Ethylbenzene	5.390	91	175298m	24.04	ug/L		
78) Chlorobenzene	5.367	112	96551	23.72	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.406	131	34460	24.82	ug/L		96
80) m,p-Xylene	5.498	91	279450	46.88	ug/L		93
81) o-Xylene	5.798	91	142944	22.90	ug/L		92
82) Styrene	5.837	104	106754	23.71	ug/L		92
83) Bromoform	5.837	173	26698	25.65	ug/L		96
84) Isopropylbenzene	6.037	105	169992	23.12	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	13611	26.55	ug/L	#	70
88) n-Propylbenzene	6.353	91	209689	23.26	ug/L		91
89) Bromobenzene	6.306	156	41922	24.52	ug/L	#	75
90) 1,1,2,2-Tetrachloroethane	6.368	83	50324	25.00	ug/L		97
91) 1,3,5-Trimethylbenzene	6.506	105	142964	23.35	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:53 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

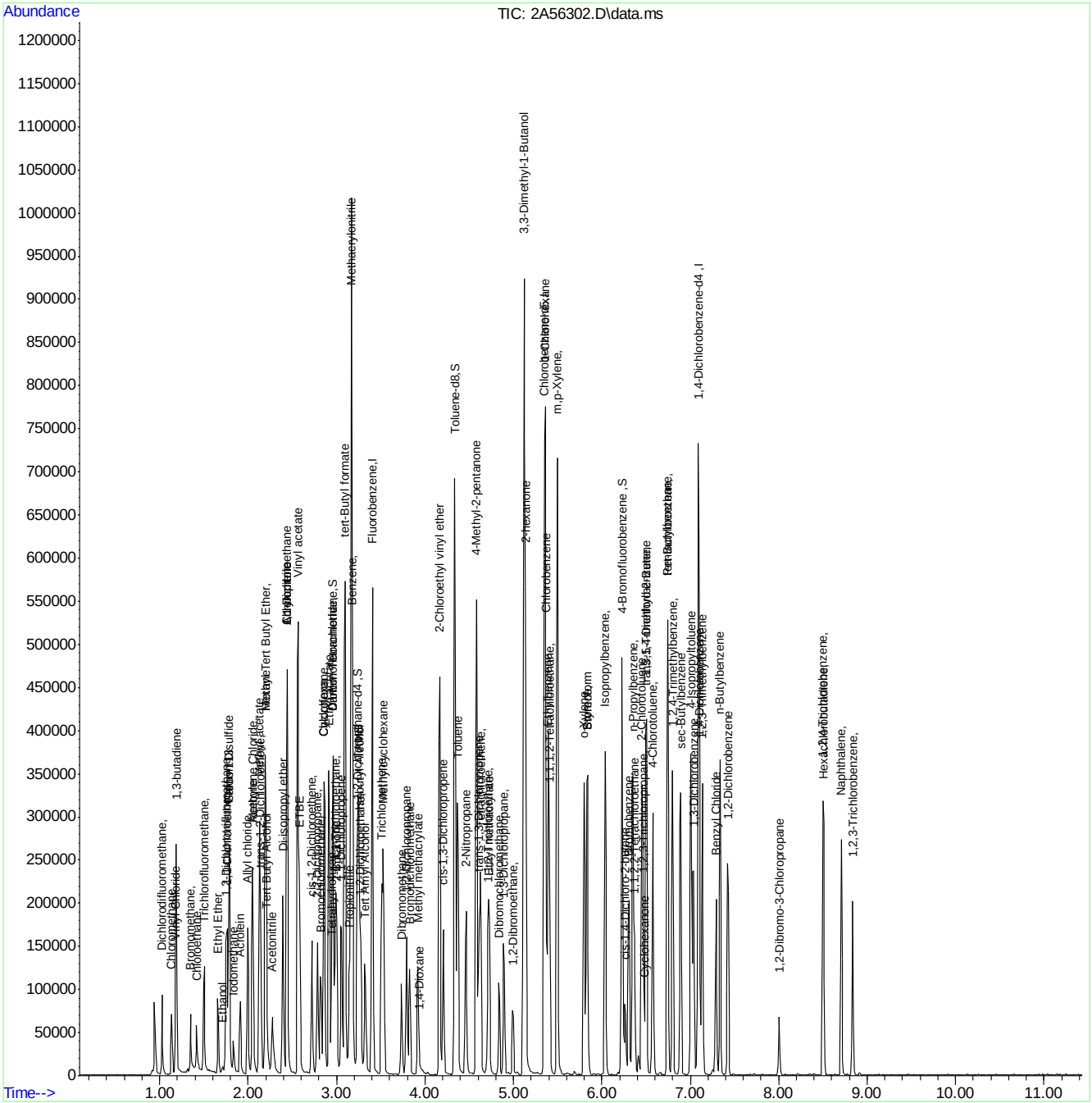
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.453	91	116658	23.44	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.499	53	17790	27.44	ug/L	#	65
94)	1,2,3-Trichloropropane	6.468	110	14377	27.27	ug/L	#	73
95)	Cyclohexanone	6.483	55	13790	228.57	ug/L		81
96)	4-Chlorotoluene	6.576	91	125721	23.60	ug/L		88
97)	tert-Butylbenzene	6.745	91	84654	22.99	ug/L		83
98)	1,2,4-Trimethylbenzene	6.799	105	135486	23.66	ug/L		98
99)	Pentachloroethane	6.745	167	24315	26.35	ug/L	#	80
100)	sec-Butylbenzene	6.891	105	172347	22.23	ug/L		93
101)	4-Isopropyltoluene	7.007	119	148734	22.59	ug/L		94
102)	1,3-Dichlorobenzene	7.037	146	78192	23.51	ug/L		94
103)	1,2,3-Trimethylbenzene	7.138	105	134400	23.68	ug/L		97
104)	1,4-Dichlorobenzene	7.107	146	78611	23.63	ug/L		94
105)	n-Butylbenzene	7.338	92	73327	24.35	ug/L		94
106)	Benzyl Chloride	7.291	126	19735	26.70	ug/L	#	66
107)	1,2-Dichlorobenzene	7.422	146	71646	24.02	ug/L		90
108)	1,2-Dibromo-3-Chloropr...	8.007	75	11184	27.41	ug/L	#	58
109)	Hexachlorobutadiene	8.507	225	20368	24.10	ug/L		89
110)	1,2,4-Trichlorobenzene	8.500	180	43789	24.13	ug/L		97
111)	Naphthalene	8.708	128	123763	24.96	ug/L		99
112)	1,2,3-Trichlorobenzene	8.838	180	39023	24.05	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:53 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

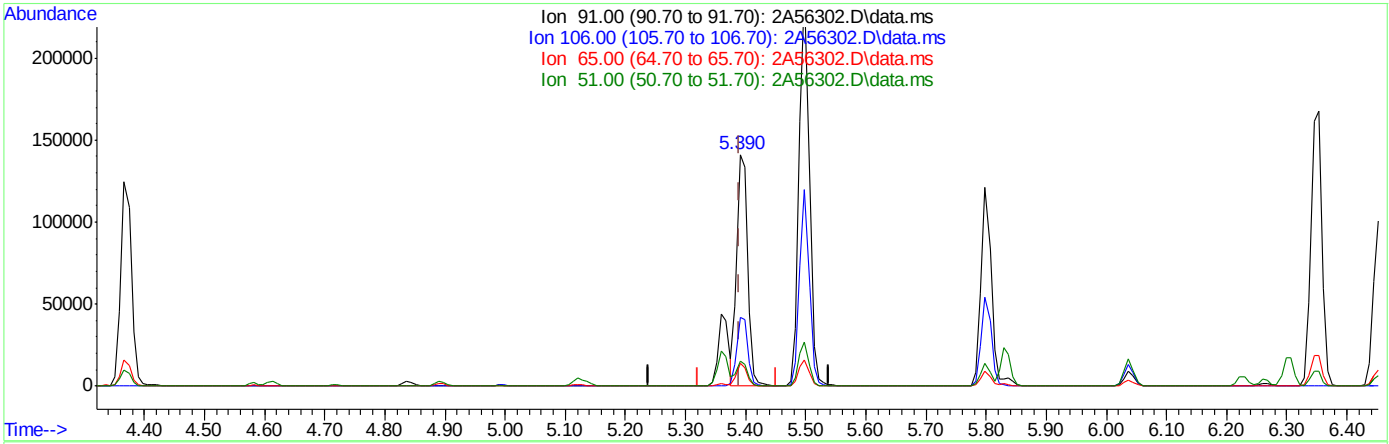
Sample Number: V2A1911-BS
Lab FileID: 2A56302.D
Injection Time: 06/26/24 08:20
Method: SW846 8260D
Analyst approved: 06/26/24 08:37 Jenifer Willis
Supervisor approved: 06/27/24 08:22 Karen Watson

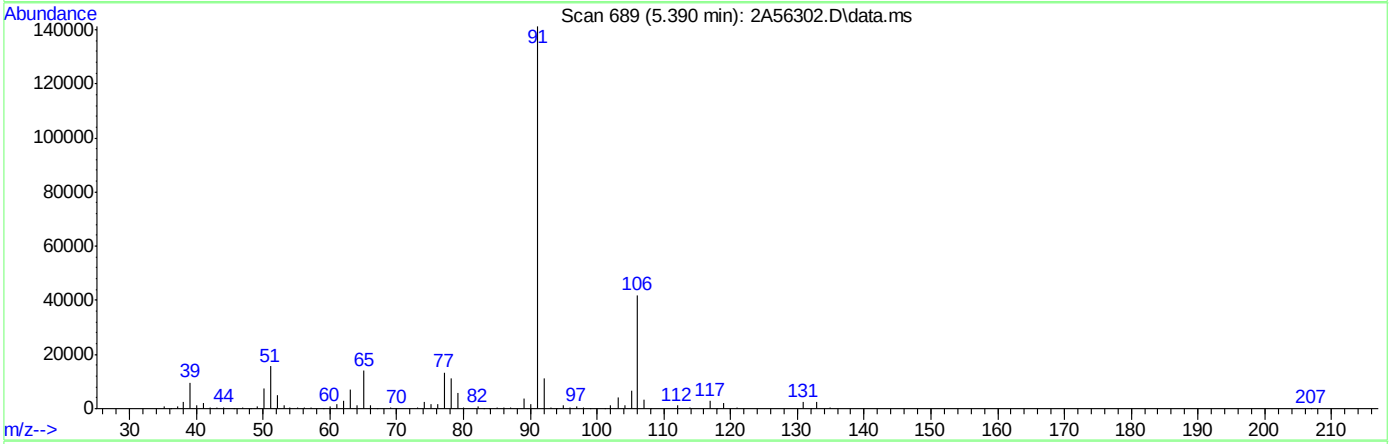
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 24.04ug/L m

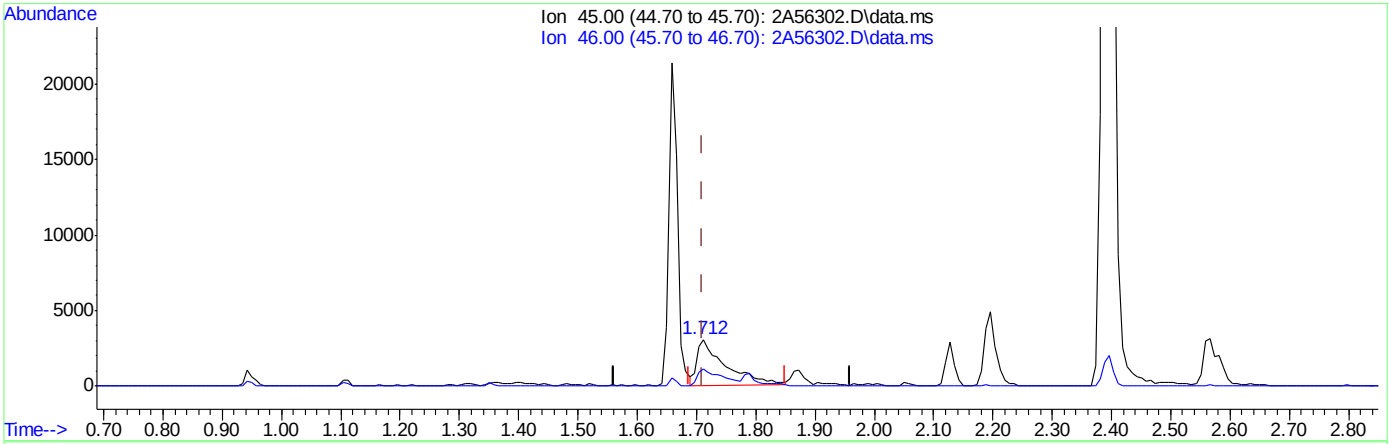
response 175298

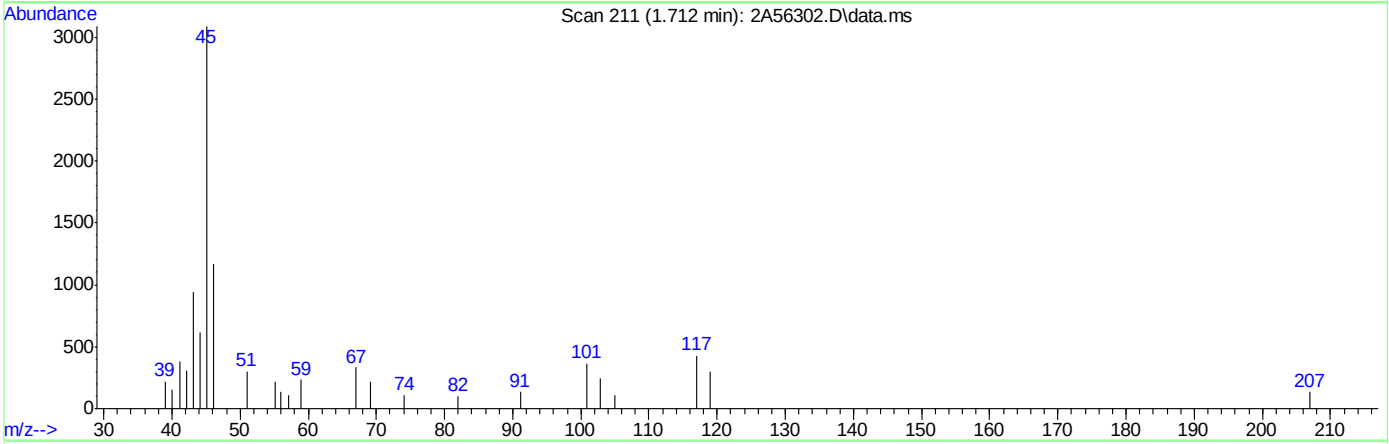
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.75
65.00	7.10	9.96
51.00	7.10	11.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(10) Ethanol

1.712min (+0.001) 559.39ug/L

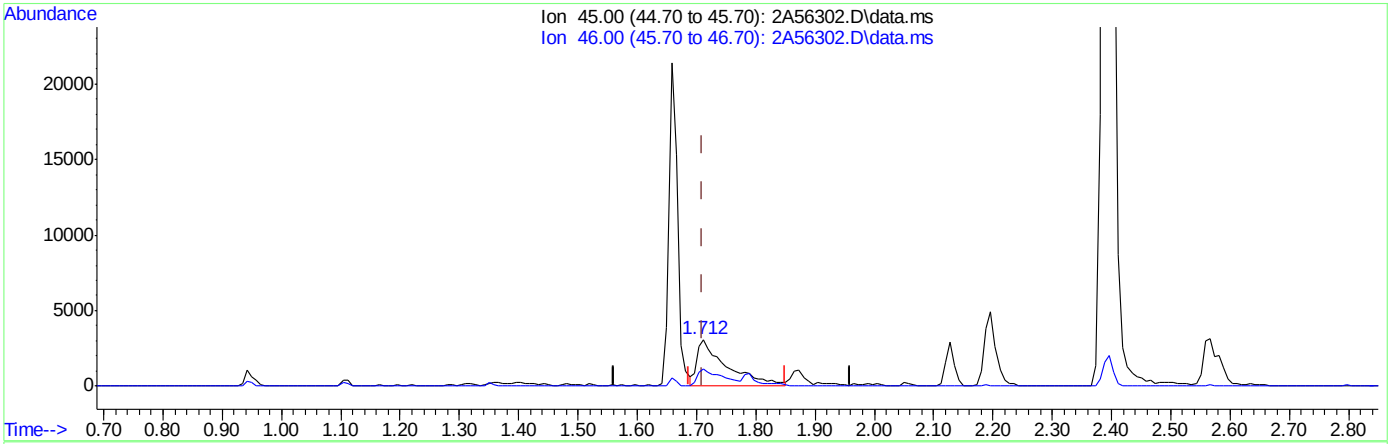
response 10289

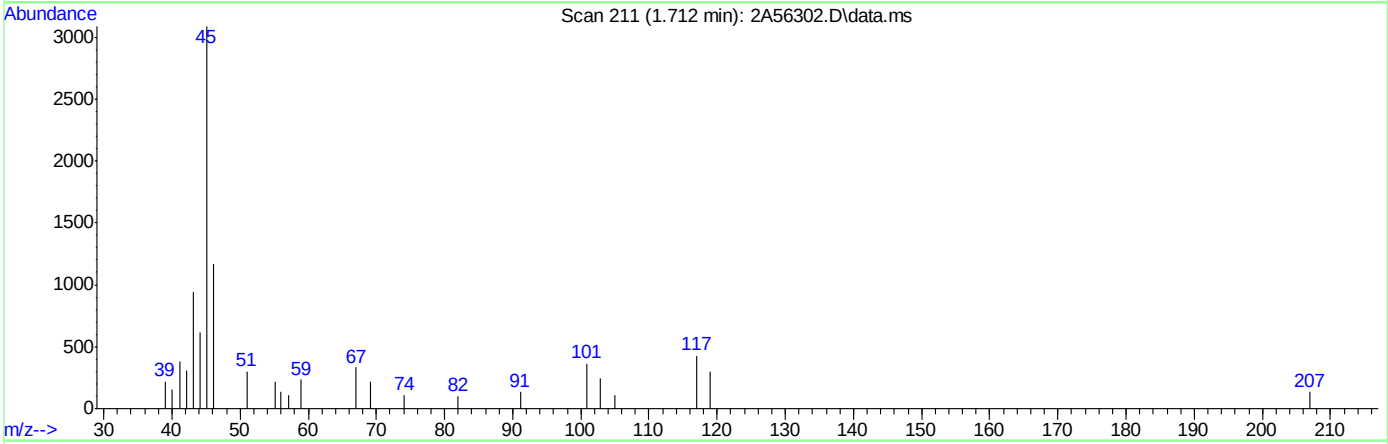
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	40.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(10) Ethanol

1.712min (+0.001) 594.46ug/L m

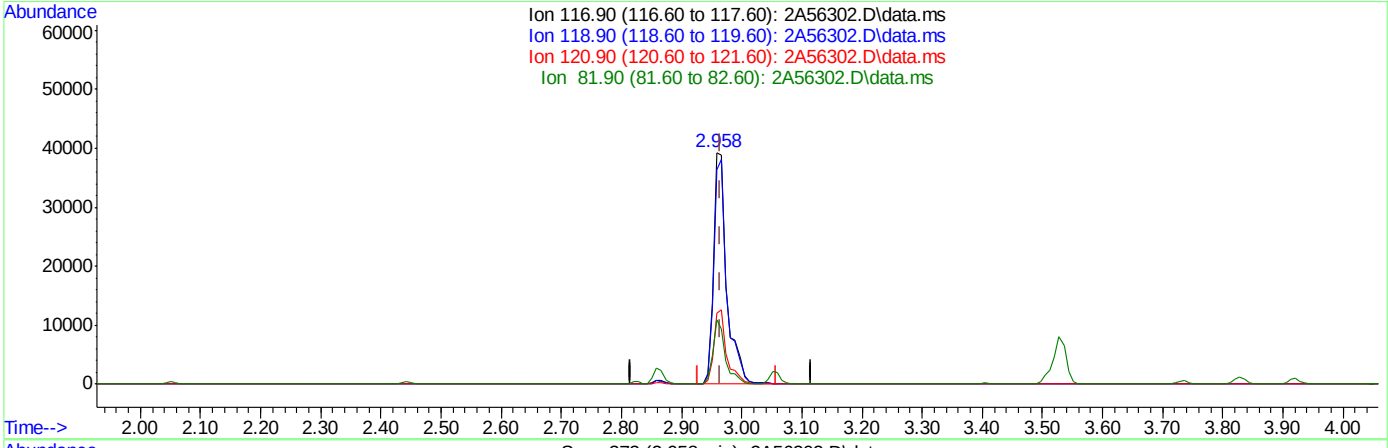
response 10934

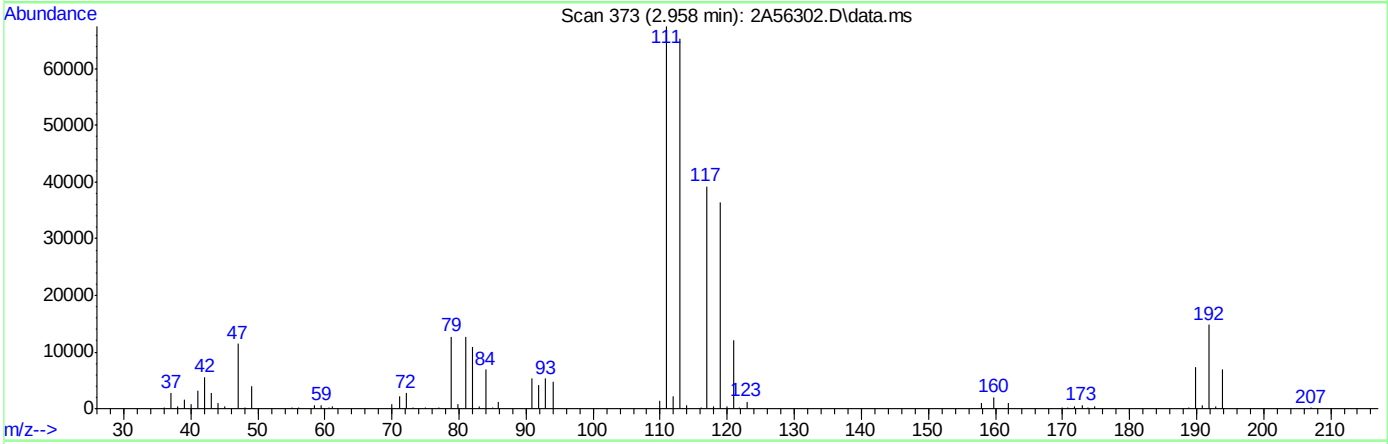
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	37.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 27.37ug/L

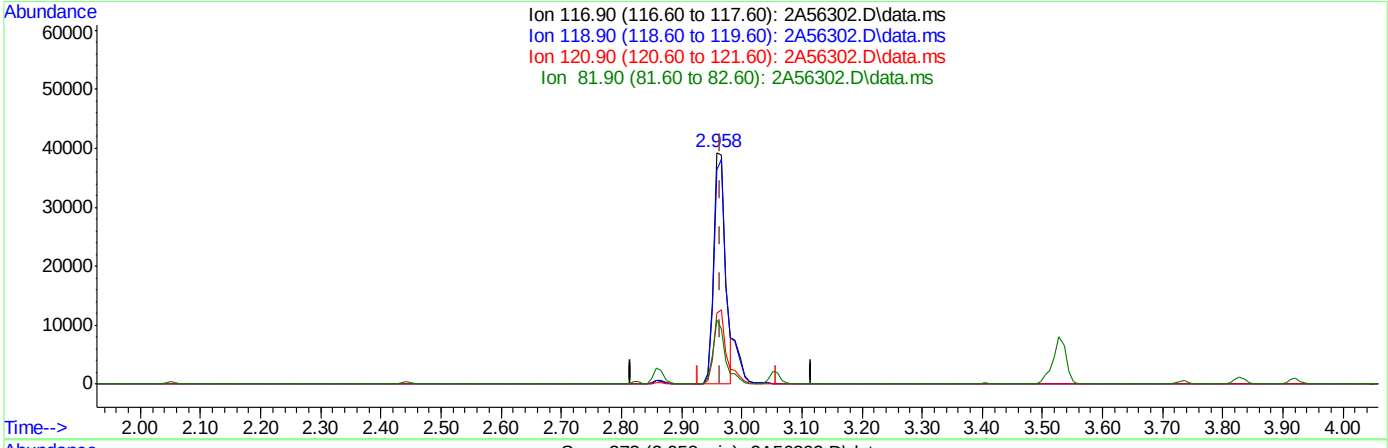
response 61459

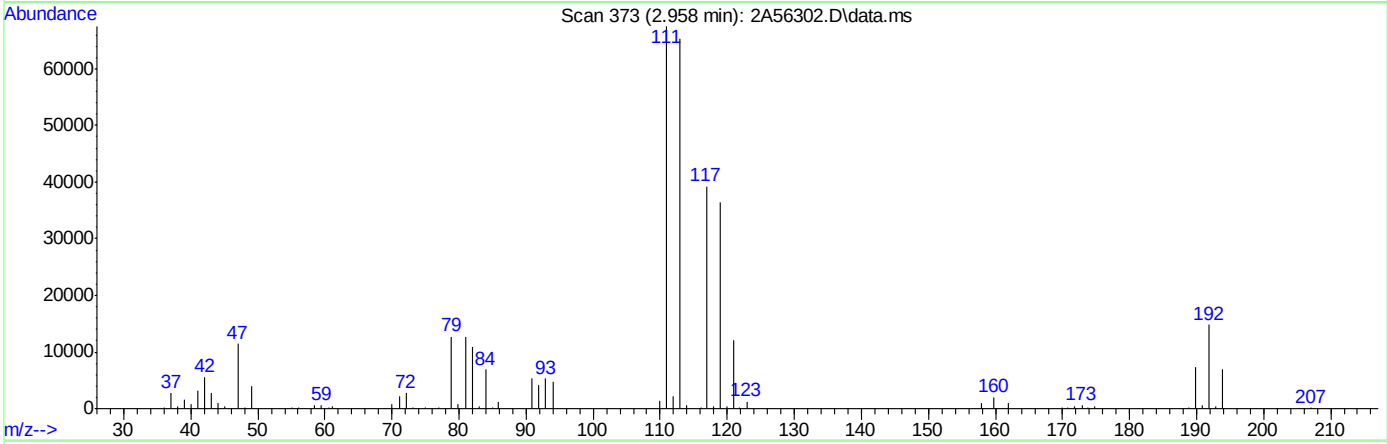
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	92.53
120.90	31.00	30.52
81.90	19.00	27.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 24.35ug/L m

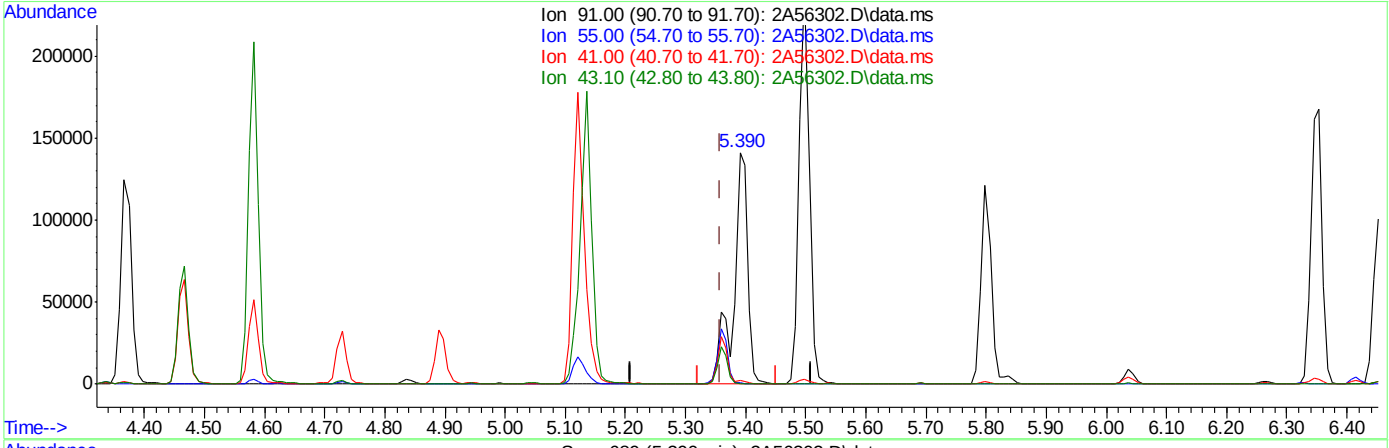
response 54674

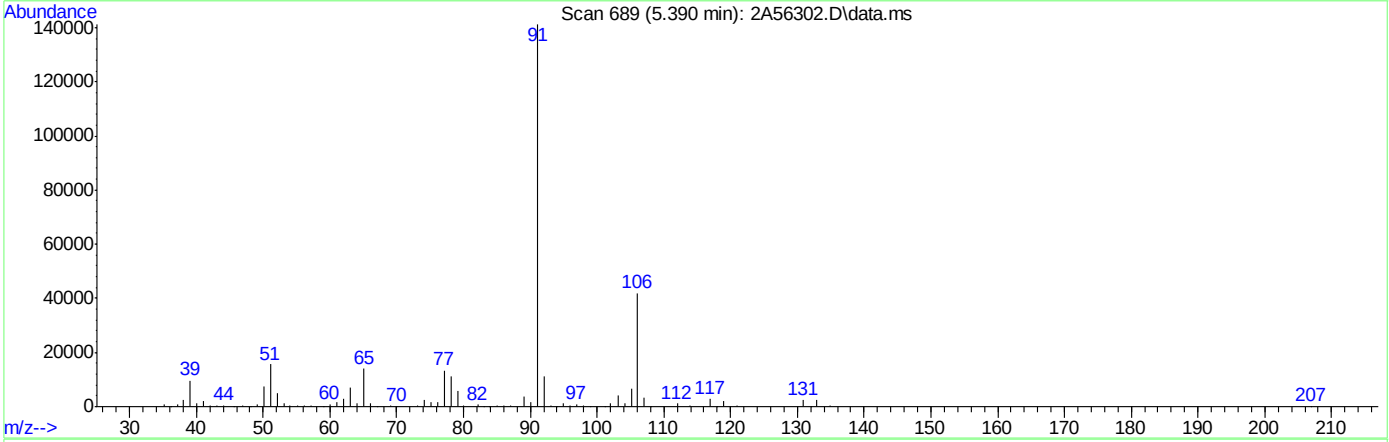
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	92.53
120.90	31.00	30.52
81.90	19.00	27.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 95.97ug/L

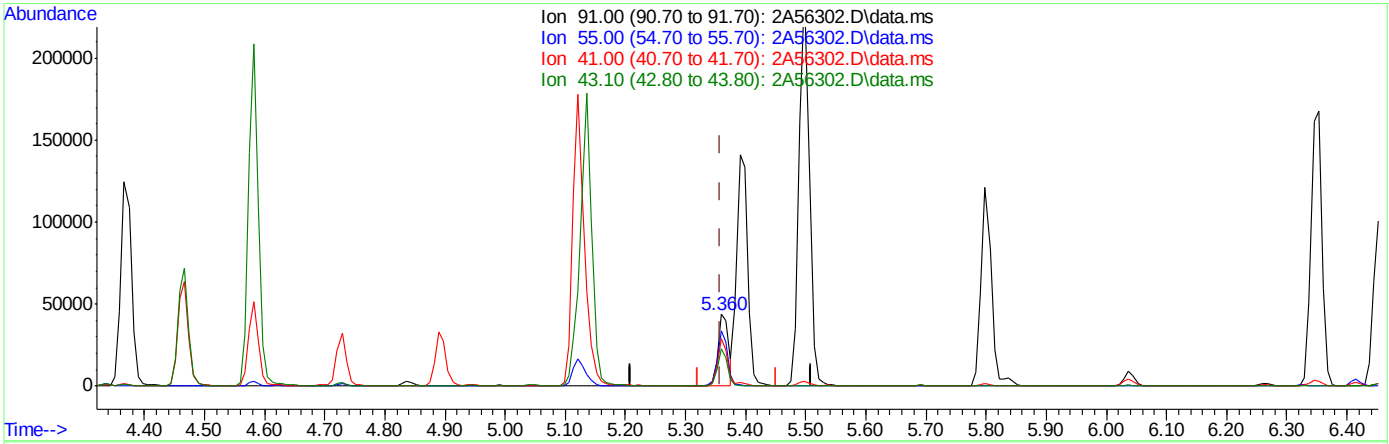
response 228785

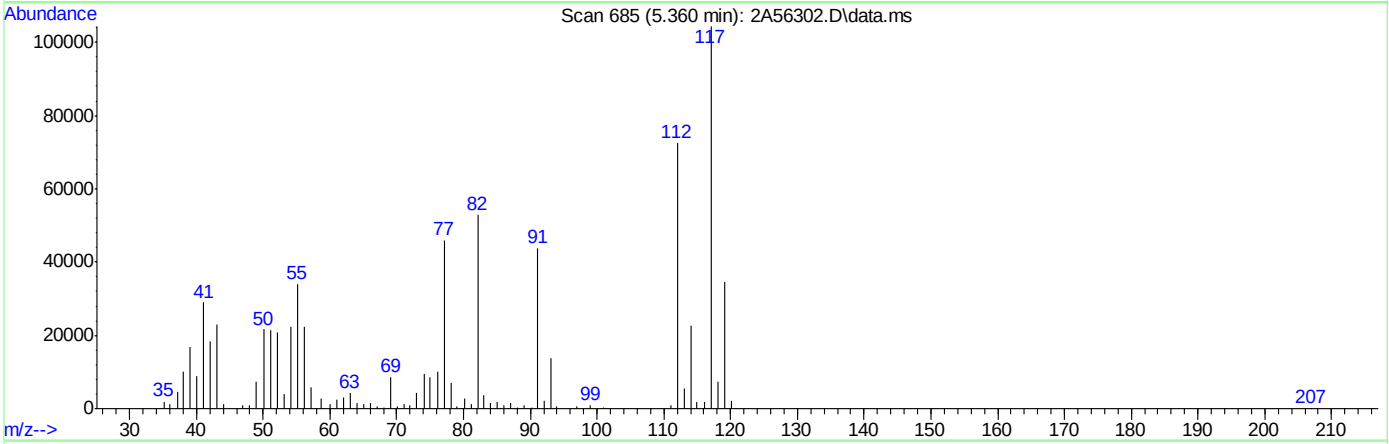
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.33#
41.00	39.20	1.19#
43.10	33.20	0.24#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 22.69ug/L m

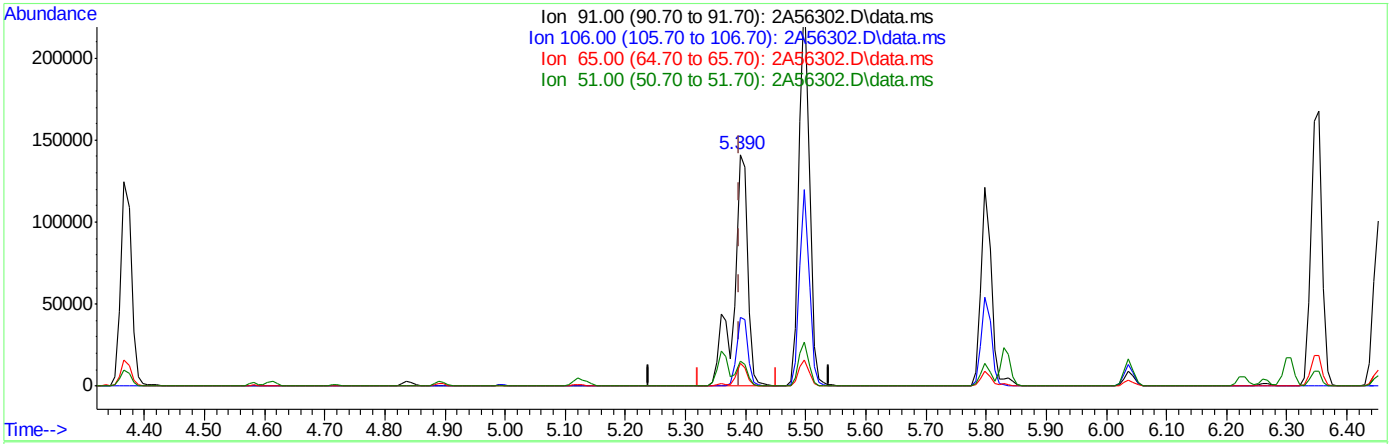
response 54086

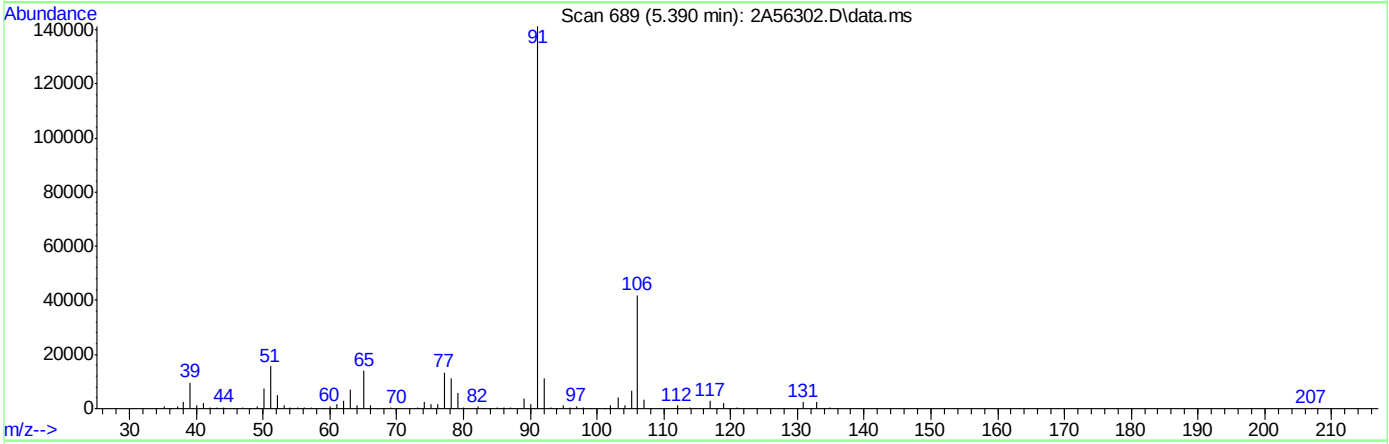
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.67
41.00	39.20	66.06#
43.10	33.20	52.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56302.D
Acq On : 26 Jun 2024 8:20 am
Operator : jeniferw
Sample : BS
Misc : MS56910,V2A1911,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 08:37:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56302.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 31.38ug/L

response 228785

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.75
65.00	7.10	9.96
51.00	7.10	11.04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47492.D
Acq On : 27 Jun 2024 8:10 am
Operator : lianatr
Sample : BS
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:27:17 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	399025	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	259709	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	133638	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.601	113	101462	49.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.06%			
49) 1,2-Dichloroethane-d4	8.180	65	122544	50.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.96%			
62) Toluene-d8	10.033	98	370377	51.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.12%			
86) 4-Bromofluorobenzene	12.807	95	111718	50.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	29479	23.64	ug/L	97
3) Chloromethane	3.132	50	44602	22.99	ug/L	98
4) Vinyl Chloride	3.266	62	56858	22.28	ug/L	98
5) 1,3-Butadiene	3.296	39	84291	27.05	ug/L	98
6) Bromomethane	3.772	94	40447	23.14	ug/L	98
7) Chloroethane	3.943	64	55948	30.16	ug/L	99
8) Trichlorofluoromethane	4.156	101	56179	22.71	ug/L	95
9) Ethyl Ether	4.583	59	28629	23.93	ug/L	92
10) Ethanol	4.772	45	17376	694.38	ug/L	90
11) 1,2-Dichlorotrifluoroe...	4.827	67	47138	37.29	ug/L	98
12) 1,1-Dichloroethene	4.857	61	55732	26.17	ug/L	96
13) Freon 113	4.900	101	37530	25.04	ug/L	95
14) Carbon Disulfide	4.918	76	92096	21.97	ug/L	96
15) Iodomethane	5.058	142	34021	20.96	ug/L	96
16) Acrolein	5.290	56	48780	144.25	ug/L	96
17) Allyl chloride	5.461	41	61706	25.91	ug/L	93
18) Methylene Chloride	5.589	49	59905	25.84	ug/L	97
19) Acetone	5.637	43	89883	127.68	ug/L	97
20) Methyl acetate	5.778	43	213328	116.43	ug/L	98
21) trans-1,2-Dichloroethene	5.790	61	53145	25.06	ug/L	94
22) Hexane	5.869	56	32781	23.86	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	99061	24.64	ug/L	99
24) Acetonitrile	6.211	41	70127	264.24	ug/L	98
25) Di-isopropyl ether	6.320	45	129545	24.07	ug/L	99
26) Chloroprene	6.485	53	49986	27.07	ug/L	99
27) 1,1-Dichloroethane	6.515	63	69804	24.83	ug/L	99
28) Acrylonitrile	6.570	53	96507	123.72	ug/L	98
29) ETBE	6.741	59	102323	23.74	ug/L	98
30) Tert Butyl Alcohol	5.973	59	80277	250.23	ug/L	97
31) Vinyl acetate	6.765	43	537957	114.22	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	39398	25.16	ug/L	98
33) 2,2-Dichloropropane	7.247	77	50649	27.97	ug/L	99
34) Bromochloromethane	7.351	128	17225	25.67	ug/L	93
35) Cyclohexane	7.363	56	68438	26.13	ug/L	99
36) Chloroform	7.405	83	66289	25.43	ug/L	99
37) Ethyl acetate	7.497	43	310049	127.16	ug/L	99
38) Tetrahydrofuran	7.594	42	21938	23.22	ug/L	99
40) Carbon Tetrachloride	7.582	117	41068	23.28	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	50896	25.42	ug/L	98
42) 2-Butanone	7.722	43	142424	108.83	ug/L	100
43) 1,1-Dichloropropene	7.777	75	51908	27.13	ug/L	97
44) tert-Butyl formate	7.869	59	103890	287.09	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47492.D
Acq On : 27 Jun 2024 8:10 am
Operator : lianatr
Sample : BS
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:27:17 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	93978	264.58	ug/L		98
46)	Methacrylonitrile	8.070	41	395221	250.96	ug/L		99
47)	Benzene	8.046	78	155317	24.31	ug/L		99
48)	TAME	8.113	73	97090	23.65	ug/L		99
50)	1,2-Dichloroethane	8.253	62	47210	24.42	ug/L		97
51)	tert Amyl alcohol	8.283	59	64609	268.43	ug/L		97
52)	Trichloroethene	8.637	95	39463	25.15	ug/L		94
53)	Methylcyclohexane	8.637	83	68160	23.99	ug/L		98
54)	Dibromomethane	9.082	93	23643	23.43	ug/L		96
55)	1,2-Dichloropropane	9.173	63	39721	26.45	ug/L		96
56)	Bromodichloromethane	9.216	83	41935	24.53	ug/L		95
57)	Methyl methacrylate	9.326	41	38098	22.50	ug/L		96
58)	1,4-Dioxane	9.405	88	14386	641.17	ug/L		96
59)	2-Chloroethyl vinyl ether	9.746	63	98902	130.50	ug/L		97
60)	cis-1,3-Dichloropropene	9.844	75	53179	23.79	ug/L		96
63)	Toluene	10.088	91	153554	24.93	ug/L		99
64)	Isobutyl alcohol	8.167	43	71183	654.86	ug/L		97
65)	2-Nitropropane	10.313	41	53549	163.89	ug/L		94
66)	4-Methyl-2-pentanone	10.423	43	311589	127.93	ug/L		99
67)	trans-1,3-Dichloropropene	10.484	75	43480	21.96	ug/L		92
68)	Tetrachloroethene	10.484	166	38304	25.77	ug/L		97
69)	Ethyl methacrylate	10.588	69	45245	23.98	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	28248	25.48	ug/L		97
71)	Dibromochloromethane	10.850	129	29769	24.51	ug/L		90
72)	1,3-Dichloropropane	10.935	76	56040	27.66	ug/L		99
73)	1,2-Dibromoethane	11.112	107	31471	24.51	ug/L		96
74)	3,3-Dimethyl-1-butanol	11.185	57	255465	1841.68	ug/L		99
75)	2-hexanone	11.246	43	224035	122.00	ug/L		99
76)	1-Chlorohexane	11.539	91	50547	28.47	ug/L		95
77)	Ethylbenzene	11.606	91	172224	23.95	ug/L		99
78)	Chlorobenzene	11.612	112	95630	24.62	ug/L		99
79)	1,1,1,2-Tetrachloroethane	11.661	131	29243	26.37	ug/L		99
80)	m,p-Xylene	11.746	91	248505	47.76	ug/L		99
81)	o-Xylene	12.185	91	117712	24.08	ug/L		99
82)	Styrene	12.240	104	87467	24.52	ug/L		98
83)	Bromoform	12.301	173	18372	25.85	ug/L		95
84)	Isopropylbenzene	12.490	105	143227	25.47	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.856	53	9231	26.99	ug/L	#	90
88)	n-Propylbenzene	12.910	91	181380	25.56	ug/L		99
89)	Bromobenzene	12.941	156	35482	27.10	ug/L		96
90)	1,1,2,2-Tetrachloroethane	12.978	83	49506	26.40	ug/L		98
91)	1,3,5-Trimethylbenzene	13.093	105	114072	25.99	ug/L		96
92)	2-Chlorotoluene	13.106	91	114226	24.69	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.166	53	9011	23.52	ug/L	#	66
94)	1,2,3-Trichloropropane	13.142	110	13386	28.04	ug/L		94
95)	Cyclohexanone	13.221	55	15296	245.57	ug/L		87
96)	4-Chlorotoluene	13.276	91	97534	24.98	ug/L		96
98)	tert-Butylbenzene	13.435	91	64017	25.72	ug/L		99
99)	1,2,4-Trimethylbenzene	13.502	105	108938	25.47	ug/L		97
100)	Pentachloroethane	13.490	167	17399	24.31	ug/L		97
101)	sec-Butylbenzene	13.618	105	140381	24.91	ug/L		99
102)	4-Isopropyltoluene	13.746	119	111598	26.48	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	61694	24.98	ug/L		96
104)	1,2,3-Trimethylbenzene	13.959	105	120926	24.86	ug/L		98
105)	1,4-Dichlorobenzene	13.965	146	69395	24.17	ug/L		97
106)	n-Butylbenzene	14.172	92	65431	27.15	ug/L		96
107)	Benzyl Chloride	14.197	126	12246	30.07	ug/L	#	78
108)	1,2-Dichlorobenzene	14.386	146	56554	25.21	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47492.D
Acq On : 27 Jun 2024 8:10 am
Operator : lianatr
Sample : BS
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:27:17 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

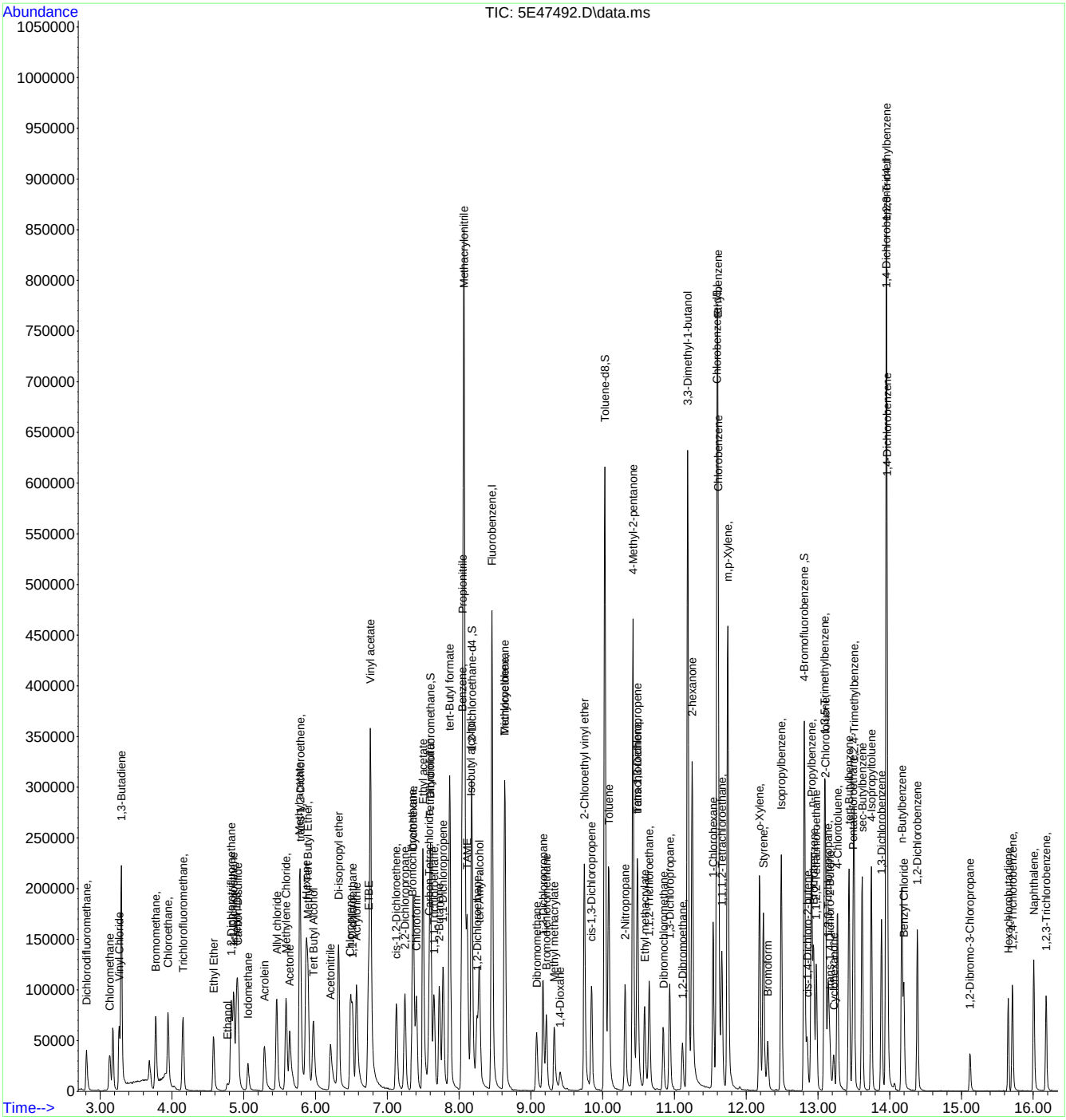
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6816	25.23	ug/L	95
110) Hexachlorobutadiene	15.654	225	13150	28.62	ug/L	89
111) 1,2,4-Trichlorobenzene	15.715	180	30418	26.87	ug/L	94
112) Naphthalene	16.007	128	90409	25.55	ug/L	94
113) 1,2,3-Trichlorobenzene	16.178	180	26804	26.28	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47492.D
Acq On : 27 Jun 2024 8:10 am
Operator : lianatr
Sample : BS
Misc : MS56921,V5E2116,,,,,10
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:27:17 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:24:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	274779	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	198399	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	118362	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	77092	48.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.18%			
49) 1,2-Dichloroethane-d4	3.235	65	95961	50.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.92%			
63) Toluene-d8	4.336	98	271447	50.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.94%			
86) 4-Bromofluorobenzene	6.229	174	90903	48.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.026	85	34779	25.6095	ug/L	98
3) Chloromethane	1.134	50	35702	22.8355	ug/L	98
4) 1,3-butadiene	1.188	39	46137	24.6601	ug/L #	78
5) Vinyl Chloride	1.173	62	37062	23.4489	ug/L	99
6) Bromomethane	1.350	94	12271	17.8612	ug/L	93
7) Chloroethane	1.419	64	20551	24.0809	ug/L	95
8) Trichlorofluoromethane	1.496	101	52634	25.0602	ug/L	100
9) Ethyl Ether	1.658	59	25241	22.5669	ug/L	88
10) Ethanol	1.711	45	9999	582.8867	ug/L	87
11) 1,2-Dichlorotrifluoroe...	1.750	67	40019	37.0615	ug/L	93
12) 1,1-Dichloroethene	1.758	61	50789	23.7781	ug/L	82
13) Freon 113	1.788	101	32025	25.3248	ug/L #	87
14) Carbon Disulfide	1.781	76	80227	20.8932	ug/L	77
15) Iodomethane	1.835	142	17300	17.7159	ug/L	89
16) Acrolein	1.912	56	36107	137.5051	ug/L	96
17) Allyl chloride	1.996	41	46789	22.4075	ug/L	79
18) Methylene Chloride	2.042	49	46941	24.0283	ug/L #	65
19) Acetone	2.050	43	63152	114.3682	ug/L	80
20) Methyl acetate	2.127	43	159703	116.8599	ug/L	87
21) trans-1,2-Dichloroethene	2.135	61	48675	22.9442	ug/L	76
22) Hexane	2.196	56	32292	25.5443	ug/L #	79
23) Methyl Tert Butyl Ether	2.196	73	92855	24.1164	ug/L	74
24) Acetonitrile	2.273	41	48112	259.6932	ug/L	96
25) Tert Butyl Alcohol	2.212	59	78439	356.2879	ug/L	80
26) Di-isopropyl ether	2.396	45	103483	23.7700	ug/L	86
27) Chloroprene	2.443	53	132826	23.2844	ug/L	92
28) 1,1-Dichloroethane	2.443	63	61608	22.7350	ug/L	97
29) Acrylonitrile	2.443	52	81033	117.7479	ug/L	97
30) ETBE	2.581	59	99172	24.0448	ug/L	91
31) Vinyl acetate	2.558	43	415023	126.0280	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	51906	34.7393	ug/L #	76
33) 2,2-Dichloropropane	2.781	77	48374	22.0752	ug/L	93
34) Bromochloromethane	2.820	128	17334	22.7417	ug/L #	54
35) Cyclohexane	2.858	56	61333	24.3880	ug/L #	79
36) Chloroform	2.858	83	62311	24.8534	ug/L	92
37) Ethyl acetate	2.912	43	214865	119.0521	ug/L	89
38) Tetrahydrofuran	2.943	42	15731	24.4578	ug/L #	82
40) Carbon Tetrachloride	2.958	117	49510m	23.6434	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	54918	22.8504	ug/L	93
42) 2-Butanone	3.004	43	102037	113.5255	ug/L	82
43) 1,1-Dichloropropene	3.051	75	48596	25.6646	ug/L	75
44) tert-Butyl formate	3.097	59	3908	3.4708	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:24:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.143	54	62692	243.7055	ug/L		99
46) Methacrylonitrile	3.166	41	245944	242.9965	ug/L		93
47) Benzene	3.181	78	129776	23.3568	ug/L		85
48) TAME	3.251	73	84670	23.4902	ug/L		85
50) 1,2-Dichloroethane	3.274	62	48812	24.0388	ug/L		96
51) Isobutyl Alcohol	3.258	43	73252	528.6102	ug/L		95
52) Tert Amyl Alcohol	3.320	59	50462	287.0580	ug/L		89
53) Trichloroethene	3.512	95	37969	23.9636	ug/L		91
54) Methylcyclohexane	3.528	83	65280	26.6114	ug/L	#	81
55) Dibromomethane	3.736	93	22857	23.7978	ug/L	#	82
56) 1,2-Dichloropropane	3.789	63	35496	24.7292	ug/L		87
57) Bromodichloromethane	3.828	83	43657	21.7369	ug/L	#	95
58) Methyl methacrylate	3.920	41	32795	24.2625	ug/L	#	68
59) 1,4-Dioxane	3.936	88	9378	676.8778	ug/L		86
61) cis-1,3-Dichloropropene	4.205	75	51476	23.6272	ug/L		78
64) Toluene	4.367	91	140970	23.6820	ug/L		100
65) 2-Nitropropane	4.467	41	67324	128.5409	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	217800	122.6152	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	44373	22.5499	ug/L		79
68) Tetrachloroethene	4.628	166	36959	24.0164	ug/L		92
69) Ethyl methacrylate	4.728	69	39326	22.3063	ug/L	#	69
70) 1,1,2-Trichloroethane	4.713	83	26179	23.4111	ug/L		86
71) Dibromochloromethane	4.836	129	33959	24.4616	ug/L		99
72) 1,3-Dichloropropane	4.890	76	51876	26.6732	ug/L		73
73) 1,2-Dibromoethane	4.990	107	32596	24.5467	ug/L		93
74) 3,3-Dimethyl-1-Butanol	5.121	57	297047	1357.0164	ug/L		94
75) 2-hexanone	5.136	43	218482	126.8080	ug/L		77
76) 1-Chlorohexane	5.359	91	50265m	22.2898	ug/L		
77) Ethylbenzene	5.398	91	159779m	23.1679	ug/L		
78) Chlorobenzene	5.367	112	89791	23.3149	ug/L		91
79) 1,1,1,2-Tetrachloroethane	5.406	131	31942	24.3190	ug/L		98
80) m,p-Xylene	5.498	91	255192	45.2521	ug/L		93
81) o-Xylene	5.798	91	131919	22.3380	ug/L		90
82) Styrene	5.837	104	97742	22.9509	ug/L		92
83) Bromoform	5.837	173	21501	21.8405	ug/L		94
84) Isopropylbenzene	6.037	105	159415	22.9195	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	9800	19.7434	ug/L	#	71
88) n-Propylbenzene	6.352	91	200081	22.9222	ug/L		90
89) Bromobenzene	6.306	156	39363	23.7796	ug/L	#	75
90) 1,1,2,2-Tetrachloroethane	6.368	83	45824	23.5127	ug/L		97
91) 1,3,5-Trimethylbenzene	6.506	105	136353	23.0018	ug/L		97
92) 2-Chlorotoluene	6.452	91	108910	22.6061	ug/L		93
93) trans-1,4-Dichloro-2-B...	6.506	53	13825	22.0253	ug/L	#	66
94) 1,2,3-Trichloropropane	6.468	110	13039	25.5407	ug/L	#	77
95) Cyclohexanone	6.483	55	8963	153.4446	ug/L		80
96) 4-Chlorotoluene	6.575	91	116521	22.5881	ug/L		89
97) tert-Butylbenzene	6.745	91	82643	23.1764	ug/L		84
98) 1,2,4-Trimethylbenzene	6.799	105	129606	23.3719	ug/L		98
99) Pentachloroethane	6.745	167	20653	23.1205	ug/L	#	58
100) sec-Butylbenzene	6.891	105	171679	22.8664	ug/L		94
101) 4-Isopropyltoluene	7.007	119	148038	23.2198	ug/L		94
102) 1,3-Dichlorobenzene	7.037	146	74313	23.0813	ug/L		95
103) 1,2,3-Trimethylbenzene	7.137	105	128557	23.3910	ug/L		96
104) 1,4-Dichlorobenzene	7.107	146	74107	23.0110	ug/L		95
105) n-Butylbenzene	7.337	92	73003	25.0359	ug/L		93
106) Benzyl Chloride	7.291	126	14749	20.6110	ug/L	#	67
107) 1,2-Dichlorobenzene	7.422	146	67871	23.5008	ug/L		90
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9487	24.0106	ug/L	#	55

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:24:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

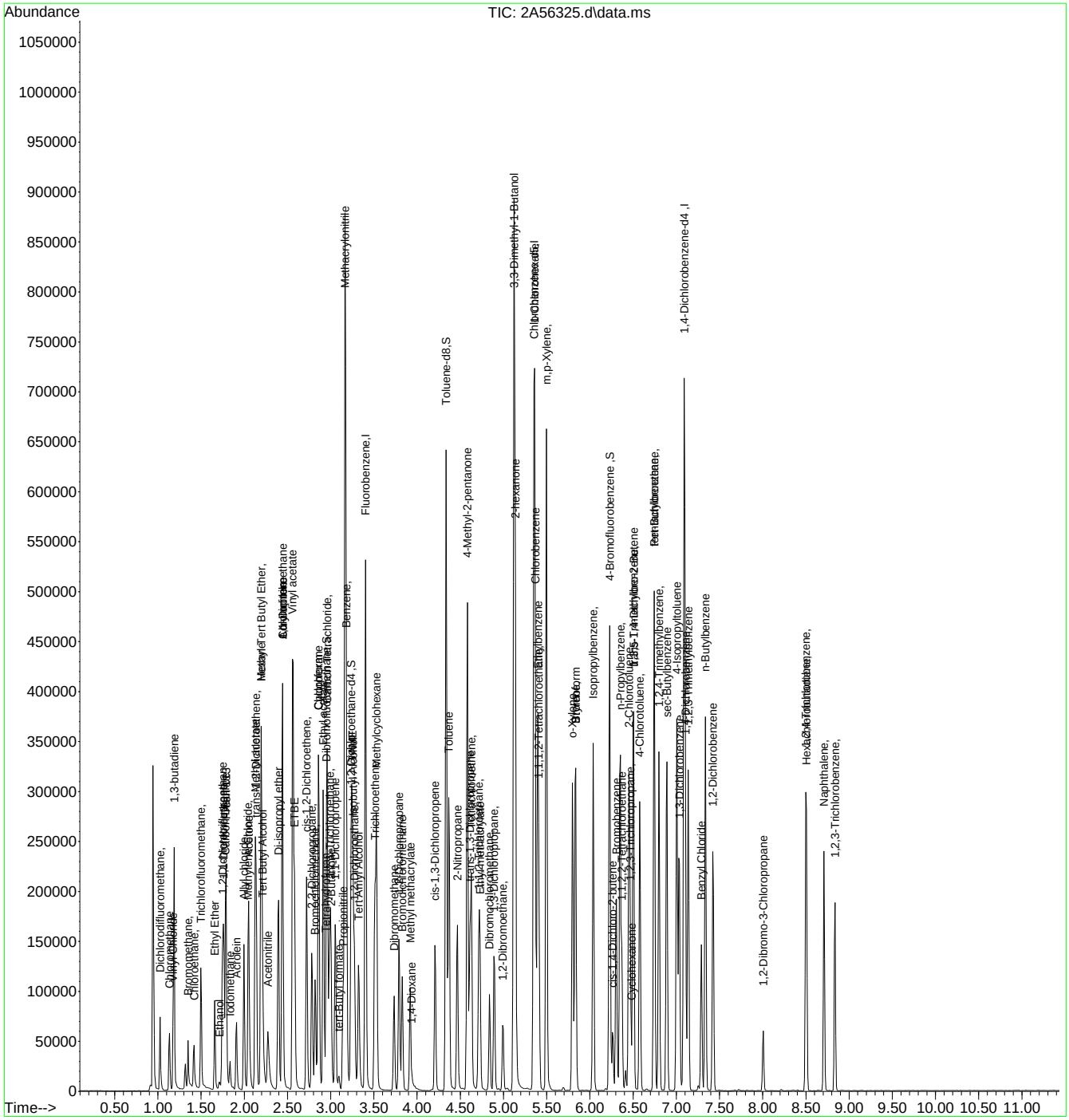
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	8.507	225	19599	23.9564	ug/L	87
110) 1,2,4-Trichlorobenzene	8.500	180	41179	23.4347	ug/L	97
111) Naphthalene	8.707	128	109351	22.7799	ug/L	100
112) 1,2,3-Trichlorobenzene	8.838	180	37112	23.6253	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:24:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC16561-5MS
Lab FileID: 2A56325.D
Injection Time: 06/26/24 17:32

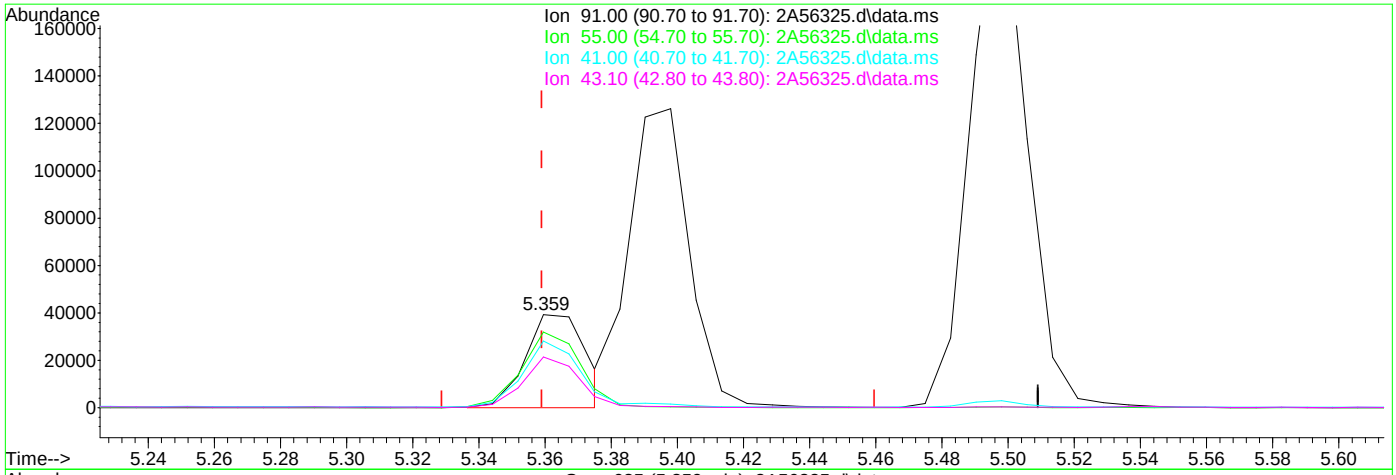
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/27/24 08:22 Karen Watson

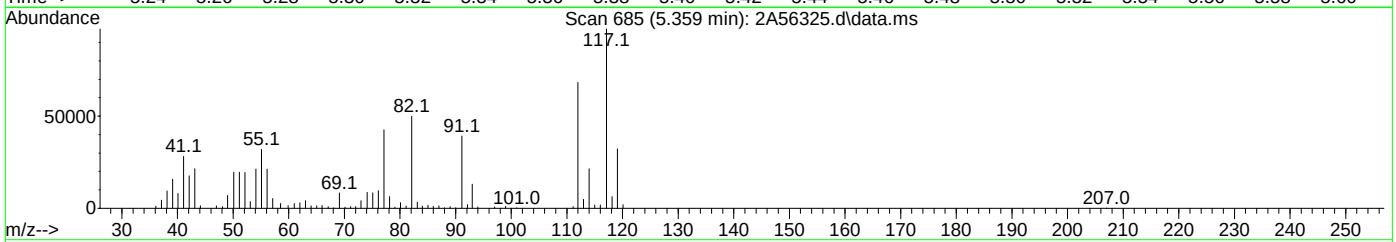
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.40	Overlapping peak

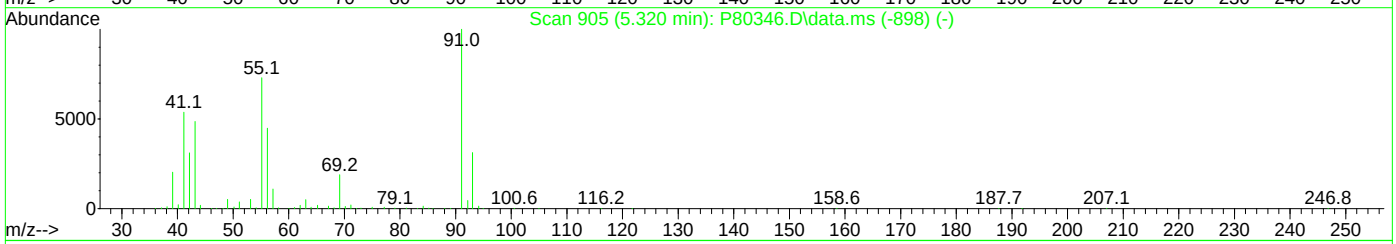
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:01:02 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56325.d\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 22.29ug/L m

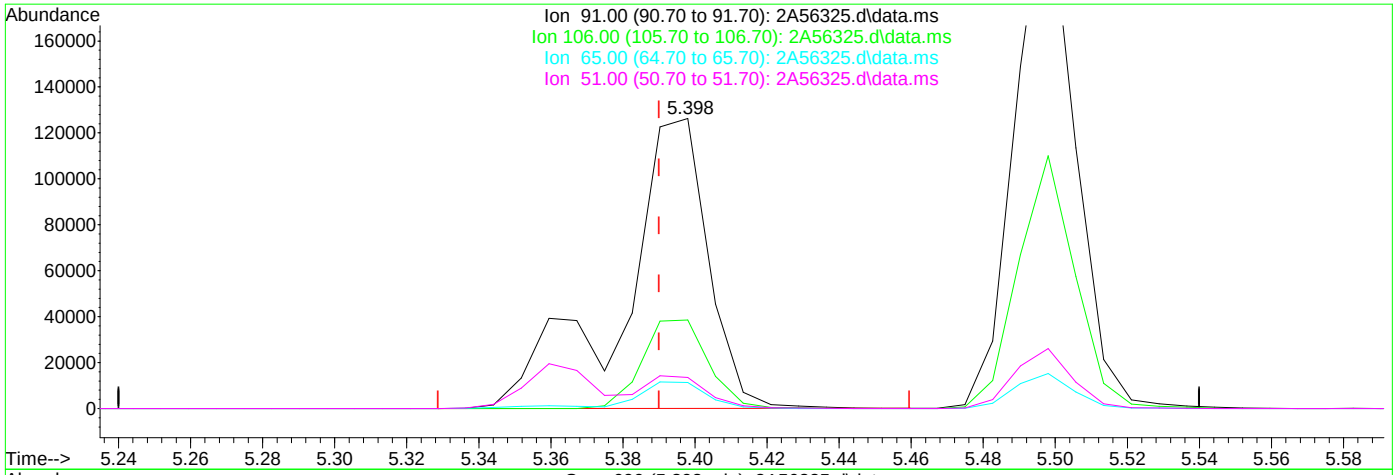
response 50265

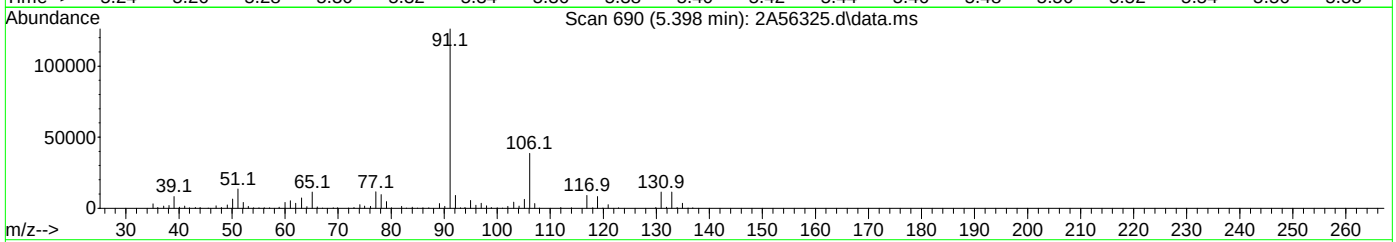
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	81.44#
41.00	39.20	71.54#
43.10	33.20	54.34#

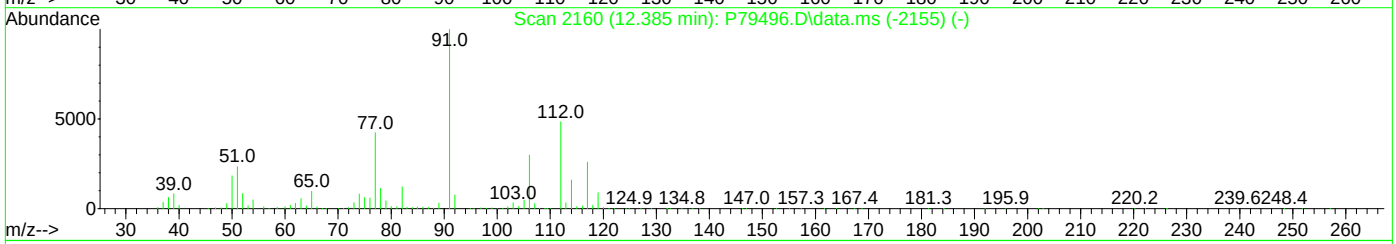
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:01:02 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56325.d\data.ms

(77) Ethylbenzene

5.398min (+0.008) 30.47ug/L

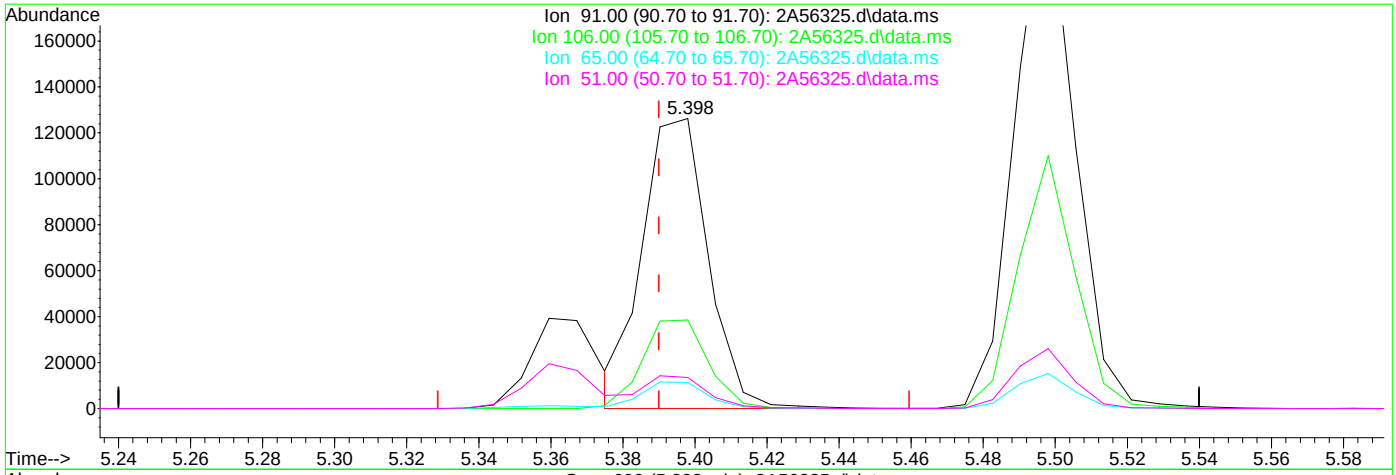
response 210152

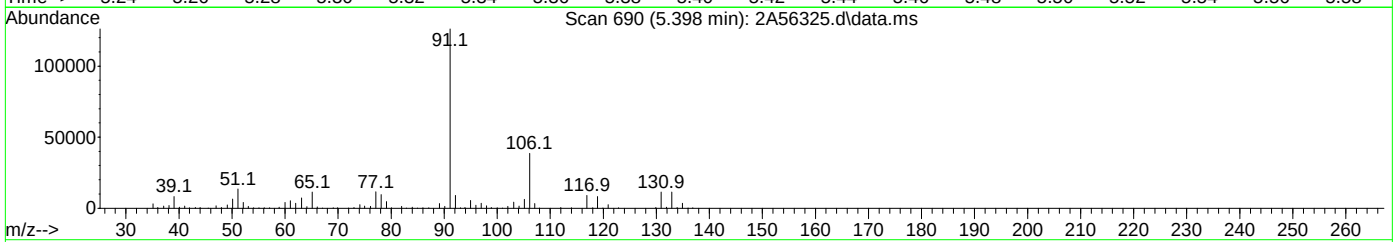
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.55
65.00	7.10	8.99
51.00	7.10	10.73

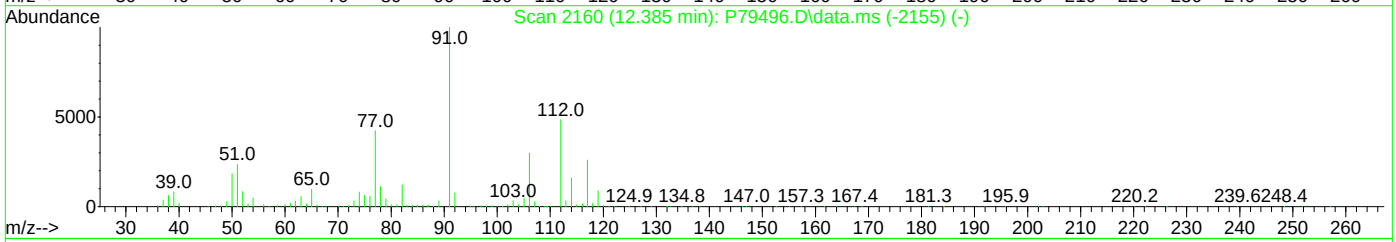
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56325.d
Acq On : 26 Jun 2024 5:32 pm
Operator : jeniferw
Sample : FC16561-5MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 27 06:01:02 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56325.d\data.ms

(77) Ethylbenzene

5.398min (+0.008) 23.17ug/L m

response 159779

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.55
65.00	7.10	8.99
51.00	7.10	10.73

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:53:24 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	272129	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	194718	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	116425	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	76618	48.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.54%			
49) 1,2-Dichloroethane-d4	3.235	65	95065	50.48	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.96%			
63) Toluene-d8	4.336	98	269774	51.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.22%			
86) 4-Bromofluorobenzene	6.229	174	89748	48.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.026	85	37287	27.7236	ug/L	98
3) Chloromethane	1.134	50	37322	24.1041	ug/L	99
4) 1,3-butadiene	1.188	39	48049	26.0155	ug/L #	73
5) Vinyl Chloride	1.180	62	38732	24.7441	ug/L	99
6) Bromomethane	1.350	94	14868	21.8520	ug/L	95
7) Chloroethane	1.419	64	21164	25.1266	ug/L	94
8) Trichlorofluoromethane	1.504	101	55200	26.5379	ug/L	98
9) Ethyl Ether	1.665	59	23560	21.2691	ug/L	92
10) Ethanol	1.711	45	10770	633.9456	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.750	67	38437	35.9431	ug/L	89
12) 1,1-Dichloroethene	1.765	61	48658	23.0022	ug/L	87
13) Freon 113	1.788	101	30684	24.5006	ug/L #	84
14) Carbon Disulfide	1.788	76	76334	20.0730	ug/L	82
15) Iodomethane	1.835	142	22271	22.7242	ug/L	89
16) Acrolein	1.912	56	34267	131.7687	ug/L	96
17) Allyl chloride	1.996	41	52006	25.1485	ug/L	79
18) Methylene Chloride	2.050	49	43862	22.6708	ug/L #	73
19) Acetone	2.058	43	67324	123.1110	ug/L	82
20) Methyl acetate	2.127	43	148433	109.6709	ug/L	87
21) trans-1,2-Dichloroethene	2.142	61	47106	22.4209	ug/L	80
22) Hexane	2.196	56	30566	24.4145	ug/L #	76
23) Methyl Tert Butyl Ether	2.196	73	86435	22.6676	ug/L	82
24) Acetonitrile	2.273	41	52421	285.7072	ug/L	97
25) Tert Butyl Alcohol	2.212	59	76292	349.9103	ug/L	60
26) Di-isopropyl ether	2.396	45	96620	22.4097	ug/L	86
27) Chloroprene	2.443	53	133879	23.6976	ug/L	92
28) 1,1-Dichloroethane	2.443	63	58704	21.8743	ug/L	97
29) Acrylonitrile	2.443	52	78082	114.5647	ug/L	94
30) ETBE	2.581	59	93263	22.8324	ug/L	91
31) Vinyl acetate	2.566	43	392308	120.2903	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	50408	34.0388	ug/L #	74
33) 2,2-Dichloropropane	2.789	77	46507	21.4298	ug/L	94
34) Bromochloromethane	2.827	128	15892	21.0529	ug/L #	72
35) Cyclohexane	2.866	56	58823	23.6177	ug/L #	83
36) Chloroform	2.866	83	59163	23.8276	ug/L	96
37) Ethyl acetate	2.912	43	201613	112.7973	ug/L	89
38) Tetrahydrofuran	2.951	42	13464	21.1370	ug/L	82
40) Carbon Tetrachloride	2.966	117	47174m	22.7472	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	51770	21.7503	ug/L	93
42) 2-Butanone	3.004	43	103334	116.0881	ug/L	82
43) 1,1-Dichloropropene	3.058	75	45453	24.2385	ug/L	82
44) tert-Butyl formate	3.097	59	3412	3.0598	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:53:24 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.143	54	67476	264.8569	ug/L		100
46) Methacrylonitrile	3.166	41	264603	263.9777	ug/L		95
47) Benzene	3.181	78	124136	22.5593	ug/L		81
48) TAME	3.251	73	80362	22.5122	ug/L		83
50) 1,2-Dichloroethane	3.274	62	45389	22.5707	ug/L		96
51) Isobutyl Alcohol	3.258	43	74748	544.6586	ug/L		96
52) Tert Amyl Alcohol	3.320	59	49201	282.6102	ug/L		90
53) Trichloroethene	3.512	95	36082	22.9944	ug/L		90
54) Methylcyclohexane	3.528	83	62660	25.7921	ug/L	#	80
55) Dibromomethane	3.736	93	21574	22.6807	ug/L		82
56) 1,2-Dichloropropane	3.789	63	33714	23.7164	ug/L		88
57) Bromodichloromethane	3.828	83	41038	20.6319	ug/L	#	95
58) Methyl methacrylate	3.920	41	35287	26.3604	ug/L	#	67
59) 1,4-Dioxane	3.936	88	9247	673.9220	ug/L		92
61) cis-1,3-Dichloropropene	4.205	75	48422	22.4419	ug/L		74
64) Toluene	4.367	91	133354	22.8260	ug/L		100
65) 2-Nitropropane	4.467	41	62641	121.8607	ug/L		90
66) 4-Methyl-2-pentanone	4.582	43	225039	129.0855	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	41397	21.4353	ug/L		79
68) Tetrachloroethene	4.628	166	34750	23.0078	ug/L		90
69) Ethyl methacrylate	4.728	69	42100	24.3312	ug/L	#	68
70) 1,1,2-Trichloroethane	4.713	83	24438	22.2673	ug/L		86
71) Dibromochloromethane	4.836	129	31632	23.2162	ug/L		98
72) 1,3-Dichloropropane	4.890	76	48820	25.5764	ug/L		72
73) 1,2-Dibromoethane	4.990	107	31062	23.8337	ug/L		92
74) 3,3-Dimethyl-1-Butanol	5.121	57	295259	1374.3472	ug/L		94
75) 2-hexanone	5.136	43	223896	132.4069	ug/L		77
76) 1-Chlorohexane	5.359	91	48094m	21.7303	ug/L		
77) Ethylbenzene	5.390	91	151704m	22.4129	ug/L		
78) Chlorobenzene	5.367	112	85113	22.5180	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.406	131	30098	23.3482	ug/L		97
80) m,p-Xylene	5.498	91	245132	44.2900	ug/L		93
81) o-Xylene	5.798	91	124059	21.4041	ug/L		92
82) Styrene	5.837	104	92546	22.1416	ug/L		91
83) Bromoform	5.837	173	20487	21.2039	ug/L		94
84) Isopropylbenzene	6.037	105	150192	22.0017	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.260	53	9835	20.1436	ug/L	#	65
88) n-Propylbenzene	6.352	91	190348	22.1700	ug/L		91
89) Bromobenzene	6.306	156	37001	22.7246	ug/L	#	75
90) 1,1,2,2-Tetrachloroethane	6.368	83	42580	22.2117	ug/L		96
91) 1,3,5-Trimethylbenzene	6.506	105	129960	22.2881	ug/L		97
92) 2-Chlorotoluene	6.452	91	103548	21.8507	ug/L		93
93) trans-1,4-Dichloro-2-B...	6.499	53	13272	21.4960	ug/L	#	59
94) 1,2,3-Trichloropropane	6.468	110	12808	25.5056	ug/L	#	73
95) Cyclohexanone	6.483	55	8832	153.7175	ug/L	#	79
96) 4-Chlorotoluene	6.576	91	109642	21.6082	ug/L		88
97) tert-Butylbenzene	6.745	91	77282	22.0336	ug/L		84
98) 1,2,4-Trimethylbenzene	6.799	105	124811	22.8817	ug/L		96
99) Pentachloroethane	6.745	167	22082	25.1315	ug/L	#	78
100) sec-Butylbenzene	6.891	105	163933	22.1979	ug/L		94
101) 4-Isopropyltoluene	7.007	119	140449	22.3960	ug/L		94
102) 1,3-Dichlorobenzene	7.037	146	69553	21.9623	ug/L		94
103) 1,2,3-Trimethylbenzene	7.137	105	121391	22.4546	ug/L		96
104) 1,4-Dichlorobenzene	7.107	146	71404	22.5406	ug/L		94
105) n-Butylbenzene	7.337	92	70481	24.5732	ug/L		96
106) Benzyl Chloride	7.291	126	13197	18.7490	ug/L	#	67
107) 1,2-Dichlorobenzene	7.422	146	64067	22.5527	ug/L		90
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9056	23.3011	ug/L	#	56

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:53:24 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

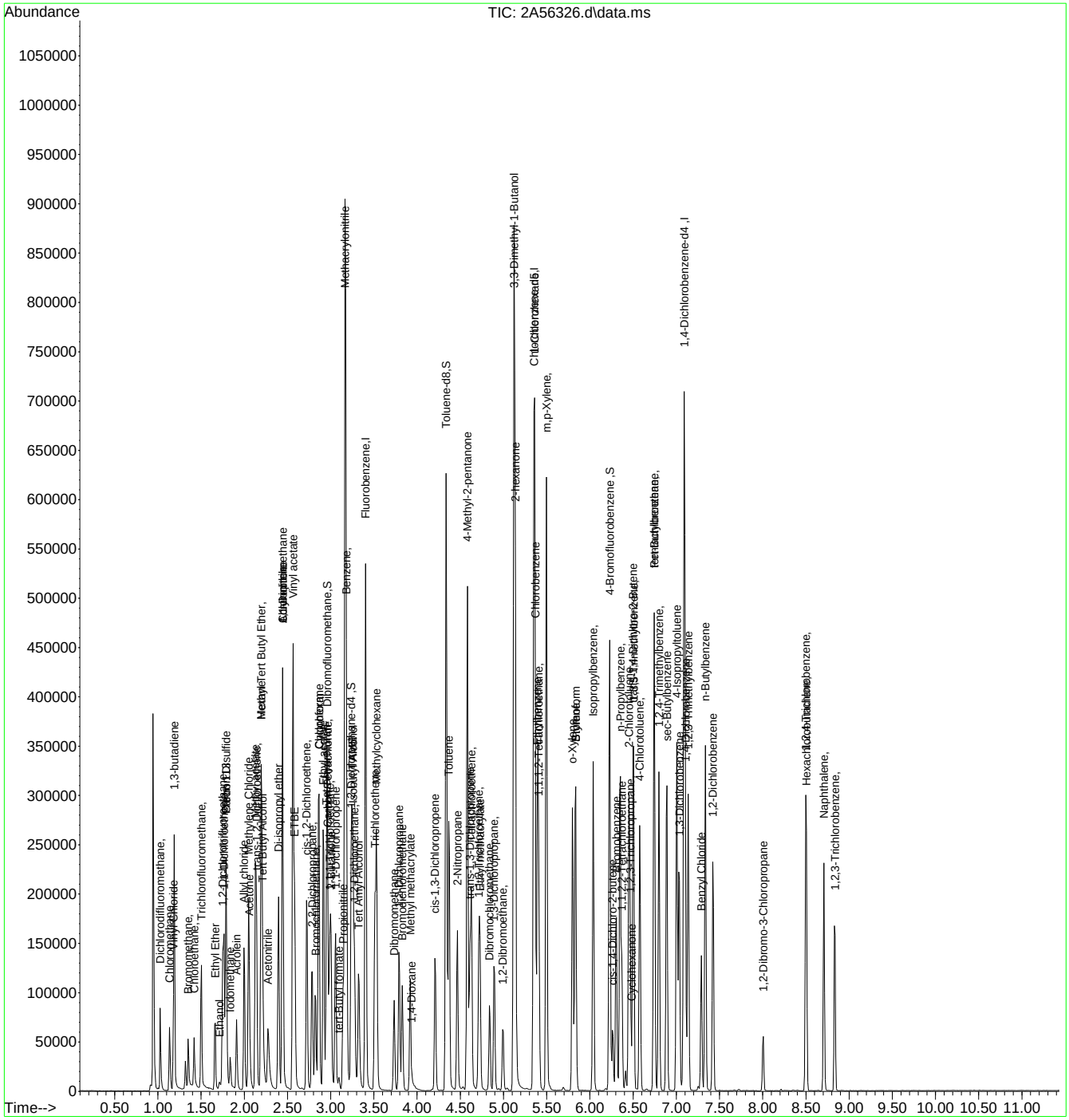
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	8.507	225	19153	23.8007	ug/L	89
110) 1,2,4-Trichlorobenzene	8.500	180	39952	23.1147	ug/L	97
111) Naphthalene	8.707	128	105781	22.4028	ug/L	100
112) 1,2,3-Trichlorobenzene	8.838	180	34858	22.5596	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:53:24 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC16561-5MSD
Lab FileID: 2A56326.D
Injection Time: 06/26/24 17:56

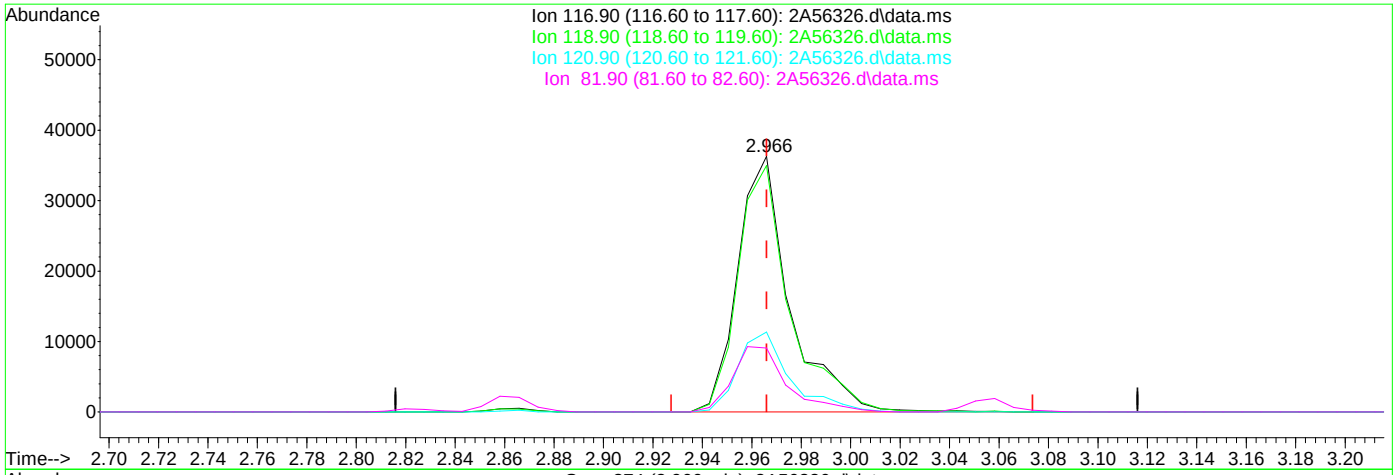
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/27/24 08:22 Karen Watson

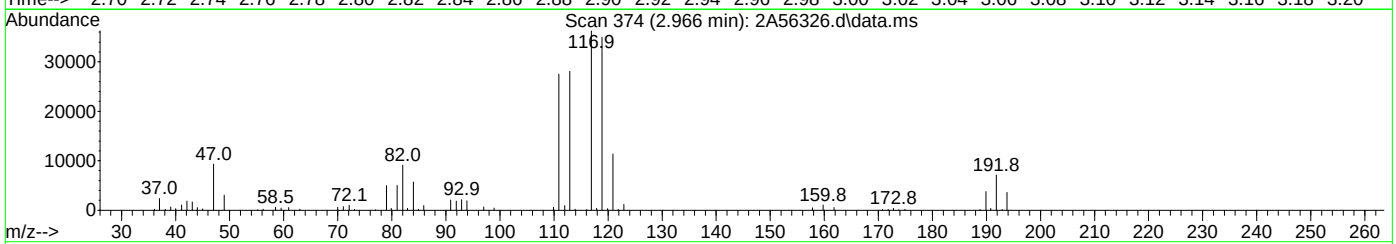
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

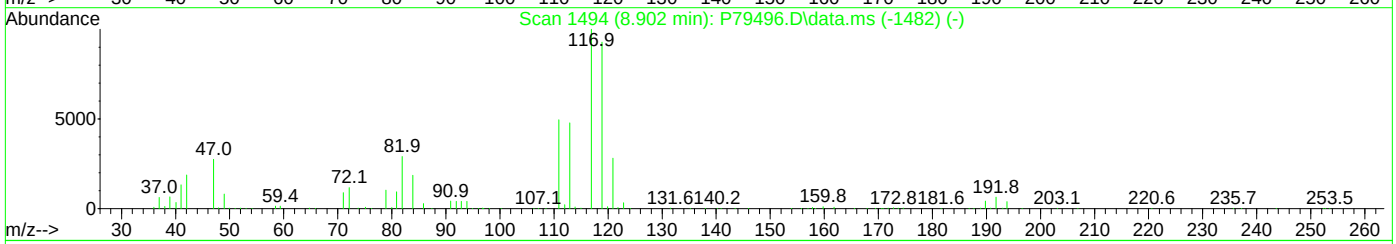
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 25.70ug/L

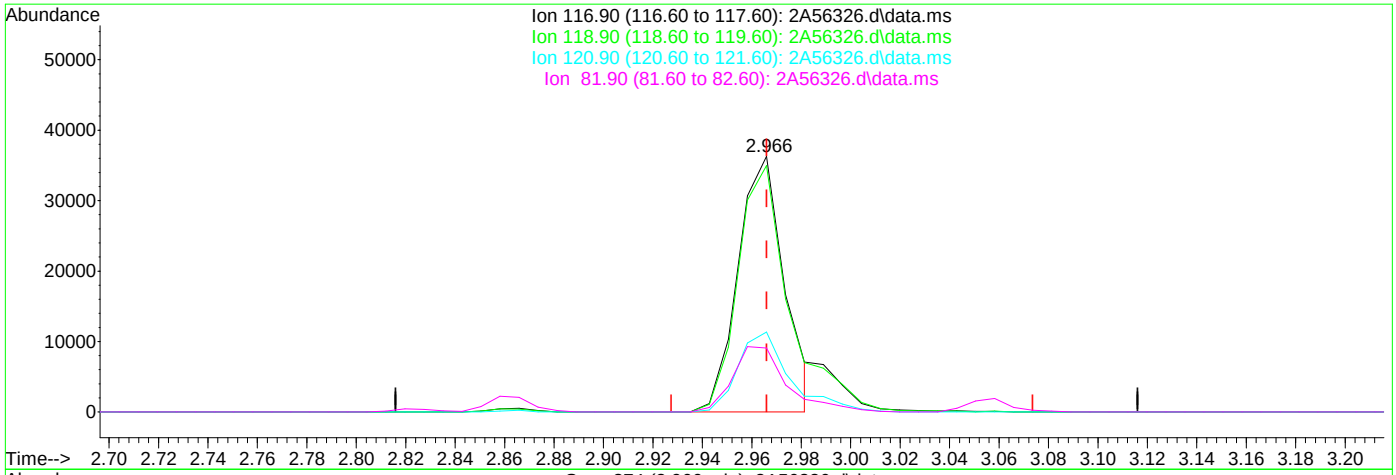
response 53298

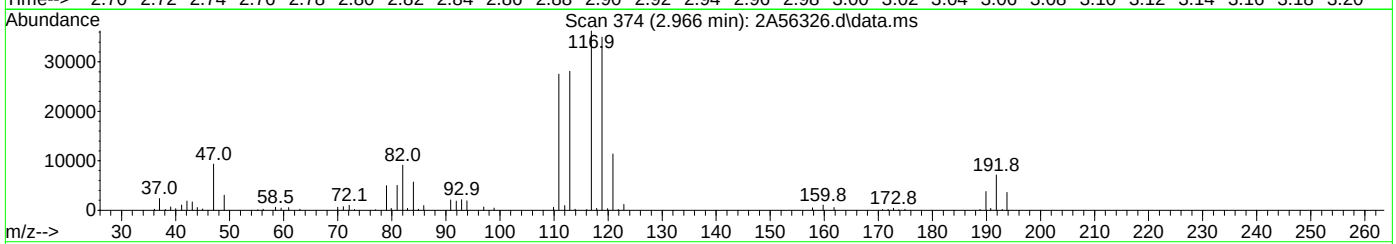
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.43
120.90	31.00	31.33
81.90	19.00	25.06

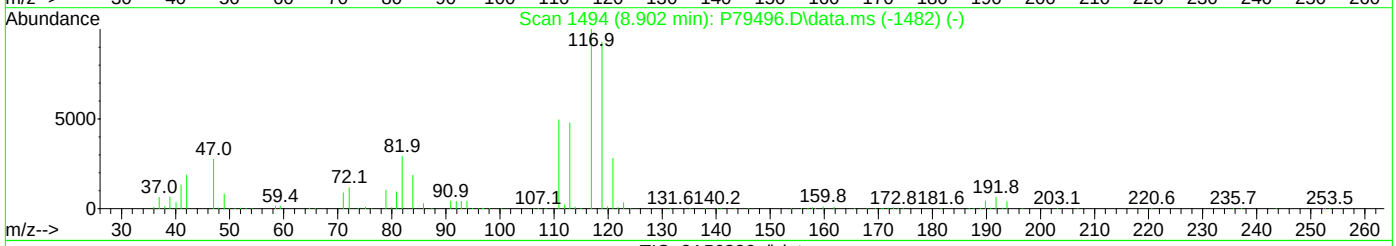
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 22.75ug/L m

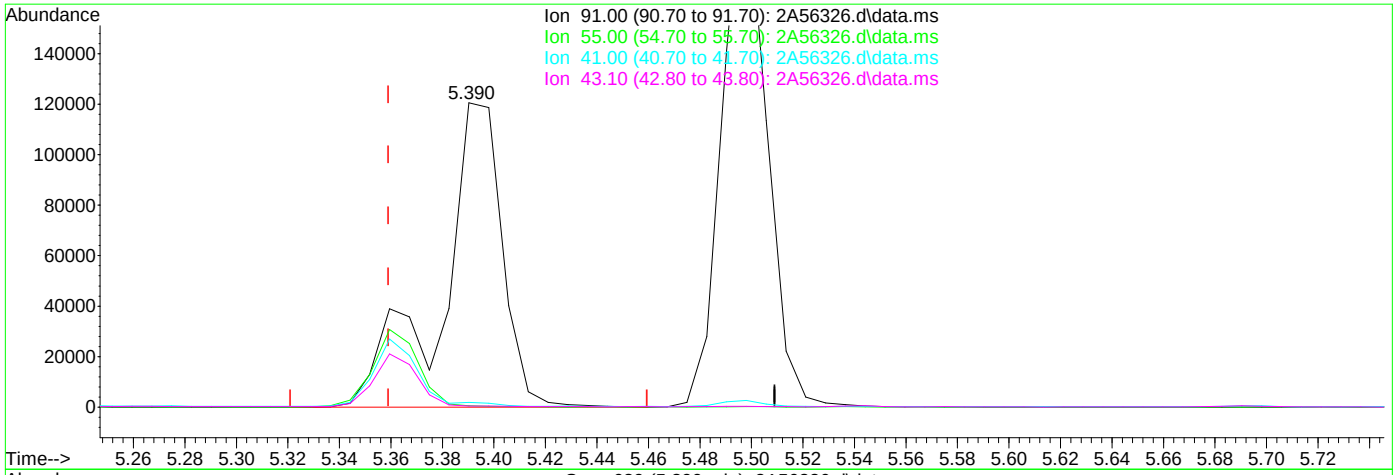
response 47174

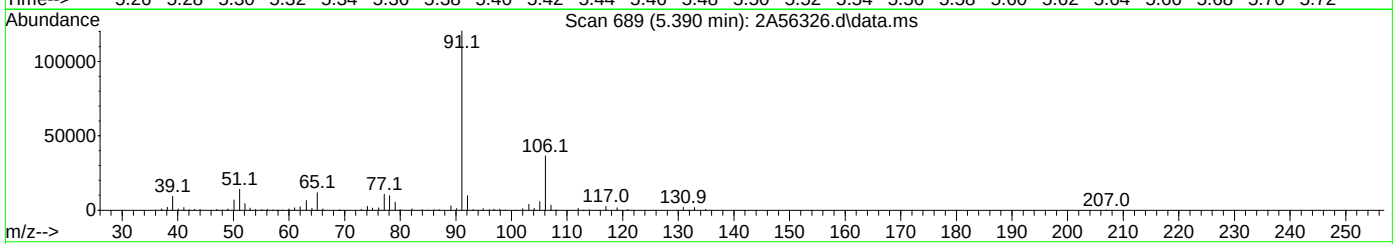
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.43
120.90	31.00	31.33
81.90	19.00	25.06

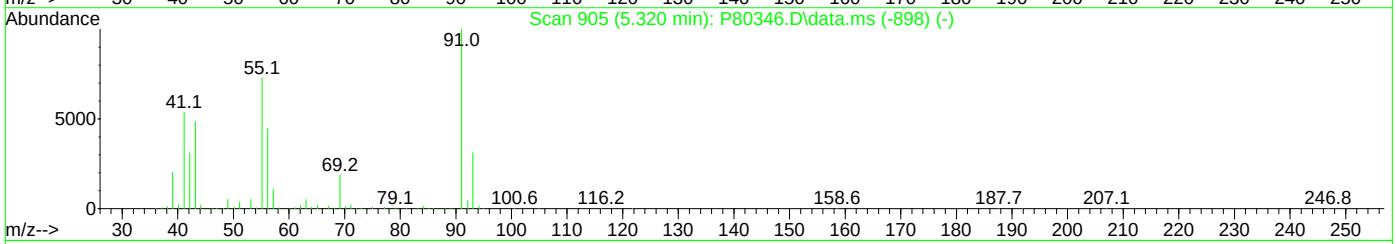
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 90.28ug/L

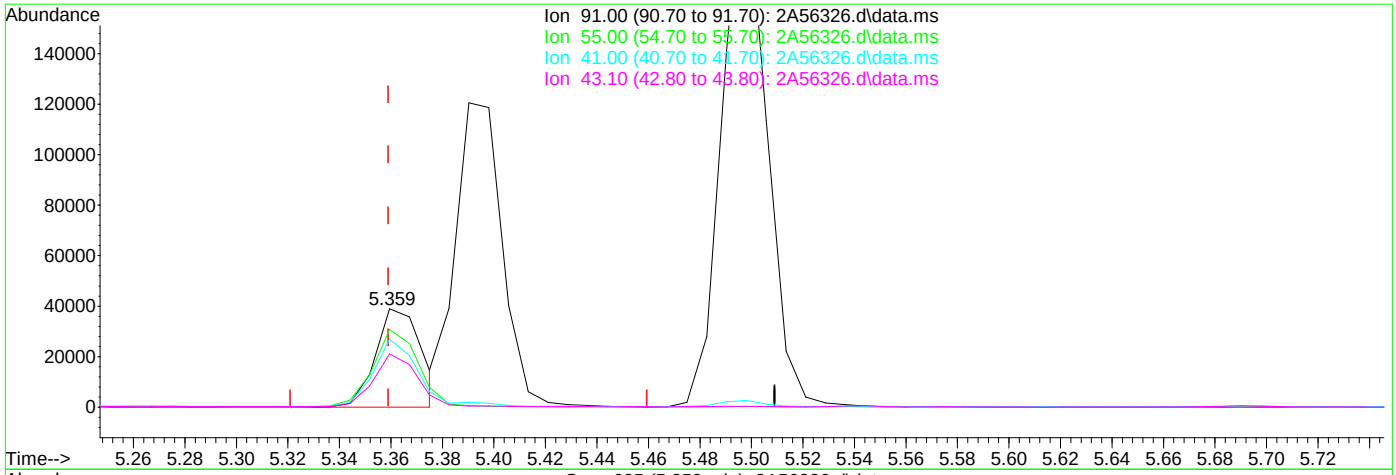
response 199815

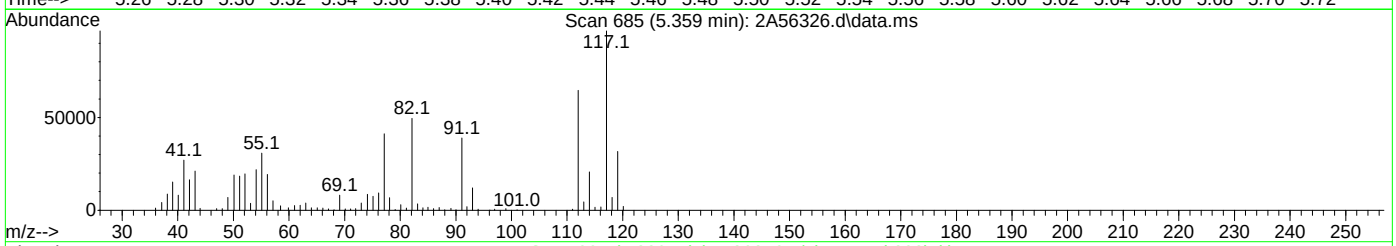
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.43#
41.00	39.20	1.30#
43.10	33.20	0.24#

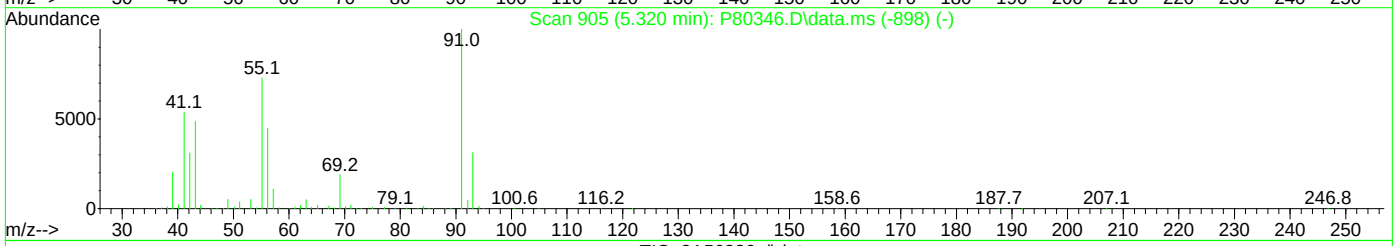
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 21.73ug/L m

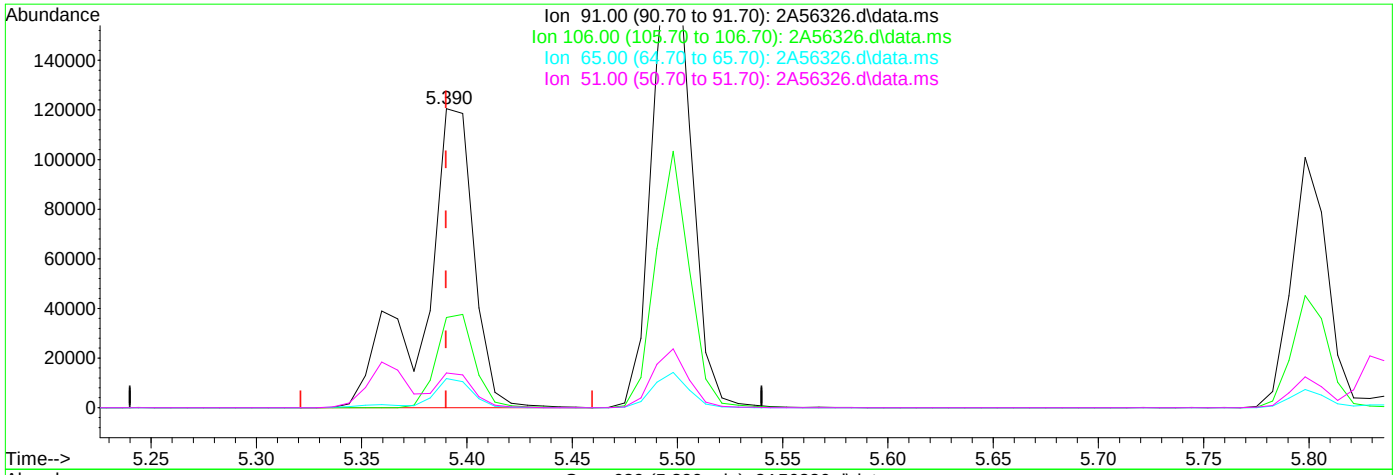
response 48094

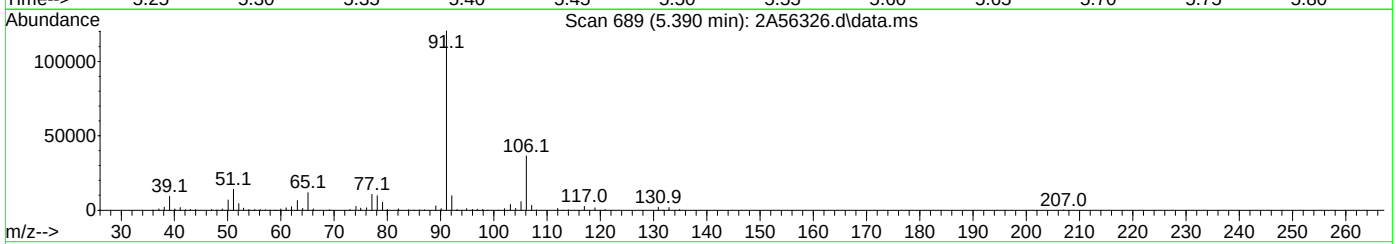
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	78.87
41.00	39.20	69.16#
43.10	33.20	54.10#

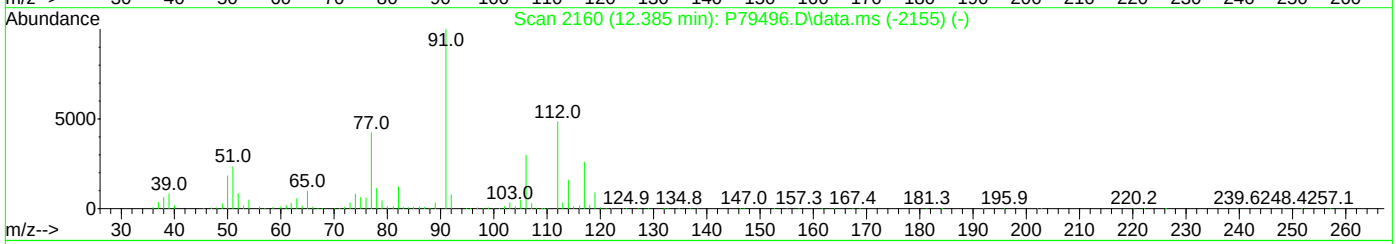
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 29.52ug/L

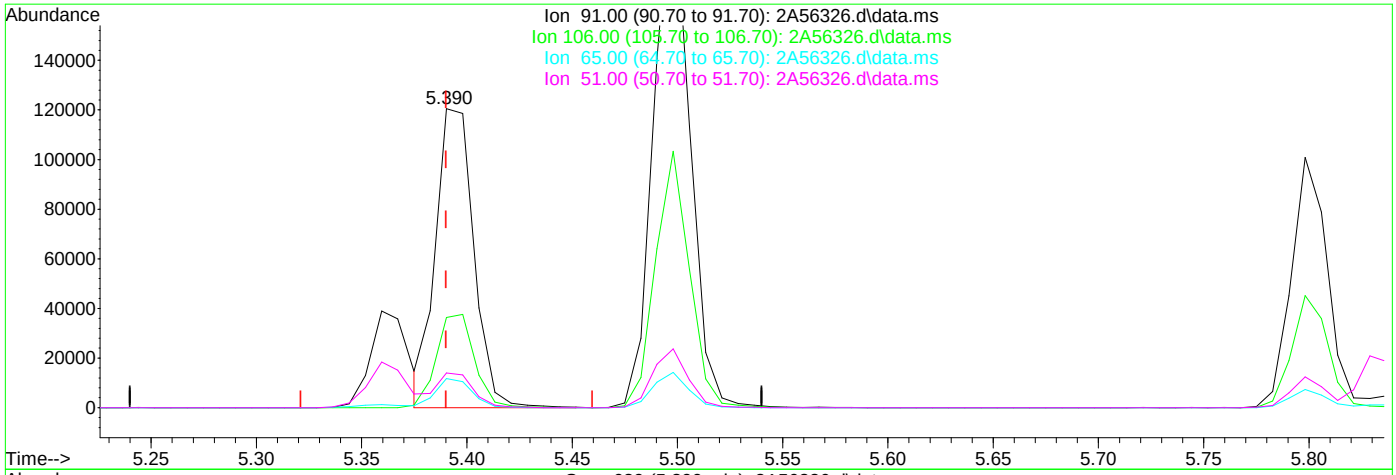
response 199815

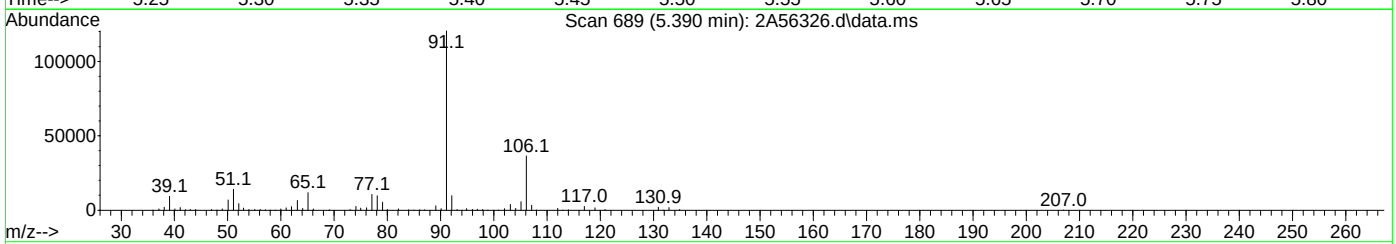
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.18
65.00	7.10	9.72
51.00	7.10	11.61

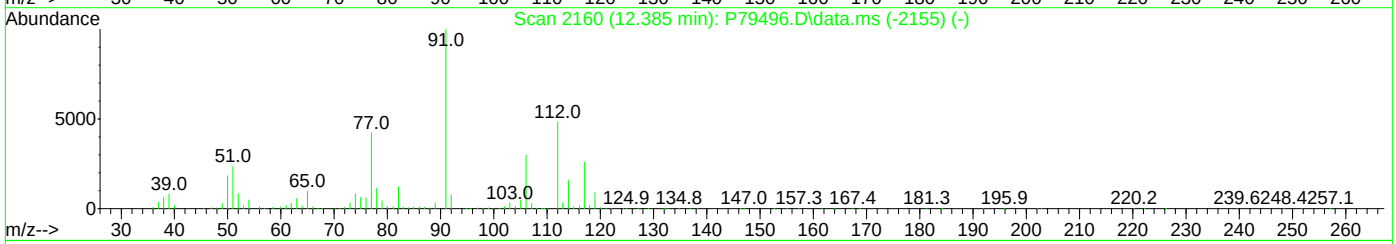
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56326.d
Acq On : 26 Jun 2024 5:56 pm
Operator : jeniferw
Sample : FC16561-5MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 27 06:01:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56326.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 22.41ug/L m

response 151704

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.18
65.00	7.10	9.72
51.00	7.10	11.61

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:55:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	280187	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	198686	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	118733	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	76985	47.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.18%			
49) 1,2-Dichloroethane-d4	3.235	65	96147	49.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.16%			
63) Toluene-d8	4.336	98	275182	51.09	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.18%			
86) 4-Bromofluorobenzene	6.229	174	91728	48.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.019	85	32462	23.4420	ug/L	97
3) Chloromethane	1.127	50	34584	21.6934	ug/L	98
4) 1,3-butadiene	1.180	39	44679	23.3474	ug/L #	72
5) Vinyl Chloride	1.173	62	36952	22.9280	ug/L	97
6) Bromomethane	1.350	94	15657	22.3498	ug/L	96
7) Chloroethane	1.411	64	20277	23.2371	ug/L	97
8) Trichlorofluoromethane	1.496	101	49806	23.2561	ug/L	100
9) Ethyl Ether	1.658	59	25417	22.2857	ug/L	89
10) Ethanol	1.704	45	10782	616.3998	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.742	67	35679	32.4045	ug/L	90
12) 1,1-Dichloroethene	1.758	61	46843	21.5074	ug/L	84
13) Freon 113	1.788	101	28895	22.4086	ug/L	90
14) Carbon Disulfide	1.781	76	73026	18.6508	ug/L	80
15) Iodomethane	1.835	142	22376	22.2052	ug/L	90
16) Acrolein	1.904	56	39373	147.0488	ug/L	99
17) Allyl chloride	1.996	41	47275	22.2033	ug/L	81
18) Methylene Chloride	2.042	49	46634	23.4104	ug/L #	70
19) Acetone	2.050	43	70403	125.0389	ug/L	83
20) Methyl acetate	2.119	43	178564	128.1391	ug/L	85
21) trans-1,2-Dichloroethene	2.135	61	46357	21.4298	ug/L	76
22) Hexane	2.196	56	28667	22.2391	ug/L #	79
23) Methyl Tert Butyl Ether	2.189	73	95694	24.3740	ug/L	86
24) Acetonitrile	2.273	41	53918	285.4148	ug/L	96
25) Tert Butyl Alcohol	2.212	59	63804	284.2186	ug/L	87
26) Di-isopropyl ether	2.389	45	101525	22.8702	ug/L	84
27) Chloroprene	2.435	53	139070	23.9085	ug/L	89
28) 1,1-Dichloroethane	2.443	63	57618	20.8522	ug/L	97
29) Acrylonitrile	2.435	52	83985	119.6819	ug/L	96
30) ETBE	2.581	59	101883	24.2253	ug/L	91
31) Vinyl acetate	2.558	43	463509	138.0348	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	58946	38.8678	ug/L #	78
33) 2,2-Dichloropropane	2.781	77	44145	19.7564	ug/L	94
34) Bromochloromethane	2.820	128	17571	22.6077	ug/L #	59
35) Cyclohexane	2.858	56	55985	21.8318	ug/L #	80
36) Chloroform	2.858	83	60344	23.6043	ug/L	92
37) Ethyl acetate	2.912	43	238232	129.4515	ug/L	90
38) Tetrahydrofuran	2.943	42	16264	24.7984	ug/L	82
40) Carbon Tetrachloride	2.958	117	44157m	20.6801	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	50559	20.6307	ug/L	93
42) 2-Butanone	2.997	43	111941	122.1407	ug/L	79
43) 1,1-Dichloropropene	3.051	75	43449	22.5035	ug/L	78
44) tert-Butyl formate	3.089	59	164785	143.5269	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:55:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.143	54	71150	271.2462	ug/L		99
46)	Methacrylonitrile	3.166	41	276614	268.0239	ug/L		94
47)	Benzene	3.181	78	126684	22.3602	ug/L		87
48)	TAME	3.251	73	87132	23.7067	ug/L	#	73
50)	1,2-Dichloroethane	3.274	62	49571	23.9414	ug/L		95
51)	Isobutyl Alcohol	3.258	43	81576	577.3166	ug/L		96
52)	Tert Amyl Alcohol	3.320	59	54869	306.1031	ug/L		88
53)	Trichloroethene	3.505	95	35639	22.0589	ug/L		86
54)	Methylcyclohexane	3.528	83	57449	22.9671	ug/L		81
55)	Dibromomethane	3.736	93	23502	23.9970	ug/L		88
56)	1,2-Dichloropropane	3.789	63	34625	23.6568	ug/L		89
57)	Bromodichloromethane	3.828	83	44236	21.6001	ug/L	#	97
58)	Methyl methacrylate	3.920	41	37432	27.1586	ug/L	#	67
59)	1,4-Dioxane	3.936	88	10312	729.9255	ug/L		83
60)	2-Chloroethyl vinyl ether	4.167	63	117557	117.7122	ug/L		85
61)	cis-1,3-Dichloropropene	4.205	75	50894	22.9092	ug/L		76
64)	Toluene	4.367	91	135075	22.6589	ug/L		98
65)	2-Nitropropane	4.467	41	72293	137.8288	ug/L		90
66)	4-Methyl-2-pentanone	4.582	43	239961	134.8960	ug/L		86
67)	trans-1,3-Dichloropropene	4.613	75	45983	23.3344	ug/L		80
68)	Tetrachloroethene	4.628	166	34771	22.5620	ug/L		94
69)	Ethyl methacrylate	4.728	69	43421	24.5934	ug/L	#	69
70)	1,1,2-Trichloroethane	4.713	83	26896	24.0176	ug/L		89
71)	Dibromochloromethane	4.836	129	34208	24.6054	ug/L		98
72)	1,3-Dichloropropane	4.890	76	53607	27.5234	ug/L		75
73)	1,2-Dibromoethane	4.990	107	34376	25.8497	ug/L		93
74)	3,3-Dimethyl-1-Butanol	5.121	57	319890	1459.2605	ug/L		94
75)	2-hexanone	5.136	43	240993	139.6715	ug/L		75
76)	1-Chlorohexane	5.360	91	46453m	20.5697	ug/L		
77)	Ethylbenzene	5.390	91	153742m	22.2604	ug/L		
78)	Chlorobenzene	5.360	112	87385	22.6574	ug/L		83
79)	1,1,1,2-Tetrachloroethane	5.406	131	31658	24.0679	ug/L		96
80)	m,p-Xylene	5.498	91	247373	43.8023	ug/L		92
81)	o-Xylene	5.798	91	127944	21.6336	ug/L		91
82)	Styrene	5.829	104	97937	22.9634	ug/L		89
83)	Bromoform	5.837	173	22604	22.9278	ug/L		97
84)	Isopropylbenzene	6.037	105	150347	21.5846	ug/L		95
87)	cis-1,4-Dichloro-2-butene	6.260	53	11097	22.2866	ug/L	#	68
88)	n-Propylbenzene	6.345	91	188231	21.4973	ug/L		87
89)	Bromobenzene	6.306	156	38911	23.4331	ug/L	#	73
90)	1,1,2,2-Tetrachloroethane	6.368	83	46891	23.9851	ug/L		98
91)	1,3,5-Trimethylbenzene	6.506	105	128850	21.6681	ug/L		100
92)	2-Chlorotoluene	6.452	91	106192	21.9731	ug/L		92
93)	trans-1,4-Dichloro-2-B...	6.499	53	14882	23.6351	ug/L	#	62
94)	1,2,3-Trichloropropane	6.468	110	13837	27.0191	ug/L	#	72
95)	Cyclohexanone	6.483	55	9484	161.8567	ug/L		81
96)	4-Chlorotoluene	6.576	91	112580	21.7559	ug/L		88
97)	tert-Butylbenzene	6.745	91	77204	21.5835	ug/L		85
98)	1,2,4-Trimethylbenzene	6.799	105	127134	22.8545	ug/L		96
99)	Pentachloroethane	6.745	167	22510	25.1206	ug/L	#	81
100)	sec-Butylbenzene	6.891	105	159250	21.1446	ug/L		93
101)	4-Isopropyltoluene	7.007	119	137361	21.4778	ug/L		93
102)	1,3-Dichlorobenzene	7.037	146	72313	22.3900	ug/L		94
103)	1,2,3-Trimethylbenzene	7.137	105	126017	22.8572	ug/L		96
104)	1,4-Dichlorobenzene	7.107	146	73562	22.7704	ug/L		93
105)	n-Butylbenzene	7.338	92	68924	23.5632	ug/L		93
106)	Benzyl Chloride	7.291	126	14705	20.4854	ug/L	#	65
107)	1,2-Dichlorobenzene	7.422	146	67861	23.4239	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:55:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

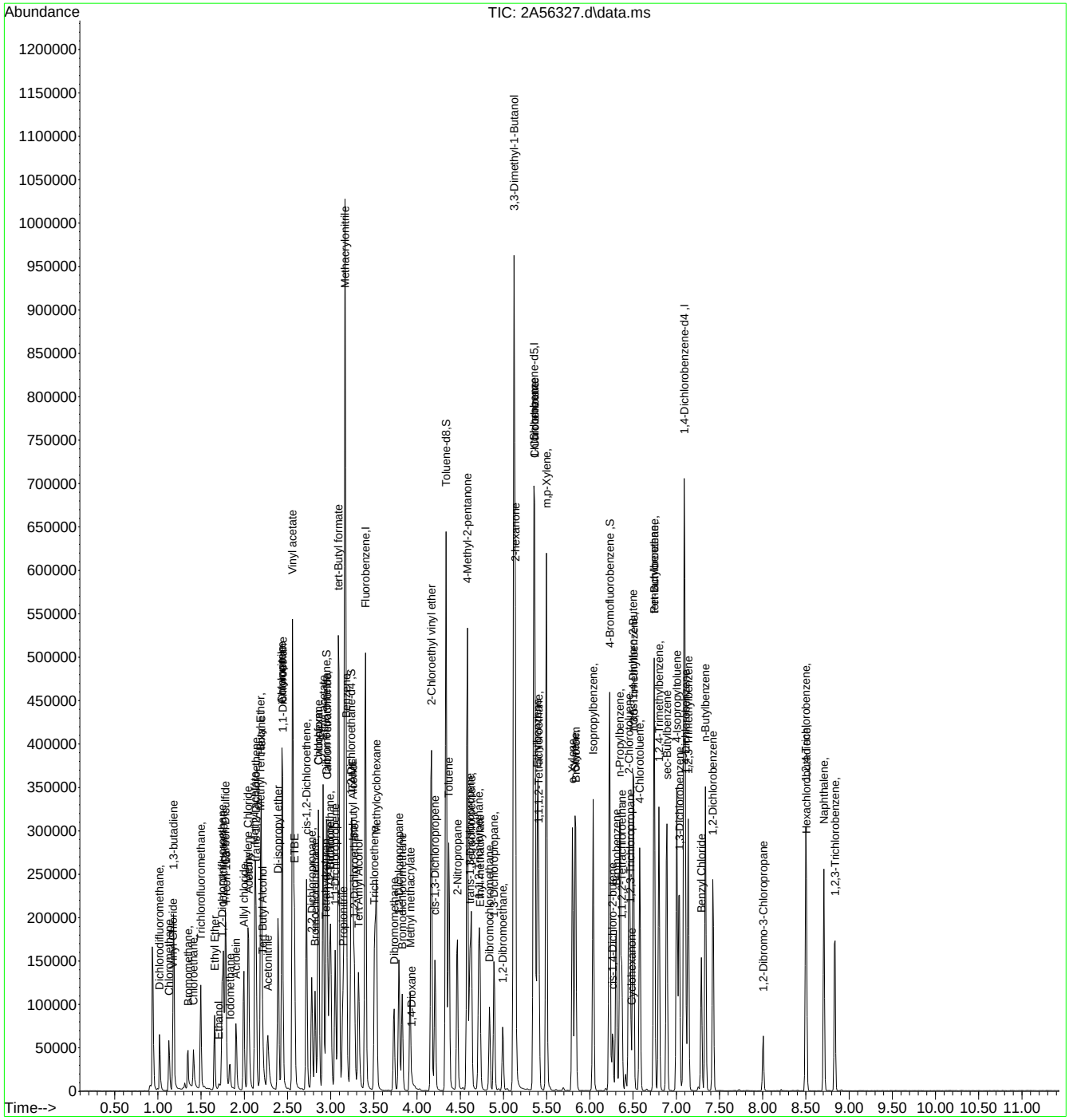
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9781	24.6773	ug/L #	56
109) Hexachlorobutadiene	8.507	225	17930	21.8478	ug/L	87
110) 1,2,4-Trichlorobenzene	8.500	180	41631	23.6179	ug/L	97
111) Naphthalene	8.707	128	116589	24.2118	ug/L	99
112) 1,2,3-Trichlorobenzene	8.838	180	37774	23.9716	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:55:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC16561-12MS
Lab FileID: 2A56327.D
Injection Time: 06/26/24 18:20

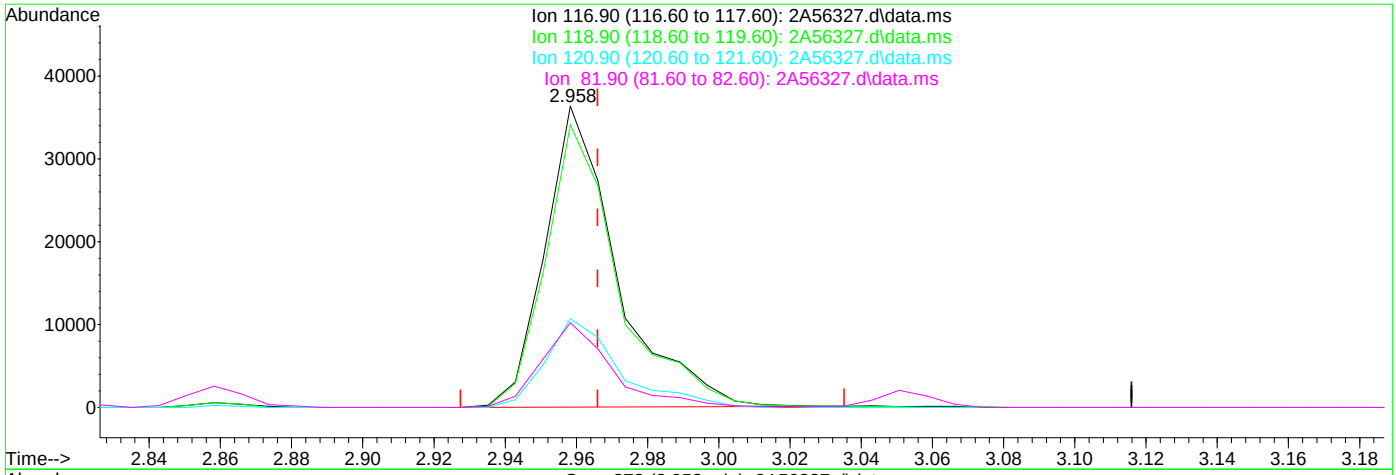
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/27/24 08:22 Karen Watson

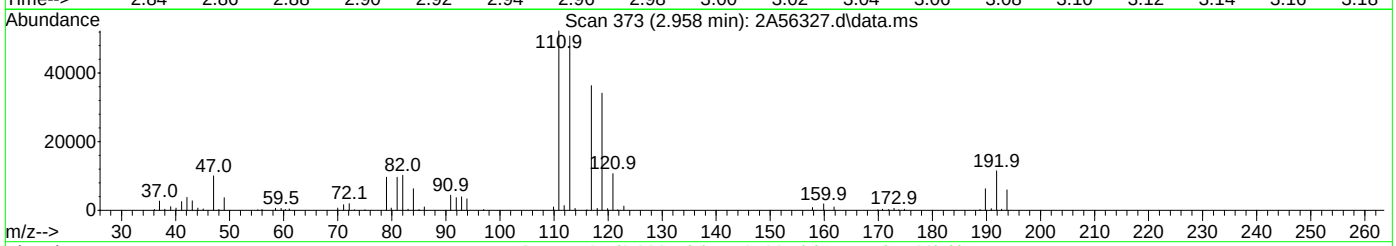
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

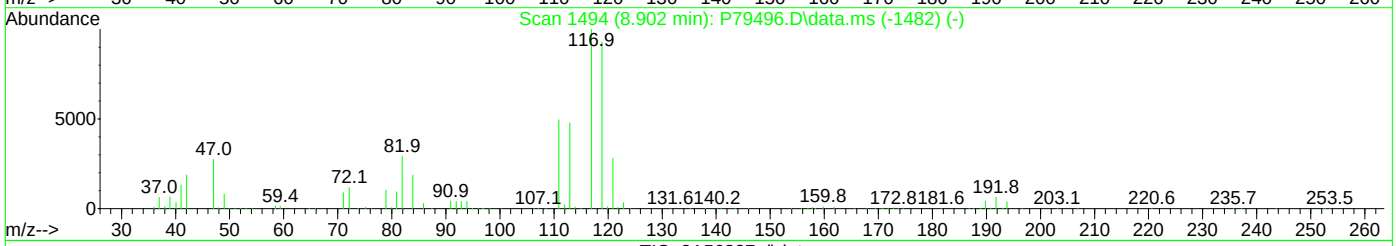
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 24.04ug/L

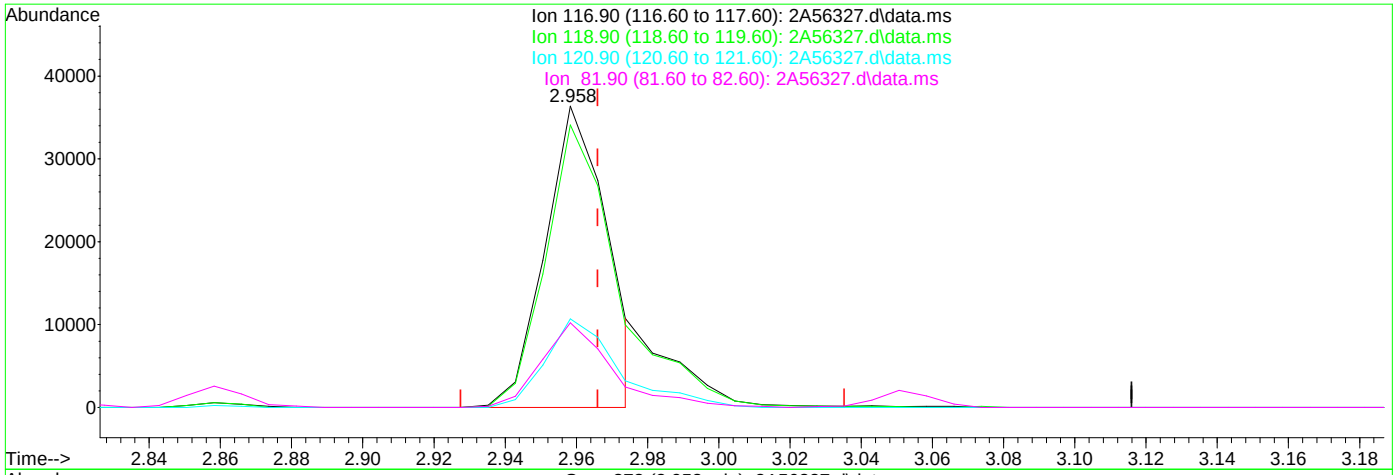
response 51321

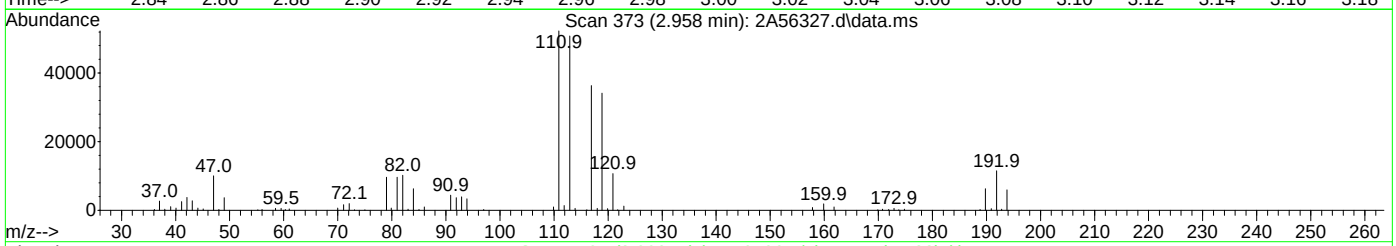
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	93.84
120.90	31.00	29.41
81.90	19.00	28.11

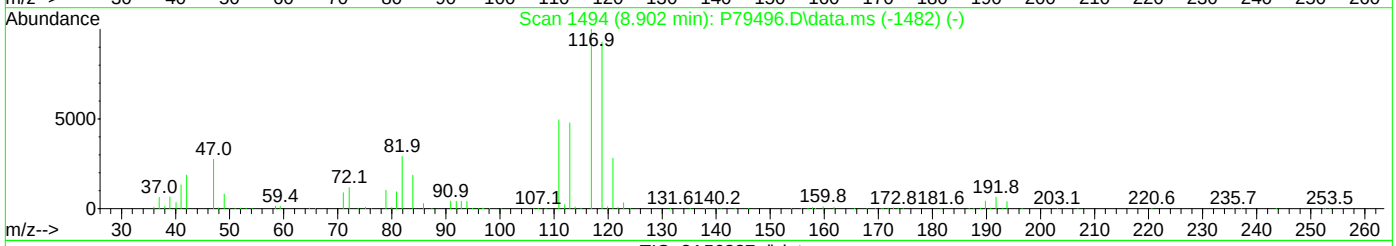
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 20.68ug/L m

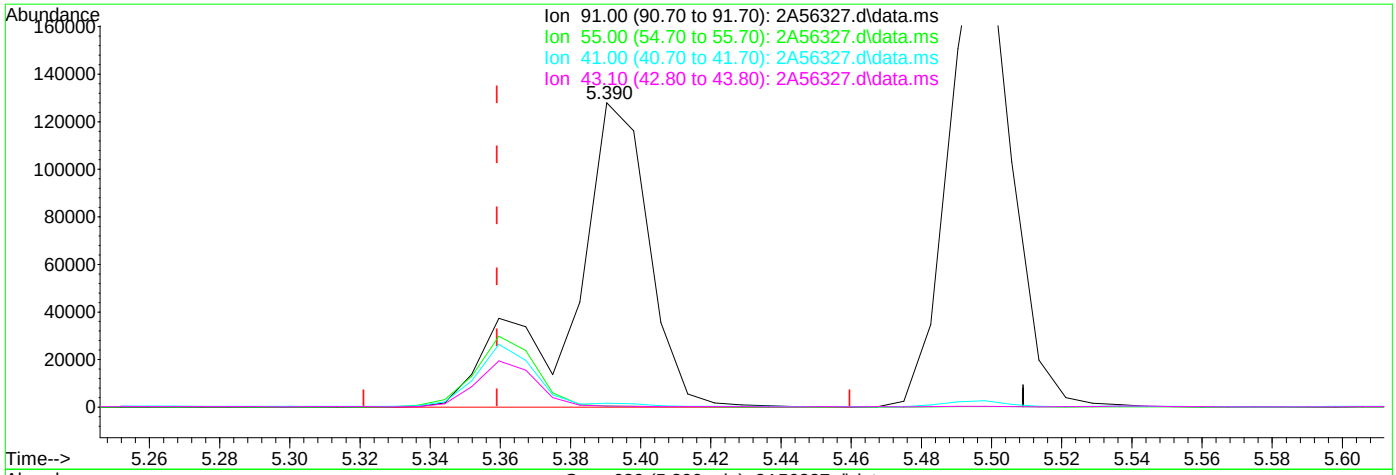
response 44157

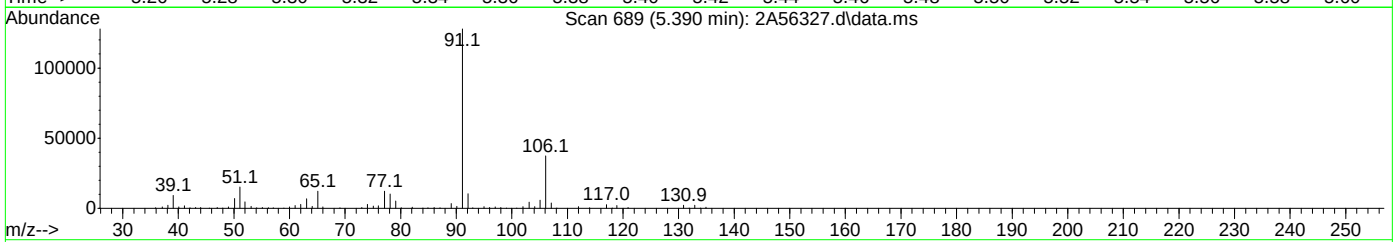
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	93.84
120.90	31.00	29.41
81.90	19.00	28.11

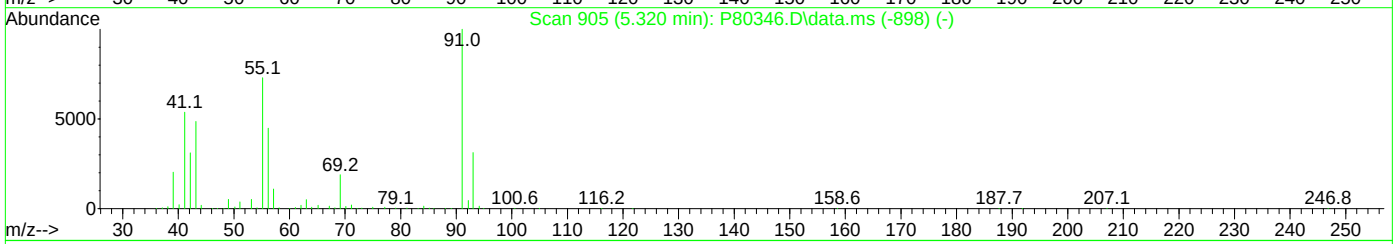
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 88.68ug/L

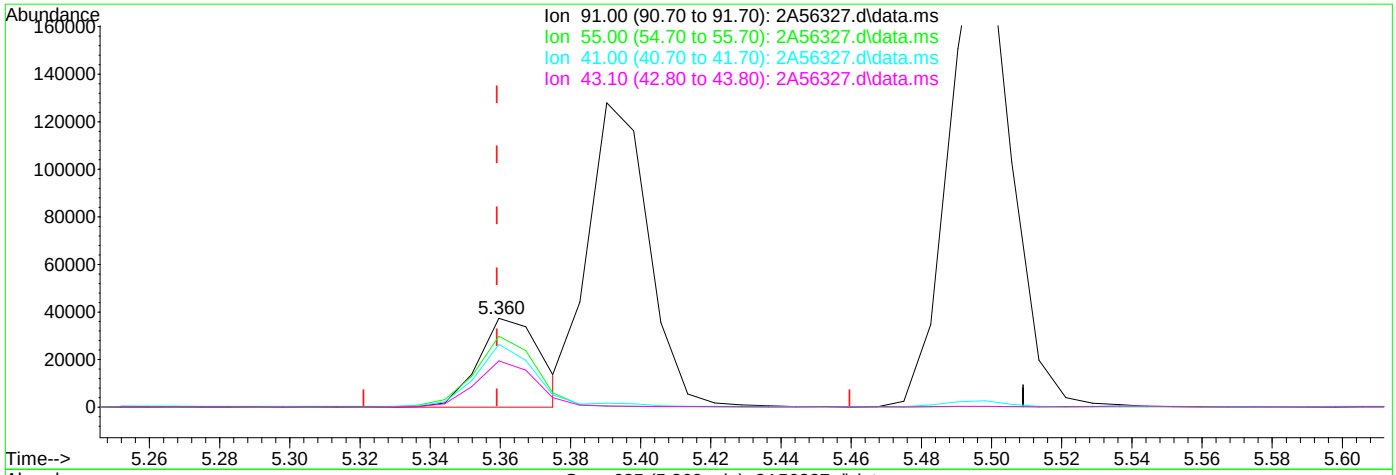
response 200265

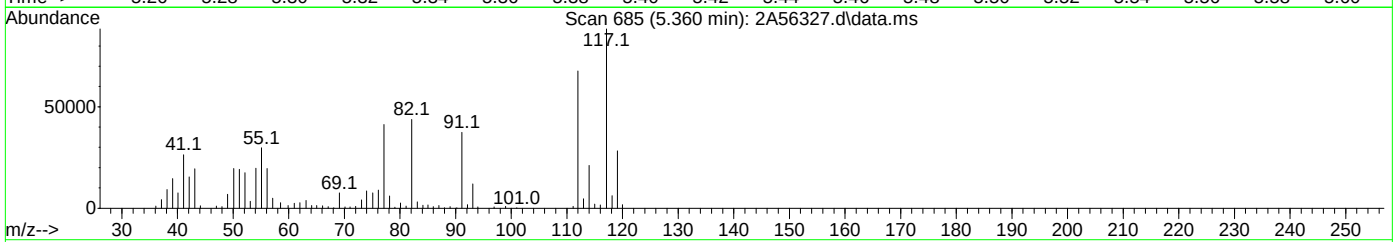
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.40#
41.00	39.20	1.13#
43.10	33.20	0.22#

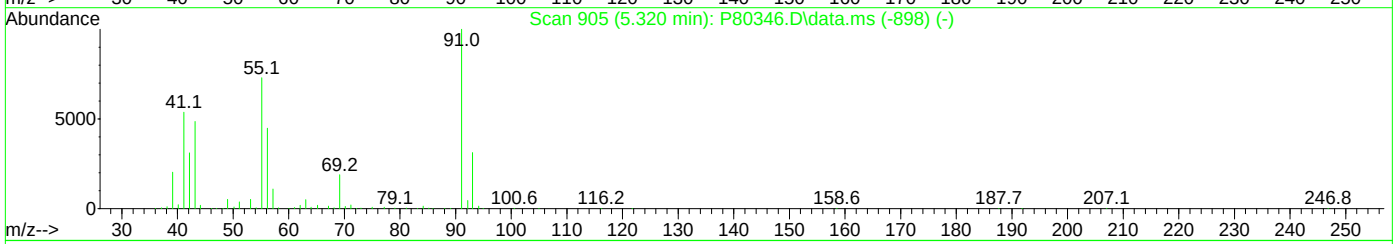
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 20.57ug/L m

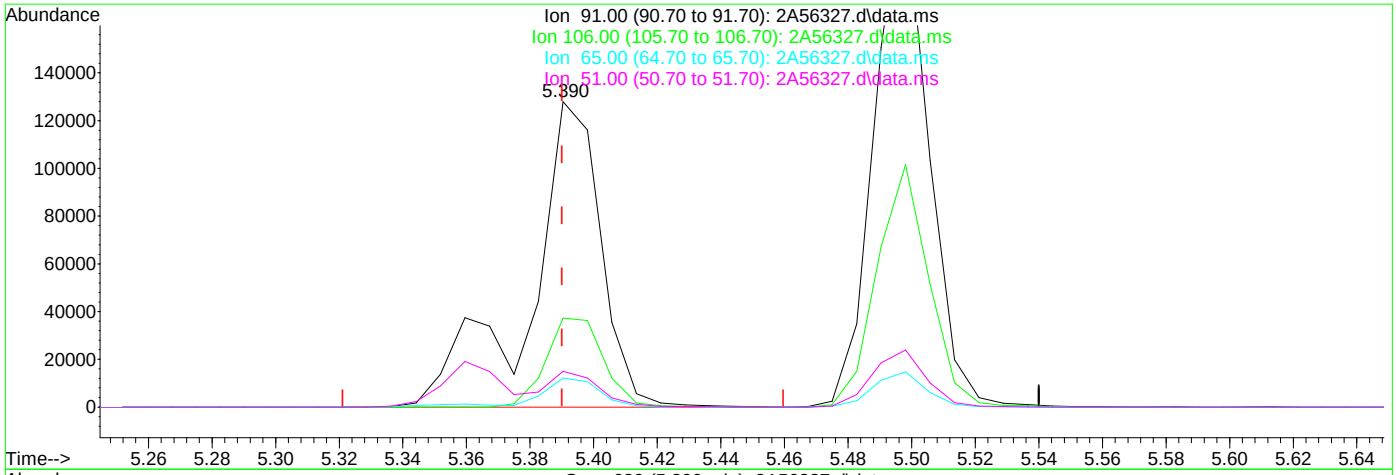
response 46453

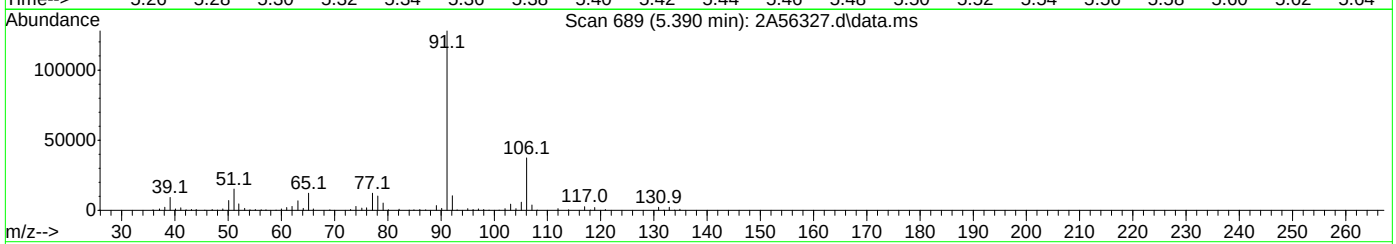
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	79.83#
41.00	39.20	70.64#
43.10	33.20	52.06

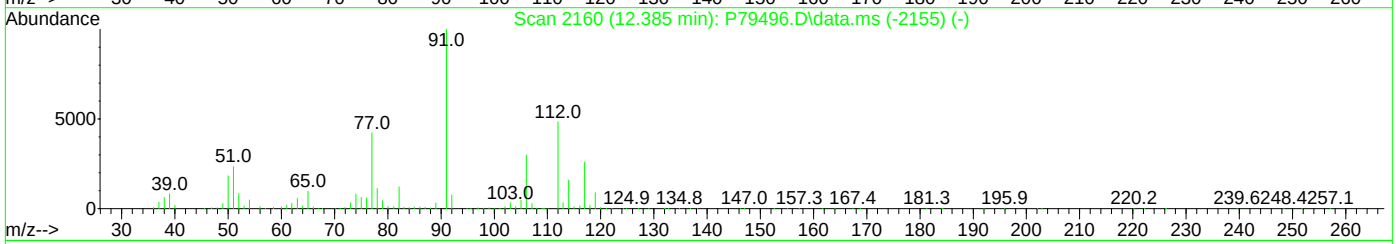
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 29.00ug/L

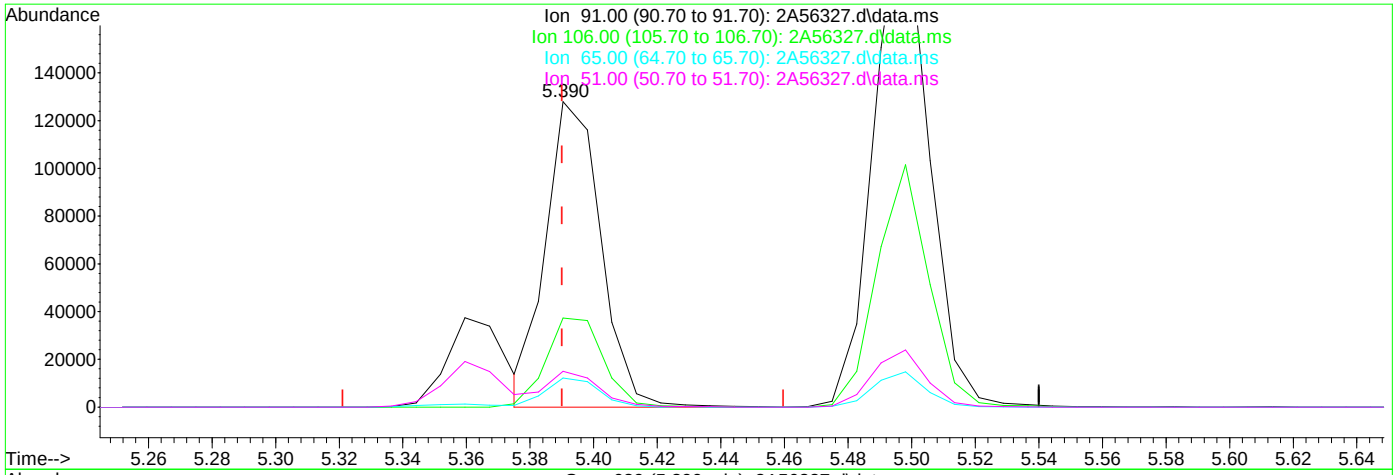
response 200265

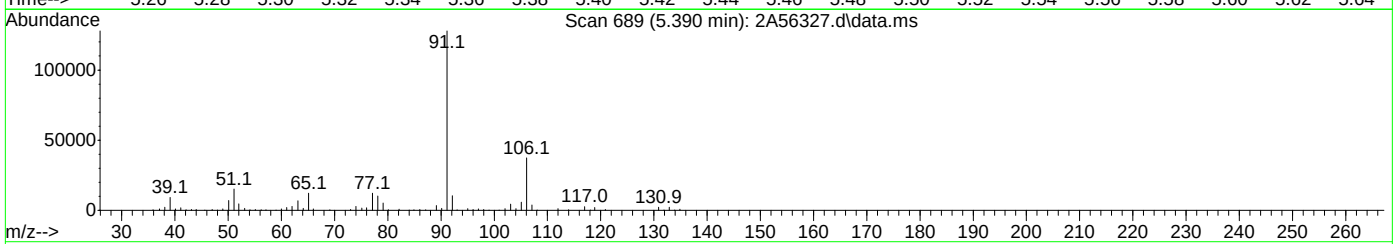
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.17
65.00	7.10	9.46
51.00	7.10	11.75

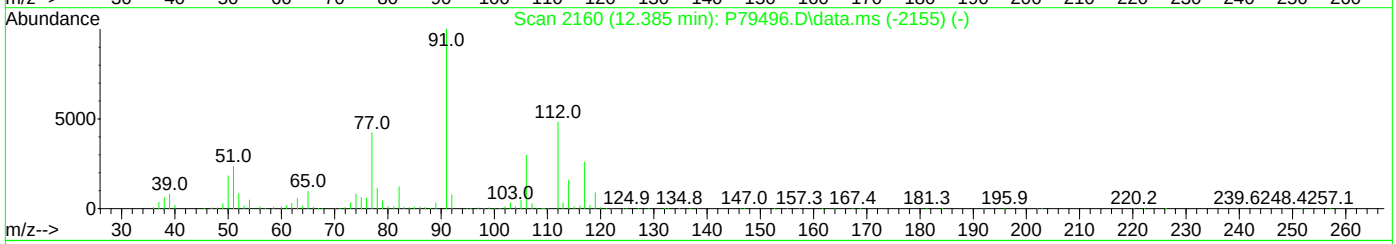
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56327.d
Acq On : 26 Jun 2024 6:20 pm
Operator : jeniferw
Sample : FC16561-12MS Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 27 06:01:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56327.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 22.26ug/L m

response 153742

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.17
65.00	7.10	9.46
51.00	7.10	11.75

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:56:42 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	278188	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	198157	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	117835	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	77525	48.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.54%			
49) 1,2-Dichloroethane-d4	3.235	65	94871	49.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.56%			
63) Toluene-d8	4.336	98	274344	51.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.14%			
86) 4-Bromofluorobenzene	6.229	174	92278	49.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.026	85	33985	24.7181	ug/L	99
3) Chloromethane	1.134	50	36915	23.3220	ug/L	98
4) 1,3-butadiene	1.188	39	44414	23.3773	ug/L #	77
5) Vinyl Chloride	1.180	62	37939	23.7096	ug/L	99
6) Bromomethane	1.350	94	16484	23.6994	ug/L	95
7) Chloroethane	1.419	64	20524	23.7271	ug/L	95
8) Trichlorofluoromethane	1.496	101	51779	24.3511	ug/L	98
9) Ethyl Ether	1.658	59	26618	23.5064	ug/L	87
10) Ethanol	1.711	45	12183	701.4989	ug/L	99
11) 1,2-Dichlorotrifluoroe...	1.750	67	38012	34.7715	ug/L	92
12) 1,1-Dichloroethene	1.765	61	49064	22.6890	ug/L	90
13) Freon 113	1.788	101	29880	23.3390	ug/L #	87
14) Carbon Disulfide	1.781	76	76872	19.7742	ug/L	79
15) Iodomethane	1.835	142	22826	22.7799	ug/L	88
16) Acrolein	1.911	56	40347	151.7693	ug/L	97
17) Allyl chloride	1.996	41	49341	23.3401	ug/L	79
18) Methylene Chloride	2.042	49	47072	23.8000	ug/L #	67
19) Acetone	2.050	43	70859	126.7531	ug/L	83
20) Methyl acetate	2.127	43	182875	132.1758	ug/L	88
21) trans-1,2-Dichloroethene	2.135	61	49042	22.8339	ug/L #	73
22) Hexane	2.196	56	29337	22.9224	ug/L #	78
23) Methyl Tert Butyl Ether	2.196	73	98290	25.2151	ug/L	84
24) Acetonitrile	2.273	41	55350	295.1005	ug/L	98
25) Tert Butyl Alcohol	2.212	59	64901	291.1827	ug/L	71
26) Di-isopropyl ether	2.396	45	104350	23.6755	ug/L	88
27) Chloroprene	2.443	53	141561	24.5116	ug/L	92
28) 1,1-Dichloroethane	2.443	63	60772	22.1517	ug/L	96
29) Acrylonitrile	2.443	52	86838	124.6368	ug/L	98
30) ETBE	2.581	59	103834	24.8667	ug/L	90
31) Vinyl acetate	2.558	43	472916	141.8483	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	60861	40.4923	ug/L #	76
33) 2,2-Dichloropropane	2.781	77	46015	20.7413	ug/L	95
34) Bromochloromethane	2.820	128	18007	23.3352	ug/L #	52
35) Cyclohexane	2.858	56	57646	22.6410	ug/L #	81
36) Chloroform	2.858	83	62306	24.5469	ug/L	92
37) Ethyl acetate	2.912	43	245924	134.5915	ug/L	89
38) Tetrahydrofuran	2.943	42	16649	25.5678	ug/L	83
40) Carbon Tetrachloride	2.958	117	47412m	22.3640	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	54610	22.4438	ug/L	94
42) 2-Butanone	3.004	43	112466	123.5954	ug/L	82
43) 1,1-Dichloropropene	3.051	75	46069	24.0319	ug/L	76
44) tert-Butyl formate	3.097	59	168438	147.7628	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:56:42 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.143	54	71473	274.4355	ug/L		99
46)	Methacrylonitrile	3.166	41	280305	273.5519	ug/L		94
47)	Benzene	3.181	78	131315	23.3442	ug/L		84
48)	TAME	3.251	73	89363	24.4884	ug/L		80
50)	1,2-Dichloroethane	3.274	62	51265	24.9375	ug/L		96
51)	Isobutyl Alcohol	3.258	43	82428	587.5380	ug/L		97
52)	Tert Amyl Alcohol	3.320	59	56378	316.7816	ug/L		89
53)	Trichloroethene	3.512	95	37299	23.2523	ug/L		91
54)	Methylcyclohexane	3.528	83	60198	24.2390	ug/L		82
55)	Dibromomethane	3.736	93	23979	24.6600	ug/L		84
56)	1,2-Dichloropropane	3.789	63	36068	24.8197	ug/L		88
57)	Bromodichloromethane	3.828	83	45122	22.1910	ug/L	#	96
58)	Methyl methacrylate	3.920	41	37786	27.6124	ug/L	#	67
59)	1,4-Dioxane	3.936	88	10314	735.3131	ug/L		83
60)	2-Chloroethyl vinyl ether	4.167	63	130498	131.6093	ug/L		84
61)	cis-1,3-Dichloropropene	4.205	75	52521	23.8115	ug/L		76
64)	Toluene	4.367	91	140835	23.6882	ug/L		98
65)	2-Nitropropane	4.467	41	73036	139.6171	ug/L		92
66)	4-Methyl-2-pentanone	4.582	43	242086	136.4539	ug/L		86
67)	trans-1,3-Dichloropropene	4.613	75	46150	23.4816	ug/L		79
68)	Tetrachloroethene	4.628	166	36321	23.6306	ug/L		92
69)	Ethyl methacrylate	4.728	69	43592	24.7562	ug/L	#	67
70)	1,1,2-Trichloroethane	4.713	83	27087	24.2527	ug/L		87
71)	Dibromochloromethane	4.836	129	34580	24.9394	ug/L		98
72)	1,3-Dichloropropane	4.890	76	54717	28.1683	ug/L		74
73)	1,2-Dibromoethane	4.990	107	34789	26.2301	ug/L		95
74)	3,3-Dimethyl-1-Butanol	5.121	57	330479	1511.5895	ug/L		94
75)	2-hexanone	5.136	43	243849	141.7040	ug/L		78
76)	1-Chlorohexane	5.359	91	47965m	21.2959	ug/L		
77)	Ethylbenzene	5.398	91	160810m	23.3459	ug/L		
78)	Chlorobenzene	5.359	112	90000	23.3977	ug/L		83
79)	1,1,1,2-Tetrachloroethane	5.406	131	32072	24.4478	ug/L		97
80)	m,p-Xylene	5.498	91	257349	45.6904	ug/L		93
81)	o-Xylene	5.798	91	133080	22.5621	ug/L		91
82)	Styrene	5.837	104	100784	23.6940	ug/L		92
83)	Bromoform	5.837	173	22627	23.0124	ug/L		95
84)	Isopropylbenzene	6.037	105	155396	22.3690	ug/L		95
87)	cis-1,4-Dichloro-2-butene	6.260	53	11026	22.3127	ug/L	#	65
88)	n-Propylbenzene	6.352	91	194998	22.4398	ug/L		90
89)	Bromobenzene	6.306	156	41000	24.8793	ug/L	#	75
90)	1,1,2,2-Tetrachloroethane	6.368	83	48196	24.8404	ug/L		95
91)	1,3,5-Trimethylbenzene	6.506	105	136595	23.1456	ug/L		98
92)	2-Chlorotoluene	6.452	91	110270	22.9908	ug/L		91
93)	trans-1,4-Dichloro-2-B...	6.499	53	15304	24.4906	ug/L	#	59
94)	1,2,3-Trichloropropane	6.468	110	14435	28.4016	ug/L	#	71
95)	Cyclohexanone	6.483	55	9961	171.2928	ug/L	#	79
96)	4-Chlorotoluene	6.575	91	116897	22.7623	ug/L		88
97)	tert-Butylbenzene	6.745	91	80925	22.7961	ug/L		83
98)	1,2,4-Trimethylbenzene	6.799	105	131018	23.7322	ug/L		96
99)	Pentachloroethane	6.745	167	22722	25.5504	ug/L	#	76
100)	sec-Butylbenzene	6.891	105	164988	22.0735	ug/L		94
101)	4-Isopropyltoluene	7.006	119	142392	22.4341	ug/L		94
102)	1,3-Dichlorobenzene	7.037	146	74466	23.2323	ug/L		94
103)	1,2,3-Trimethylbenzene	7.137	105	130993	23.9408	ug/L		97
104)	1,4-Dichlorobenzene	7.107	146	75961	23.6922	ug/L		93
105)	n-Butylbenzene	7.337	92	71671	24.6890	ug/L		94
106)	Benzyl Chloride	7.291	126	14680	20.6064	ug/L	#	62
107)	1,2-Dichlorobenzene	7.422	146	70162	24.4027	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:56:42 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

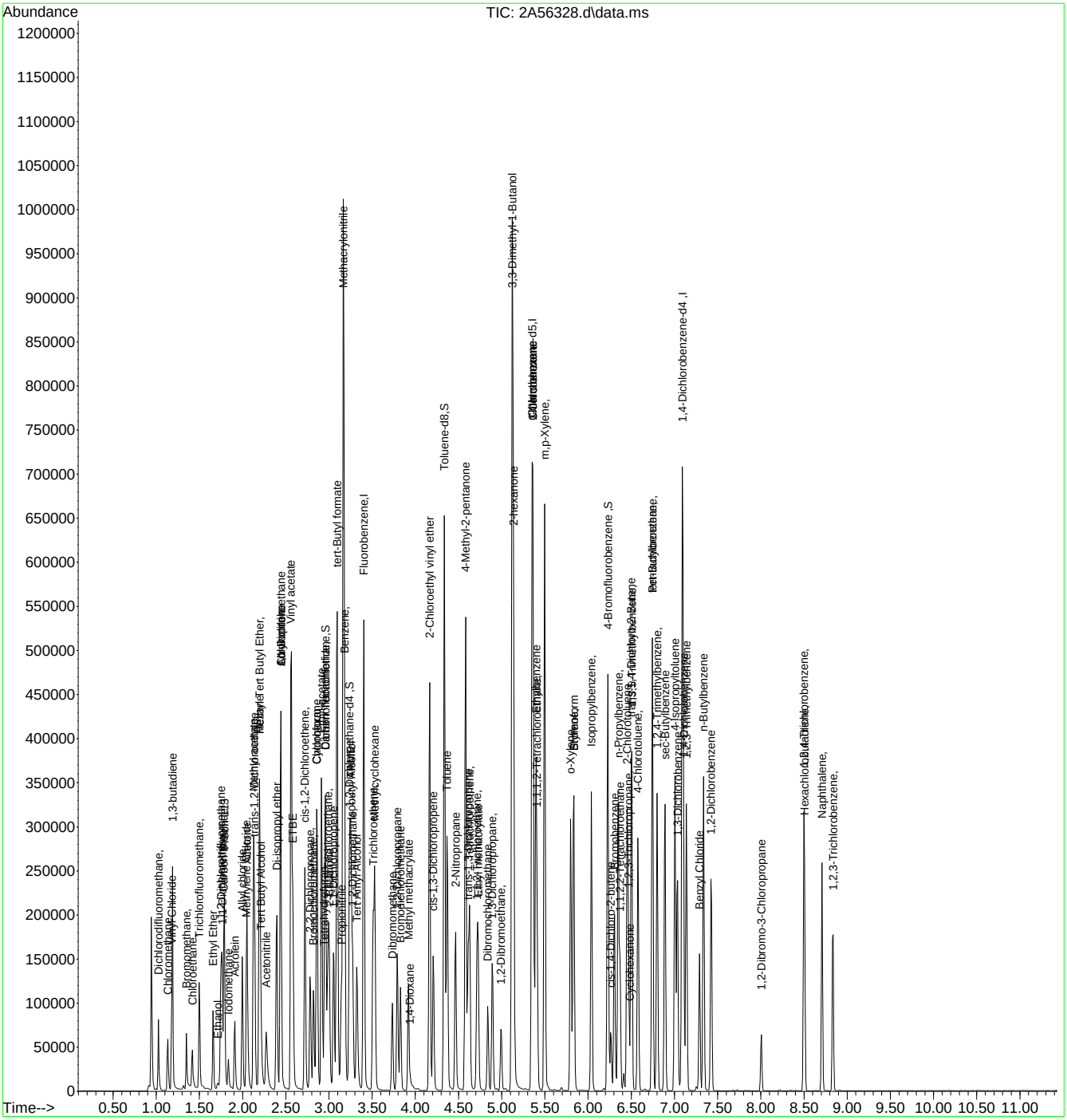
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9996	25.4119	ug/L #	55
109) Hexachlorobutadiene	8.507	225	19565	24.0217	ug/L	86
110) 1,2,4-Trichlorobenzene	8.500	180	42571	24.3352	ug/L	97
111) Naphthalene	8.707	128	118594	24.8159	ug/L	98
112) 1,2,3-Trichlorobenzene	8.838	180	38496	24.6160	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:56:42 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

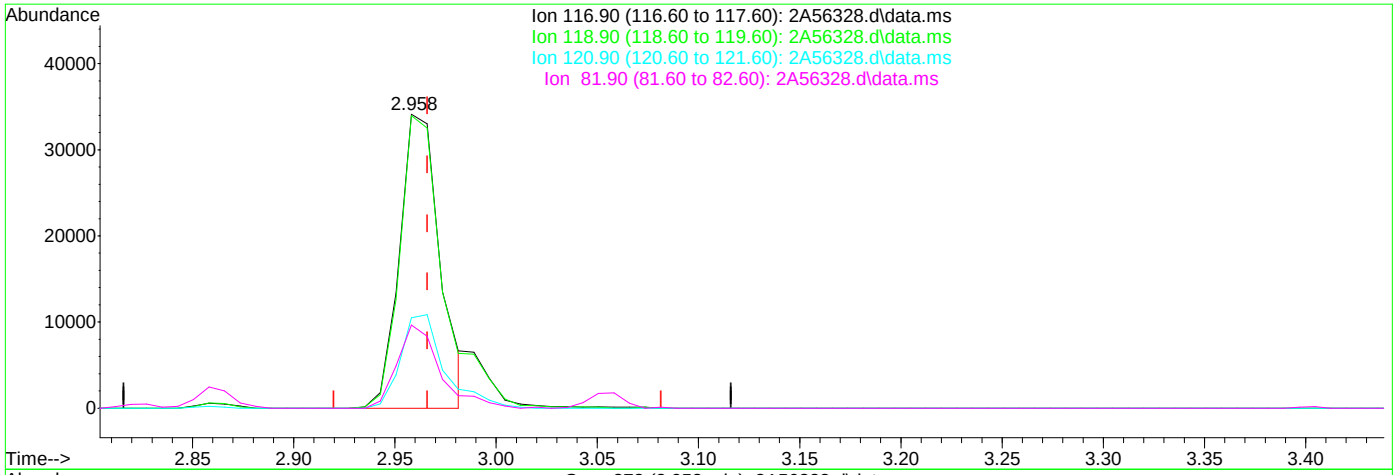
Sample Number: FC16561-12MSD
Lab FileID: 2A56328.D
Injection Time: 06/26/24 18:44
Method: SW846 8260D
Analyst approved: 06/27/24 03:08 Lotus Acosta
Supervisor approved: 06/27/24 08:22 Karen Watson

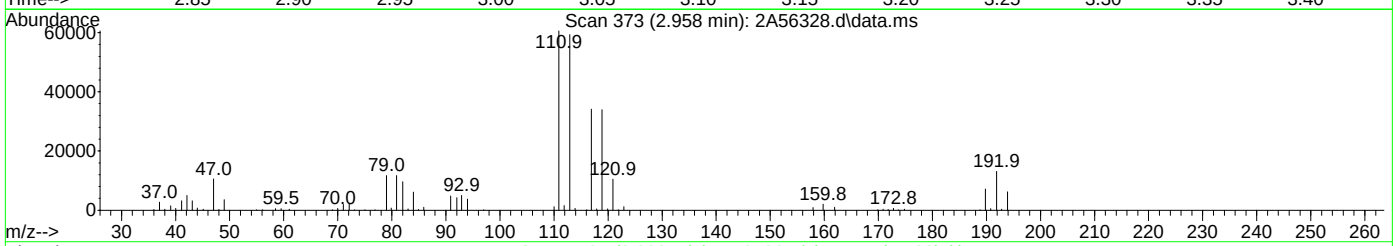
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.40	Overlapping peak

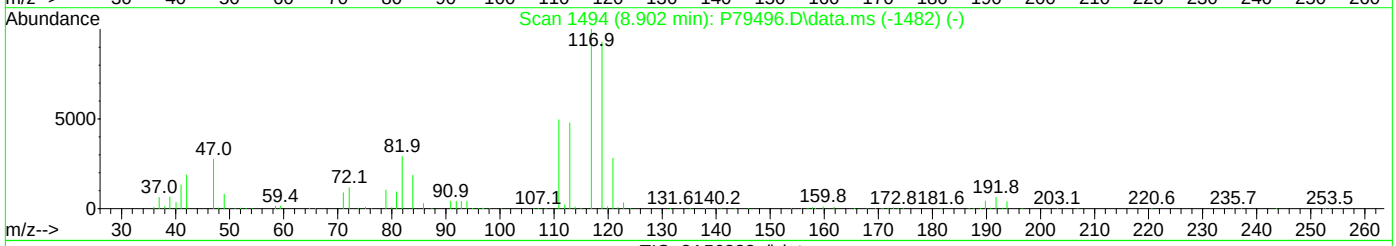
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:01:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56328.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 22.36ug/L m

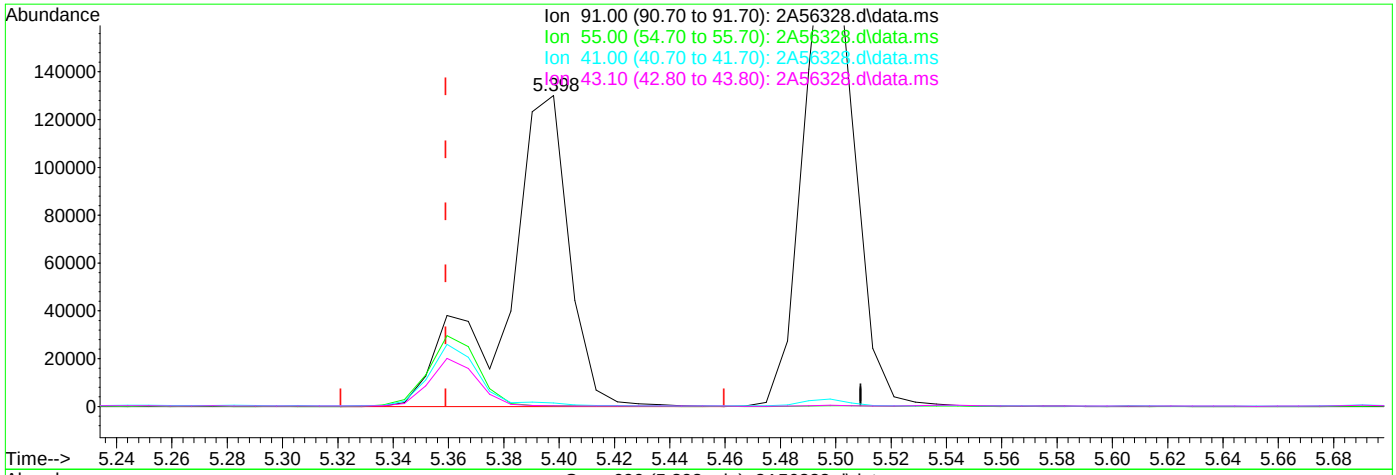
response 47412

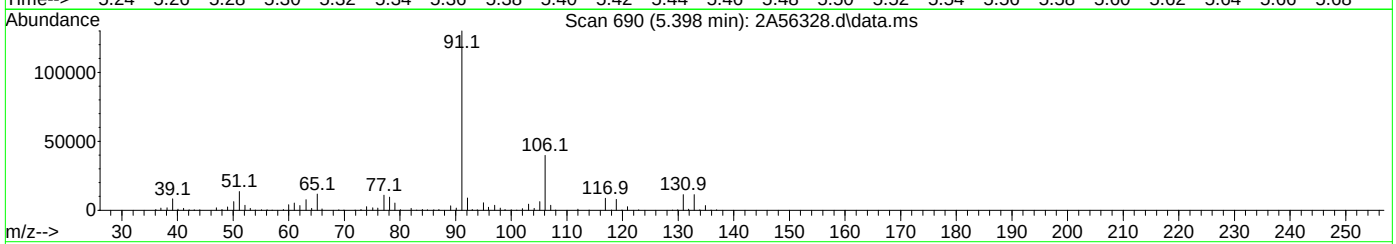
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	99.51
120.90	31.00	30.75
81.90	19.00	28.31

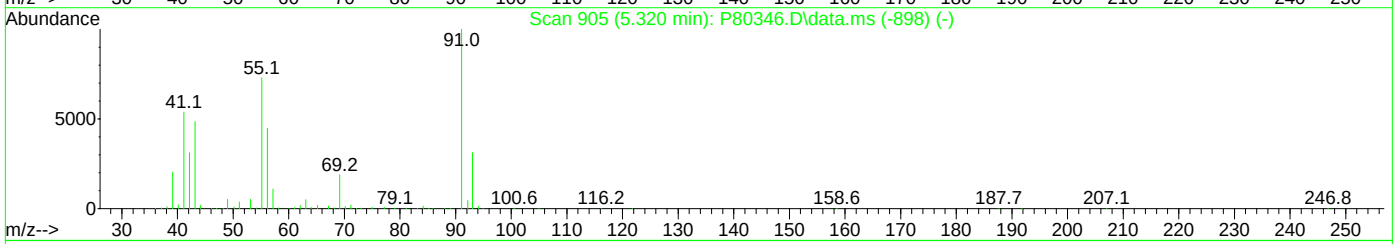
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:01:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56328.d\data.ms

(76) 1-Chlorohexane

5.398min (+0.039) 92.78ug/L

response 208975

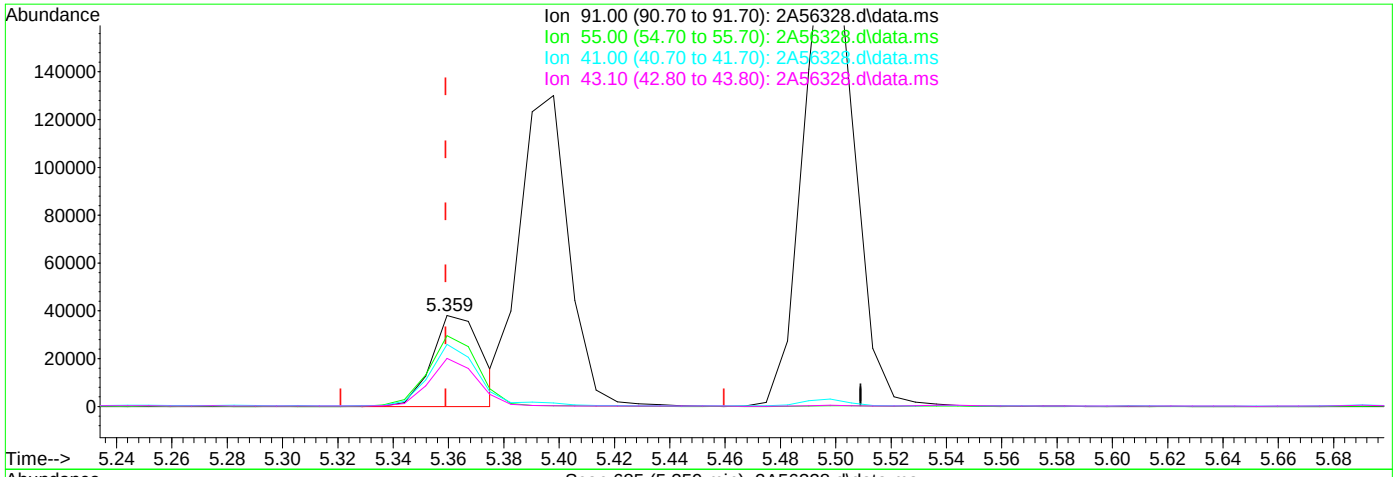
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.27#
41.00	39.20	0.88#
43.10	33.20	0.14#

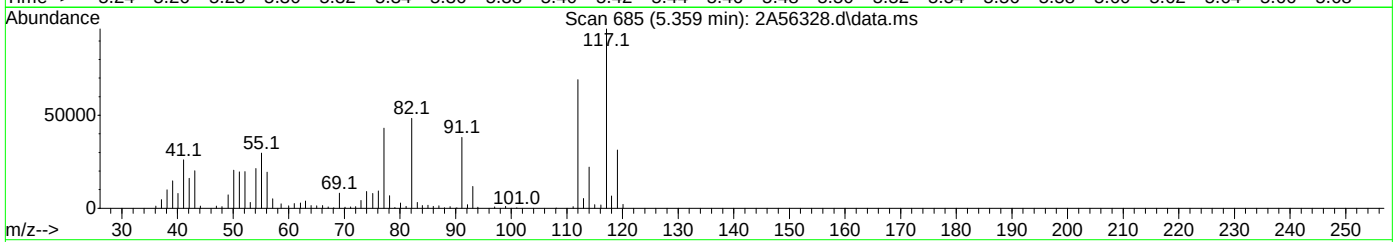
2A56328.D edits: 1-Chlorohexane

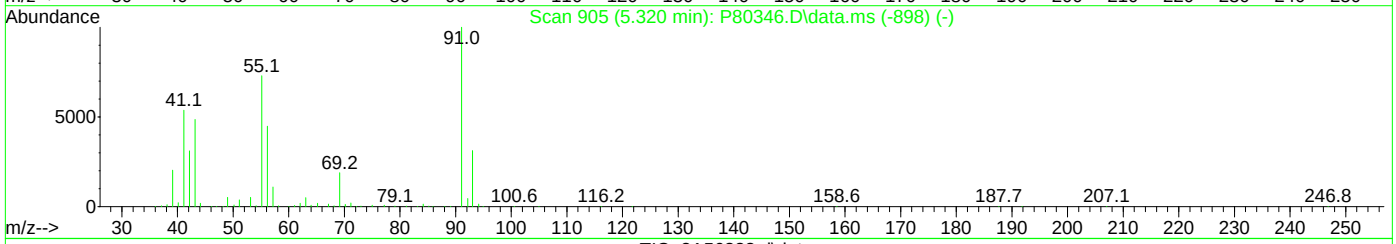
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:01:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56328.d\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 21.30ug/L m

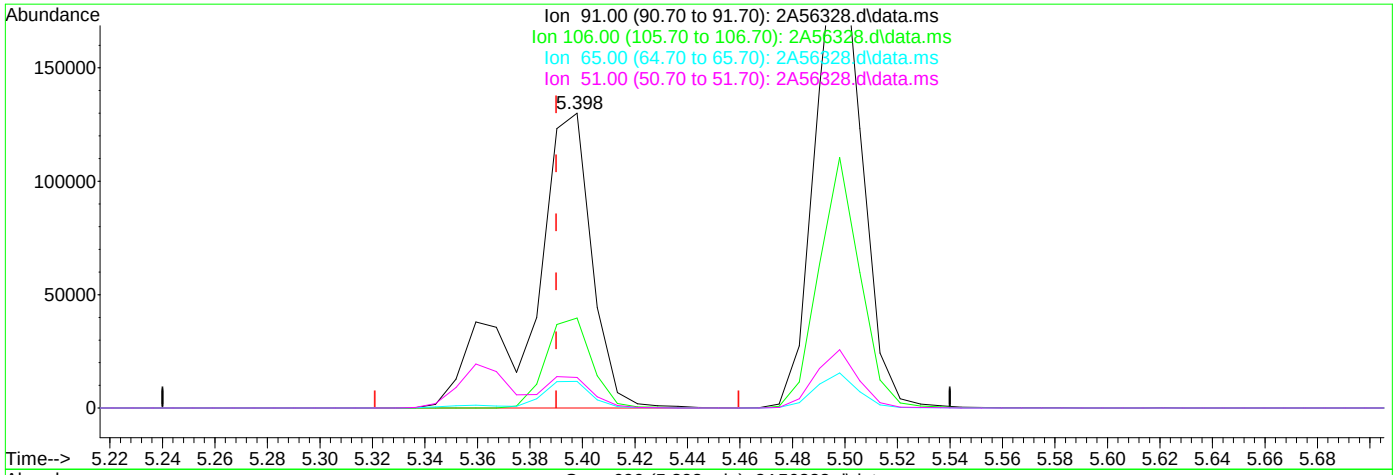
response 47965

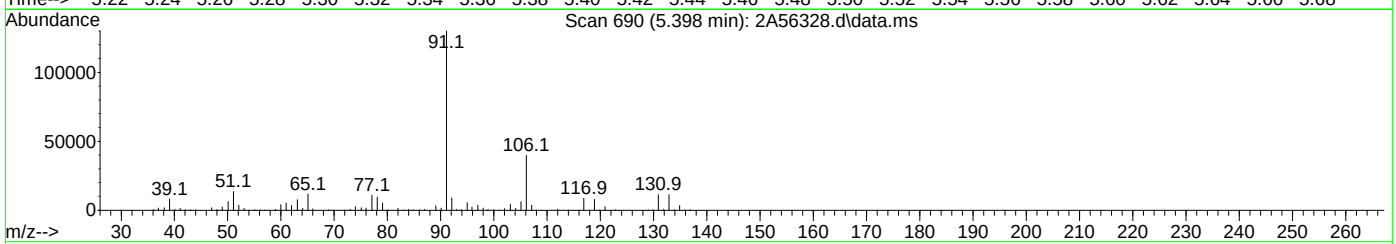
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.95
41.00	39.20	68.37#
43.10	33.20	52.93

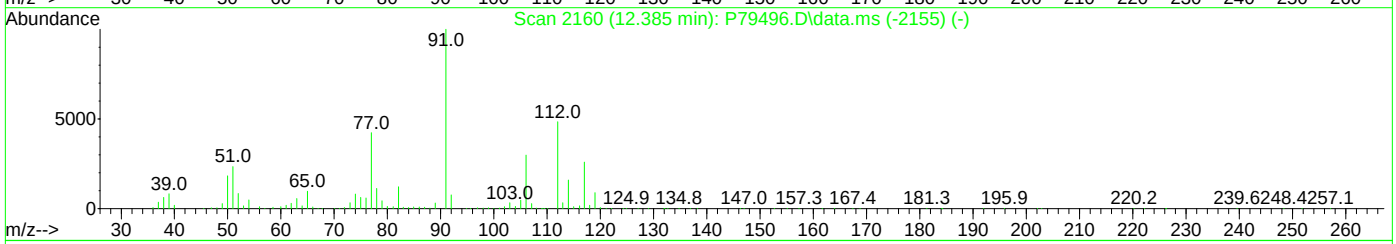
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:01:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56328.d\data.ms

(77) Ethylbenzene

5.398min (+0.008) 30.34ug/L

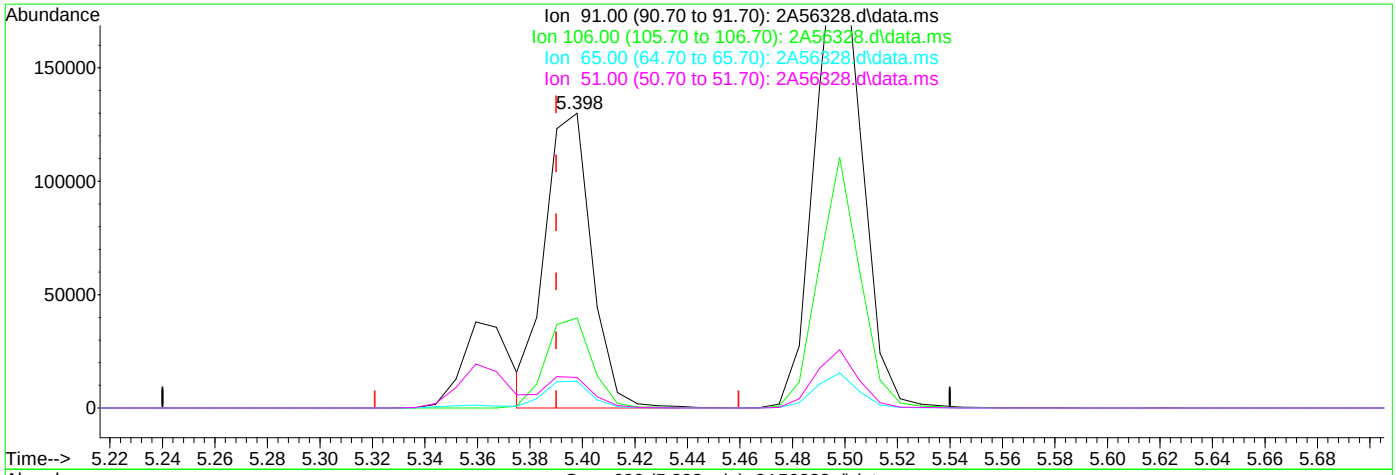
response 208975

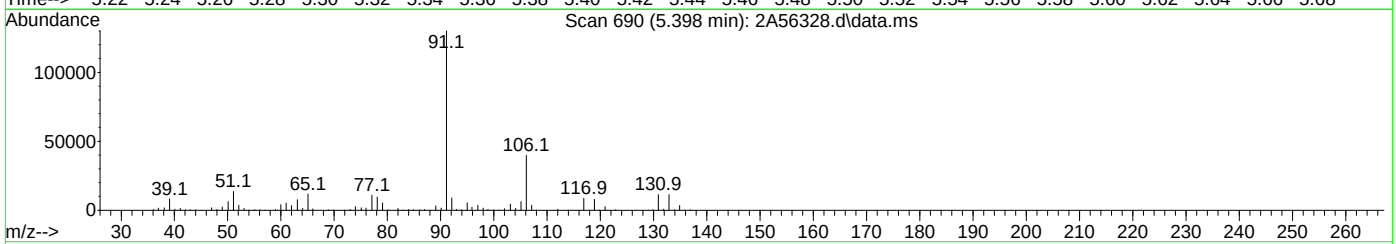
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.56
65.00	7.10	9.01
51.00	7.10	10.35

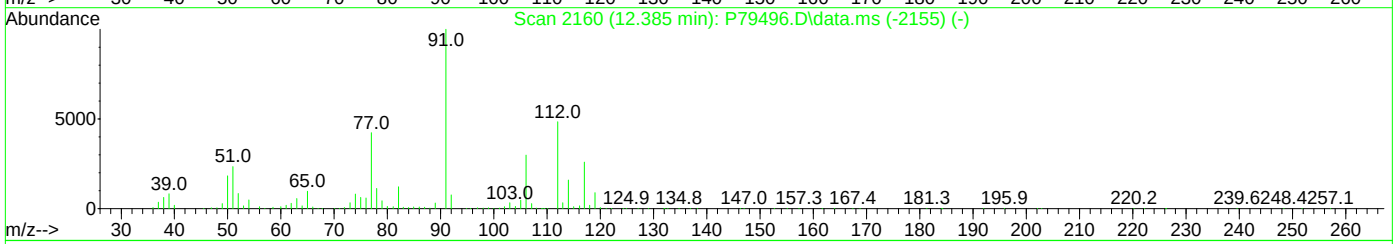
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56328.d
Acq On : 26 Jun 2024 6:44 pm
Operator : jeniferw
Sample : FC16561-12MSD Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,10
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 27 06:01:27 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56328.d\data.ms

(77) Ethylbenzene

5.398min (+0.008) 23.35ug/L m

response 160810

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.56
65.00	7.10	9.01
51.00	7.10	10.35

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47512.d
Acq On : 27 Jun 2024 4:01 pm
Operator : lianatr
Sample : FC16561-2MS Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:25:53 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	324531	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	212057	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	110364	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	80679	47.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.88%			
49) 1,2-Dichloroethane-d4	8.180	65	98905	50.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.20%			
62) Toluene-d8	10.033	98	297129	50.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.32%			
86) 4-Bromofluorobenzene	12.807	95	89912	49.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	22194	21.8793	ug/L	99
3) Chloromethane	3.132	50	36110	22.8876	ug/L	99
4) Vinyl Chloride	3.266	62	54399	26.2117	ug/L	99
5) 1,3-Butadiene	3.296	39	77920	30.7474	ug/L	90
6) Bromomethane	3.772	94	25419	17.8769	ug/L	97
7) Chloroethane	3.949	64	35916	23.8068	ug/L	96
8) Trichlorofluoromethane	4.156	101	43250	21.5007	ug/L	97
9) Ethyl Ether	4.583	59	23957	24.6176	ug/L	92
10) Ethanol	4.772	45	7844	385.4163	ug/L	95
11) 1,2-Dichlorotrifluoroe...	4.833	67	37158	36.1451	ug/L	95
12) 1,1-Dichloroethene	4.863	61	44297	25.5789	ug/L	95
13) Freon 113	4.900	101	28193	23.1326	ug/L	96
14) Carbon Disulfide	4.924	76	67889	19.9137	ug/L	98
15) Iodomethane	5.064	142	26425	20.0192	ug/L	97
16) Acrolein	5.290	56	38387	139.5744	ug/L	100
17) Allyl chloride	5.461	41	49459	25.5343	ug/L	97
18) Methylene Chloride	5.595	49	48583	25.7645	ug/L	97
19) Acetone	5.643	43	68228	119.1641	ug/L	99
20) Methyl acetate	5.778	43	176345	118.3429	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	47592	27.5923	ug/L	97
22) Hexane	5.869	56	27025	24.1853	ug/L	93
23) Methyl Tert Butyl Ether	5.893	73	80788	24.7066	ug/L	92
24) Acetonitrile	6.210	41	58130	269.3098	ug/L	99
25) Di-isopropyl ether	6.320	45	108994	24.9019	ug/L	99
26) Chloroprene	6.491	53	40760	27.1397	ug/L	96
27) 1,1-Dichloroethane	6.515	63	56377	24.6558	ug/L	97
28) Acrylonitrile	6.570	53	80715	127.2296	ug/L	98
29) ETBE	6.741	59	83662	23.8648	ug/L	98
30) Tert Butyl Alcohol	5.967	59	52745	202.1467	ug/L	94
31) Vinyl acetate	6.765	43	468640	122.3466	ug/L	100
32) cis-1,2-Dichloroethene	7.131	96	56975	44.7439	ug/L	96
33) 2,2-Dichloropropane	7.247	77	36902	25.0555	ug/L	99
34) Bromochloromethane	7.350	128	14497	26.5664	ug/L	92
35) Cyclohexane	7.363	56	58219	27.3340	ug/L	97
36) Chloroform	7.405	83	54437	25.6733	ug/L	97
37) Ethyl acetate	7.497	43	256770	129.4793	ug/L	99
38) Tetrahydrofuran	7.594	42	18914	24.6168	ug/L	97
40) Carbon Tetrachloride	7.588	117	31394	21.8765	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	39745	24.4077	ug/L	97
42) 2-Butanone	7.722	43	116155	109.1297	ug/L	98
43) 1,1-Dichloropropene	7.777	75	42801	27.5082	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47512.d
Acq On : 27 Jun 2024 4:01 pm
Operator : lianatr
Sample : FC16561-2MS Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:25:53 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	7.869	59	47355	174.1873	ug/L		91
45) Propionitrile	8.052	54	75901	262.9380	ug/L		97
46) Methacrylonitrile	8.070	41	344195	266.7770	ug/L		98
47) Benzene	8.045	78	129081	24.8395	ug/L		97
48) TAME	8.113	73	80311	24.0553	ug/L		95
50) 1,2-Dichloroethane	8.253	62	40327	25.6469	ug/L		98
51) tert Amyl alcohol	8.283	59	38838	198.4009	ug/L		96
52) Trichloroethene	8.637	95	34174	26.7764	ug/L		93
53) Methylcyclohexane	8.637	83	56793	24.5761	ug/L		97
54) Dibromomethane	9.082	93	20044	24.4221	ug/L		93
55) 1,2-Dichloropropane	9.173	63	33726	27.6164	ug/L		93
56) Bromodichloromethane	9.216	83	32993	23.7294	ug/L		93
57) Methyl methacrylate	9.332	41	34102	24.7634	ug/L		98
58) 1,4-Dioxane	9.411	88	5682	311.3703	ug/L		79
60) cis-1,3-Dichloropropene	9.850	75	38565	21.2094	ug/L		98
63) Toluene	10.088	91	123691	24.5917	ug/L		97
64) Isobutyl alcohol	8.173	43	43880	494.3960	ug/L		95
65) 2-Nitropropane	10.313	41	32791	127.3429	ug/L		98
66) 4-Methyl-2-pentanone	10.423	43	266958	134.2349	ug/L		98
67) trans-1,3-Dichloropropene	10.484	75	34738	21.4905	ug/L		91
68) Tetrachloroethene	10.490	166	29813	24.5616	ug/L		99
69) Ethyl methacrylate	10.588	69	38066	24.7081	ug/L		91
70) 1,1,2-Trichloroethane	10.649	83	24554	27.1238	ug/L		95
71) Dibromochloromethane	10.844	129	23086	23.2743	ug/L		93
72) 1,3-Dichloropropane	10.935	76	47657	28.8084	ug/L		98
73) 1,2-Dibromoethane	11.112	107	25720	24.5322	ug/L		94
74) 3,3-Dimethyl-1-butanol	11.185	57	94679	988.2147	ug/L		97
75) 2-hexanone	11.246	43	186176	124.1641	ug/L		97
76) 1-Chlorohexane	11.539	91	40940	28.2426	ug/L		96
77) Ethylbenzene	11.606	91	141163	24.0383	ug/L		98
78) Chlorobenzene	11.612	112	79274	24.9979	ug/L		95
79) 1,1,1,2-Tetrachloroethane	11.661	131	23416	25.8571	ug/L		92
80) m,p-Xylene	11.746	91	206100	48.5162	ug/L		98
81) o-Xylene	12.185	91	96934	24.2810	ug/L		97
82) Styrene	12.240	104	69886	23.9964	ug/L		96
83) Bromoform	12.301	173	13470	23.4717	ug/L		94
84) Isopropylbenzene	12.490	105	120224	26.1840	ug/L		100
87) cis-1,4-Dichloro-2-butene	12.849	53	6870	24.4535	ug/L	#	78
88) n-Propylbenzene	12.910	91	151451	25.8453	ug/L		100
89) Bromobenzene	12.941	156	29062	26.8749	ug/L		98
90) 1,1,2,2-Tetrachloroethane	12.977	83	42129	27.2084	ug/L		97
91) 1,3,5-Trimethylbenzene	13.093	105	94154	25.9712	ug/L		97
92) 2-Chlorotoluene	13.105	91	95644	25.0302	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.166	53	7097	22.4345	ug/L	#	80
94) 1,2,3-Trichloropropane	13.148	110	10955	27.7828	ug/L		91
95) Cyclohexanone	13.215	55	4771	92.7506	ug/L		95
96) 4-Chlorotoluene	13.270	91	80056	24.8260	ug/L		95
98) tert-Butylbenzene	13.435	91	52477	25.5265	ug/L		98
99) 1,2,4-Trimethylbenzene	13.502	105	90516	25.6228	ug/L		98
100) Pentachloroethane	13.490	167	13784	23.3194	ug/L		92
101) sec-Butylbenzene	13.618	105	116435	25.0134	ug/L		99
102) 4-Isopropyltoluene	13.746	119	90853	26.1066	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	50596	24.8061	ug/L		99
104) 1,2,3-Trimethylbenzene	13.959	105	101117	25.1722	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	59672	25.1653	ug/L		93
106) n-Butylbenzene	14.166	92	51584	25.9180	ug/L		98
107) Benzyl Chloride	14.197	126	7214	22.2856	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47512.d
Acq On : 27 Jun 2024 4:01 pm
Operator : lianatr
Sample : FC16561-2MS Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:25:53 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

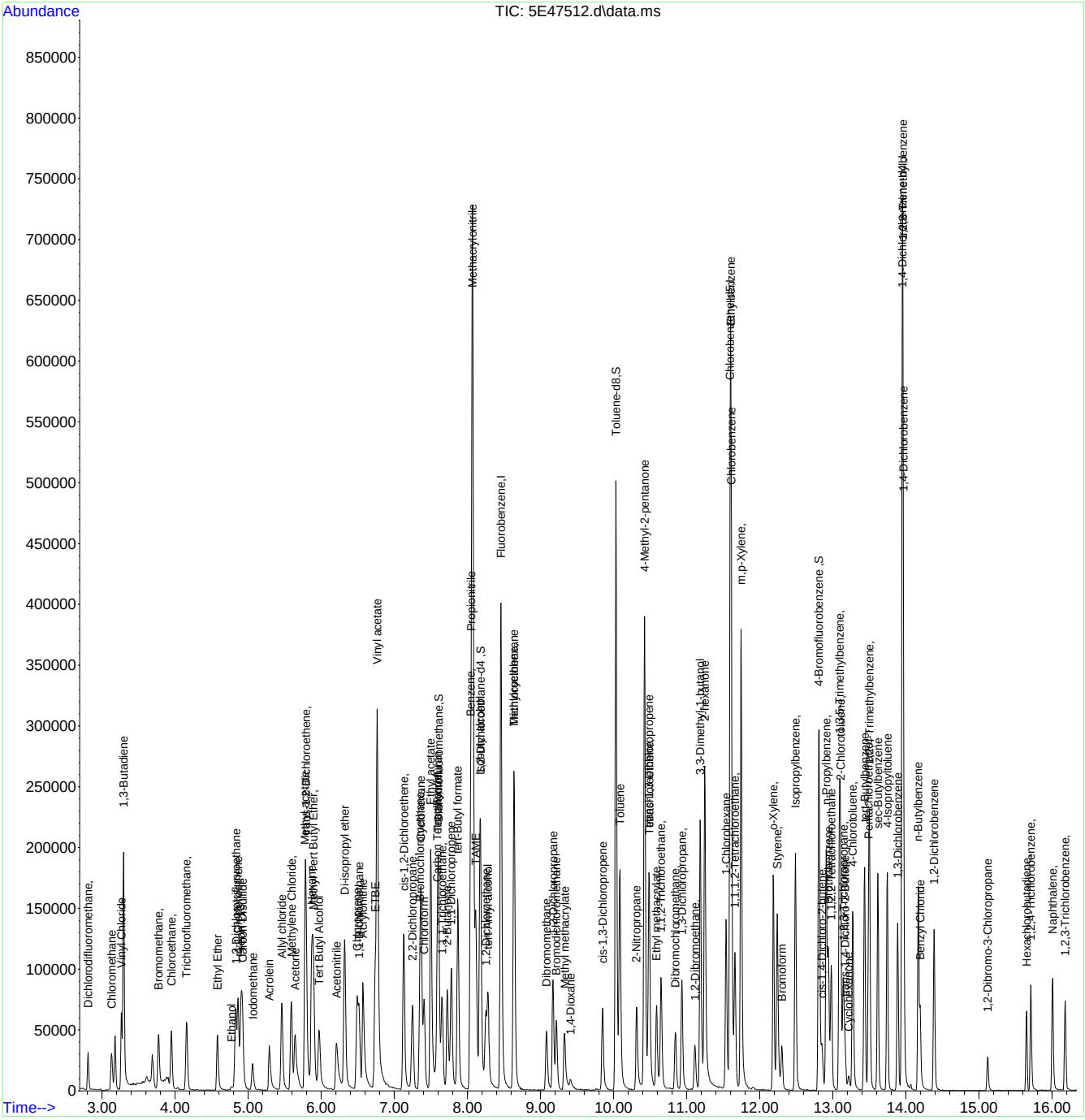
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dichlorobenzene	14.386	146	47828	25.8180	ug/L	95
109) 1,2-Dibromo-3-Chloropr...	15.117	75	5041	22.5973	ug/L	89
110) Hexachlorobutadiene	15.654	225	9457	24.9239	ug/L	93
111) 1,2,4-Trichlorobenzene	15.709	180	24458	26.1640	ug/L	93
112) Naphthalene	16.007	128	67782	23.1908	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	21000	24.9274	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47512.d
Acq On : 27 Jun 2024 4:01 pm
Operator : lianatr
Sample : FC16561-2MS Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:25:53 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47513.d
Acq On : 27 Jun 2024 4:24 pm
Operator : lianatr
Sample : FC16561-2MSD Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 06:25:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	333175	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	215473	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	110977	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	83145	48.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.24%			
49) 1,2-Dichloroethane-d4	8.180	65	96128	47.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.86%			
62) Toluene-d8	10.033	98	303642	50.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.90%			
86) 4-Bromofluorobenzene	12.813	95	93654	51.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	23792	22.8461	ug/L	91
3) Chloromethane	3.132	50	37336	23.0507	ug/L	91
4) Vinyl Chloride	3.266	62	56183	26.3689	ug/L	97
5) 1,3-Butadiene	3.296	39	78785	30.2821	ug/L	94
6) Bromomethane	3.772	94	28553	19.5600	ug/L	97
7) Chloroethane	3.949	64	41575	26.8429	ug/L	98
8) Trichlorofluoromethane	4.156	101	43311	20.9724	ug/L	96
9) Ethyl Ether	4.583	59	24515	24.5374	ug/L	94
10) Ethanol	4.772	45	12262	586.8642	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	37863	35.8753	ug/L	96
12) 1,1-Dichloroethene	4.863	61	45939	25.8388	ug/L	98
13) Freon 113	4.900	101	29453	23.5395	ug/L	95
14) Carbon Disulfide	4.924	76	70373	20.1068	ug/L	98
15) Iodomethane	5.058	142	28414	20.9676	ug/L	95
16) Acrolein	5.290	56	41427	146.7198	ug/L	97
17) Allyl chloride	5.461	41	51066	25.6800	ug/L	93
18) Methylene Chloride	5.589	49	49627	25.6353	ug/L	97
19) Acetone	5.643	43	72606	123.5205	ug/L	95
20) Methyl acetate	5.778	43	186454	121.8806	ug/L	96
21) trans-1,2-Dichloroethene	5.790	61	48450	27.3610	ug/L	93
22) Hexane	5.875	56	27260	23.7627	ug/L	95
23) Methyl Tert Butyl Ether	5.893	73	84139	25.0638	ug/L	97
24) Acetonitrile	6.210	41	61997	279.7733	ug/L	97
25) Di-isopropyl ether	6.320	45	110662	24.6270	ug/L	97
26) Chloroprene	6.491	53	40487	26.2585	ug/L	98
27) 1,1-Dichloroethane	6.515	63	56346	24.0029	ug/L	96
28) Acrylonitrile	6.570	53	82065	126.0015	ug/L	98
29) ETBE	6.741	59	87168	24.2198	ug/L	99
30) Tert Butyl Alcohol	5.973	59	64716	241.5910	ug/L	96
31) Vinyl acetate	6.765	43	481892	122.5423	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	58815	44.9906	ug/L	96
33) 2,2-Dichloropropane	7.247	77	36946	24.4346	ug/L	98
34) Bromochloromethane	7.350	128	14383	25.6736	ug/L #	83
35) Cyclohexane	7.363	56	57734	26.4031	ug/L	94
36) Chloroform	7.411	83	54643	25.1018	ug/L	97
37) Ethyl acetate	7.497	43	268263	131.7652	ug/L	99
38) Tetrahydrofuran	7.594	42	19298	24.4649	ug/L	98
40) Carbon Tetrachloride	7.582	117	32568	22.1058	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	40634	24.3062	ug/L	97
42) 2-Butanone	7.722	43	120562	110.3315	ug/L	97
43) 1,1-Dichloropropene	7.783	75	42111	26.3625	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47513.d
Acq On : 27 Jun 2024 4:24 pm
Operator : lianatr
Sample : FC16561-2MSD Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 06:25:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	7.869	59	47431	170.4112	ug/L		89
45) Propionitrile	8.052	54	80629	271.0590	ug/L		96
46) Methacrylonitrile	8.070	41	353427	266.8202	ug/L		99
47) Benzene	8.045	78	131482	24.6451	ug/L		97
48) TAME	8.113	73	83302	24.3038	ug/L		96
50) 1,2-Dichloroethane	8.253	62	41457	25.6815	ug/L		98
51) tert Amyl alcohol	8.283	59	48095	239.3153	ug/L		95
52) Trichloroethene	8.637	95	34951	26.6748	ug/L		98
53) Methylcyclohexane	8.637	83	56432	23.7863	ug/L		96
54) Dibromomethane	9.082	93	19884	23.5986	ug/L		98
55) 1,2-Dichloropropane	9.173	63	34243	27.3123	ug/L		98
56) Bromodichloromethane	9.216	83	34213	23.9684	ug/L		98
57) Methyl methacrylate	9.326	41	34982	24.7433	ug/L		96
58) 1,4-Dioxane	9.411	88	9492	506.6610	ug/L		83
60) cis-1,3-Dichloropropene	9.850	75	40170	21.5190	ug/L		96
63) Toluene	10.088	91	125495	24.5548	ug/L		98
64) Isobutyl alcohol	8.173	43	54180	600.7684	ug/L		98
65) 2-Nitropropane	10.313	41	35696	135.3555	ug/L		96
66) 4-Methyl-2-pentanone	10.423	43	279782	138.4529	ug/L		98
67) trans-1,3-Dichloropropene	10.484	75	34996	21.3068	ug/L		93
68) Tetrachloroethene	10.490	166	30092	24.3984	ug/L		95
69) Ethyl methacrylate	10.588	69	39454	25.2030	ug/L		96
70) 1,1,2-Trichloroethane	10.649	83	25169	27.3624	ug/L		98
71) Dibromochloromethane	10.850	129	23999	23.8112	ug/L		93
72) 1,3-Dichloropropane	10.935	76	48428	28.8104	ug/L		97
73) 1,2-Dibromoethane	11.112	107	26686	25.0501	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.185	57	165906	1528.0998	ug/L		98
75) 2-hexanone	11.246	43	200063	131.3103	ug/L		99
76) 1-Chlorohexane	11.539	91	41840	28.4059	ug/L		95
77) Ethylbenzene	11.606	91	143368	24.0268	ug/L		98
78) Chlorobenzene	11.612	112	79344	24.6234	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	24079	26.1676	ug/L		98
80) m,p-Xylene	11.746	91	211094	48.9040	ug/L		100
81) o-Xylene	12.185	91	98347	24.2444	ug/L		99
82) Styrene	12.240	104	73955	24.9909	ug/L		97
83) Bromoform	12.301	173	14510	24.7374	ug/L		92
84) Isopropylbenzene	12.490	105	120927	25.9195	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.849	53	7508	26.4624	ug/L	#	83
88) n-Propylbenzene	12.910	91	154831	26.2762	ug/L		100
89) Bromobenzene	12.941	156	29914	27.5100	ug/L		95
90) 1,1,2,2-Tetrachloroethane	12.977	83	44776	28.7581	ug/L		98
91) 1,3,5-Trimethylbenzene	13.093	105	96205	26.3903	ug/L		99
92) 2-Chlorotoluene	13.105	91	99623	25.9275	ug/L		96
93) trans-1,4-Dichloro-2-B...	13.166	53	7939	24.9576	ug/L	#	78
94) 1,2,3-Trichloropropane	13.148	110	11182	28.2018	ug/L		93
95) Cyclohexanone	13.221	55	7425	143.5483	ug/L		95
96) 4-Chlorotoluene	13.270	91	81998	25.2878	ug/L		99
98) tert-Butylbenzene	13.435	91	53530	25.8948	ug/L		97
99) 1,2,4-Trimethylbenzene	13.502	105	94634	26.6405	ug/L		98
100) Pentachloroethane	13.490	167	14114	23.7458	ug/L		96
101) sec-Butylbenzene	13.618	105	119082	25.4407	ug/L		99
102) 4-Isopropyltoluene	13.746	119	93457	26.7065	ug/L		100
103) 1,3-Dichlorobenzene	13.886	146	52101	25.4029	ug/L		95
104) 1,2,3-Trimethylbenzene	13.959	105	103864	25.7132	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	59844	25.0984	ug/L		96
106) n-Butylbenzene	14.166	92	56449	28.2057	ug/L		100
107) Benzyl Chloride	14.197	126	7812	23.8164	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47513.d
Acq On : 27 Jun 2024 4:24 pm
Operator : lianatr
Sample : FC16561-2MSD Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 06:25:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dichlorobenzene	14.386	146	49928	26.8028	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	15.117	75	5631	25.1027	ug/L	91
110) Hexachlorobutadiene	15.654	225	10032	26.2932	ug/L	97
111) 1,2,4-Trichlorobenzene	15.709	180	26460	28.1493	ug/L	99
112) Naphthalene	16.007	128	76607	26.0654	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	23383	27.6028	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

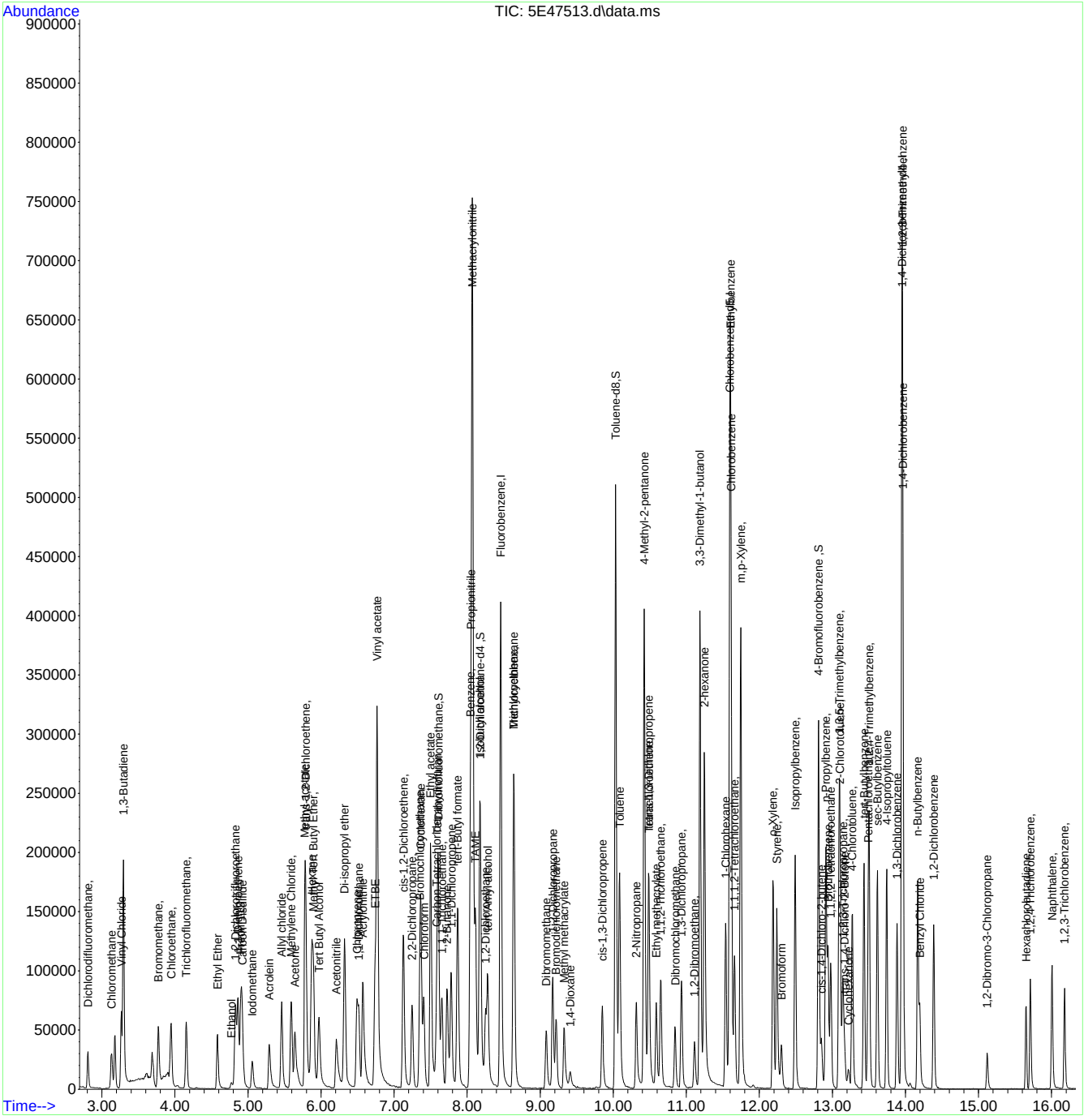
7.4.6

7

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47513.d
Acq On : 27 Jun 2024 4:24 pm
Operator : lianatr
Sample : FC16561-2MSD Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,5
ALS Vial : 24 Sample Multiplier: 1

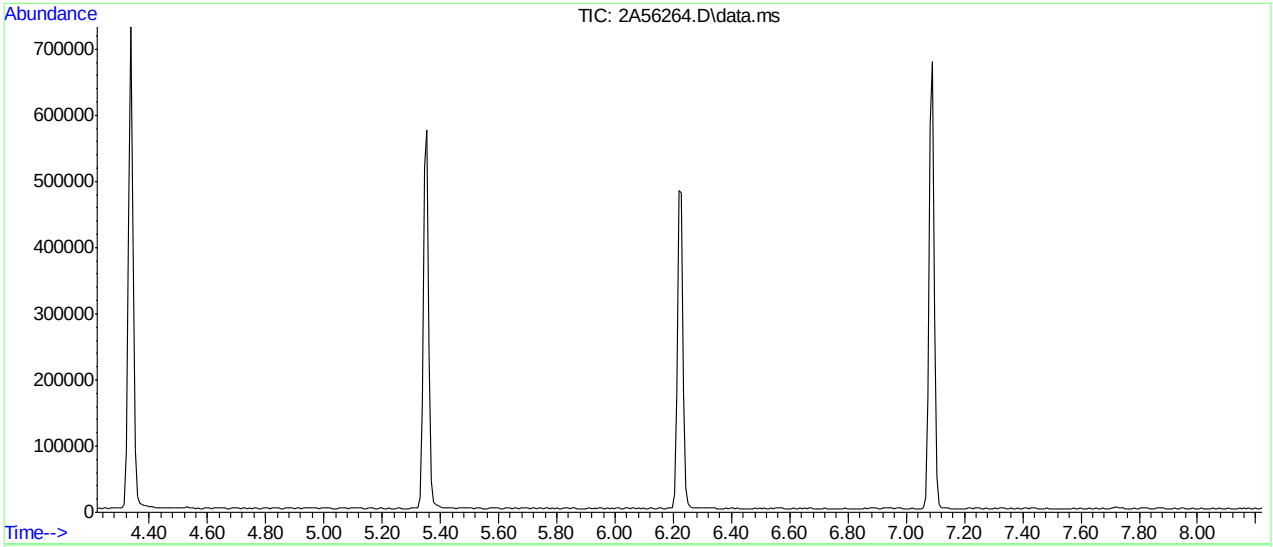
Quant Time: Jun 28 06:25:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

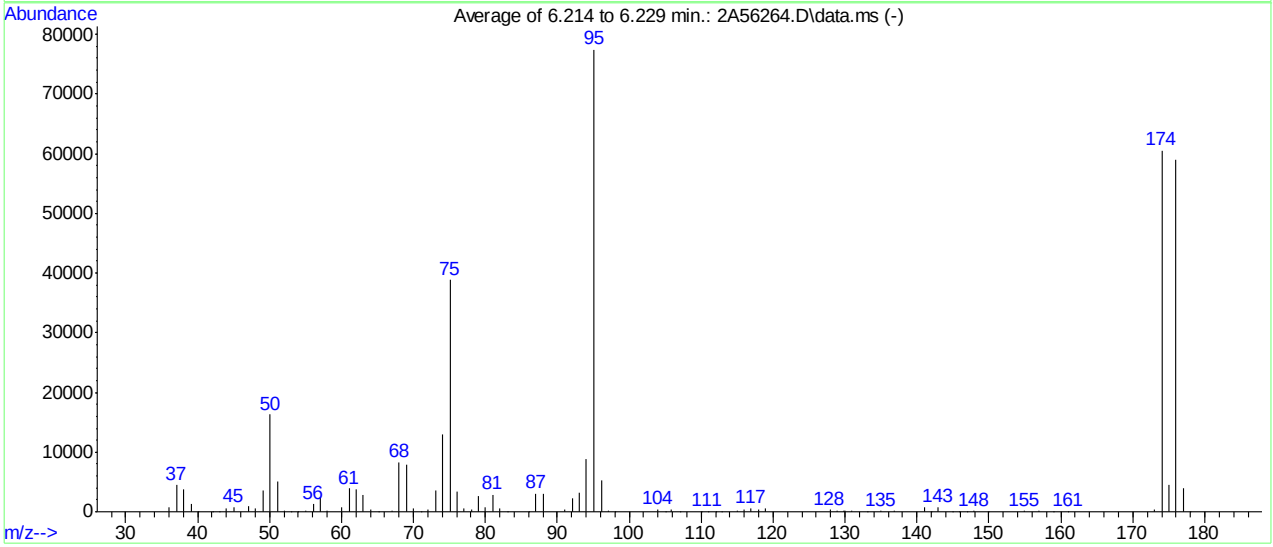


Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\06-25-2024\2A56264.D Vial: 51
Acq On : 25 Jun 2024 7:28 am Operator: jeniferw
Sample : BFB Inst : MSVOA17
Misc : MS56892,V2A1910,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B





AutoFind: Scans 796, 797, 798; Background Corrected with Scan 791

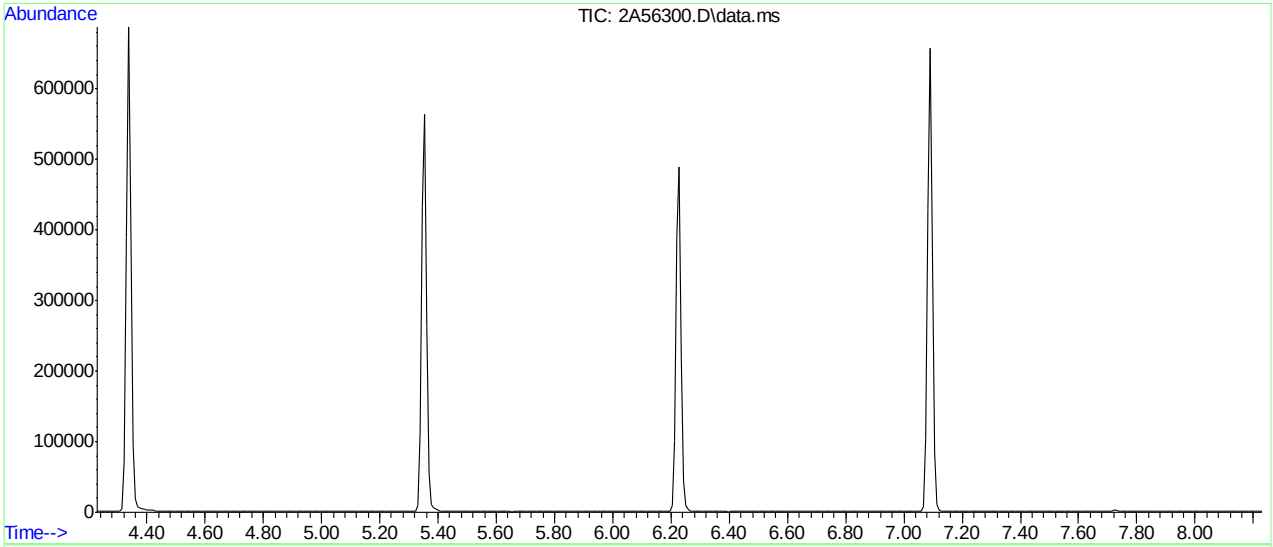
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	77464	PASS
96	95	5	9	6.8	5256	PASS
173	174	0.00	2	0.7	451	PASS
174	95	50	200	78.2	60557	PASS
175	174	5	9	7.4	4463	PASS
176	174	95	105	97.4	58979	PASS
177	176	5	10	6.6	3865	PASS

2A56264.D V2A1910_06252024.M Tue Jun 25 11:23:07 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\06-26-2024\2A56300.D Vial: 1
Acq On : 26 Jun 2024 7:30 am Operator: jeniferw
Sample : BFB Inst : MSVOA17
Misc : MS56910,V2A1911,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 797, 798, 799; Background Corrected with Scan 792

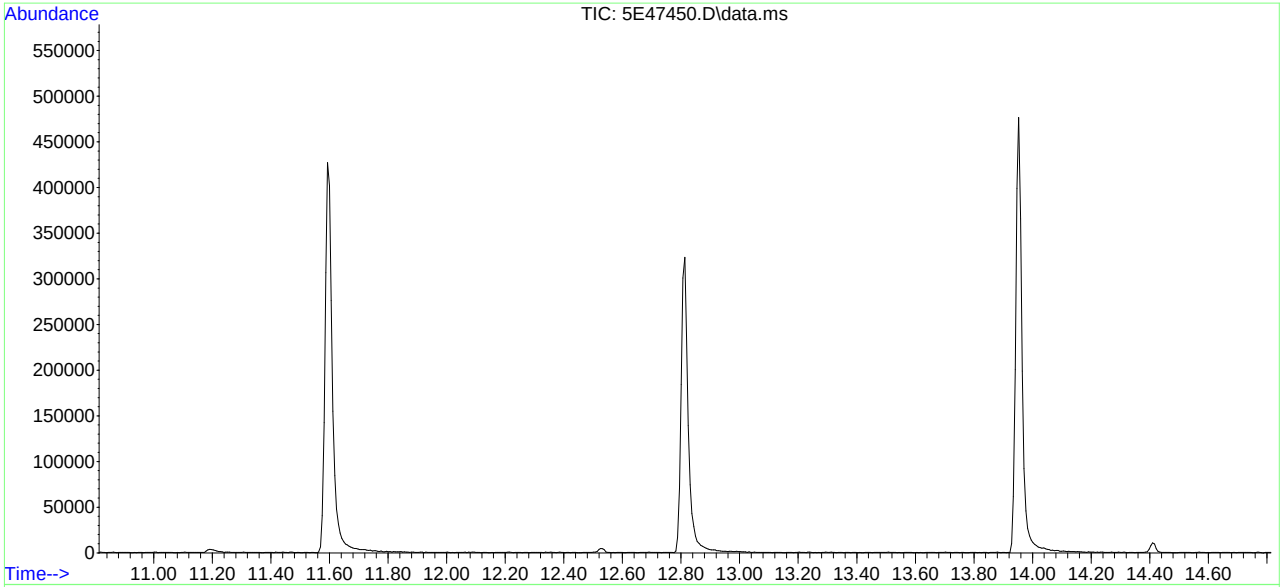
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	72597	PASS
96	95	5	9	6.5	4744	PASS
173	174	0.00	2	0.7	456	PASS
174	95	50	200	85.6	62125	PASS
175	174	5	9	6.6	4131	PASS
176	174	95	105	98.3	61056	PASS
177	176	5	10	6.6	4046	PASS

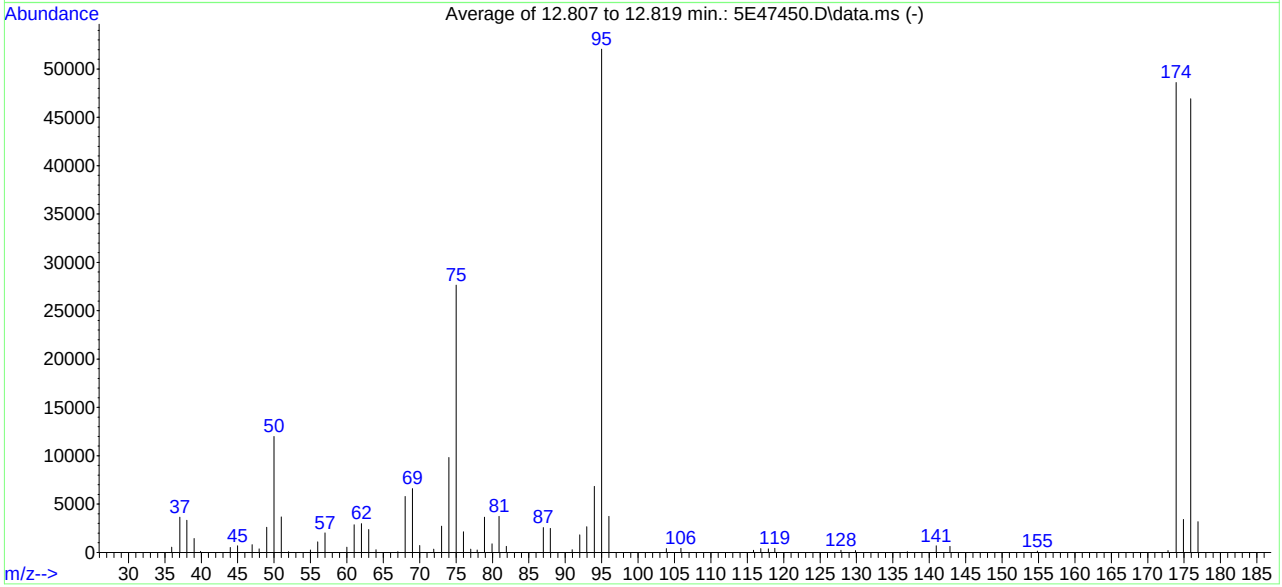
2A56300.D V2A1910_06252024.M Wed Jun 26 08:27:39 2024

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\06-25-2024\5E47450.D       Vial: 1
Acq On    : 25 Jun 2024  12:21 pm                    Operator: lianatr
Sample    : BFB                                      Inst    : MSVOA20_5E
Misc      : MS56906,V5E2113,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method    : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

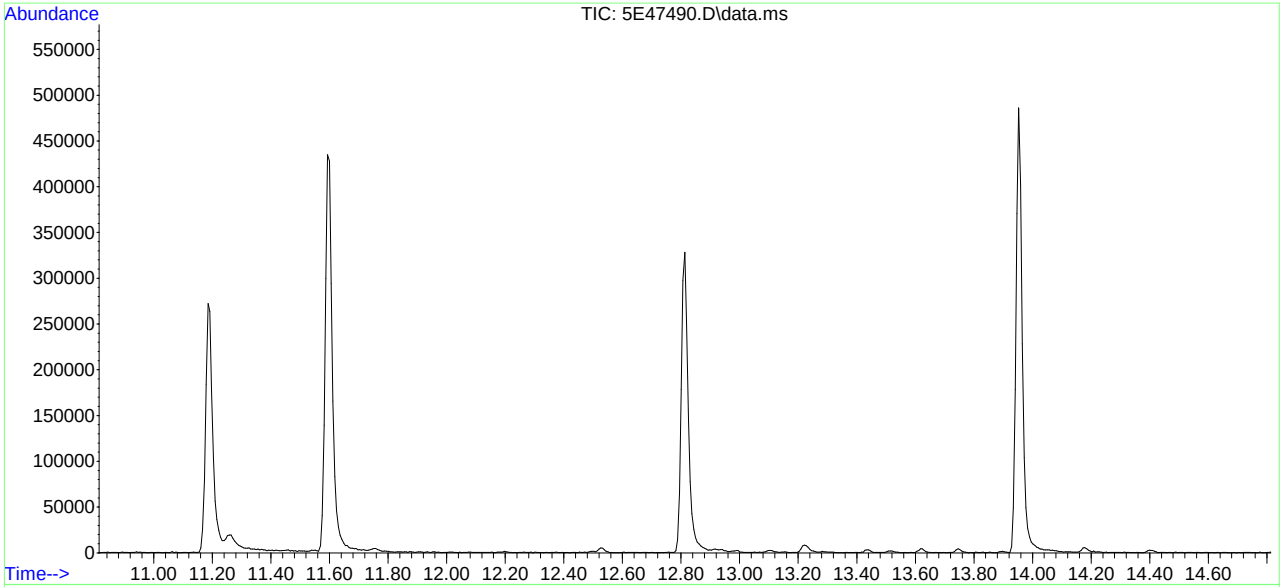
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	52048	PASS
96	95	5	9	7.2	3740	PASS
173	174	0.00	2	0.4	195	PASS
174	95	50	200	93.4	48613	PASS
175	174	5	9	7.0	3397	PASS
176	174	95	105	96.5	46925	PASS
177	176	5	10	6.7	3166	PASS

5E47450.D V5E2113_06252024_.M Wed Jun 26 06:58:25 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\06-27-2024\5E47490.D Vial: 1
Acq On : 27 Jun 2024 7:07 am Operator: lianatr
Sample : BFB Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	53995	PASS
96	95	5	9	6.7	3620	PASS
173	174	0.00	2	0.5	264	PASS
174	95	50	200	91.8	49584	PASS
175	174	5	9	6.4	3158	PASS
176	174	95	105	96.5	47872	PASS
177	176	5	10	6.6	3141	PASS

5E47490.D V5E2113_06252024_.M Thu Jun 27 11:46:42 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	297436	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	232430	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	132984	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	88270	49.91	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.82%				
49) 1,2-Dichloroethane-d4	3.235	65	104178	63.53	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 127.06%#				
63) Toluene-d8	4.336	98	309511	53.19	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.38%				
86) 4-Bromofluorobenzene	6.229	174	105196	49.60	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	1640	1.08	ug/L		95
3) Chloromethane	1.134	50	2361	1.74	ug/L		99
4) 1,3-butadiene	1.188	39	3598	4.81	ug/L	#	73
5) Vinyl Chloride	1.180	62	2090	1.90	ug/L		100
6) Bromomethane	1.350	94	1508	3.30	ug/L		87
7) Chloroethane	1.419	64	1669	2.72	ug/L		79
8) Trichlorofluoromethane	1.503	101	2335	1.21	ug/L		95
9) Ethyl Ether	1.657	59	1332	1.54	ug/L		90
11) 1,2-Dichlorotrifluoroe...	1.750	67	1844	2.01	ug/L		88
12) 1,1-Dichloroethene	1.765	61	2657	1.58	ug/L		82
13) Freon 113	1.788	101	1273	0.89	ug/L	#	77
14) Carbon Disulfide	1.788	76	5711	1.50	ug/L		79
15) Iodomethane	1.834	142	526m	0.61	ug/L		
16) Acrolein	1.911	56	1391	5.99	ug/L		91
17) Allyl chloride	1.996	41	3161	2.42	ug/L		80
18) Methylene Chloride	2.050	49	4632	3.37	ug/L	#	72
19) Acetone	2.058	43	3277	9.10	ug/L		82
20) Methyl acetate	2.127	43	8080	8.54	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	2870	1.73	ug/L		82
22) Hexane	2.204	56	1341	1.19	ug/L	#	81
23) Methyl Tert Butyl Ether	2.196	73	4066	1.22	ug/L		90
24) Acetonitrile	2.273	41	2643	18.89	ug/L		95
25) Tert Butyl Alcohol	2.212	59	2490	14.08	ug/L		59
26) Di-isopropyl ether	2.396	45	5274	1.99	ug/L		91
27) Chloroprene	2.442	53	6727	1.61	ug/L		94
28) 1,1-Dichloroethane	2.442	63	3614	1.65	ug/L		93
29) Acrylonitrile	2.442	52	3921	7.91	ug/L		95
30) ETBE	2.581	59	4358	1.36	ug/L		89
31) Vinyl acetate	2.566	43	15264	8.17	ug/L		99
32) cis-1,2-Dichloroethene	2.719	96	2490	1.54	ug/L	#	78
33) 2,2-Dichloropropane	2.781	77	3025	1.75	ug/L		95
34) Bromochloromethane	2.827	128	893	0.96	ug/L	#	69
35) Cyclohexane	2.858	56	2686	1.37	ug/L	#	73
36) Chloroform	2.858	83	3966	1.58	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	2.920	43	9386	8.66	ug/L		90
40) Carbon Tetrachloride	2.966	117	2583m	1.12	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	3287	1.44	ug/L		91
42) 2-Butanone	3.004	43	4685	8.04	ug/L		83
43) 1,1-Dichloropropene	3.058	75	2350	1.44	ug/L		83
44) tert-Butyl formate	3.097	59	5213	5.52	ug/L		94
45) Propionitrile	3.143	54	3105	14.01	ug/L		91
46) Methacrylonitrile	3.166	41	10528	15.73	ug/L		89
47) Benzene	3.181	78	7458	1.44	ug/L		94
48) TAME	3.251	73	4033	1.30	ug/L		95
50) 1,2-Dichloroethane	3.274	62	2448	1.47	ug/L		98
51) Isobutyl Alcohol	3.251	43	3183	33.86	ug/L		68
52) Tert Amyl Alcohol	3.320	59	1813	12.89	ug/L		82
53) Trichloroethene	3.512	95	1911	1.26	ug/L		90
54) Methylcyclohexane	3.528	83	2627	1.09	ug/L	#	73
55) Dibromomethane	3.735	93	1087	1.20	ug/L		88
56) 1,2-Dichloropropane	3.789	63	1767	1.54	ug/L		88
57) Bromodichloromethane	3.828	83	2480	1.40	ug/L	#	97
58) Methyl methacrylate	3.920	41	1438	1.77	ug/L	#	69
59) 1,4-Dioxane	3.943	88	116m	7.43	ug/L		
60) 2-Chloroethyl vinyl ether	4.166	63	5113	7.04	ug/L		85
61) cis-1,3-Dichloropropene	4.205	75	2368	1.26	ug/L		75
64) Toluene	4.367	91	8453	1.49	ug/L		99
65) 2-Nitropropane	4.467	41	2839	9.98	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	10387	9.77	ug/L		84
67) trans-1,3-Dichloropropene	4.613	75	2316	1.39	ug/L		81
68) Tetrachloroethene	4.628	166	1941	0.94	ug/L		85
69) Ethyl methacrylate	4.728	69	2089	1.47	ug/L		78
70) 1,1,2-Trichloroethane	4.713	83	1588	1.66	ug/L		93
71) Dibromochloromethane	4.836	129	1550	0.97	ug/L		85
72) 1,3-Dichloropropane	4.890	76	2082	1.18	ug/L		83
73) 1,2-Dibromoethane	4.990	107	1471	1.06	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	13057	80.58	ug/L		92
75) 2-hexanone	5.136	43	9719	9.31	ug/L		78
76) 1-Chlorohexane	5.359	91	3228m	1.58	ug/L		
77) Ethylbenzene	5.390	91	9767m	1.54	ug/L		
78) Chlorobenzene	5.359	112	5206	1.27	ug/L		74
79) 1,1,1,2-Tetrachloroethane	5.406	131	1574	1.05	ug/L		82
80) m,p-Xylene	5.498	91	15825	3.05	ug/L		91
81) o-Xylene	5.798	91	8011	1.51	ug/L		90
82) Styrene	5.829	104	5502	1.35	ug/L		86
83) Bromoform	5.837	173	1103	0.86	ug/L		93
84) Isopropylbenzene	6.037	105	9505	1.40	ug/L		94
87) cis-1,4-Dichloro-2-butene	6.260	53	677m	1.75	ug/L		
88) n-Propylbenzene	6.344	91	12193	1.89	ug/L		90
89) Bromobenzene	6.298	156	2131	1.24	ug/L	#	61
90) 1,1,2,2-Tetrachloroethane	6.368	83	2595	1.79	ug/L		93
91) 1,3,5-Trimethylbenzene	6.498	105	7953	1.63	ug/L		95
92) 2-Chlorotoluene	6.452	91	6478	1.73	ug/L		92
93) trans-1,4-Dichloro-2-B...	6.506	53	981	2.15	ug/L	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

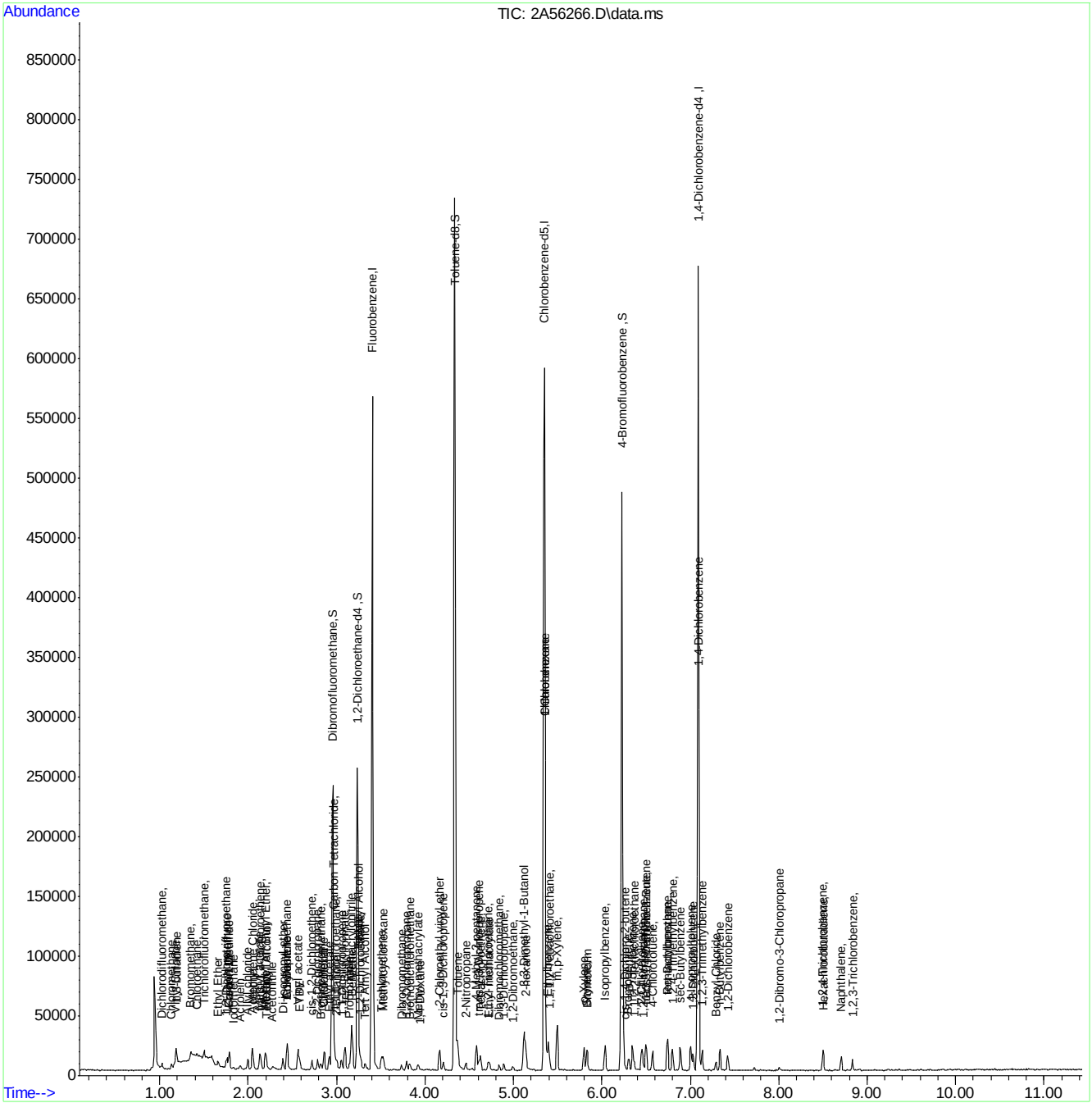
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94) 1,2,3-Trichloropropane	6.468	110	567m	1.18	ug/L		
96) 4-Chlorotoluene	6.575	91	6893	1.73	ug/L		88
97) tert-Butylbenzene	6.745	91	4910	1.86	ug/L		83
98) 1,2,4-Trimethylbenzene	6.799	105	7296	1.42	ug/L		97
99) Pentachloroethane	6.745	167	1018	0.99	ug/L	#	25
100) sec-Butylbenzene	6.883	105	10341	1.64	ug/L		94
101) 4-Isopropyltoluene	7.006	119	8890	1.64	ug/L		94
102) 1,3-Dichlorobenzene	7.029	146	4125	1.22	ug/L		90
103) 1,2,3-Trimethylbenzene	7.137	105	6702	1.41	ug/L		99
104) 1,4-Dichlorobenzene	7.099	146	4179m	1.23	ug/L		
105) n-Butylbenzene	7.337	92	3861	1.59	ug/L		91
106) Benzyl Chloride	7.291	126	719m	1.05	ug/L		
107) 1,2-Dichlorobenzene	7.422	146	3415	1.14	ug/L		91
108) 1,2-Dibromo-3-Chloropr...	8.007	75	421m	1.44	ug/L		
109) Hexachlorobutadiene	8.507	225	1156	1.09	ug/L		88
110) 1,2,4-Trichlorobenzene	8.499	180	2195	1.10	ug/L		87
111) Naphthalene	8.707	128	5670	1.29	ug/L		98
112) 1,2,3-Trichlorobenzene	8.838	180	1947	1.06	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

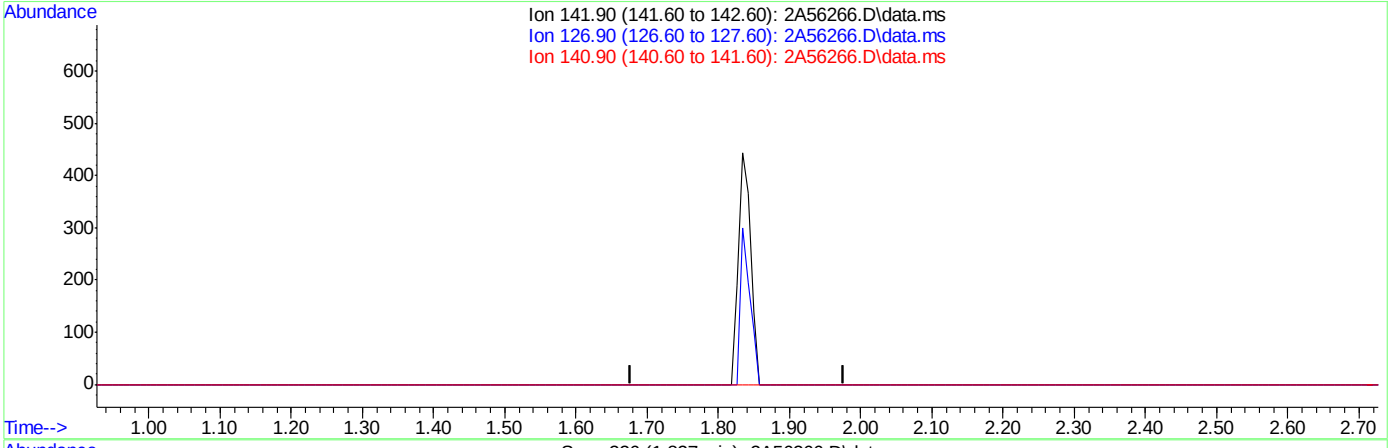
Sample Number: V2A1910-IC1910
Lab FileID: 2A56266.D
Injection Time: 06/25/24 08:07
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

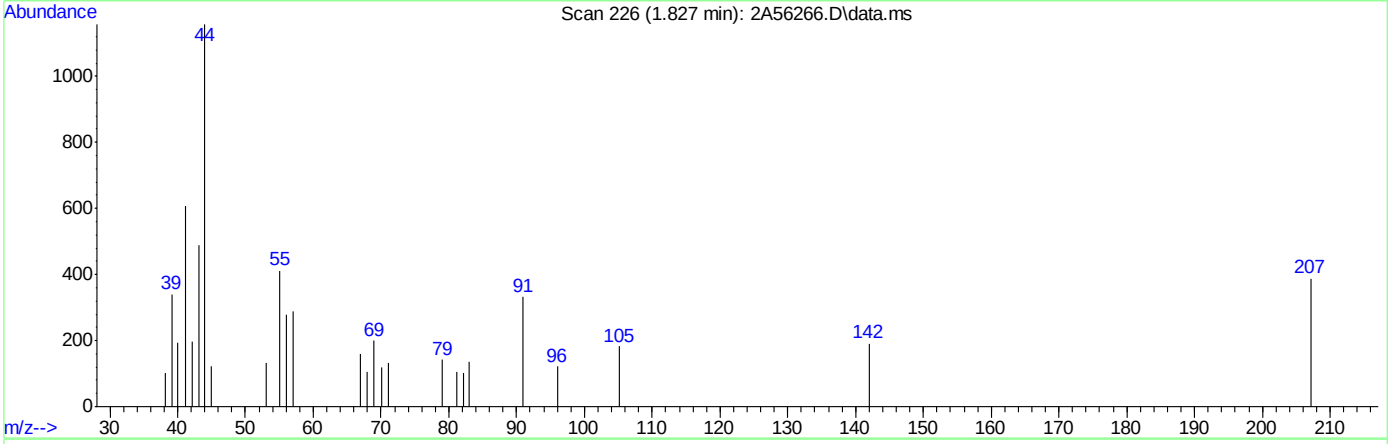
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Iodide	74-88-4		1.83	Missed peak
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1,4-Dioxane	123-91-1		3.94	Missed peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline
cis-1,4-Dichloro-2-Butene	1476-11-5		6.26	Missed peak
1,2,3-Trichloropropane	96-18-4		6.47	Missed peak
1,4-Dichlorobenzene	106-46-7		7.10	Missed peak
Benzyl Chloride	100-44-7		7.29	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.01	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(15) Iodomethane

1.827min (-1.827) 0.00ug/L

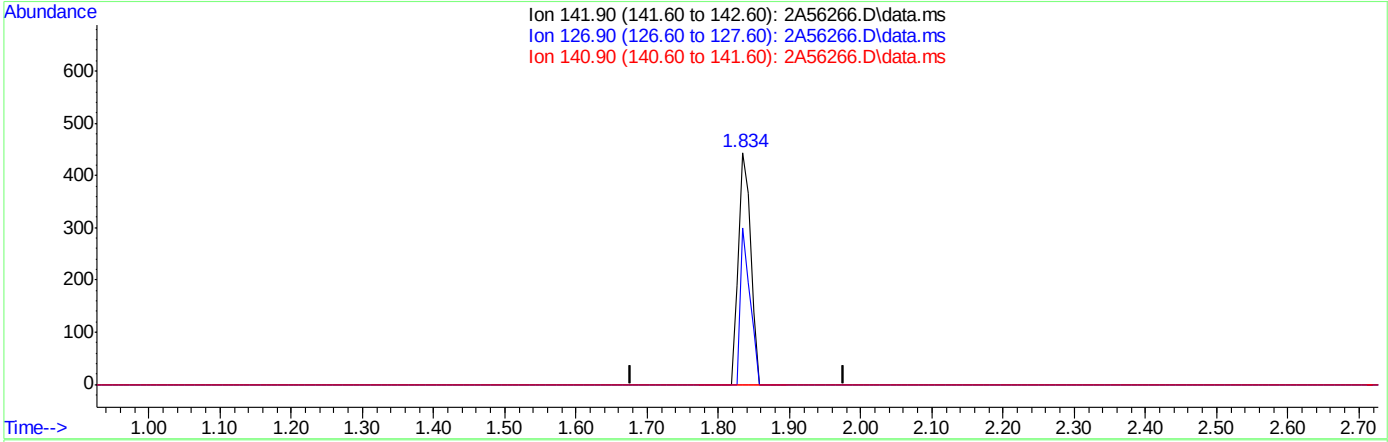
response 0

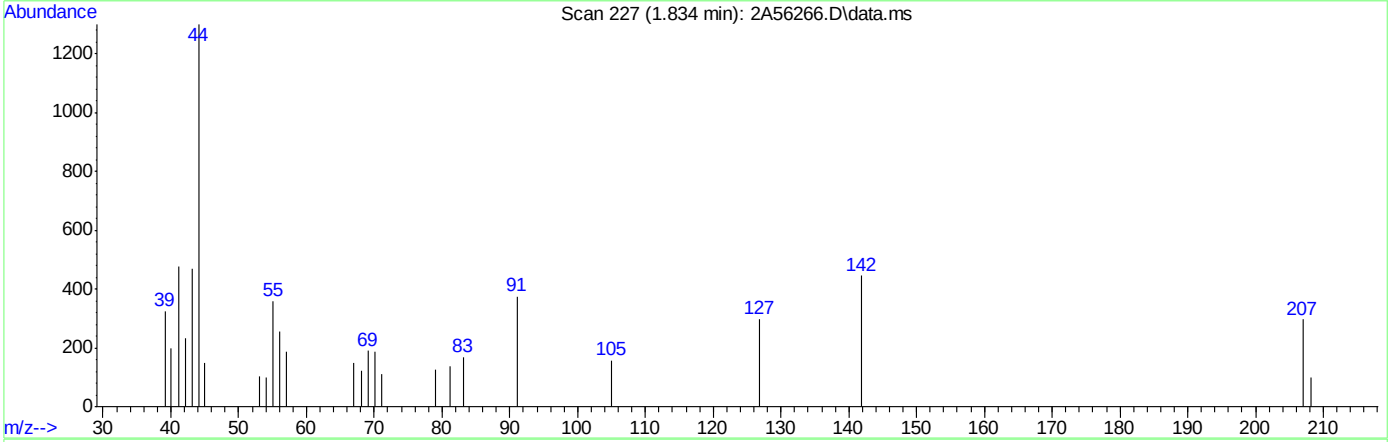
Ion	Exp%	Act%
141.90	100	0.00
126.90	37.10	0.00#
140.90	14.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(15) Iodomethane

1.834min (+0.007) 0.61ug/L m

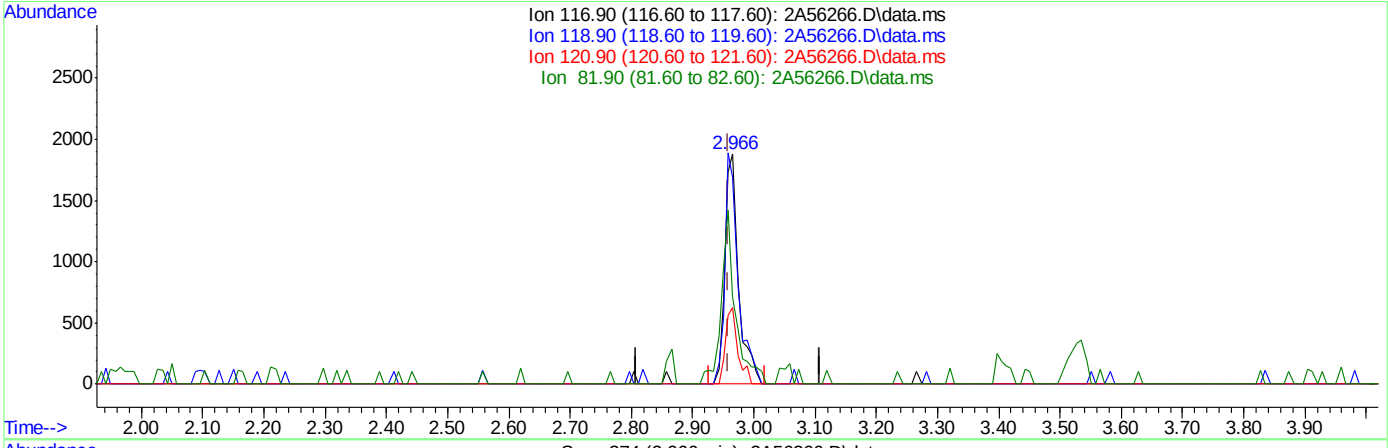
response 526

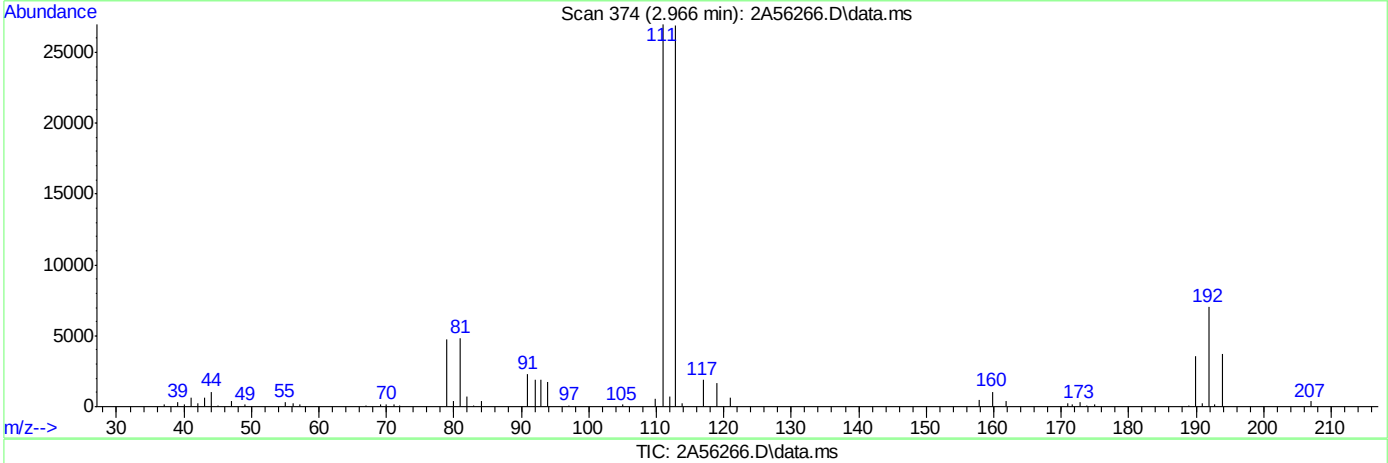
Ion	Exp%	Act%
141.90	100	100
126.90	37.10	67.34#
140.90	14.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 1.25ug/L

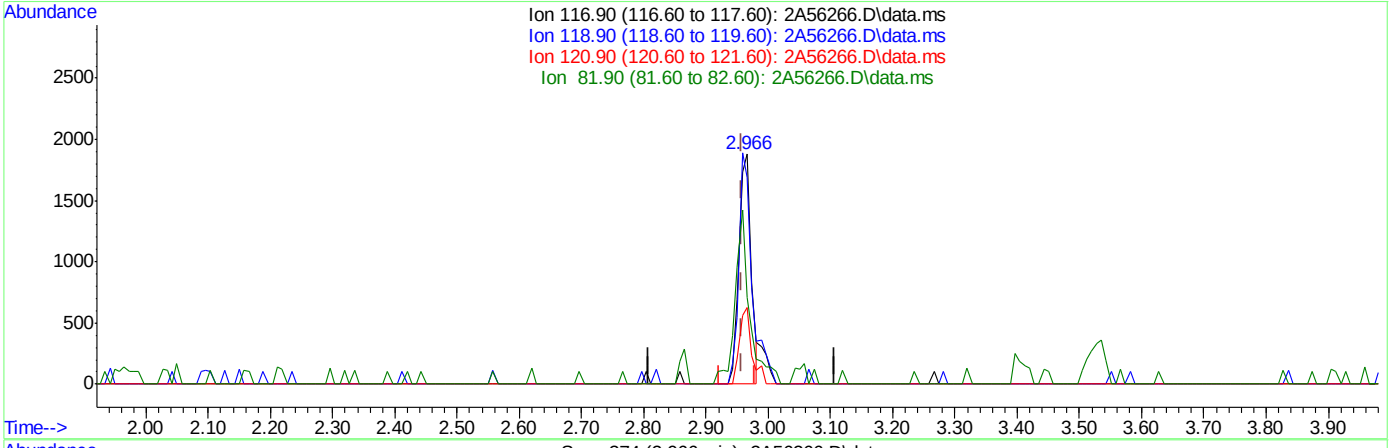
response 2884

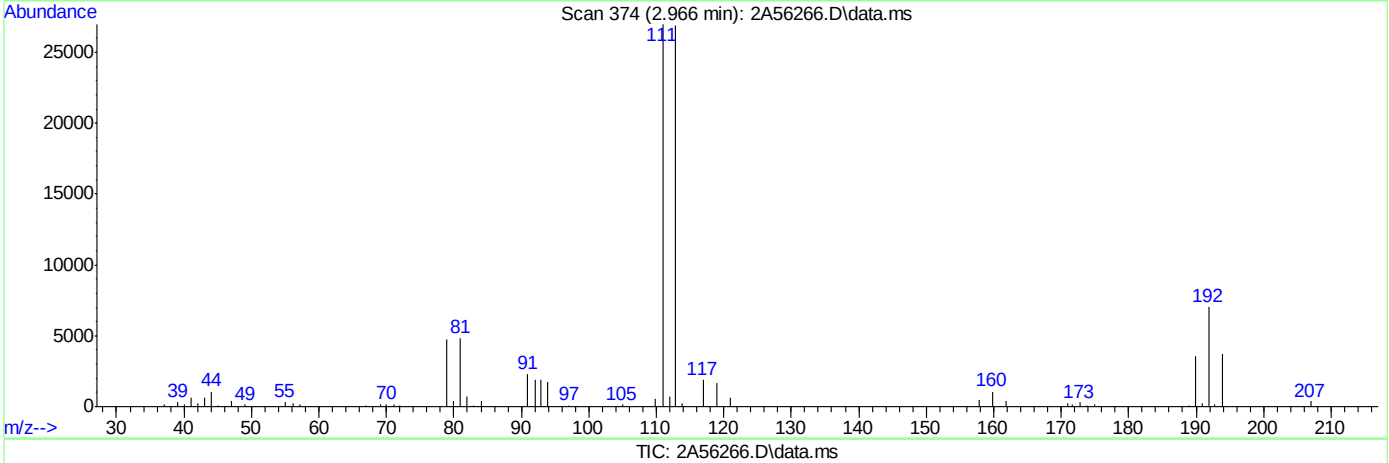
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	89.89
120.90	31.00	33.14
81.90	19.00	37.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 1.12ug/L m

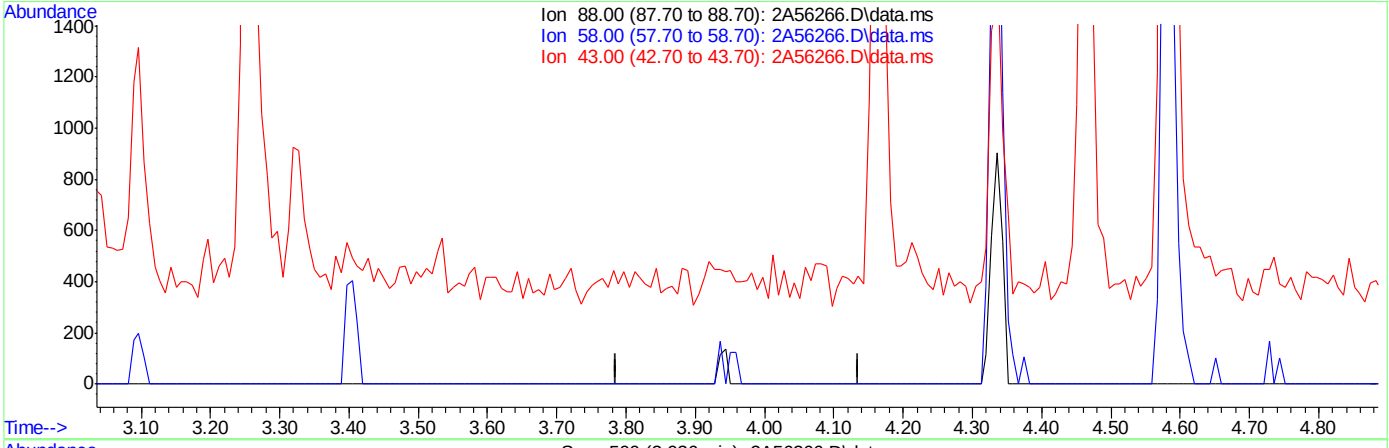
response 2583

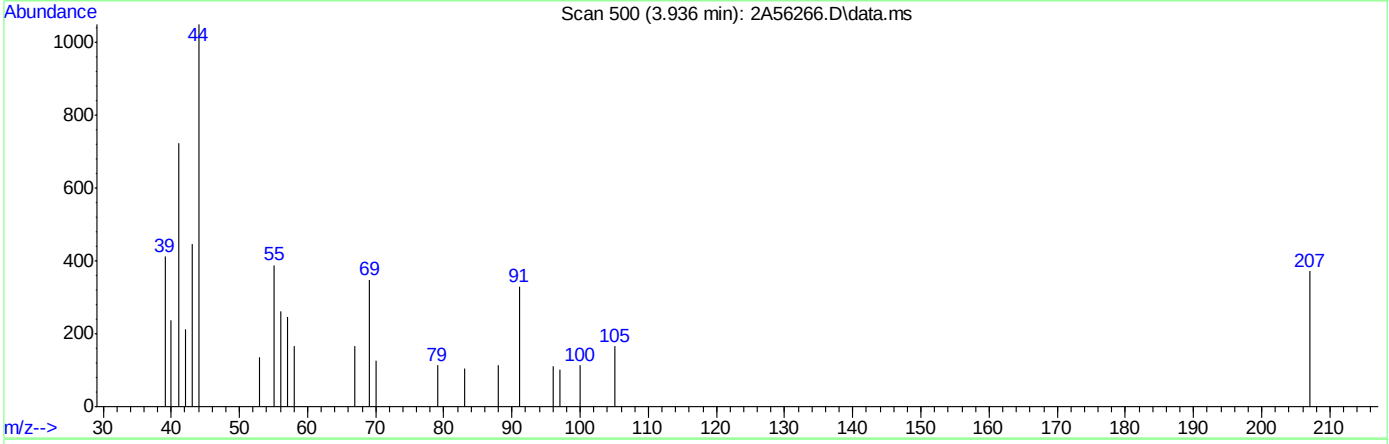
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	89.89
120.90	31.00	33.14
81.90	19.00	37.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(59) 1,4-Dioxane

3.936min (-3.936) 0.00ug/L

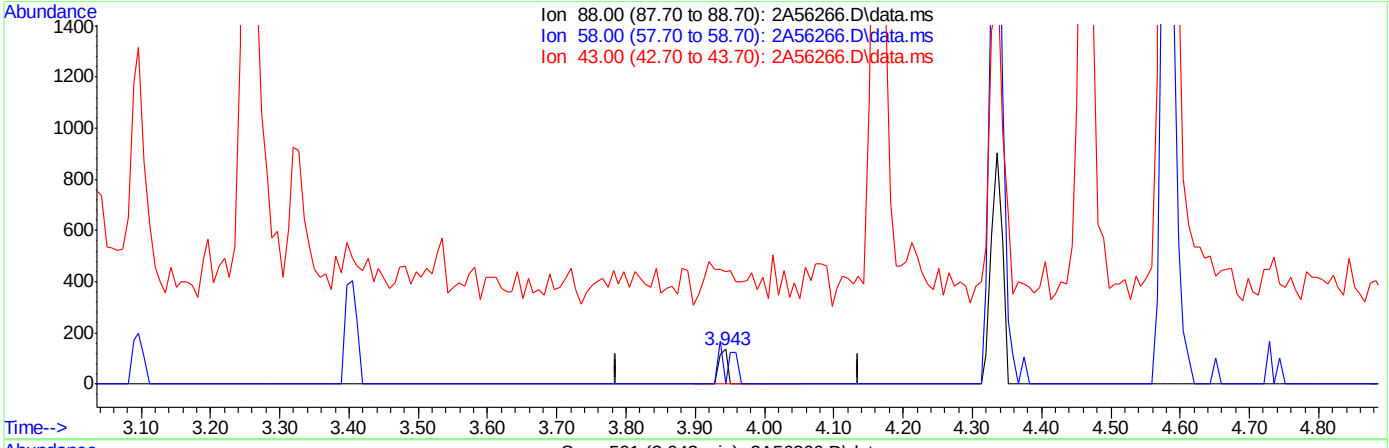
response 0

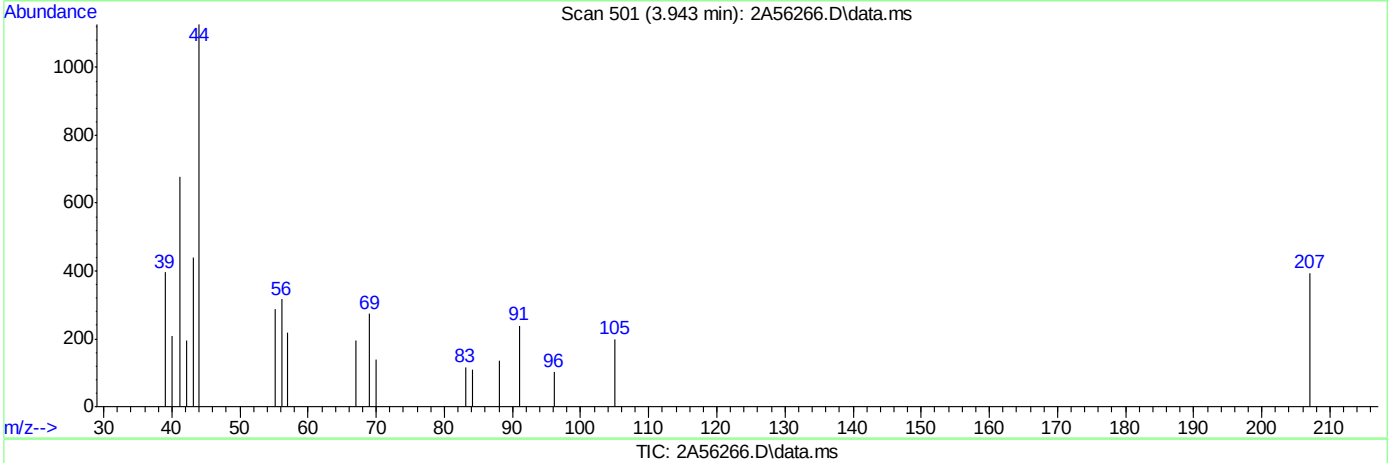
Ion	Exp%	Act%
88.00	100	0.00
58.00	63.50	0.00#
43.00	19.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(59) 1,4-Dioxane

3.943min (+0.007) 7.43ug/L m

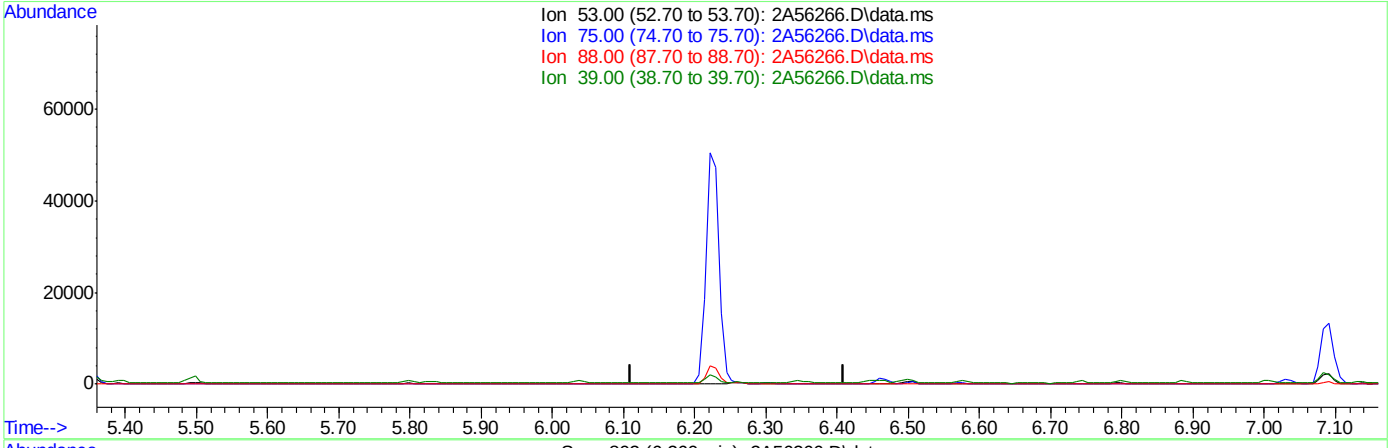
response 116

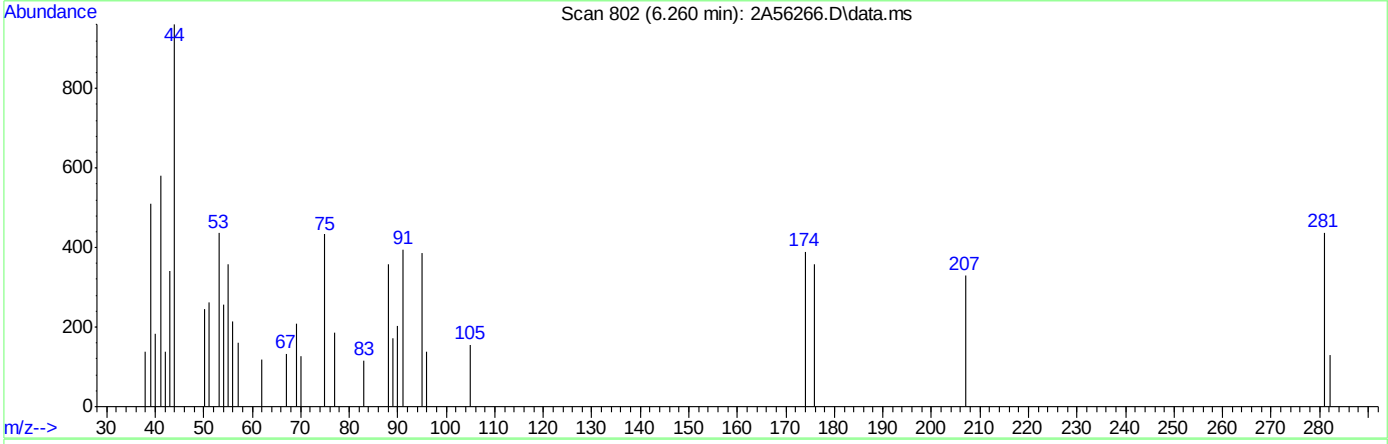
Ion	Exp%	Act%
88.00	100	100
58.00	63.50	0.00#
43.00	19.40	324.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.260min (-6.260) 0.00ug/L

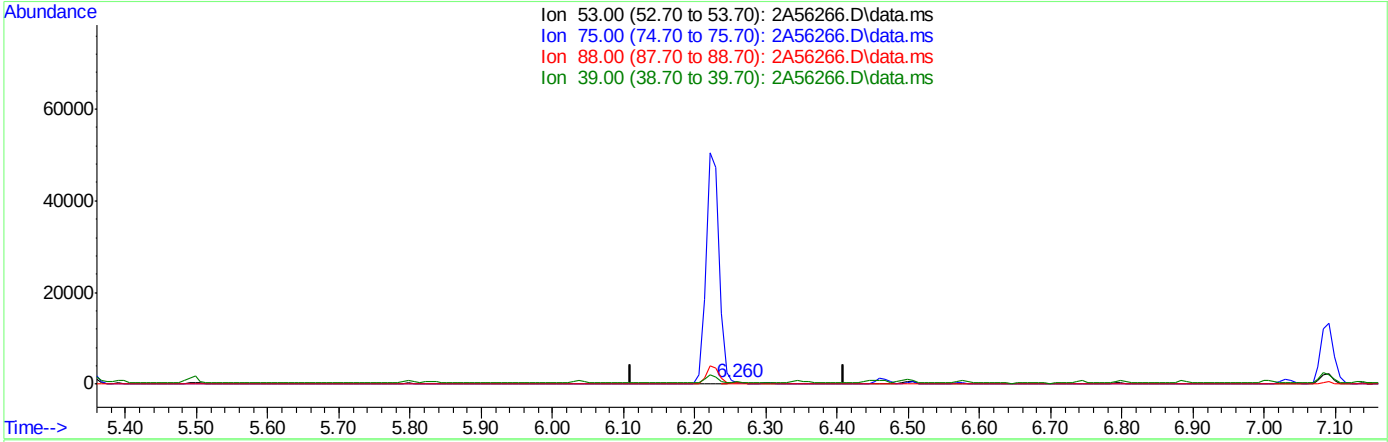
response 0

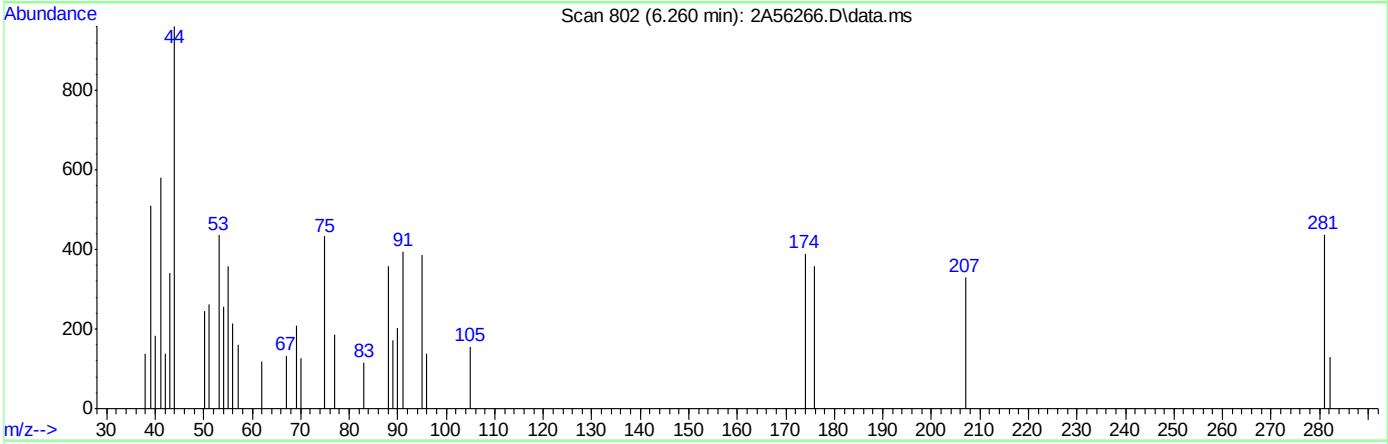
Ion	Exp%	Act%
53.00	100	0.00
75.00	92.30	0.00#
88.00	133.60	0.00#
39.00	36.50	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.260min (-0.000) 1.75ug/L m

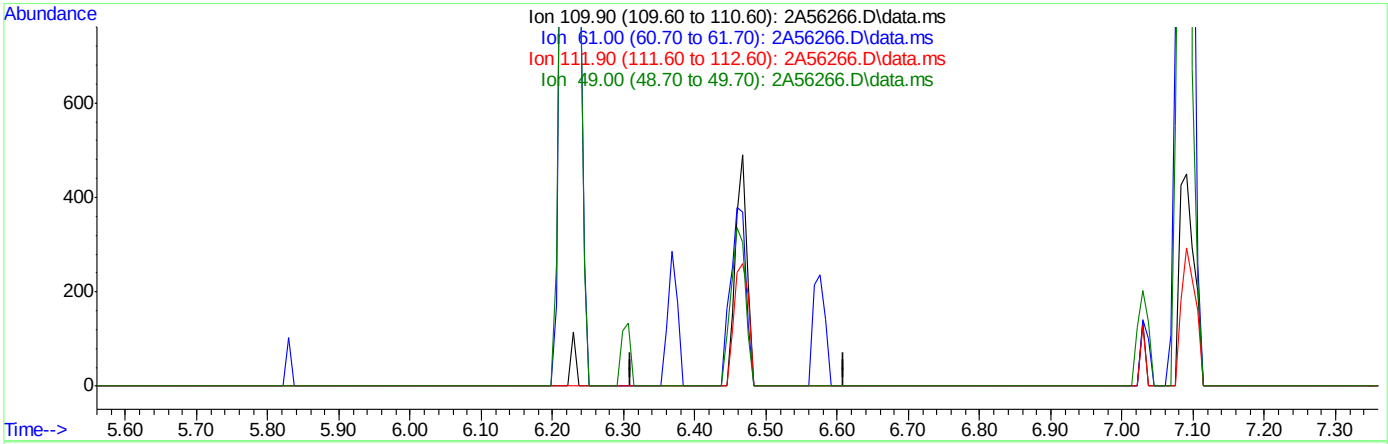
response 677

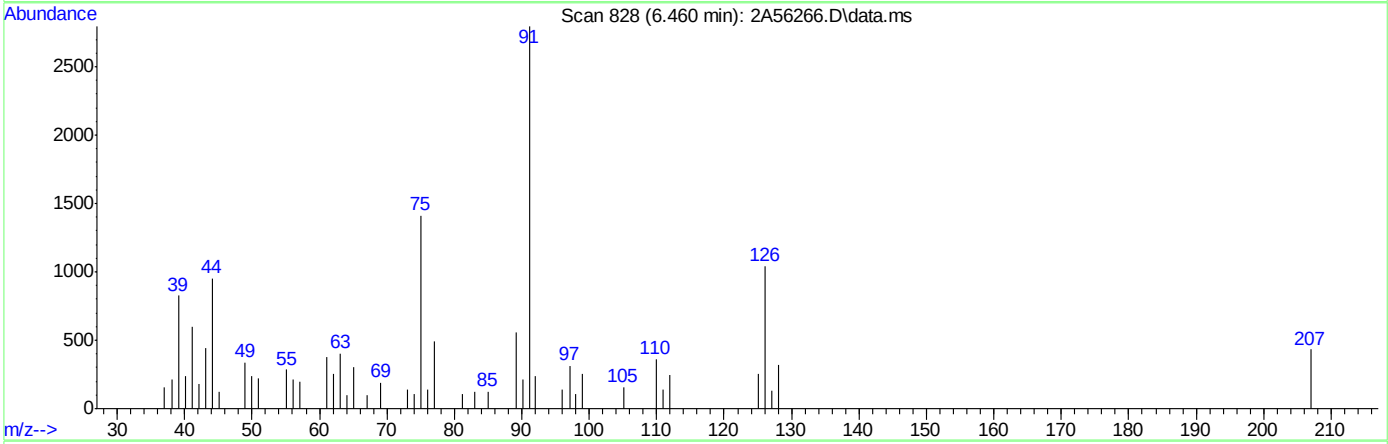
Ion	Exp%	Act%
53.00	100	100
75.00	92.30	99.31
88.00	133.60	82.34#
39.00	36.50	116.74#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-6.460) 0.00ug/L

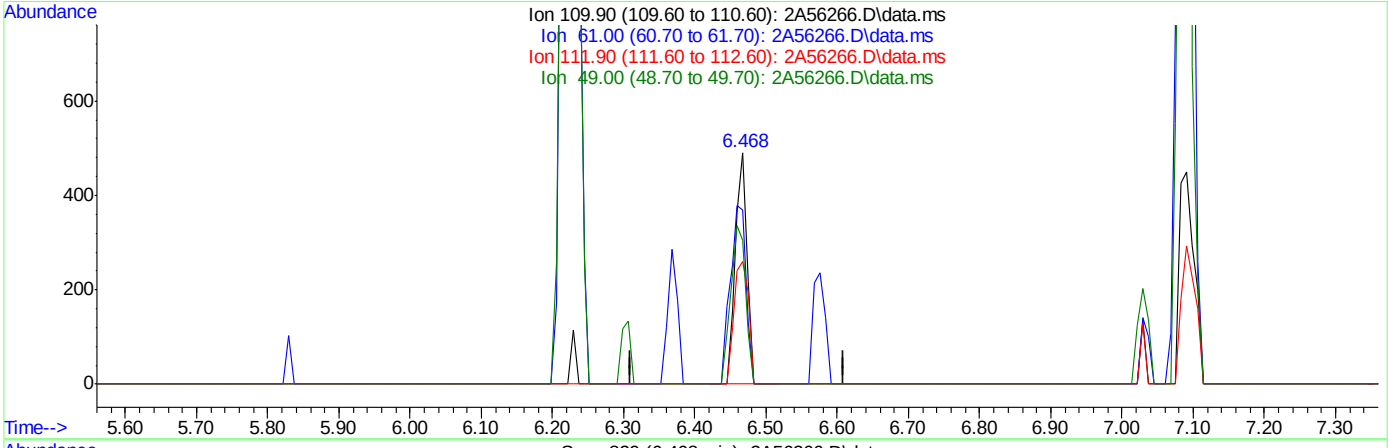
response 0

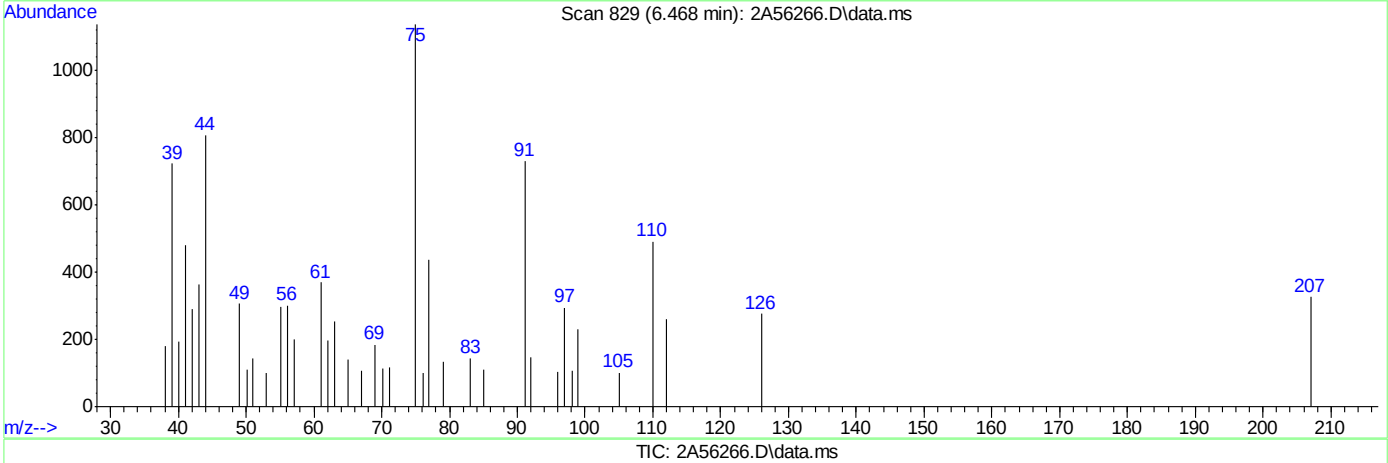
Ion	Exp%	Act%
109.90	100	0.00
61.00	51.70	0.00#
111.90	63.90	0.00#
49.00	36.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.468min (+0.008) 1.18ug/L m

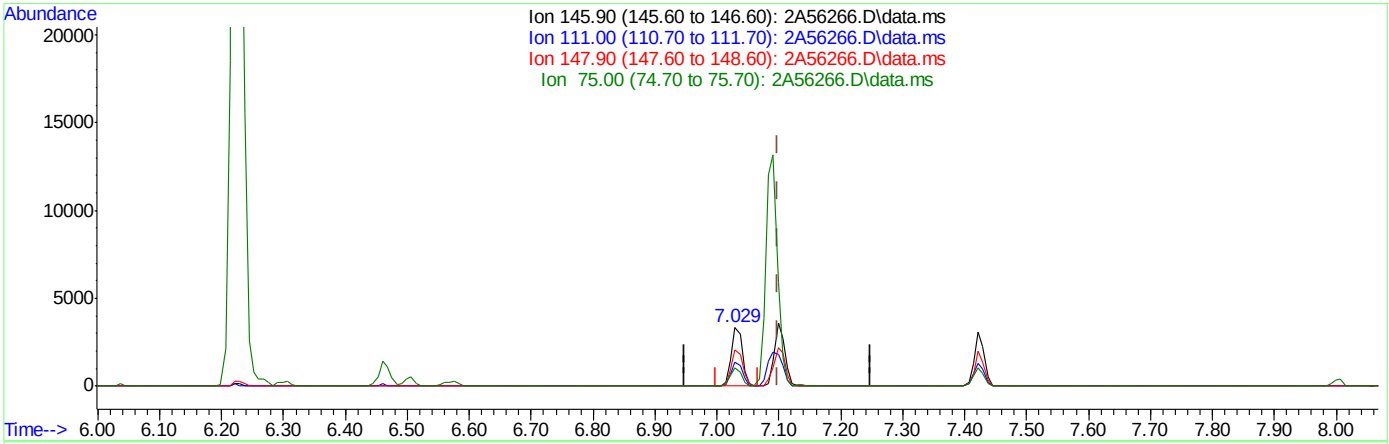
response 567

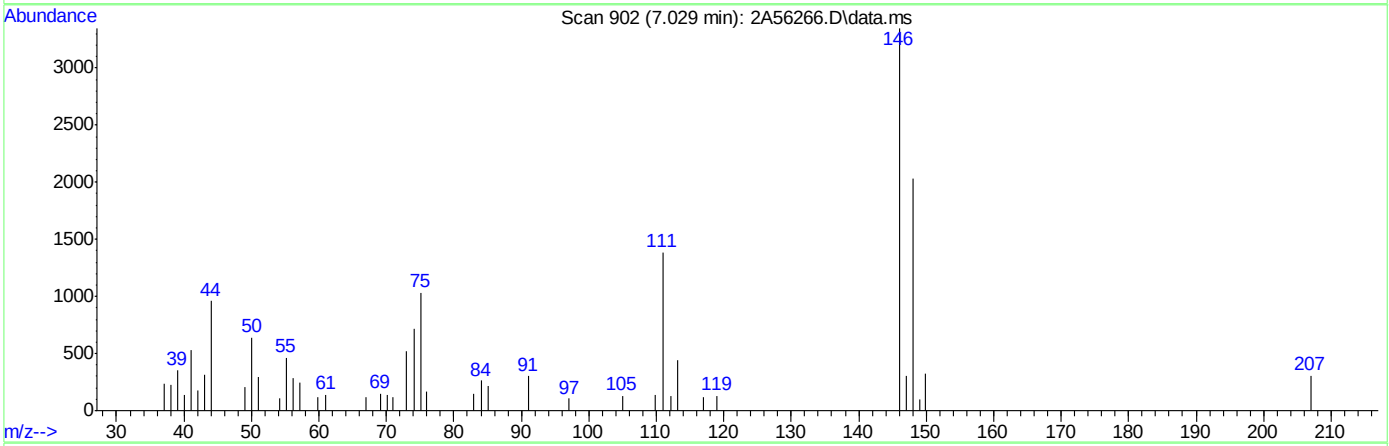
Ion	Exp%	Act%
109.90	100	100
61.00	51.70	75.15
111.90	63.90	53.16
49.00	36.30	62.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(104) 1,4-Dichlorobenzene

7.029min (-0.070) 1.21ug/L

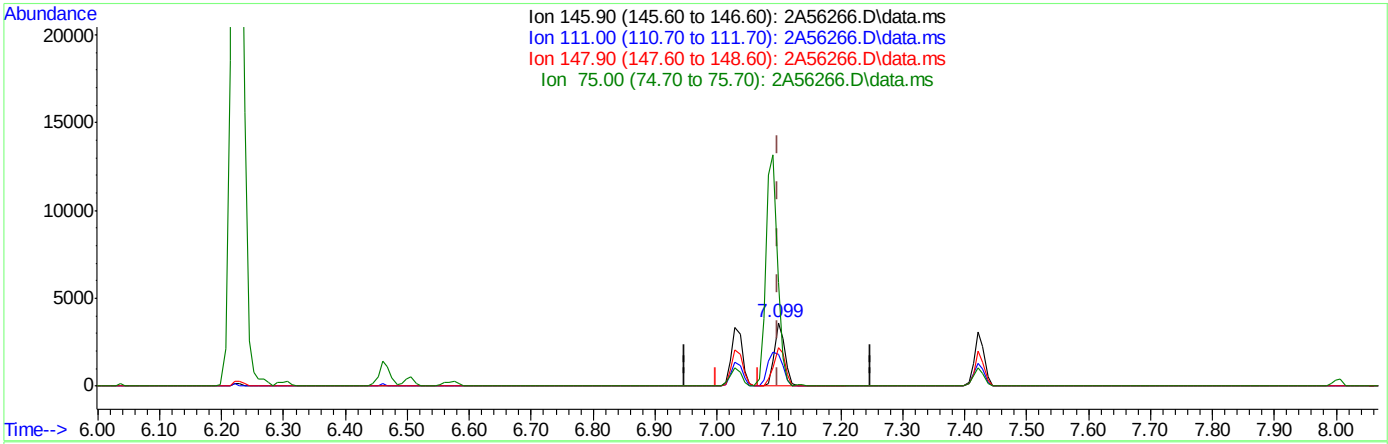
response 4125

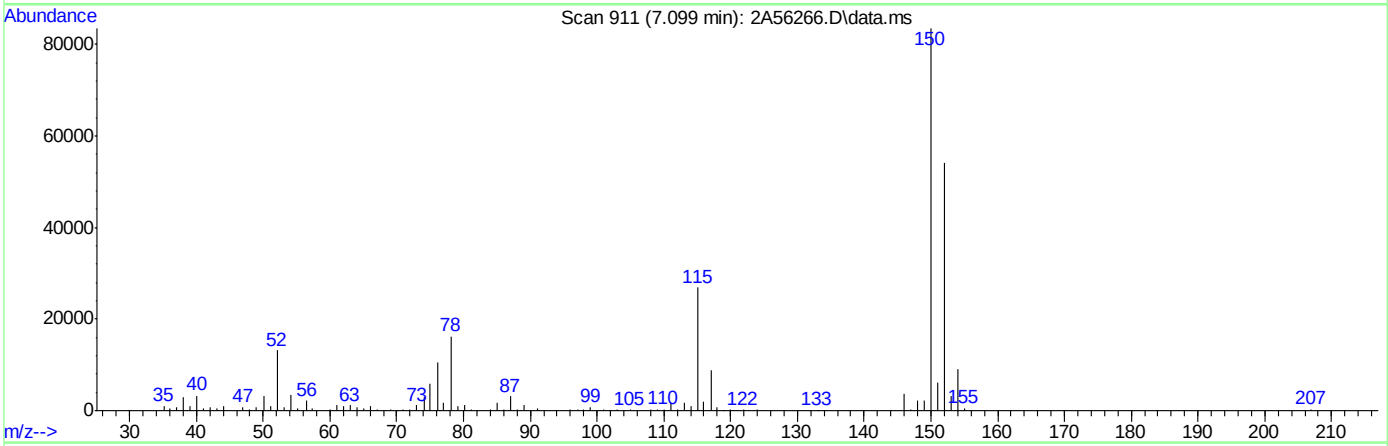
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	41.44
147.90	64.70	60.83
75.00	20.10	30.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(104) 1,4-Dichlorobenzene

7.099min (-0.000) 1.23ug/L m

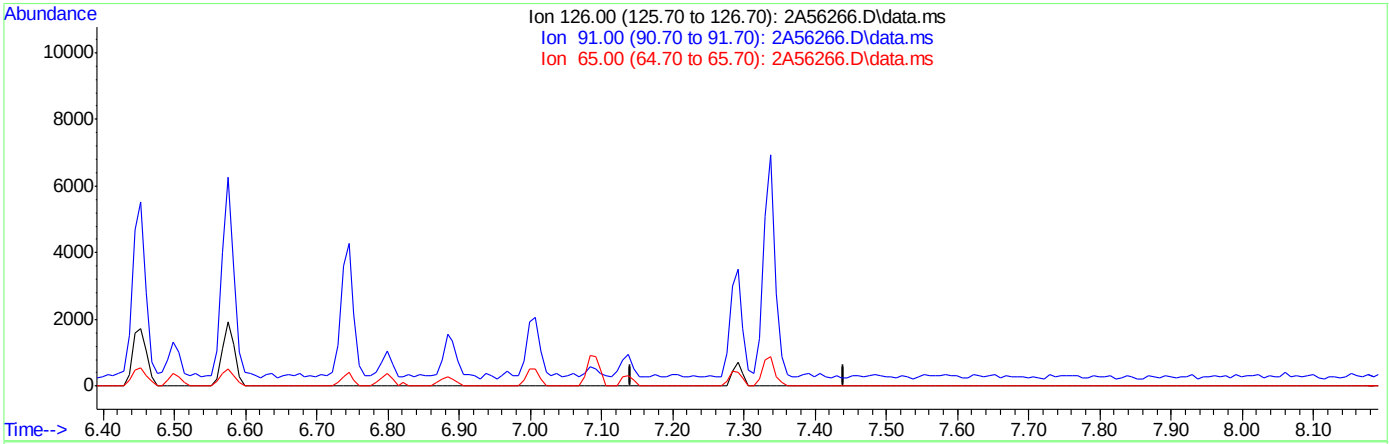
response 4179

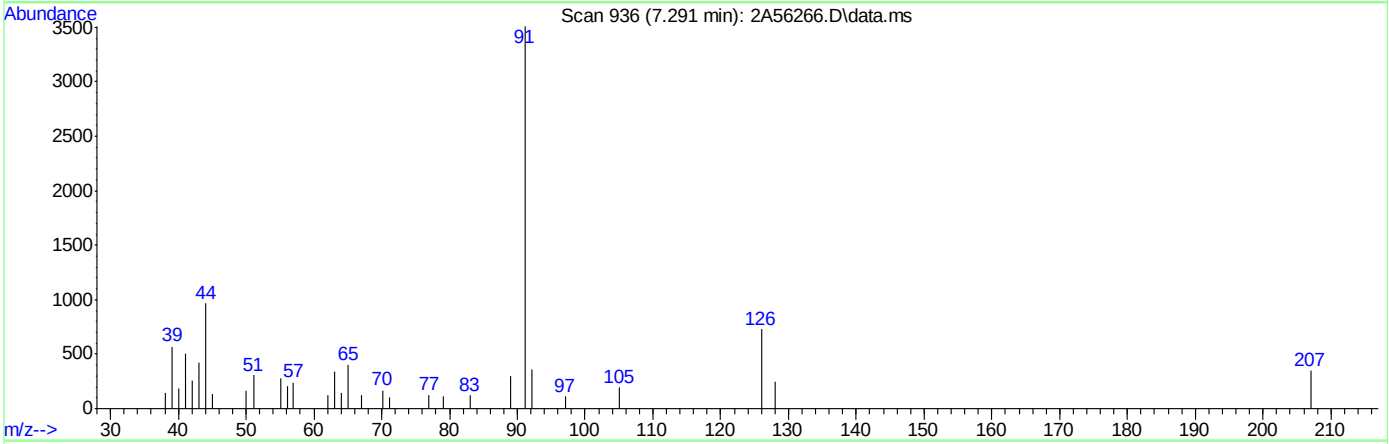
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	50.43
147.90	64.70	60.81
75.00	20.10	162.75#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(106) Benzyl Chloride

7.291min (-7.291) 0.00ug/L

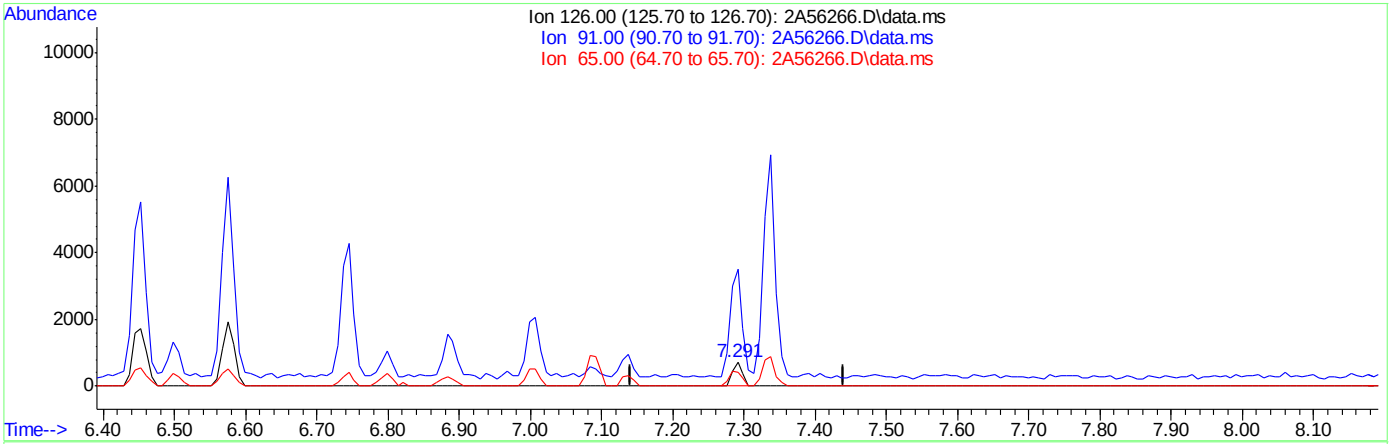
response 0

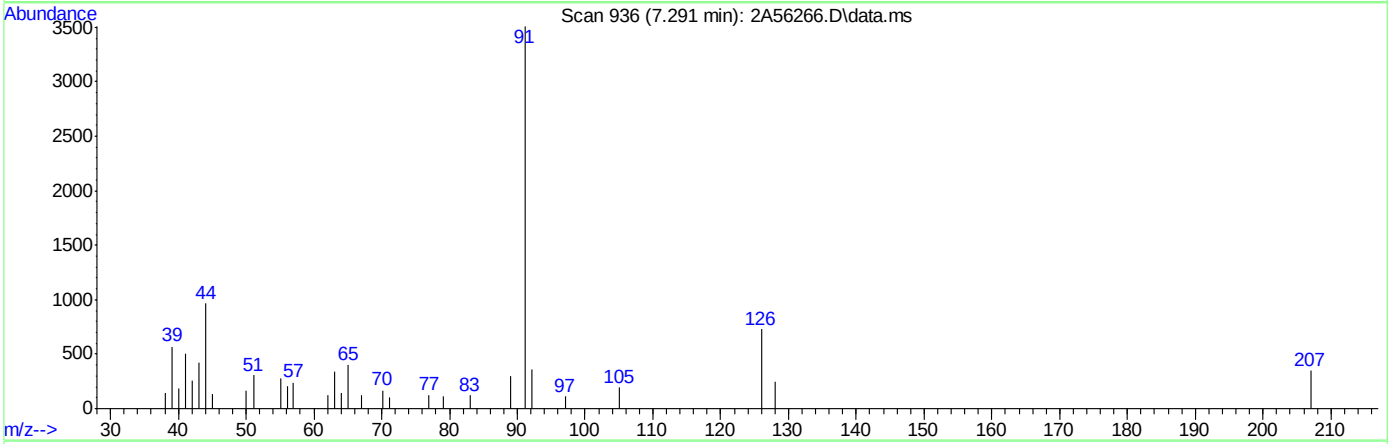
Ion	Exp%	Act%
126.00	100	0.00
91.00	412.40	0.00#
65.00	43.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(106) Benzyl Chloride

7.291min (+0.000) 1.05ug/L m

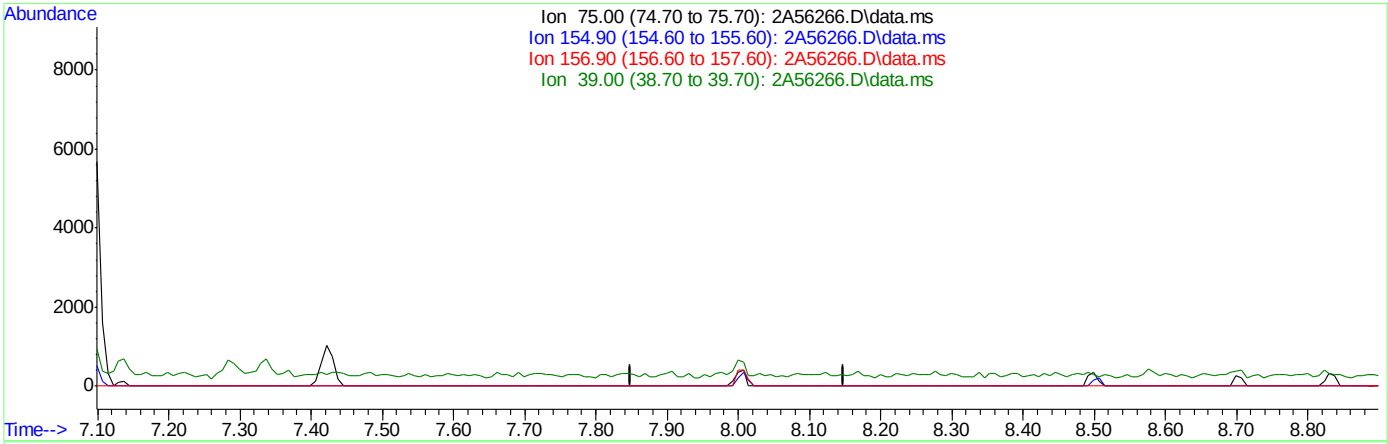
response 719

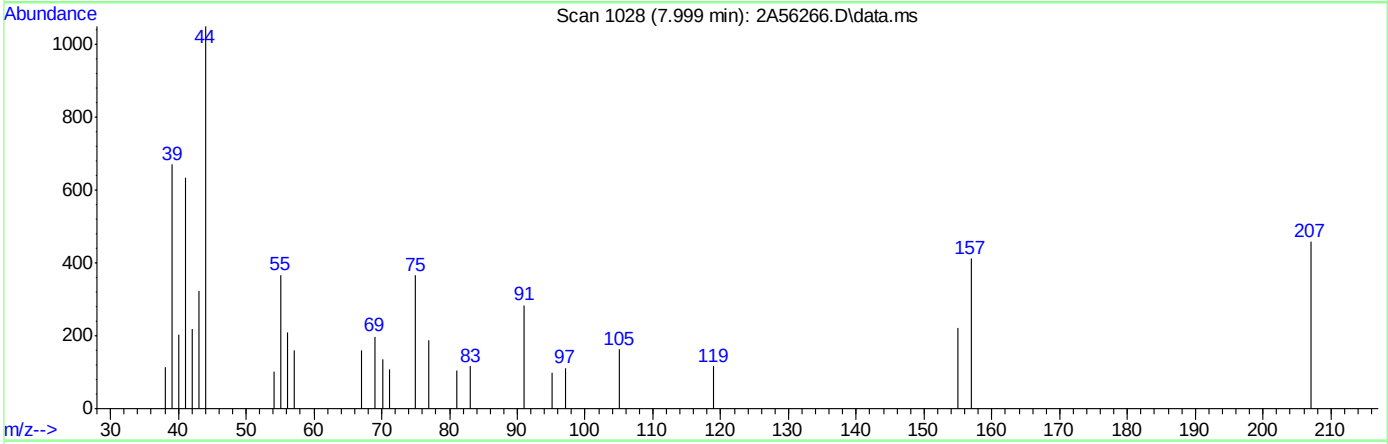
Ion	Exp%	Act%
126.00	100	100
91.00	412.40	480.55#
65.00	43.90	54.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (-7.999) 0.00ug/L

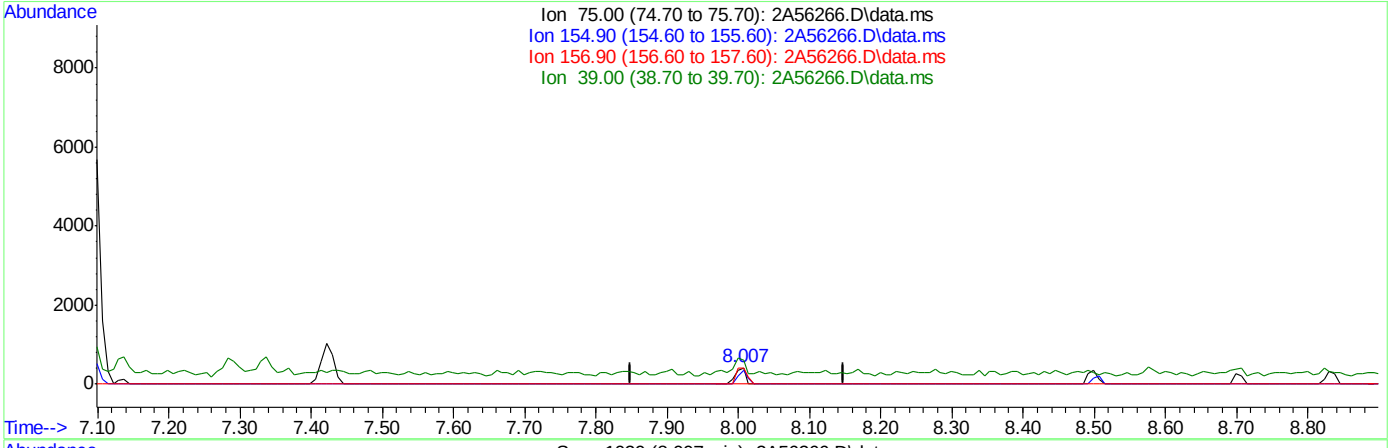
response 0

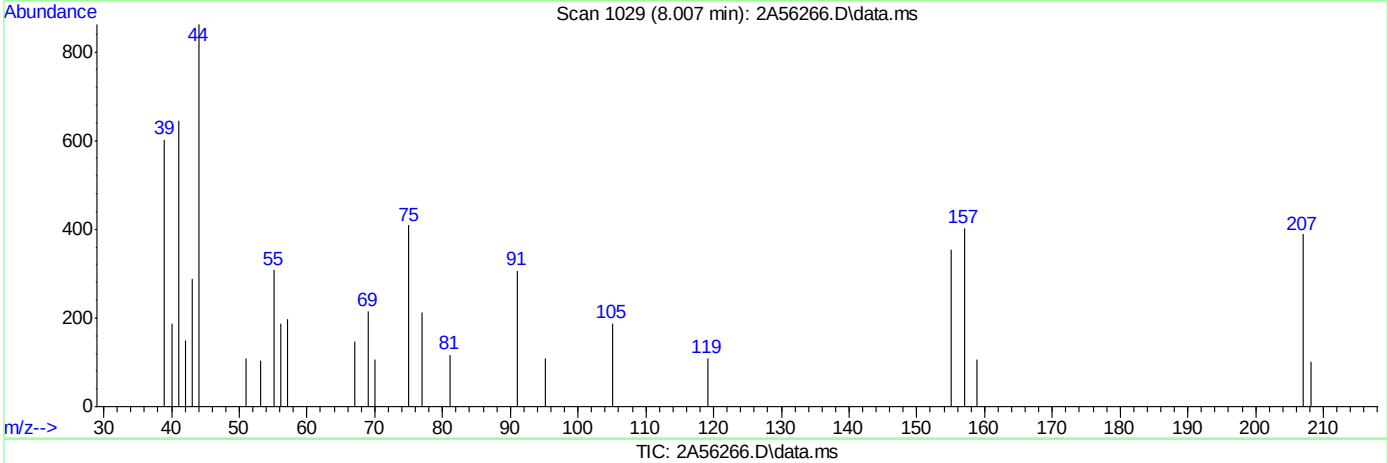
Ion	Exp%	Act%
75.00	100	0.00
154.90	144.40	0.00#
156.90	178.80	0.00#
39.00	47.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.007min (+0.008) 1.44ug/L m

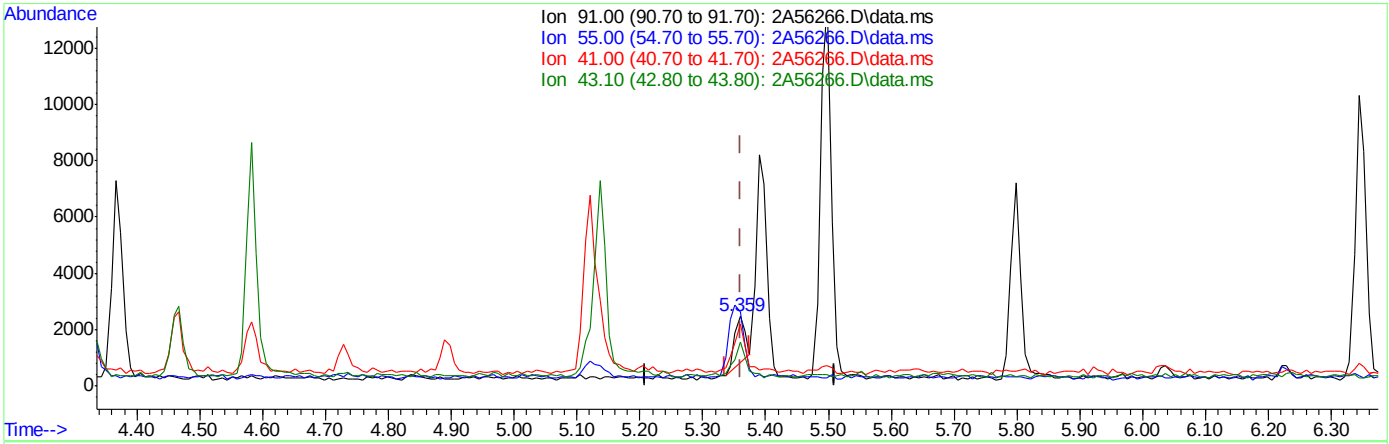
response 421

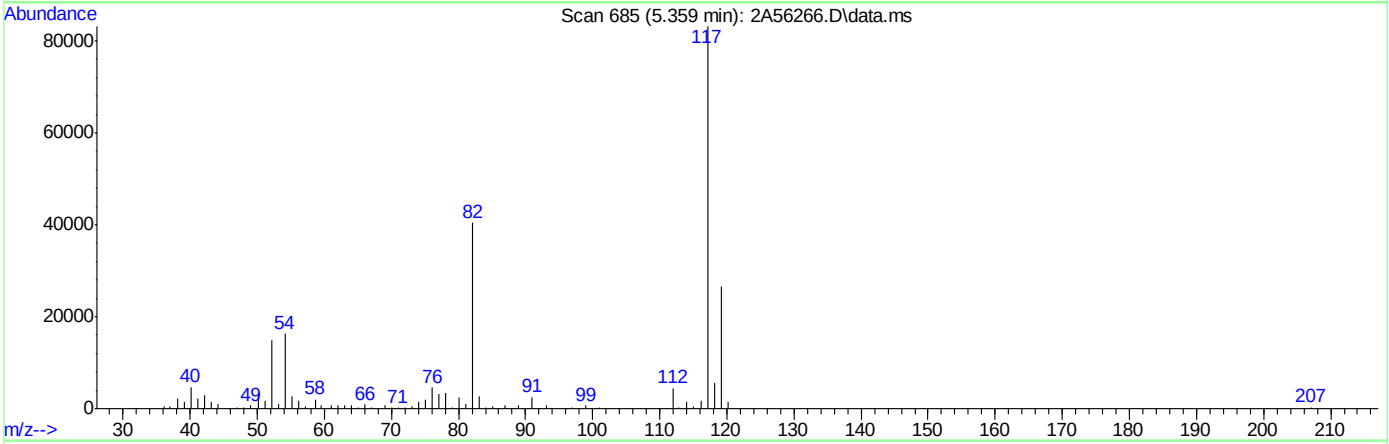
Ion	Exp%	Act%
75.00	100	100
154.90	144.40	86.55#
156.90	178.80	98.29#
39.00	47.20	147.19#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.01ug/L

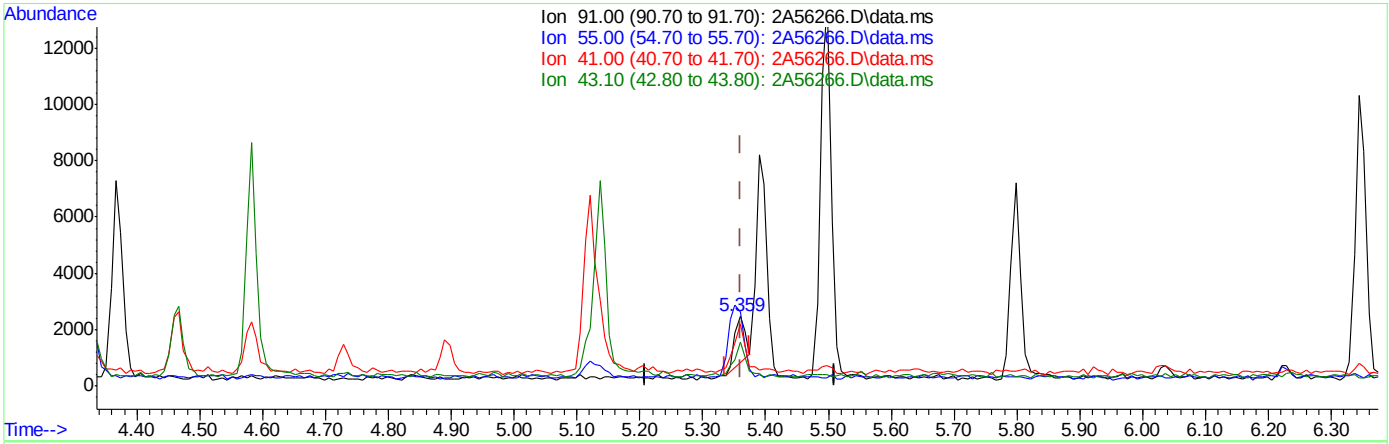
response 2074

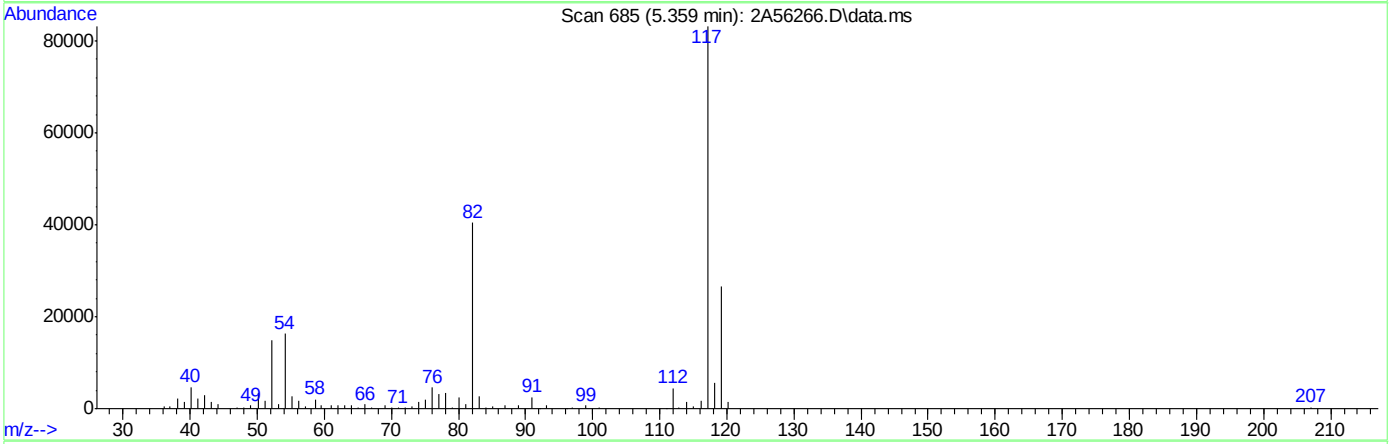
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	96.25#
41.00	39.20	72.27#
43.10	33.20	53.51#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.01ug/L

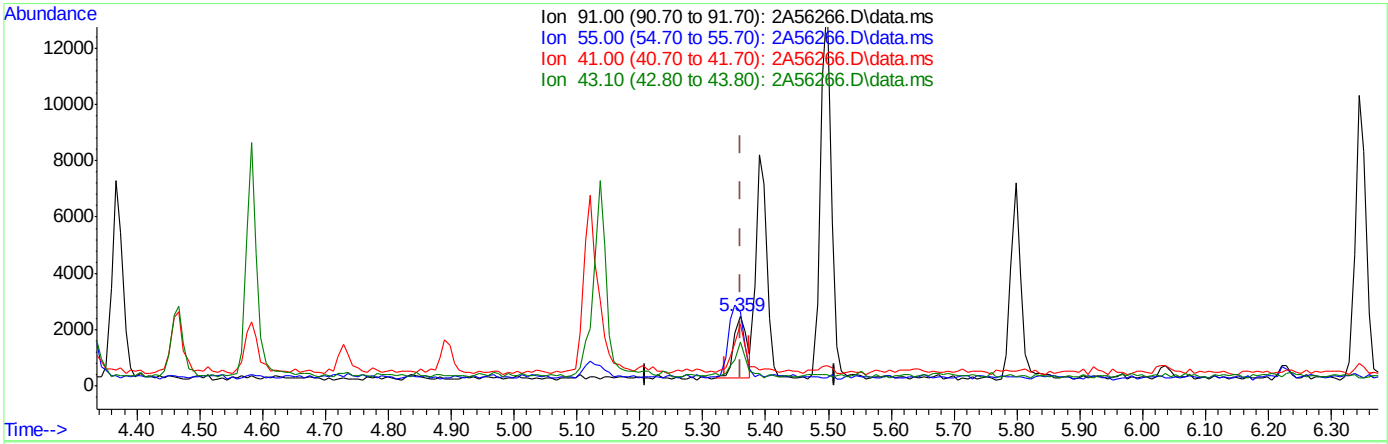
response 2074

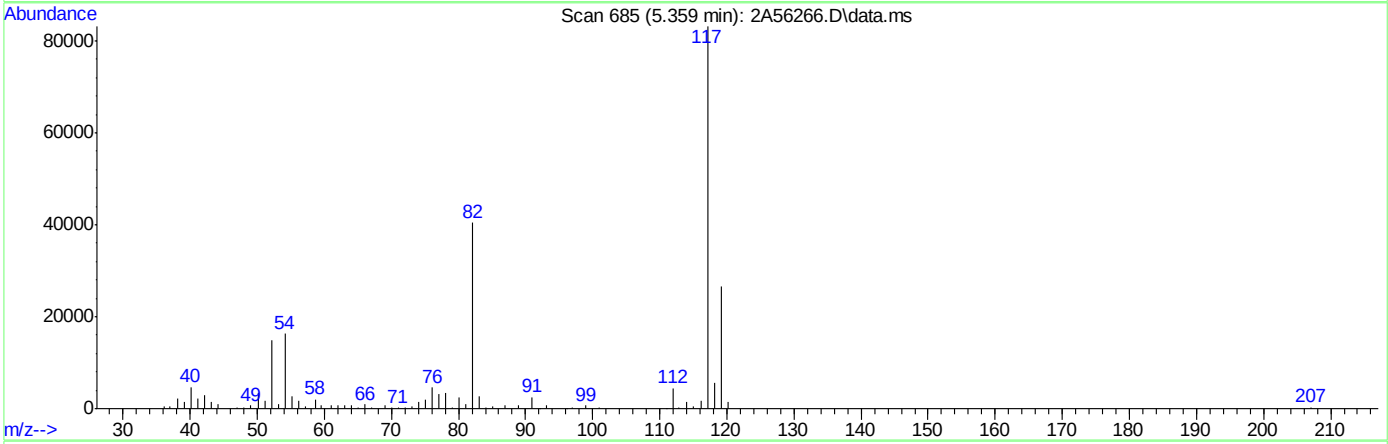
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	96.25#
41.00	39.20	72.27#
43.10	33.20	53.51#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.58ug/L m

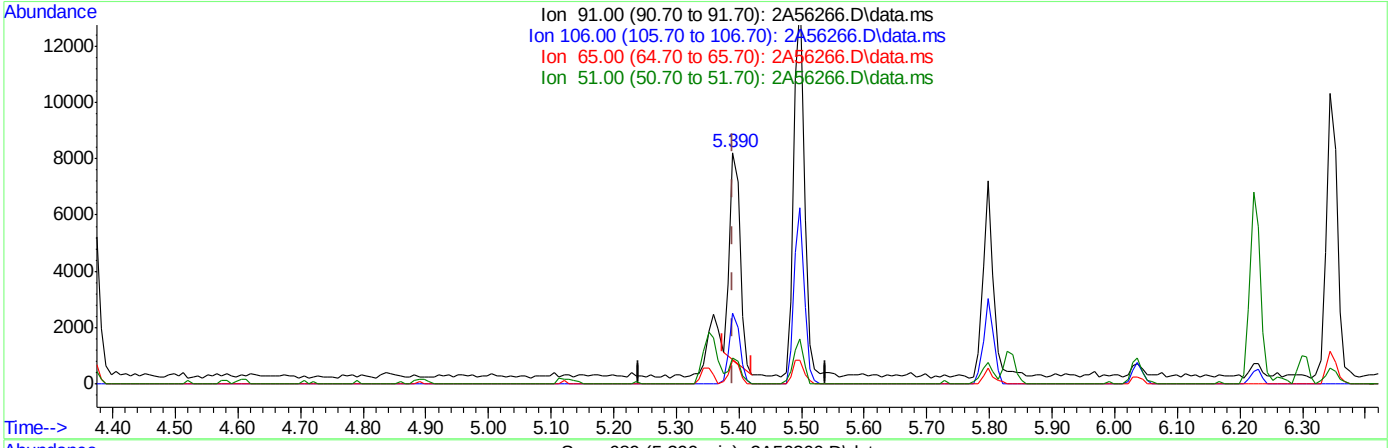
response 3228

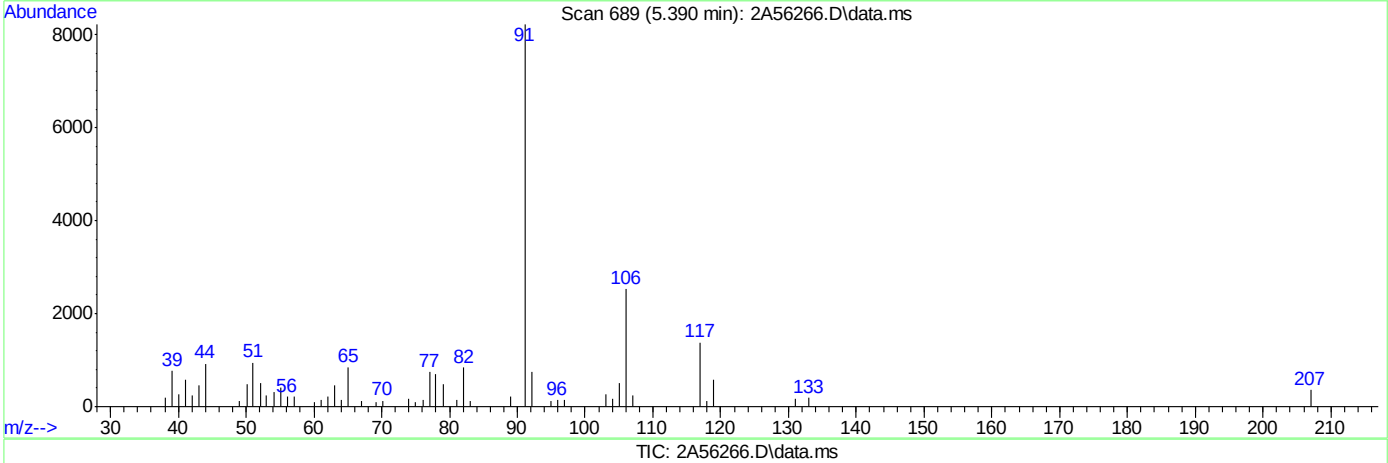
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	105.46#
41.00	39.20	87.64#
43.10	33.20	63.16#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 1.31ug/L

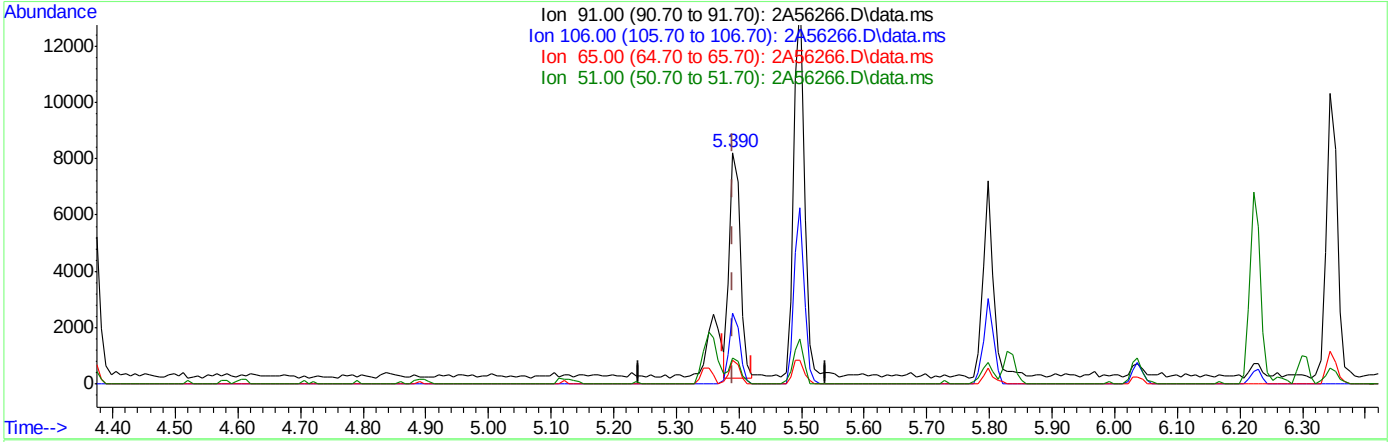
response 8271

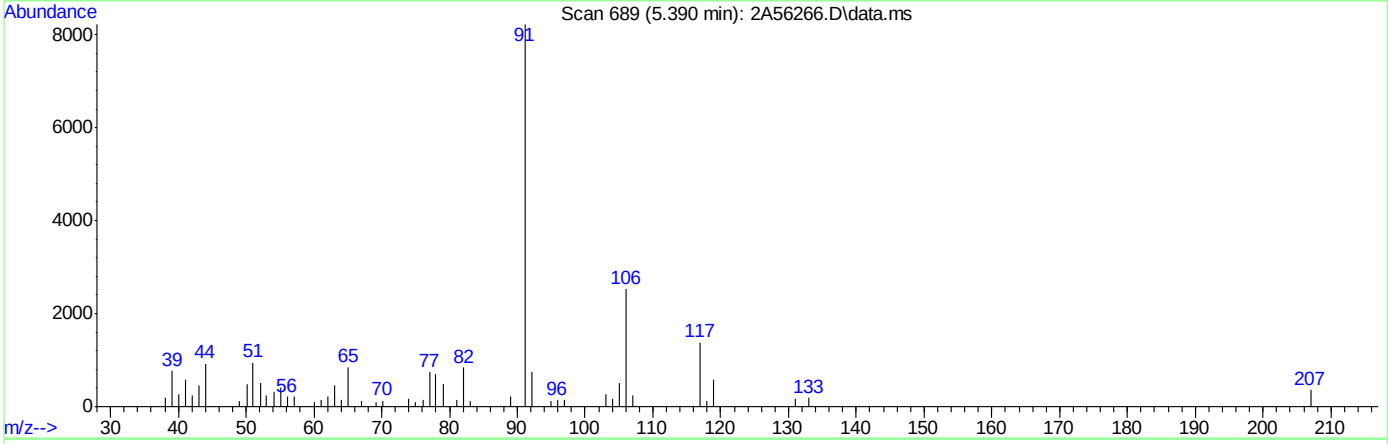
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	32.06
65.00	7.10	10.82
51.00	7.10	12.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 1.54ug/L m

response 9767

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.72
65.00	7.10	10.37
51.00	7.10	11.52

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	287478	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	222801	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	128724	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	85294	49.90	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.80%				
49) 1,2-Dichloroethane-d4	3.235	65	99965	63.08	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 126.16%#				
63) Toluene-d8	4.336	98	298540	53.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.04%				
86) 4-Bromofluorobenzene	6.229	174	102033	49.70	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	2902	1.98	ug/L		97
3) Chloromethane	1.134	50	3919	2.98	ug/L		99
4) 1,3-butadiene	1.188	39	6289	8.71	ug/L	#	73
5) Vinyl Chloride	1.180	62	3678	3.45	ug/L		99
6) Bromomethane	1.349	94	1858	4.21	ug/L		89
7) Chloroethane	1.419	64	2415	4.09	ug/L		95
8) Trichlorofluoromethane	1.503	101	4459	2.39	ug/L		100
9) Ethyl Ether	1.657	59	2436	2.92	ug/L		91
11) 1,2-Dichlorotrifluoroe...	1.750	67	3507	3.96	ug/L		92
12) 1,1-Dichloroethene	1.765	61	4760	2.93	ug/L		89
13) Freon 113	1.788	101	2553	1.85	ug/L	#	82
14) Carbon Disulfide	1.788	76	9757	2.65	ug/L		89
15) Iodomethane	1.834	142	1075	1.28	ug/L		81
16) Acrolein	1.911	56	2826	12.60	ug/L		100
17) Allyl chloride	1.996	41	5065	4.01	ug/L		84
18) Methylene Chloride	2.050	49	6447	4.86	ug/L	#	74
19) Acetone	2.050	43	6031	17.32	ug/L		78
20) Methyl acetate	2.127	43	14007	15.32	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	4929	3.08	ug/L		80
22) Hexane	2.196	56	2547	2.33	ug/L	#	81
23) Methyl Tert Butyl Ether	2.196	73	8018	2.48	ug/L		86
24) Acetonitrile	2.273	41	4726	35.05	ug/L		93
25) Tert Butyl Alcohol	2.211	59	4579	26.79	ug/L	#	40
26) Di-isopropyl ether	2.396	45	9546	3.72	ug/L		85
27) Chloroprene	2.442	53	12348	3.06	ug/L		93
28) 1,1-Dichloroethane	2.442	63	6335	2.99	ug/L		96
29) Acrylonitrile	2.442	52	7140	14.91	ug/L		96
30) ETBE	2.581	59	8483	2.74	ug/L		92
31) Vinyl acetate	2.565	43	33225	18.40	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	3773	2.42	ug/L	#	80
33) 2,2-Dichloropropane	2.781	77	5245	3.14	ug/L		97
34) Bromochloromethane	2.819	128	1762	1.96	ug/L	#	55
35) Cyclohexane	2.858	56	5289	2.79	ug/L	#	80
36) Chloroform	2.858	83	6538	2.69	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	2.912	43	18029	17.20	ug/L		89
38) Tetrahydrofuran	2.950	42	1278m	3.08	ug/L		
40) Carbon Tetrachloride	2.958	117	4617m	2.07	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	5600	2.54	ug/L		89
42) 2-Butanone	3.004	43	8888	15.78	ug/L		83
43) 1,1-Dichloropropene	3.050	75	4107	2.61	ug/L		80
44) tert-Butyl formate	3.097	59	10750	11.78	ug/L		94
45) Propionitrile	3.143	54	5700	26.60	ug/L		90
46) Methacrylonitrile	3.166	41	21629	33.43	ug/L		93
47) Benzene	3.181	78	12398	2.48	ug/L		90
48) TAME	3.250	73	7479	2.50	ug/L		86
50) 1,2-Dichloroethane	3.274	62	4441	2.76	ug/L		93
51) Isobutyl Alcohol	3.258	43	6136	67.53	ug/L		92
52) Tert Amyl Alcohol	3.320	59	3567	26.24	ug/L		93
53) Trichloroethene	3.512	95	3753	2.56	ug/L		95
54) Methylcyclohexane	3.528	83	5116	2.20	ug/L		85
55) Dibromomethane	3.735	93	2116	2.41	ug/L		86
56) 1,2-Dichloropropane	3.789	63	3241	2.92	ug/L		84
57) Bromodichloromethane	3.828	83	4514	2.64	ug/L	#	94
58) Methyl methacrylate	3.920	41	2958	3.77	ug/L	#	66
59) 1,4-Dioxane	3.935	88	492m	32.60	ug/L		
60) 2-Chloroethyl vinyl ether	4.166	63	10342	14.74	ug/L		81
61) cis-1,3-Dichloropropene	4.205	75	4725	2.60	ug/L		83
64) Toluene	4.366	91	14135	2.60	ug/L		99
65) 2-Nitropropane	4.466	41	5388	19.67	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	19672	19.31	ug/L		85
67) trans-1,3-Dichloropropene	4.613	75	4076	2.55	ug/L		80
68) Tetrachloroethene	4.628	166	3468	1.76	ug/L		90
69) Ethyl methacrylate	4.728	69	3997	2.94	ug/L	#	74
70) 1,1,2-Trichloroethane	4.713	83	2490	2.72	ug/L		87
71) Dibromochloromethane	4.836	129	2890	1.89	ug/L		97
72) 1,3-Dichloropropane	4.890	76	4161	2.47	ug/L		70
73) 1,2-Dibromoethane	4.990	107	2919	2.19	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.121	57	24586	158.28	ug/L		91
75) 2-hexanone	5.136	43	19244	19.23	ug/L		73
76) 1-Chlorohexane	5.359	91	5441m	2.77	ug/L		
77) Ethylbenzene	5.390	91	16509m	2.72	ug/L		
78) Chlorobenzene	5.359	112	9037	2.31	ug/L		78
79) 1,1,1,2-Tetrachloroethane	5.405	131	2996	2.09	ug/L		96
80) m,p-Xylene	5.498	91	26698	5.37	ug/L		93
81) o-Xylene	5.798	91	14141	2.79	ug/L		94
82) Styrene	5.829	104	9899	2.54	ug/L		84
83) Bromoform	5.836	173	1993	1.61	ug/L		94
84) Isopropylbenzene	6.037	105	17211	2.65	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.260	53	1177	3.14	ug/L	#	70
88) n-Propylbenzene	6.344	91	20308	3.26	ug/L		86
89) Bromobenzene	6.298	156	3834	2.31	ug/L	#	65
90) 1,1,2,2-Tetrachloroethane	6.367	83	4366	3.10	ug/L		91
91) 1,3,5-Trimethylbenzene	6.498	105	14211	3.01	ug/L		95
92) 2-Chlorotoluene	6.452	91	11384	3.15	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

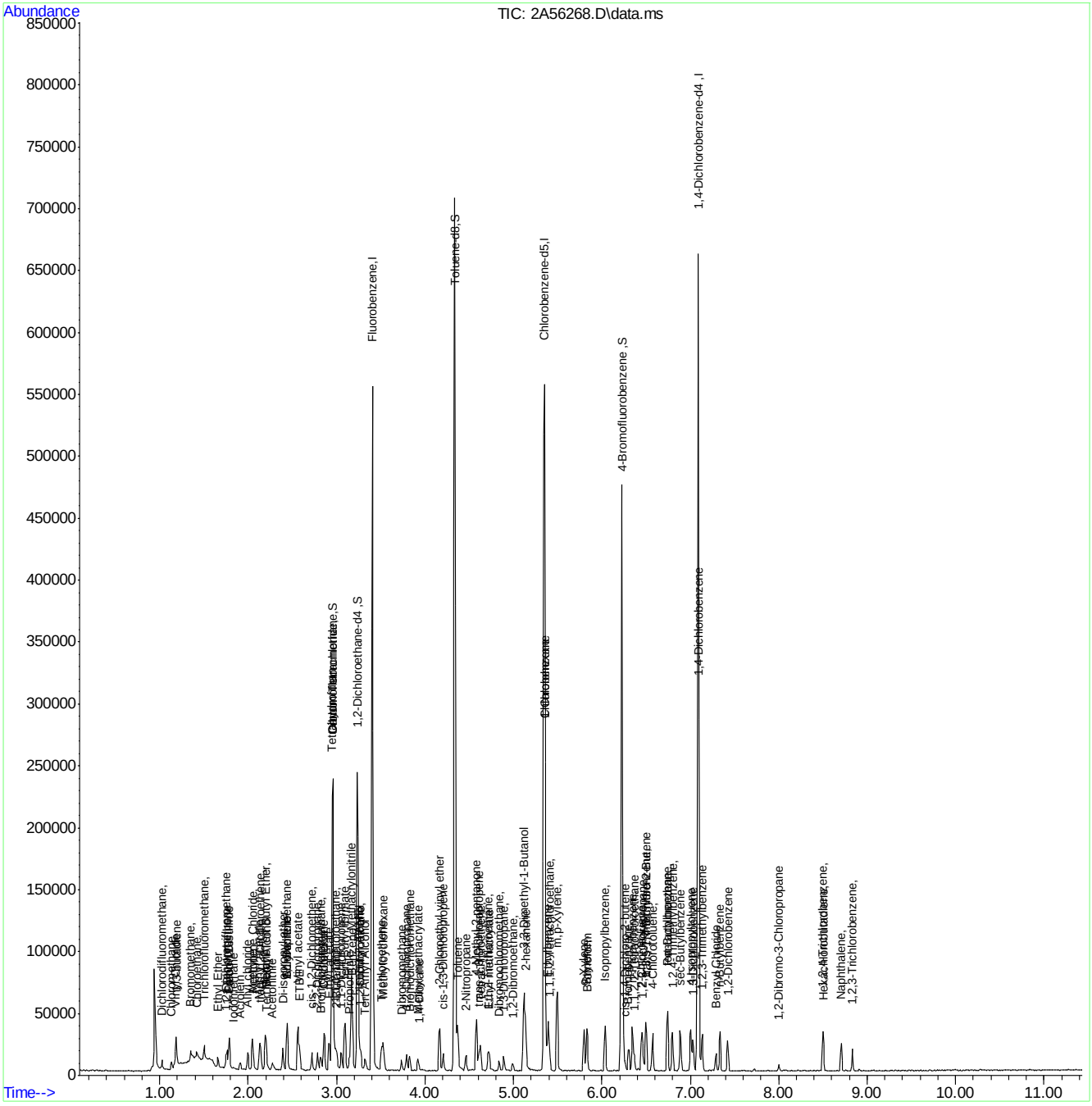
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	trans-1,4-Dichloro-2-B...	6.498	53	1400	3.17	ug/L	#	53
94)	1,2,3-Trichloropropane	6.460	110	1084m	2.33	ug/L		
96)	4-Chlorotoluene	6.575	91	12262	3.19	ug/L		89
97)	tert-Butylbenzene	6.745	91	8454	3.31	ug/L		85
98)	1,2,4-Trimethylbenzene	6.798	105	12528	2.51	ug/L		94
99)	Pentachloroethane	6.745	167	1874	1.89	ug/L	#	44
100)	sec-Butylbenzene	6.883	105	17057	2.80	ug/L		94
101)	4-Isopropyltoluene	7.006	119	14794	2.83	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	7410	2.26	ug/L		86
103)	1,2,3-Trimethylbenzene	7.137	105	12516	2.72	ug/L		98
104)	1,4-Dichlorobenzene	7.099	146	7262m	2.20	ug/L		
105)	n-Butylbenzene	7.337	92	7013	2.98	ug/L		92
106)	Benzyl Chloride	7.291	126	1473m	2.22	ug/L		
107)	1,2-Dichlorobenzene	7.422	146	6556	2.26	ug/L		89
108)	1,2-Dibromo-3-Chloropr...	7.999	75	920m	3.25	ug/L		
109)	Hexachlorobutadiene	8.507	225	1982	1.93	ug/L		88
110)	1,2,4-Trichlorobenzene	8.499	180	3883	2.02	ug/L		95
111)	Naphthalene	8.707	128	10638	2.51	ug/L		98
112)	1,2,3-Trichlorobenzene	8.830	180	3637	2.04	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

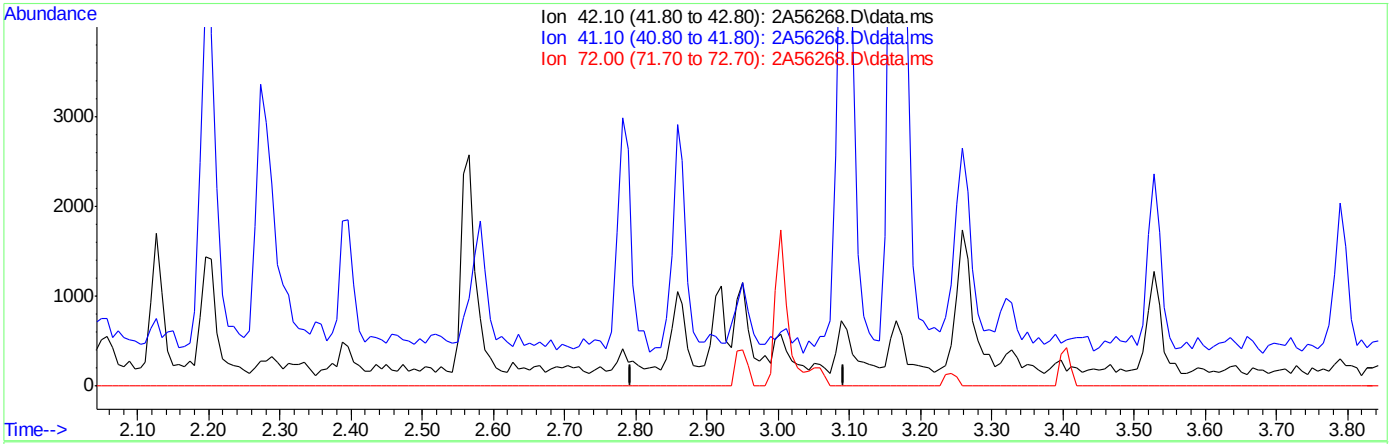
Sample Number: V2A1910-IC1910
Lab FileID: 2A56268.D
Injection Time: 06/25/24 08:39
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

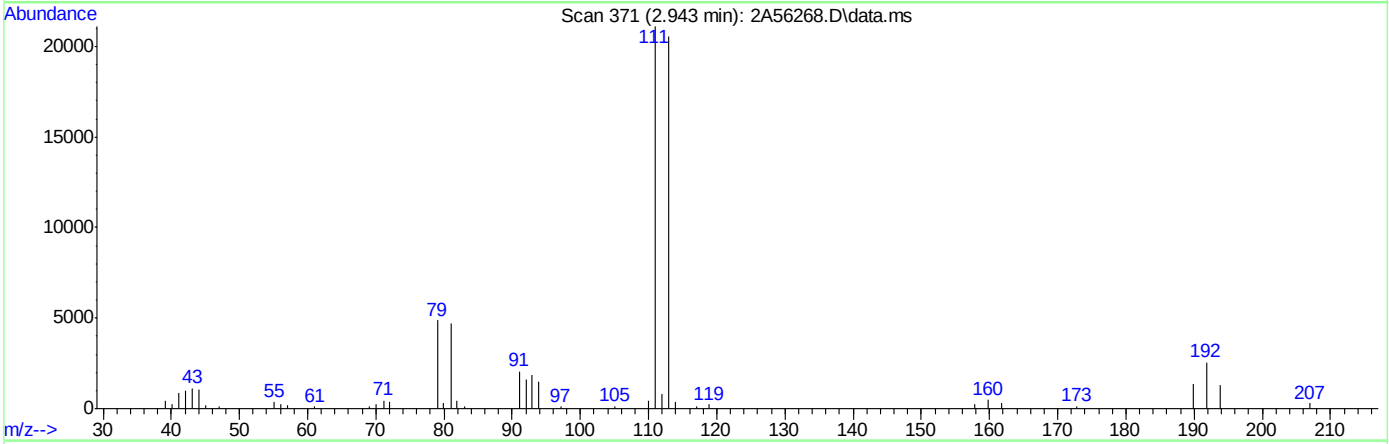
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		2.95	Missed peak
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1,4-Dioxane	123-91-1		3.94	Missed peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline
1,2,3-Trichloropropane	96-18-4		6.46	Missed peak
1,4-Dichlorobenzene	106-46-7		7.10	Missed peak
Benzyl Chloride	100-44-7		7.29	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.00	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(38) Tetrahydrofuran

2.943min (-2.943) 0.00ug/L

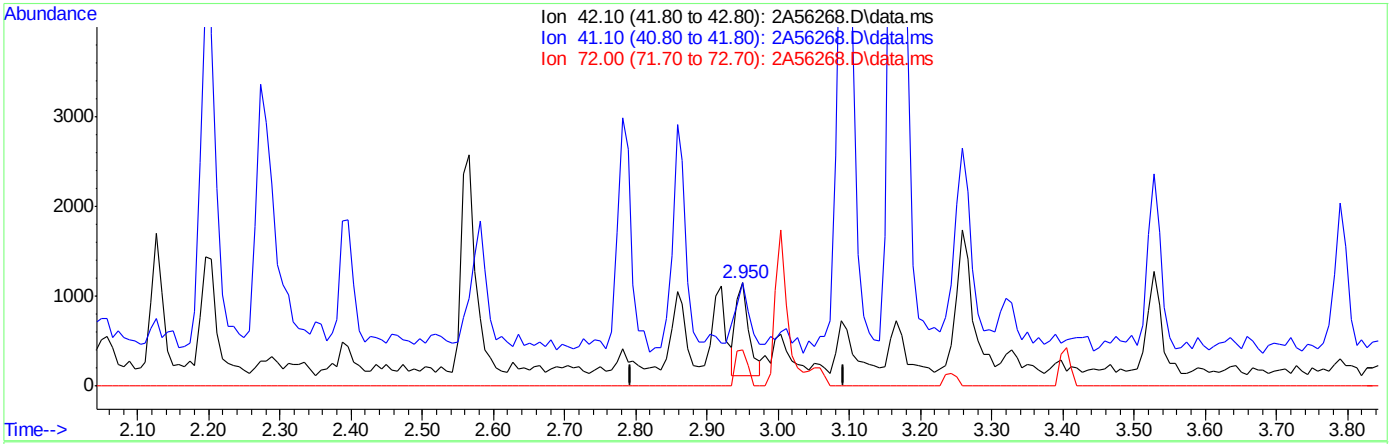
response 0

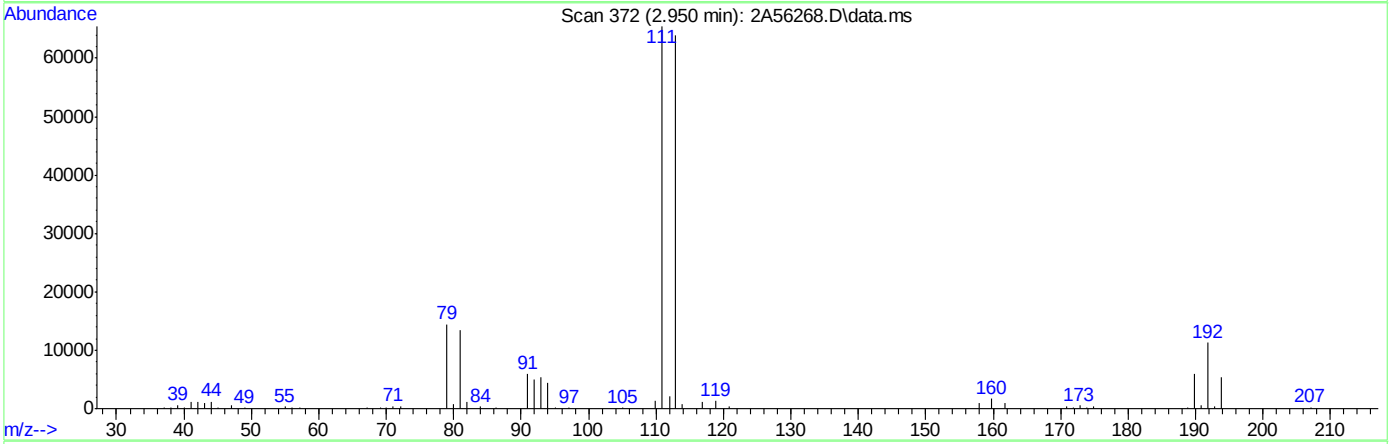
Ion	Exp%	Act%
42.10	100	0.00
41.10	52.50	0.00#
72.00	58.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(38) Tetrahydrofuran

2.950min (+0.007) 3.08ug/L m

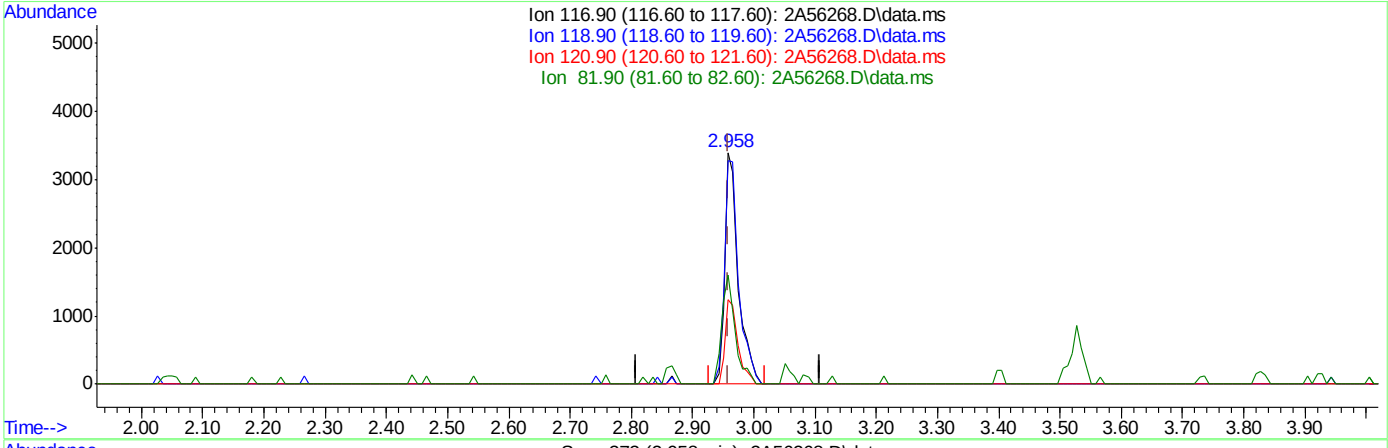
response 1278

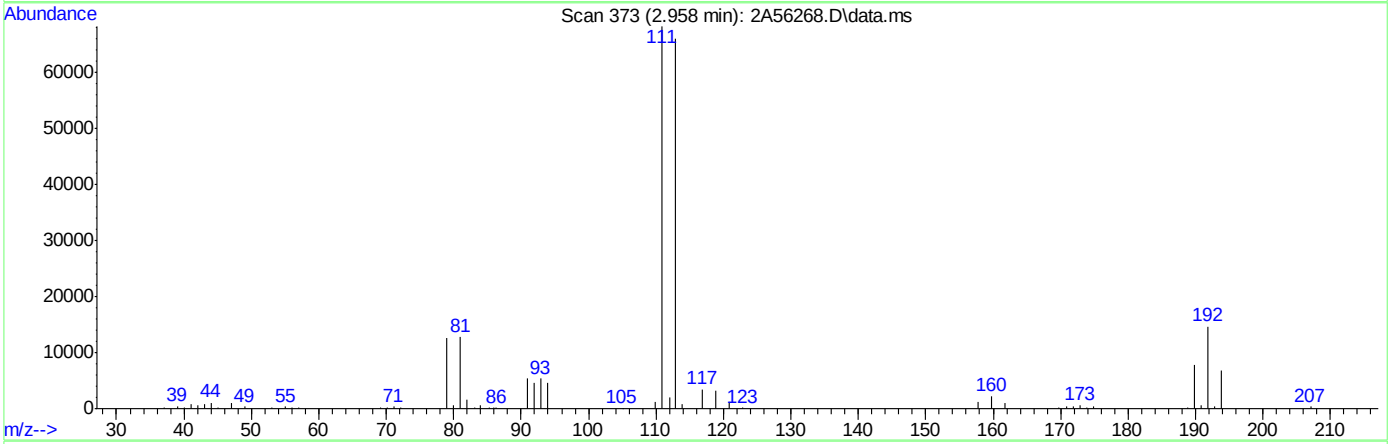
Ion	Exp%	Act%
42.10	100	100
41.10	52.50	100.00#
72.00	58.30	34.87#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (0.000) 2.31ug/L

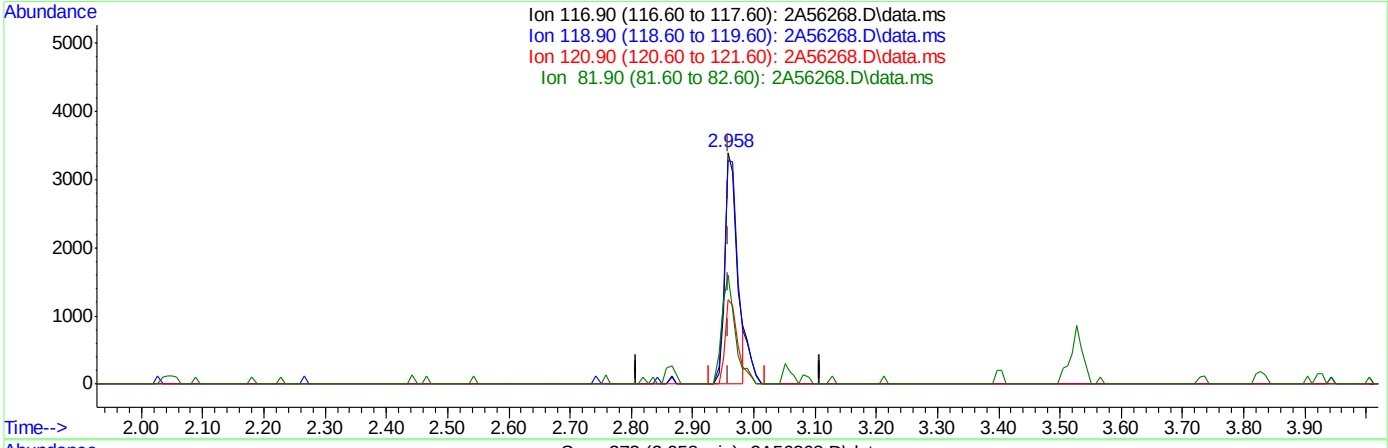
response 5139

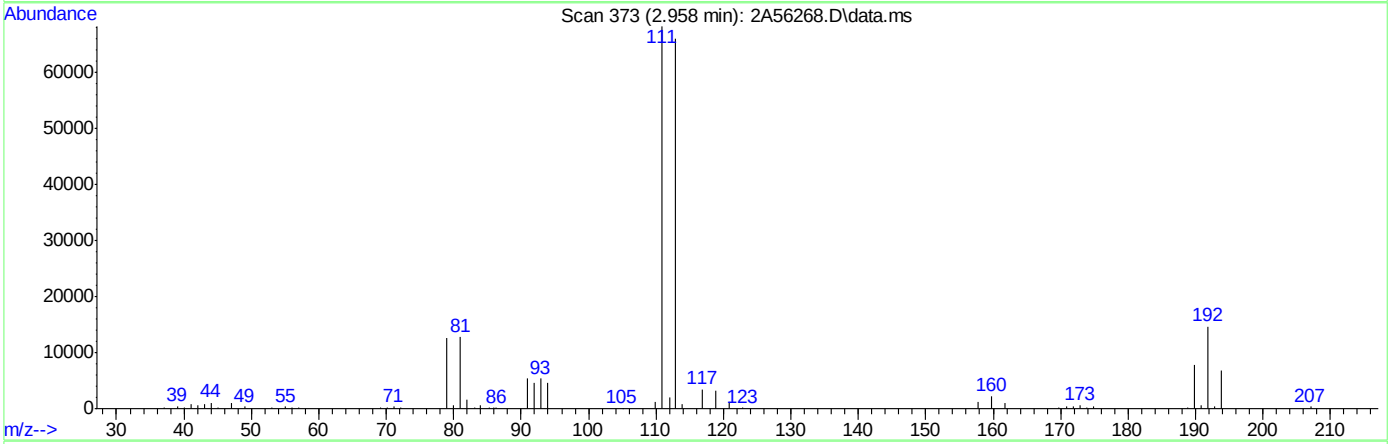
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.65
120.90	31.00	36.29
81.90	19.00	46.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (0.000) 2.07ug/L m

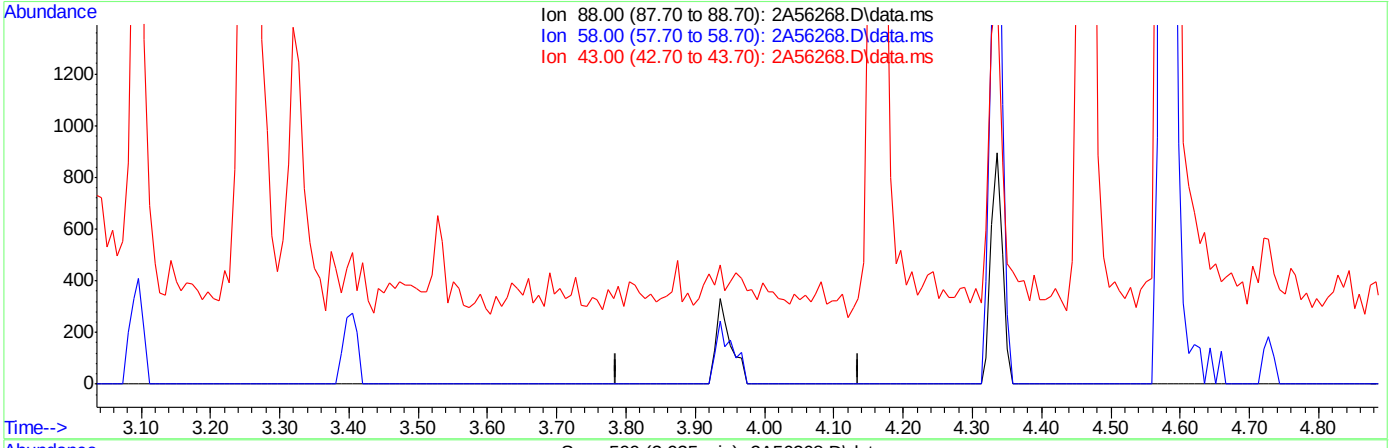
response 4617

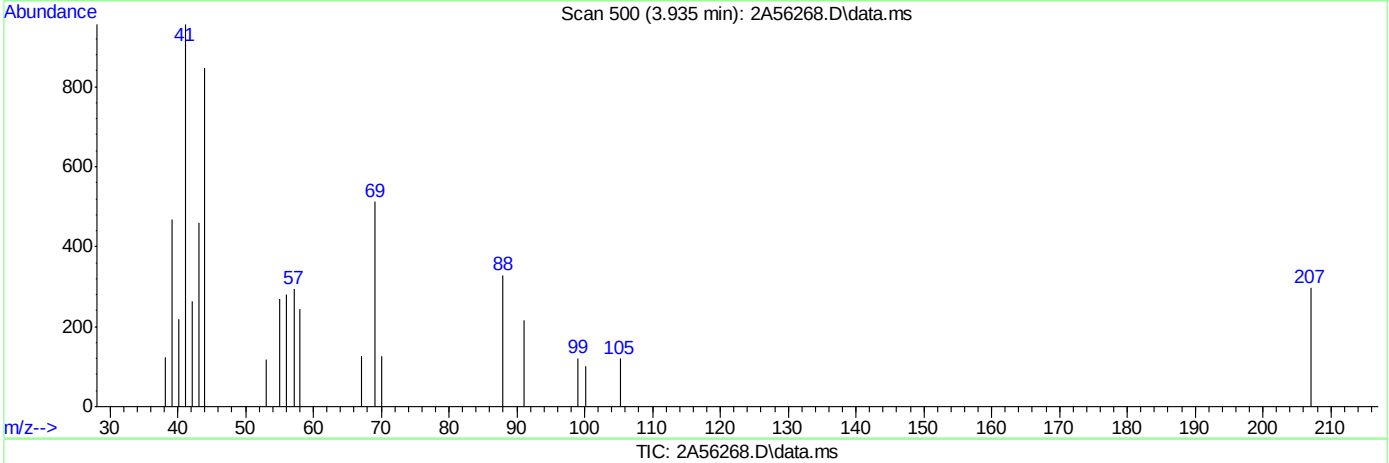
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.65
120.90	31.00	36.29
81.90	19.00	46.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(59) 1,4-Dioxane

3.936min (-3.936) 0.00ug/L

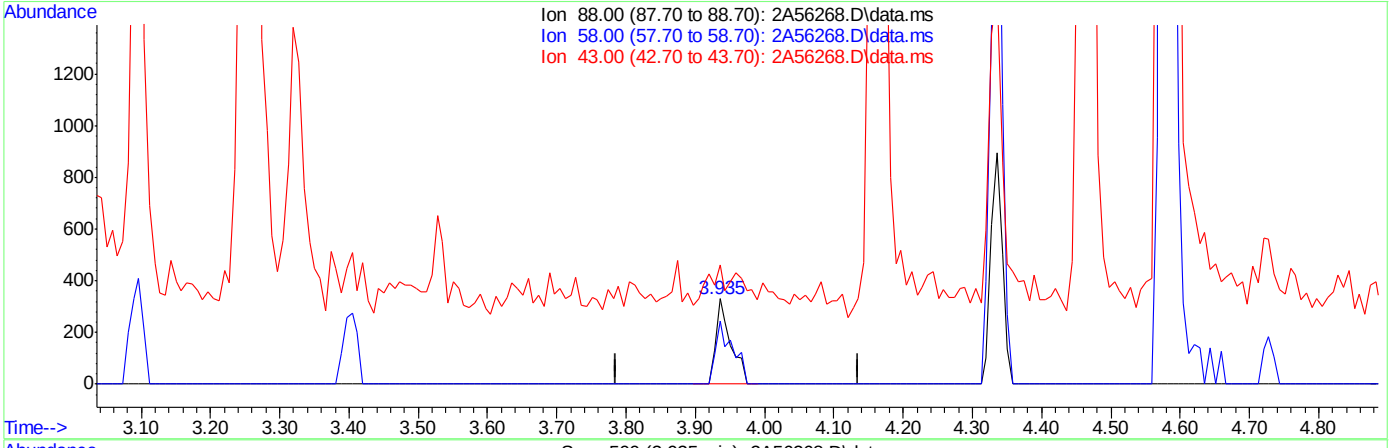
response 0

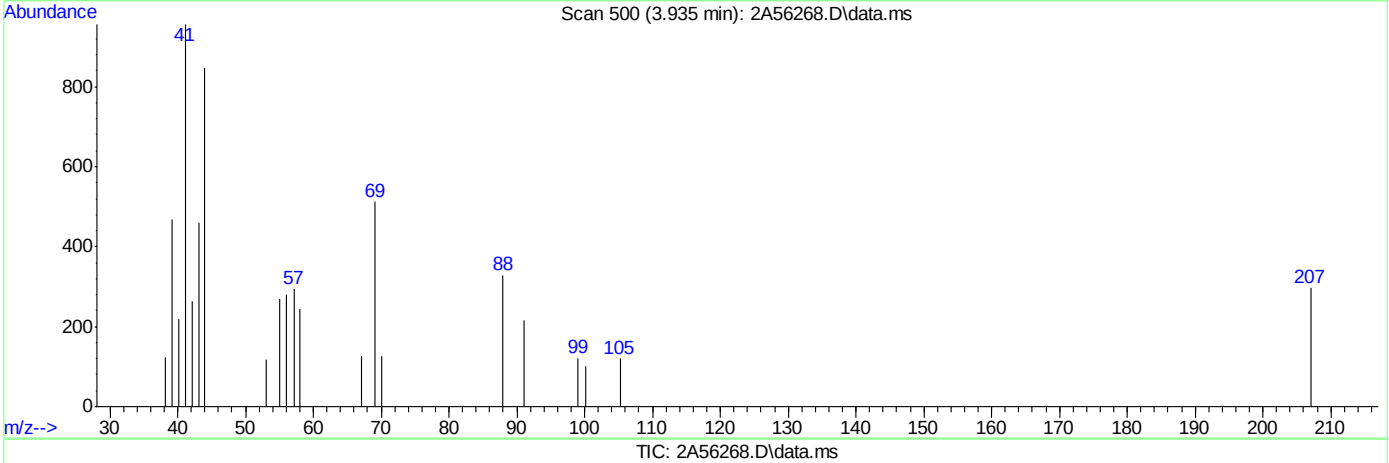
Ion	Exp%	Act%
88.00	100	0.00
58.00	63.50	0.00#
43.00	19.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(59) 1,4-Dioxane

3.935min (-0.001) 32.60ug/L m

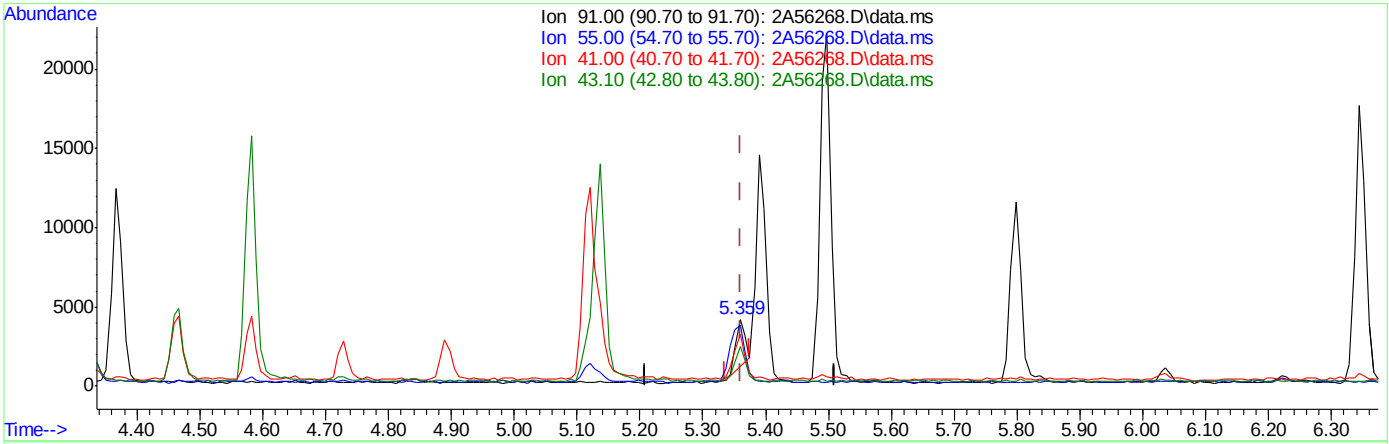
response 492

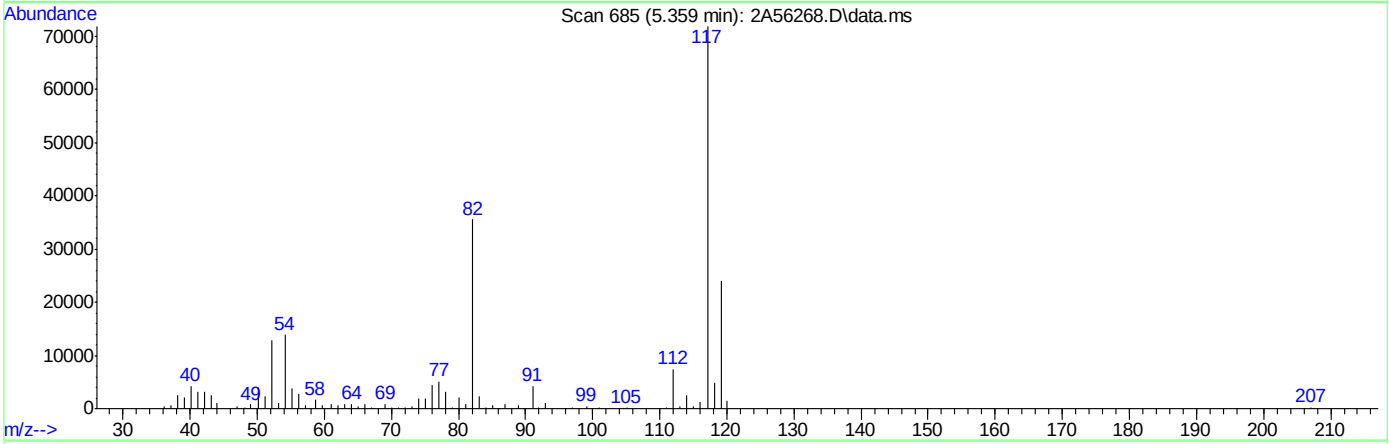
Ion	Exp%	Act%
88.00	100	100
58.00	63.50	73.86
43.00	19.40	139.82#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.68ug/L

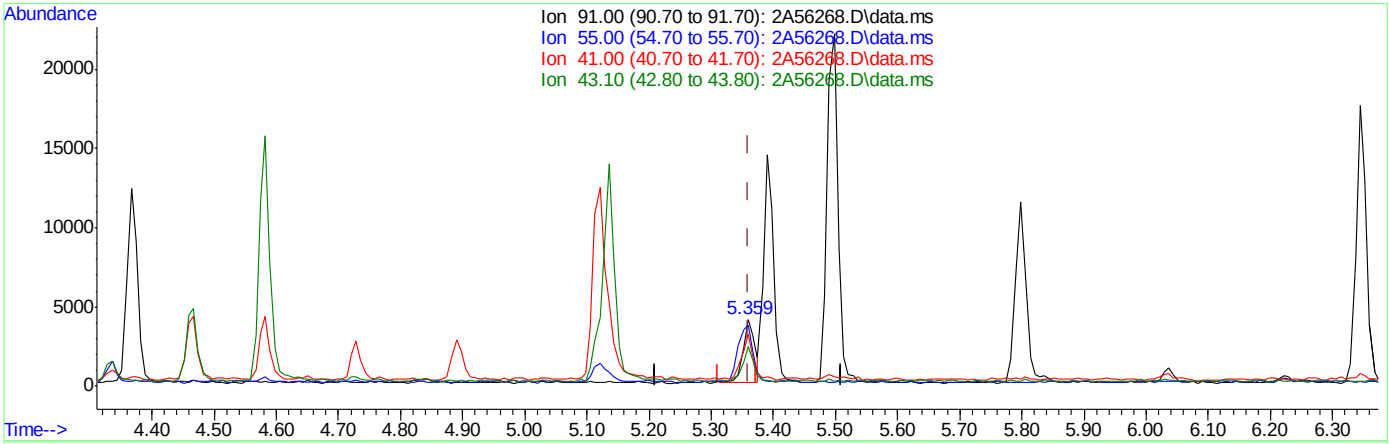
response 3296

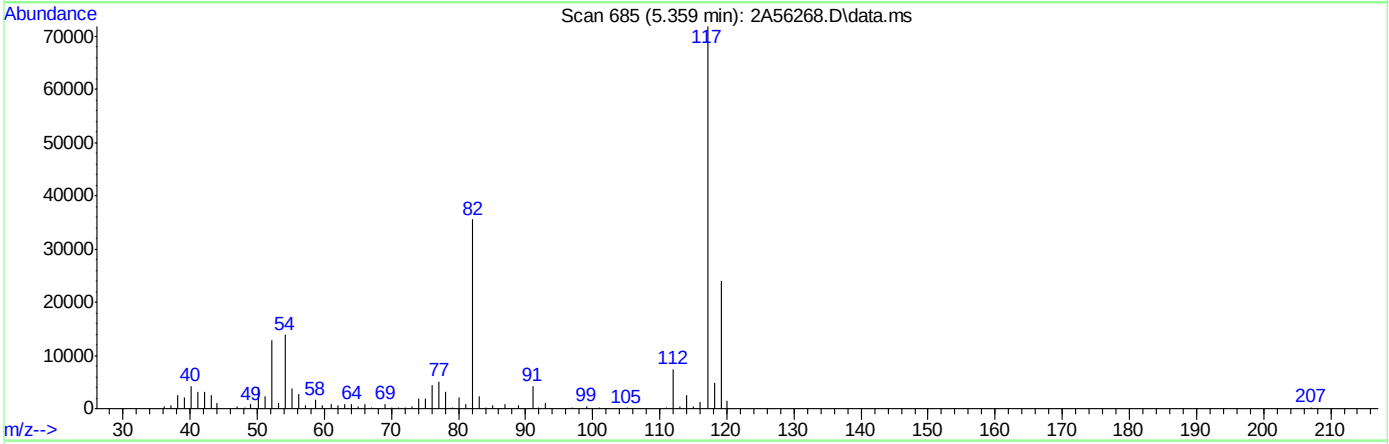
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.59
41.00	39.20	69.57#
43.10	33.20	52.66

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 2.77ug/L m

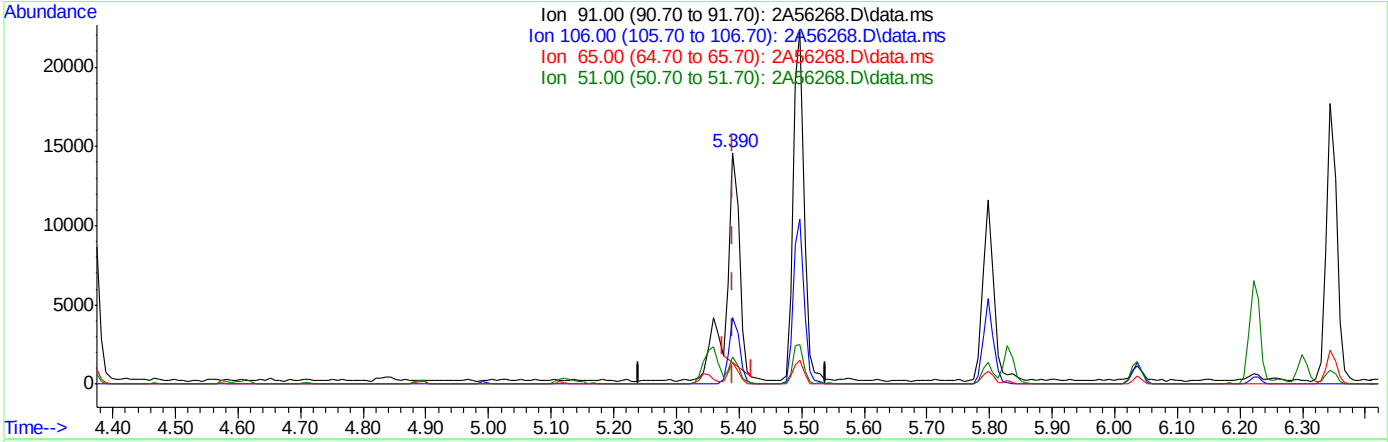
response 5441

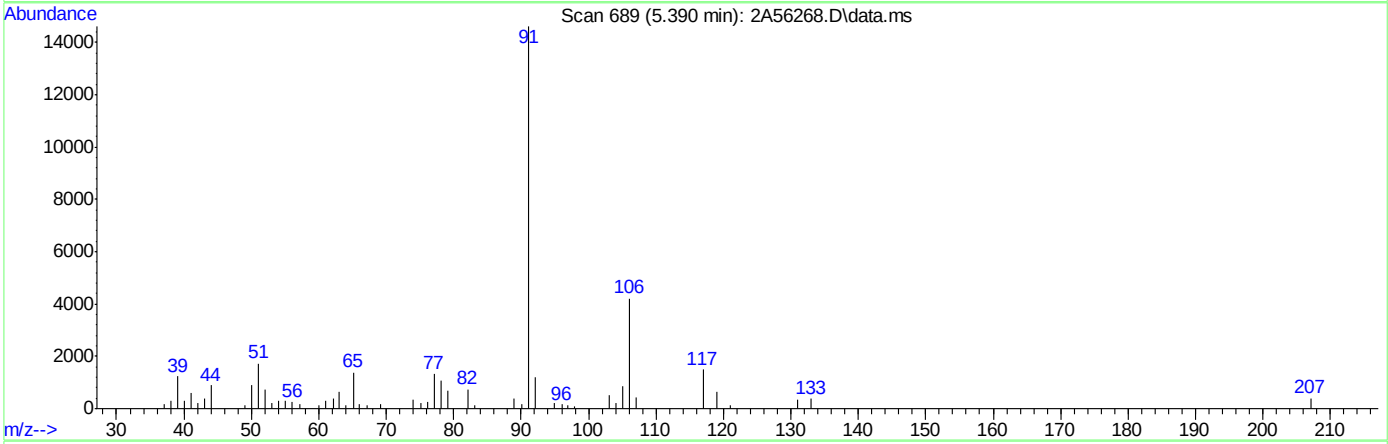
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	90.33#
41.00	39.20	77.46#
43.10	33.20	59.49#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 2.29ug/L

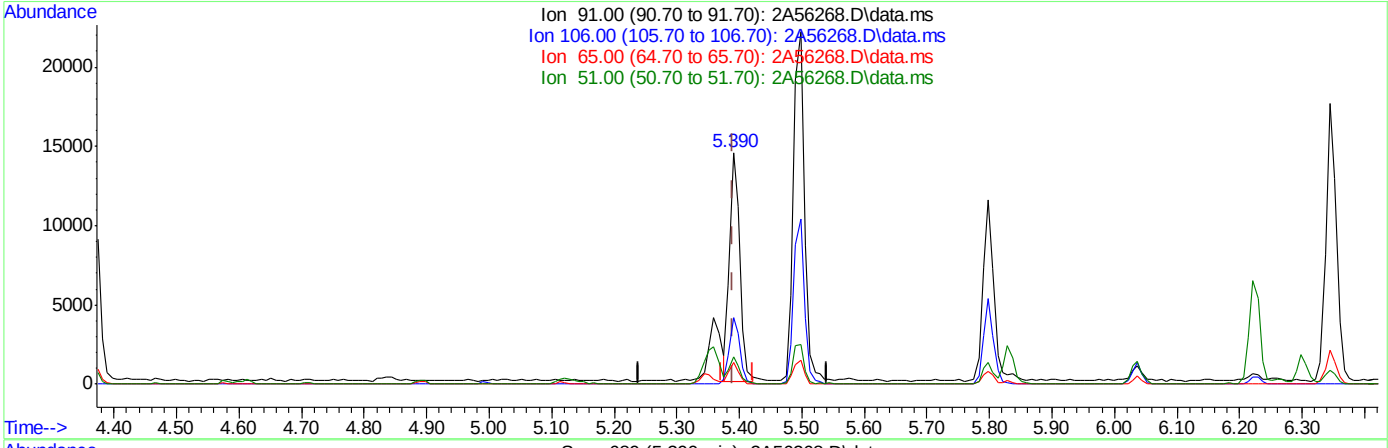
response 13885

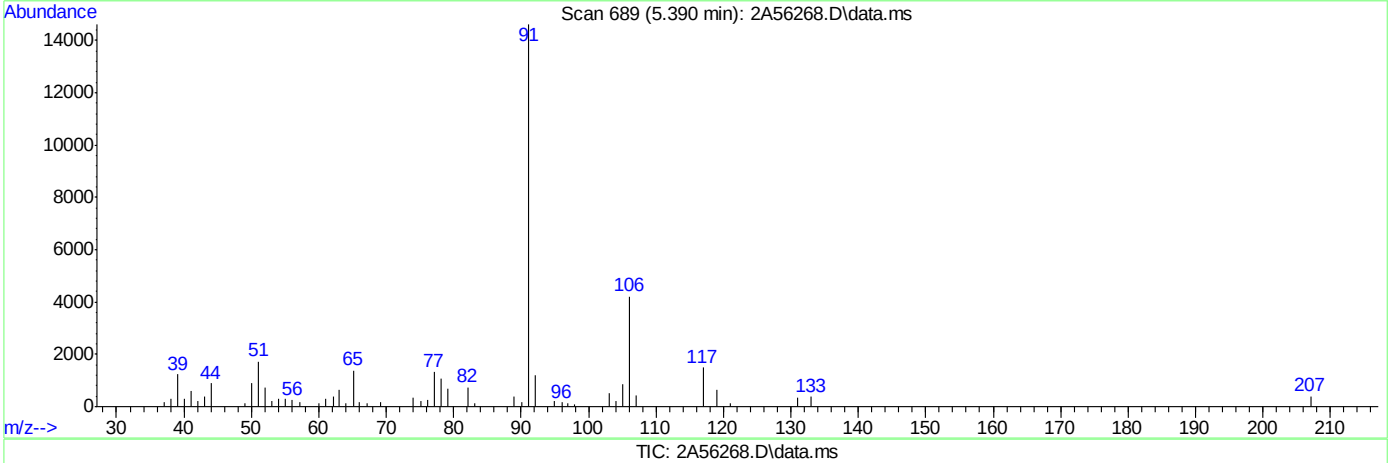
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.65
65.00	7.10	9.69
51.00	7.10	11.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 2.72ug/L m

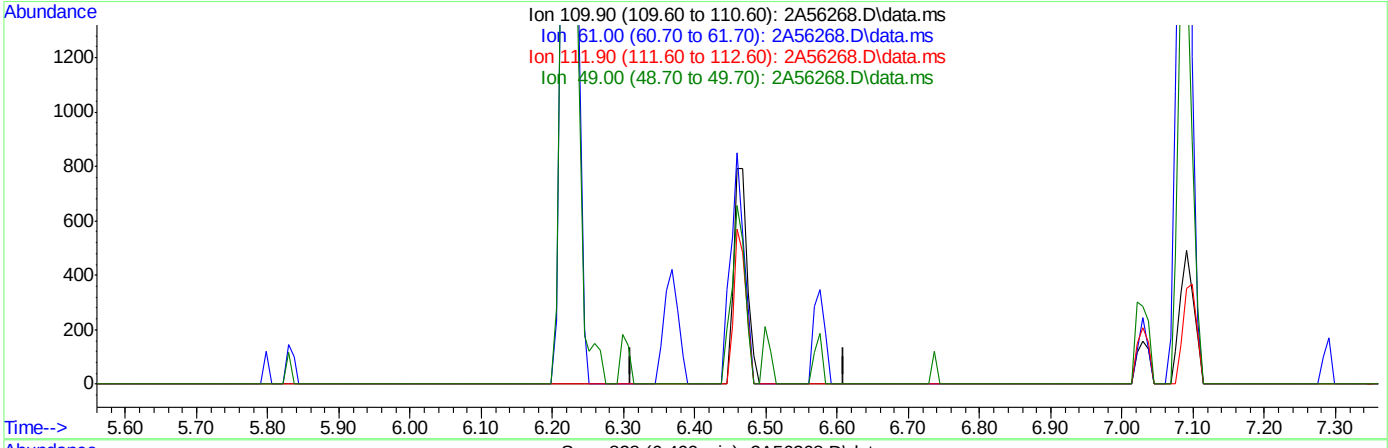
response 16509

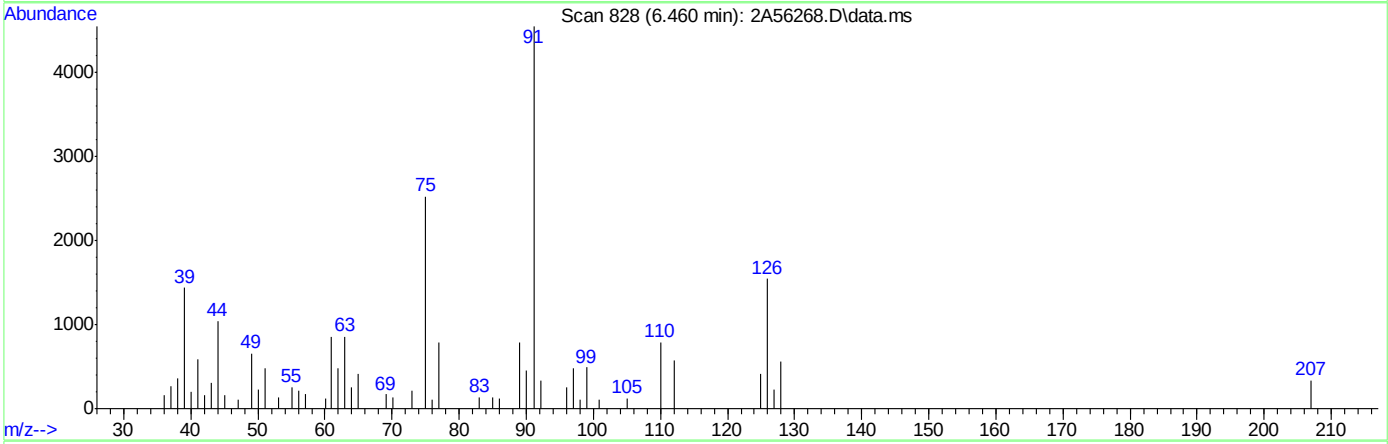
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	28.80
65.00	7.10	9.42
51.00	7.10	11.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-6.460) 0.00ug/L

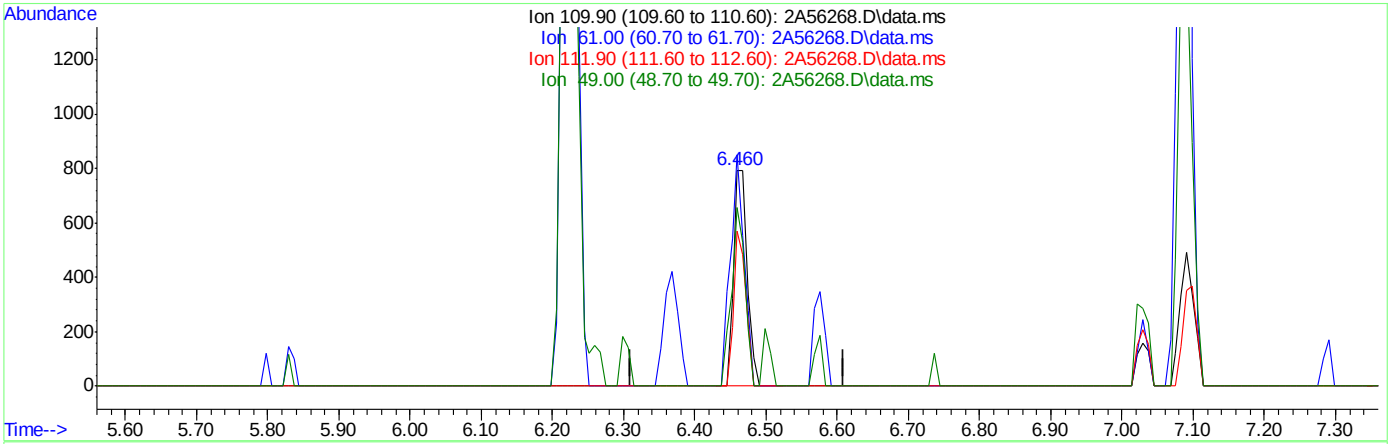
response 0

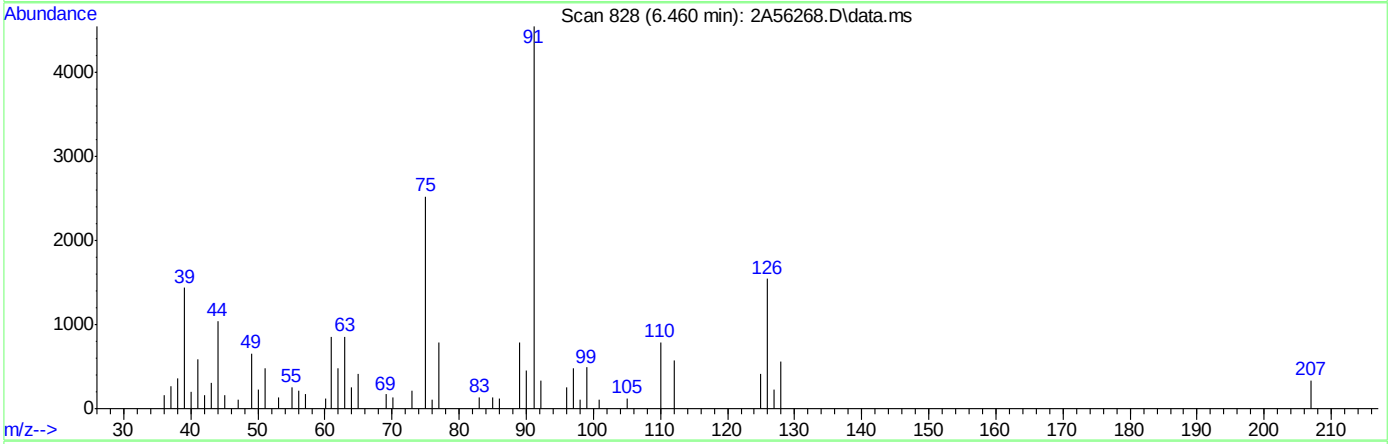
Ion	Exp%	Act%
109.90	100	0.00
61.00	51.70	0.00#
111.90	63.90	0.00#
49.00	36.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-0.000) 2.33ug/L m

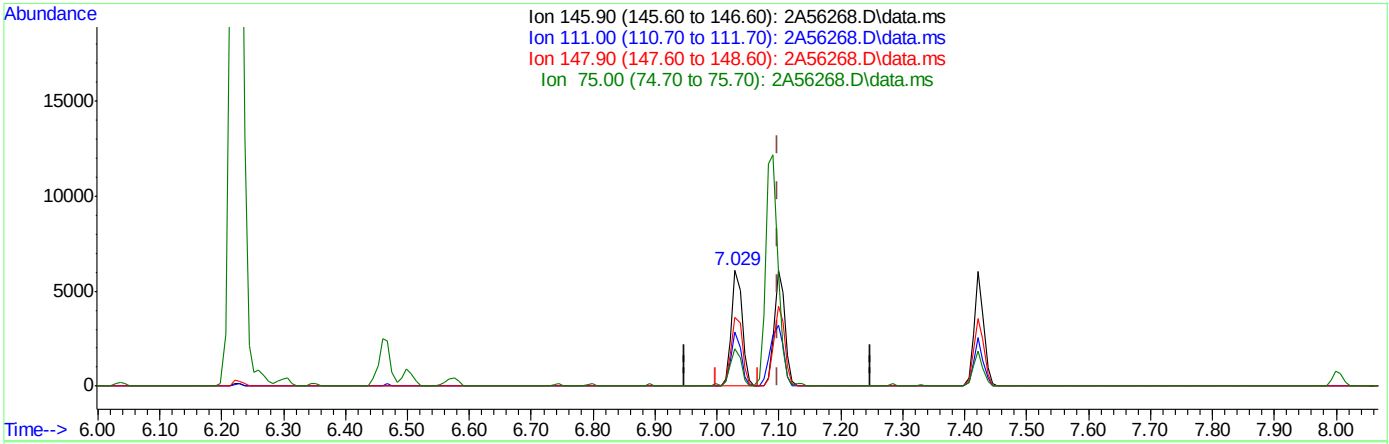
response 1084

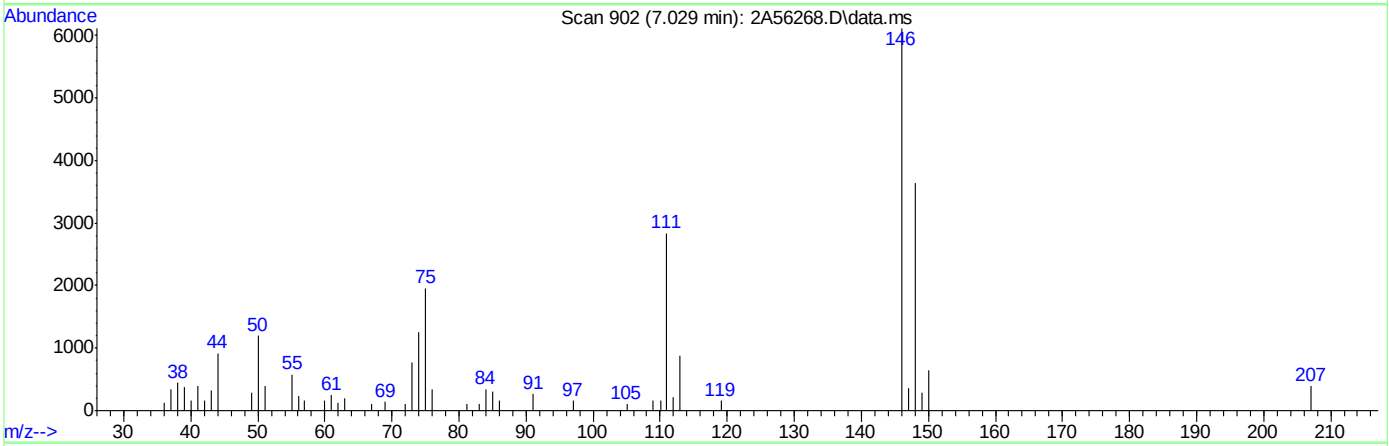
Ion	Exp%	Act%
109.90	100	100
61.00	51.70	107.31#
111.90	63.90	71.88
49.00	36.30	82.72#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(104) 1,4-Dichlorobenzene

7.029min (-0.070) 2.25ug/L

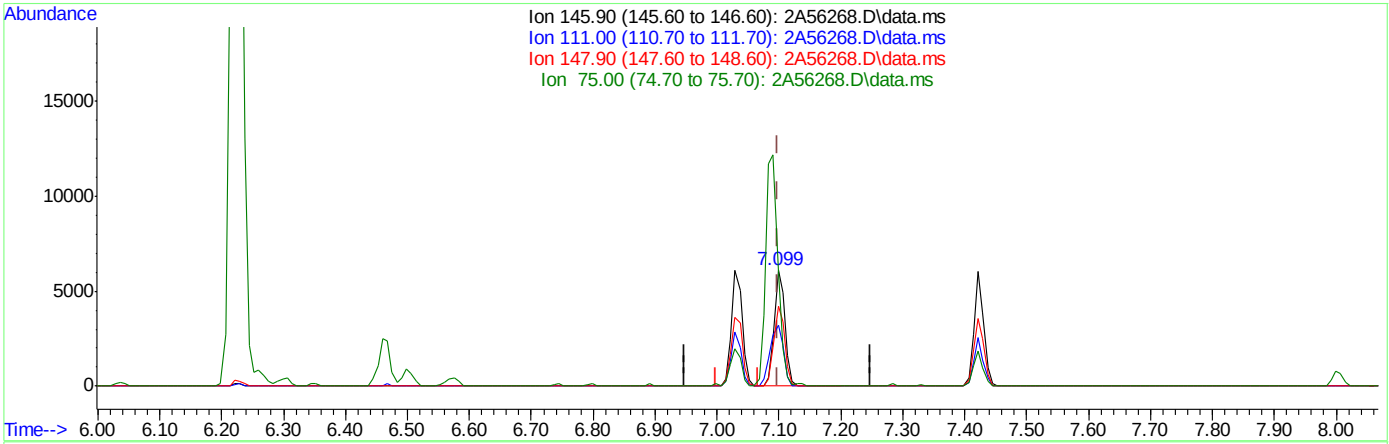
response 7410

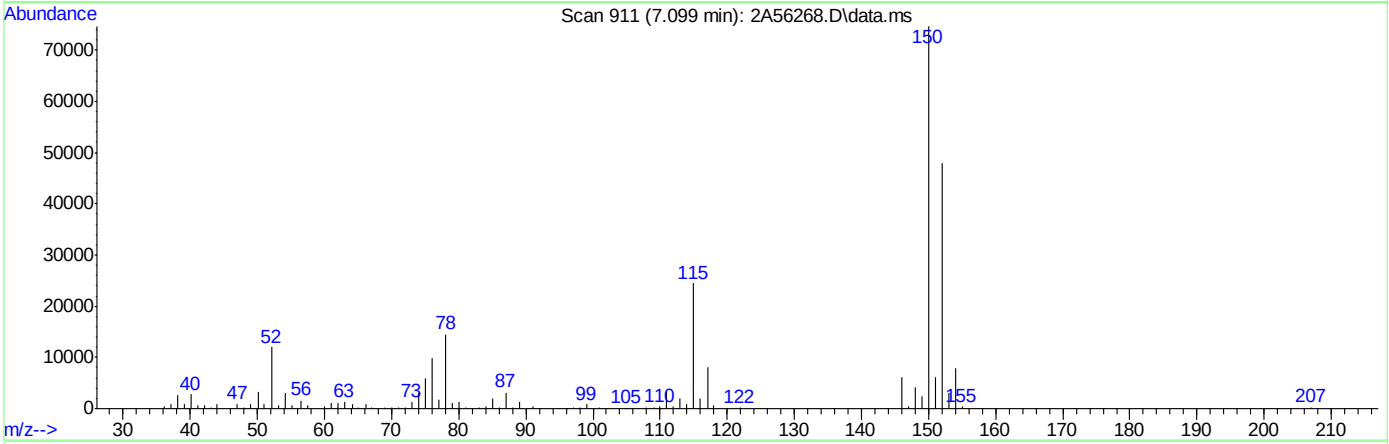
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	46.40
147.90	64.70	59.47
75.00	20.10	30.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(104) 1,4-Dichlorobenzene

7.099min (-0.000) 2.20ug/L m

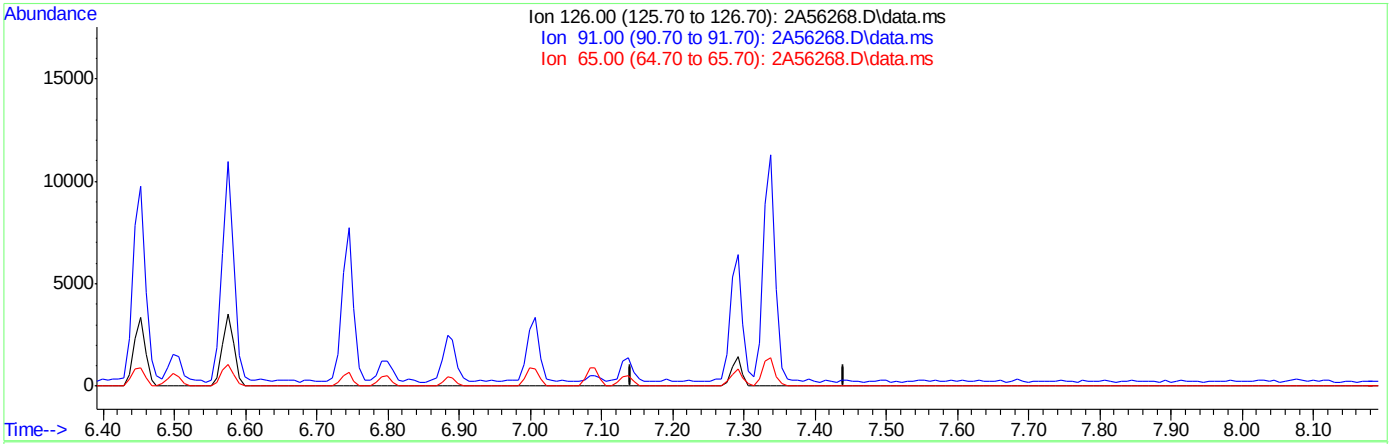
response 7262

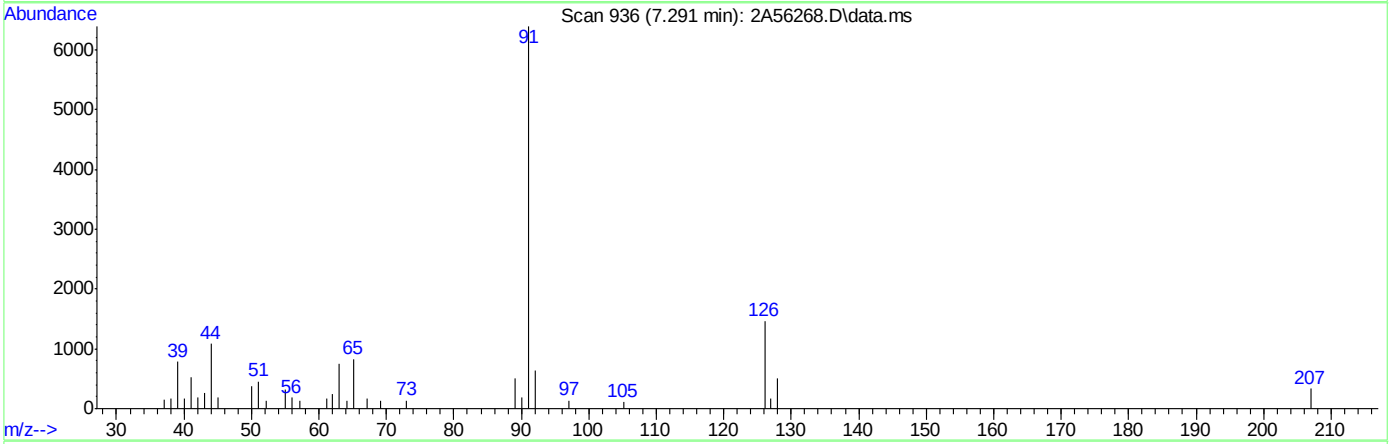
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	52.26
147.90	64.70	68.76
75.00	20.10	97.47#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(106) Benzyl Chloride

7.291min (-7.291) 0.00ug/L

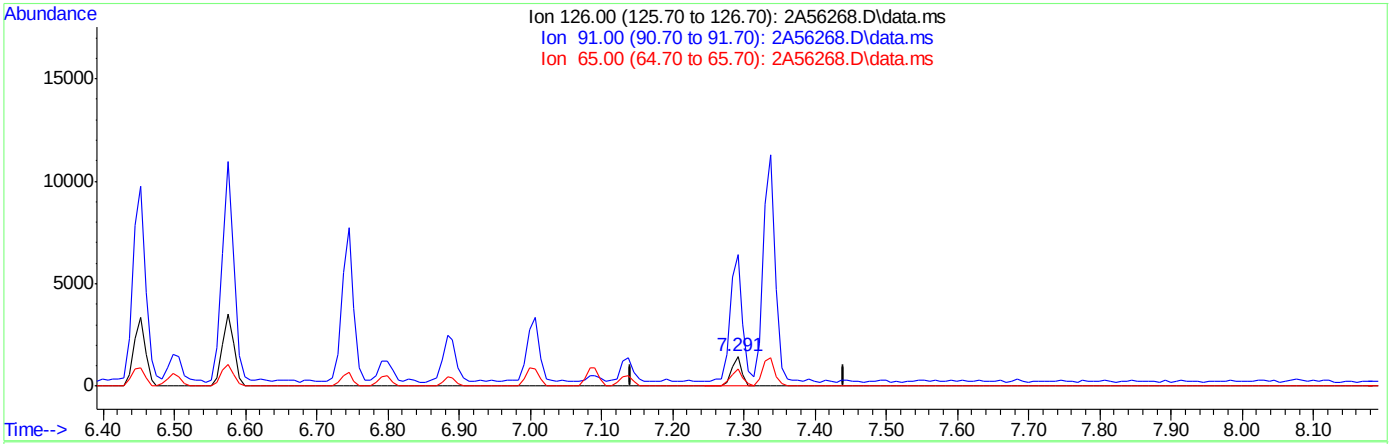
response 0

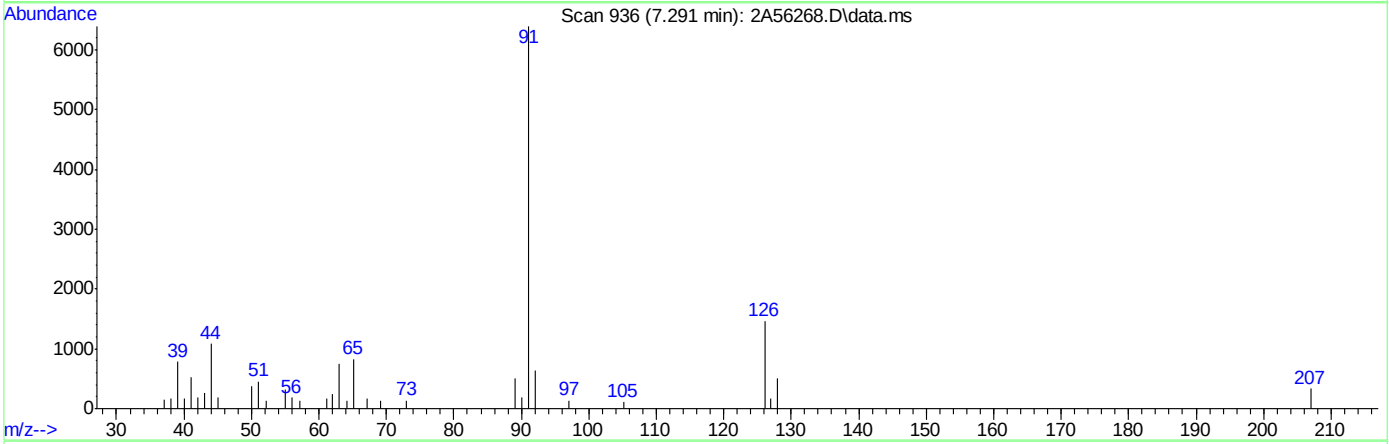
Ion	Exp%	Act%
126.00	100	0.00
91.00	412.40	0.00#
65.00	43.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(106) Benzyl Chloride

7.291min (+0.000) 2.22ug/L m

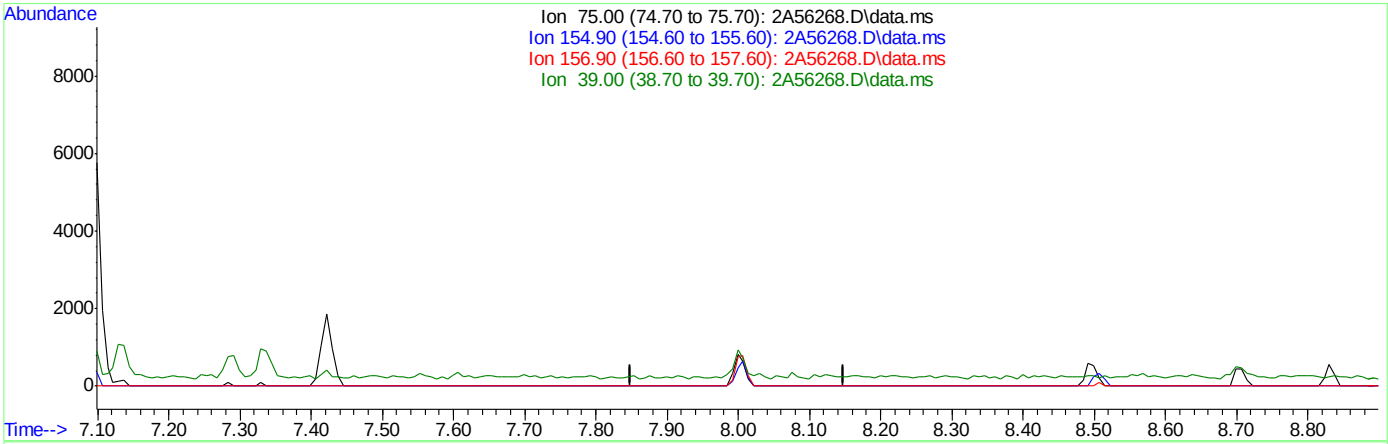
response 1473

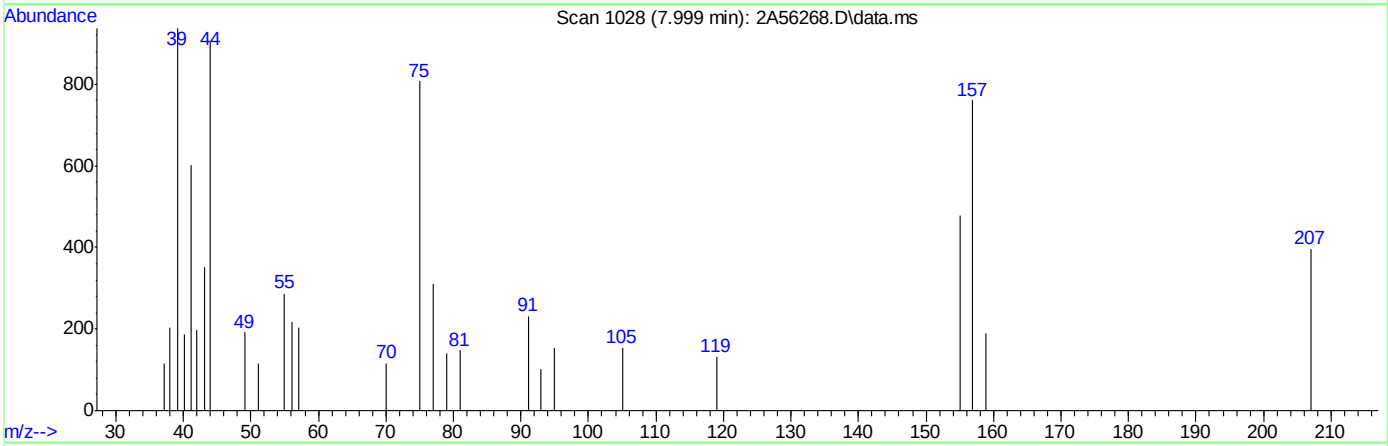
Ion	Exp%	Act%
126.00	100	100
91.00	412.40	435.56#
65.00	43.90	56.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (-7.999) 0.00ug/L

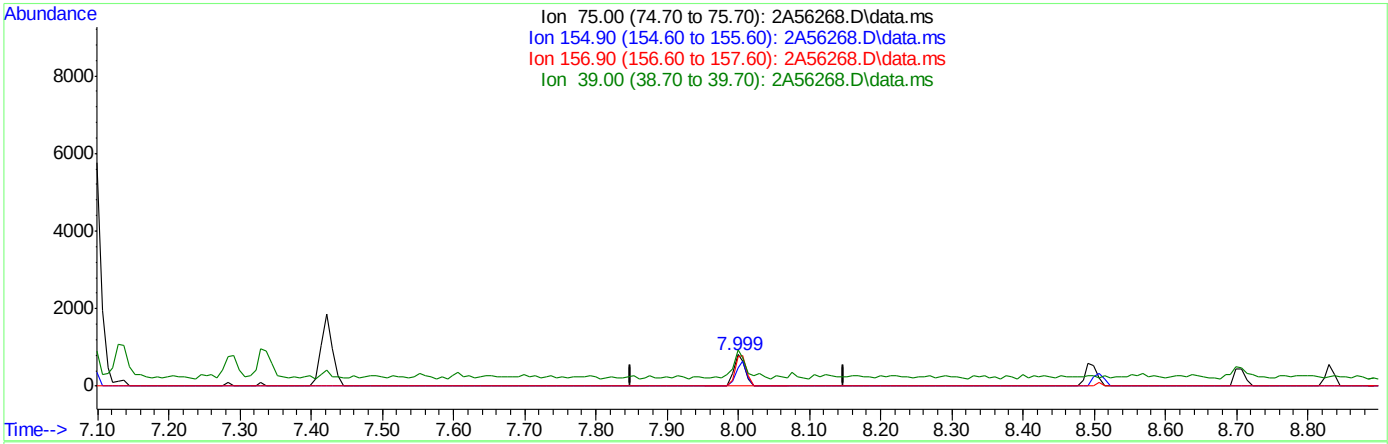
response 0

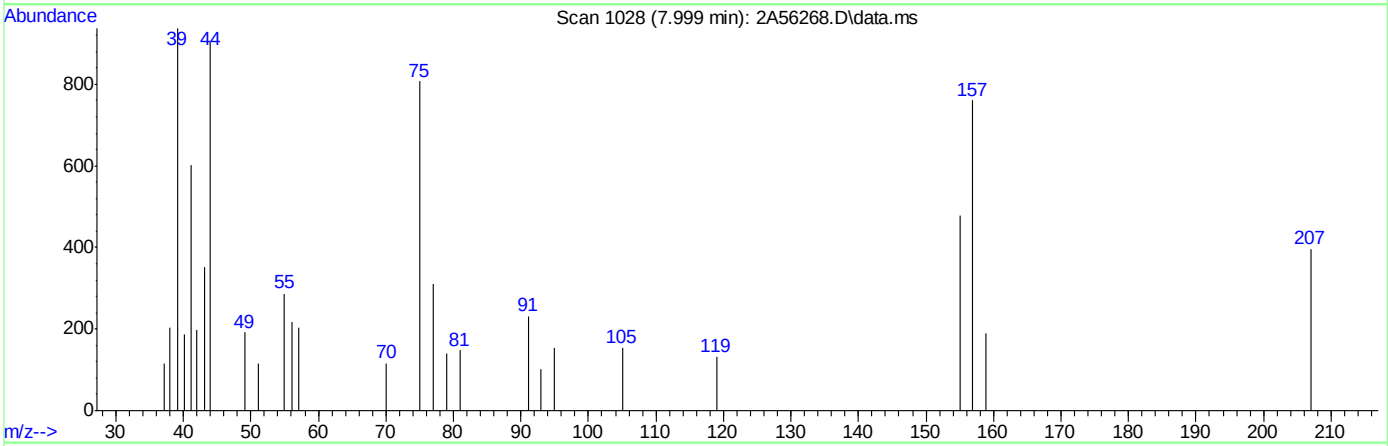
Ion	Exp%	Act%
75.00	100	0.00
154.90	144.40	0.00#
156.90	178.80	0.00#
39.00	47.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (+0.000) 3.25ug/L m

response 920

Ion	Exp%	Act%
75.00	100	100
154.90	144.40	59.36#
156.90	178.80	94.18#
39.00	47.20	116.11#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	284887	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	215661	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	129118	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	85533	50.50	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%				
49) 1,2-Dichloroethane-d4	3.235	65	101342	64.53	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 129.06%#				
63) Toluene-d8	4.336	98	295191	54.67	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.34%				
86) 4-Bromofluorobenzene	6.229	174	101180	49.13	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.26%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	7439	5.11	ug/L		100
3) Chloromethane	1.134	50	9182	7.05	ug/L		96
4) 1,3-butadiene	1.188	39	11353	15.86	ug/L		79
5) Vinyl Chloride	1.173	62	8662	8.20	ug/L		95
6) Bromomethane	1.350	94	4242	9.70	ug/L		88
7) Chloroethane	1.419	64	5242	9.15	ug/L		93
8) Trichlorofluoromethane	1.503	101	12079	6.54	ug/L		97
9) Ethyl Ether	1.657	59	6015	7.28	ug/L		88
10) Ethanol	1.704	45	1873m	175.40	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	6300	7.17	ug/L		95
12) 1,1-Dichloroethene	1.765	61	11498	7.15	ug/L		89
13) Freon 113	1.788	101	6597	4.83	ug/L		87
14) Carbon Disulfide	1.781	76	22447	6.16	ug/L		79
15) Iodomethane	1.834	142	3113	3.68	ug/L		87
16) Acrolein	1.904	56	6271	28.22	ug/L		94
17) Allyl chloride	1.996	41	10951	8.75	ug/L		81
18) Methylene Chloride	2.042	49	12917	9.82	ug/L	#	69
19) Acetone	2.050	43	13785	39.95	ug/L		79
20) Methyl acetate	2.127	43	35487	39.17	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	11319	7.14	ug/L	#	73
22) Hexane	2.196	56	6827	6.30	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	20186	6.30	ug/L		66
24) Acetonitrile	2.273	41	9865	74.37	ug/L		96
25) Tert Butyl Alcohol	2.212	59	11286	66.64	ug/L		64
26) Di-isopropyl ether	2.389	45	22097	8.69	ug/L		86
27) Chloroprene	2.435	53	28489	7.11	ug/L		88
28) 1,1-Dichloroethane	2.442	63	14484	6.89	ug/L		96
29) Acrylonitrile	2.435	52	17633	37.15	ug/L		90
30) ETBE	2.581	59	21107	6.88	ug/L		92
31) Vinyl acetate	2.558	43	78557	43.89	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	8310	5.37	ug/L	#	74
33) 2,2-Dichloropropane	2.781	77	11810	7.13	ug/L		95
34) Bromochloromethane	2.820	128	4149	4.65	ug/L	#	63
35) Cyclohexane	2.858	56	13806	7.34	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	15007	6.23	ug/L		94
37) Ethyl acetate	2.912	43	42049	40.48	ug/L		91
38) Tetrahydrofuran	2.943	42	3510	8.54	ug/L		86
40) Carbon Tetrachloride	2.958	117	10794m	4.89	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	12427	5.70	ug/L		93
42) 2-Butanone	2.997	43	22089	39.57	ug/L		80
43) 1,1-Dichloropropene	3.050	75	9721	6.24	ug/L	#	73
44) tert-Butyl formate	3.097	59	27197	30.07	ug/L		96
45) Propionitrile	3.143	54	12555	59.13	ug/L		98
46) Methacrylonitrile	3.166	41	49160	76.67	ug/L		94
47) Benzene	3.181	78	28498	5.75	ug/L		94
48) TAME	3.251	73	18582	6.27	ug/L		85
50) 1,2-Dichloroethane	3.274	62	10546	6.61	ug/L		94
51) Isobutyl Alcohol	3.251	43	14054	156.08	ug/L		78
52) Tert Amyl Alcohol	3.320	59	9136	67.82	ug/L		97
53) Trichloroethene	3.505	95	8298	5.71	ug/L		84
54) Methylcyclohexane	3.528	83	13195	5.72	ug/L		86
55) Dibromomethane	3.728	93	5098	5.86	ug/L	#	71
56) 1,2-Dichloropropane	3.789	63	7395	6.72	ug/L		90
57) Bromodichloromethane	3.828	83	10408	6.13	ug/L	#	97
58) Methyl methacrylate	3.920	41	6561	8.43	ug/L	#	68
59) 1,4-Dioxane	3.935	88	1375	91.93	ug/L	#	60
60) 2-Chloroethyl vinyl ether	4.159	63	25420	36.57	ug/L		79
61) cis-1,3-Dichloropropene	4.205	75	11259	6.25	ug/L		76
64) Toluene	4.366	91	32499	6.18	ug/L		97
65) 2-Nitropropane	4.459	41	13120	48.83	ug/L		88
66) 4-Methyl-2-pentanone	4.582	43	45812	46.45	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	10057	6.50	ug/L		81
68) Tetrachloroethene	4.628	166	8390	4.40	ug/L		96
69) Ethyl methacrylate	4.728	69	8947	6.79	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	5836	6.58	ug/L		86
71) Dibromochloromethane	4.836	129	7212	4.87	ug/L		98
72) 1,3-Dichloropropane	4.890	76	10618	6.51	ug/L		78
73) 1,2-Dibromoethane	4.990	107	6775	5.24	ug/L		98
74) 3,3-Dimethyl-1-Butanol	5.121	57	58518	389.21	ug/L		95
75) 2-hexanone	5.136	43	46302	47.81	ug/L		74
76) 1-Chlorohexane	5.359	91	12879m	6.78	ug/L		
77) Ethylbenzene	5.390	91	37564m	6.40	ug/L		
78) Chlorobenzene	5.359	112	21430	5.65	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	6866	4.95	ug/L		95
80) m,p-Xylene	5.498	91	61229	12.72	ug/L		94
81) o-Xylene	5.798	91	32576	6.64	ug/L		94
82) Styrene	5.829	104	23450	6.21	ug/L		90
83) Bromoform	5.837	173	4981	4.16	ug/L		89
84) Isopropylbenzene	6.037	105	38562	6.13	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	2286	6.08	ug/L	#	57
88) n-Propylbenzene	6.344	91	46628	7.45	ug/L		89
89) Bromobenzene	6.306	156	8968	5.39	ug/L		82
90) 1,1,2,2-Tetrachloroethane	6.368	83	10450	7.40	ug/L		99
91) 1,3,5-Trimethylbenzene	6.498	105	31634	6.69	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

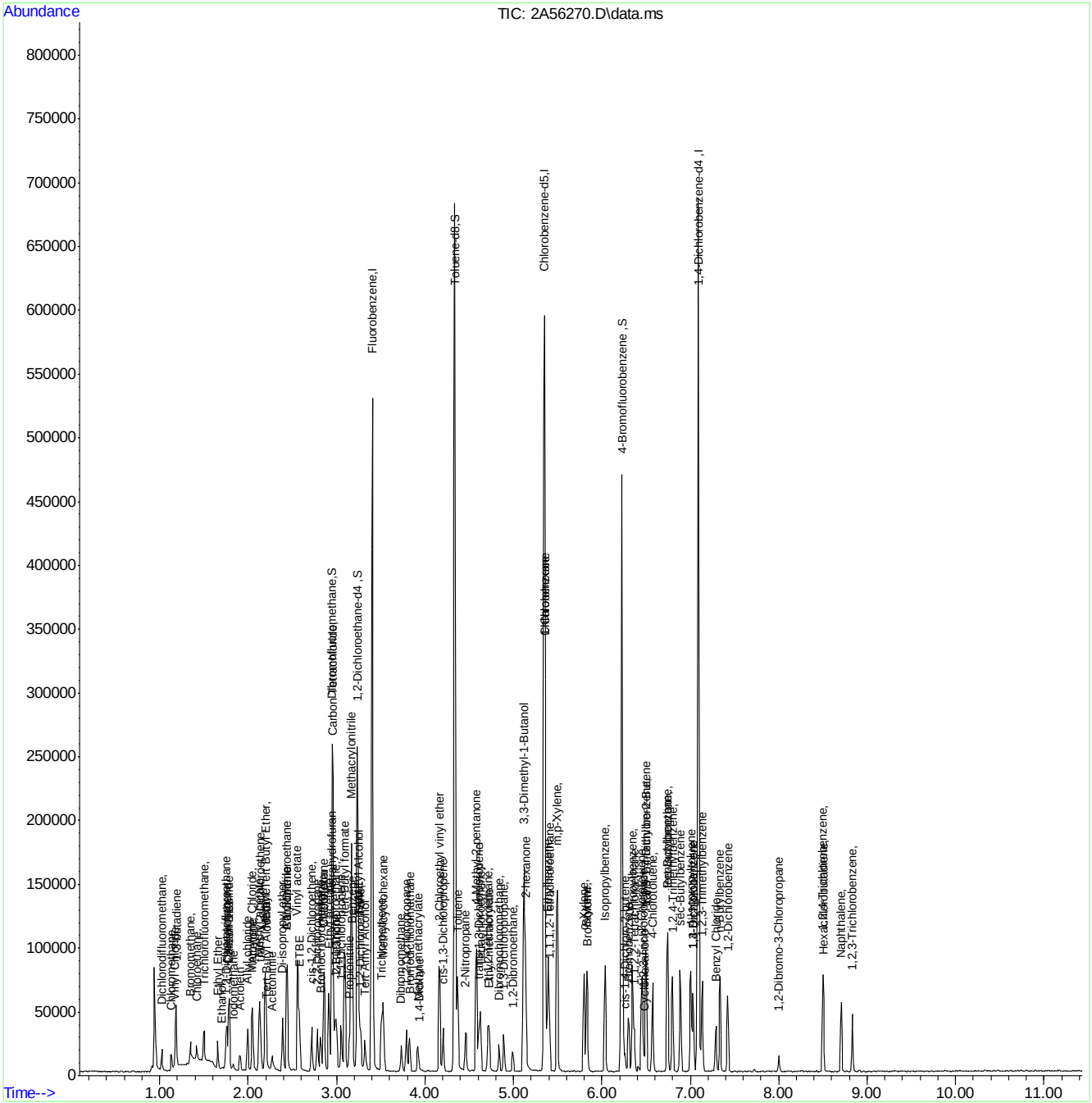
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	25771	7.10	ug/L		95
93)	trans-1,4-Dichloro-2-B...	6.498	53	3193	7.22	ug/L	#	62
94)	1,2,3-Trichloropropane	6.468	110	2713	5.81	ug/L		78
95)	Cyclohexanone	6.475	55	1609	41.56	ug/L		79
96)	4-Chlorotoluene	6.575	91	27802	7.21	ug/L		89
97)	tert-Butylbenzene	6.745	91	19259	7.52	ug/L		83
98)	1,2,4-Trimethylbenzene	6.799	105	30216	6.05	ug/L		97
99)	Pentachloroethane	6.745	167	4415	4.44	ug/L	#	34
100)	sec-Butylbenzene	6.883	105	40998	6.71	ug/L		92
101)	4-Isopropyltoluene	7.006	119	34277	6.53	ug/L		96
102)	1,3-Dichlorobenzene	7.029	146	17725	5.40	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	29691	6.44	ug/L		98
104)	1,4-Dichlorobenzene	7.029	146	17725	5.36	ug/L		92
105)	n-Butylbenzene	7.337	92	15502	6.57	ug/L		93
106)	Benzyl Chloride	7.291	126	3671	5.51	ug/L	#	63
107)	1,2-Dichlorobenzene	7.422	146	16452	5.65	ug/L		90
108)	1,2-Dibromo-3-Chloropr...	7.999	75	2113	7.45	ug/L	#	41
109)	Hexachlorobutadiene	8.507	225	4613	4.48	ug/L		95
110)	1,2,4-Trichlorobenzene	8.499	180	9919	5.13	ug/L		97
111)	Naphthalene	8.707	128	26536	6.23	ug/L		99
112)	1,2,3-Trichlorobenzene	8.830	180	8673	4.85	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

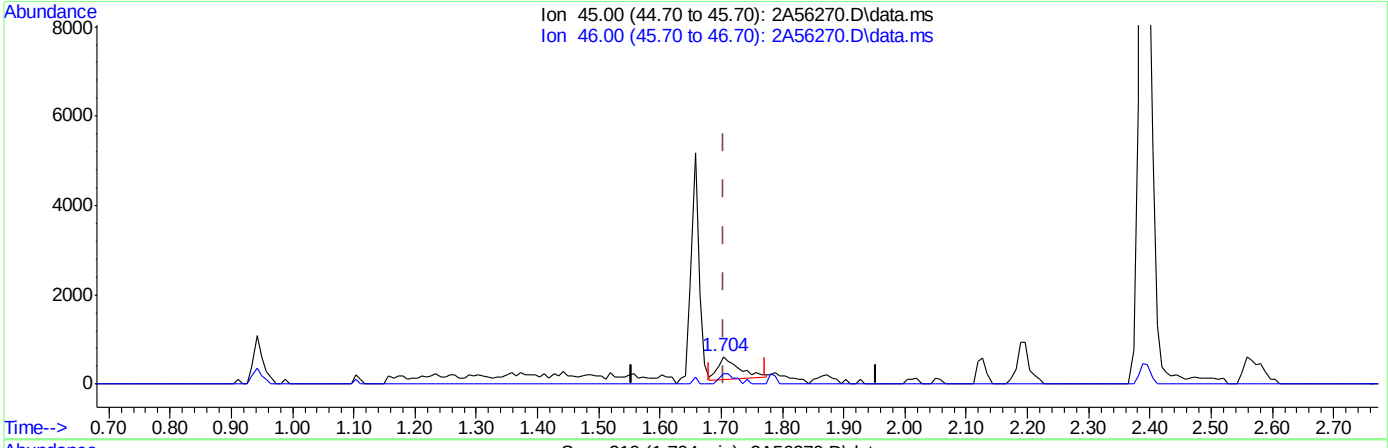
Sample Number: V2A1910-IC1910
Lab FileID: 2A56270.D
Injection Time: 06/25/24 09:11
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

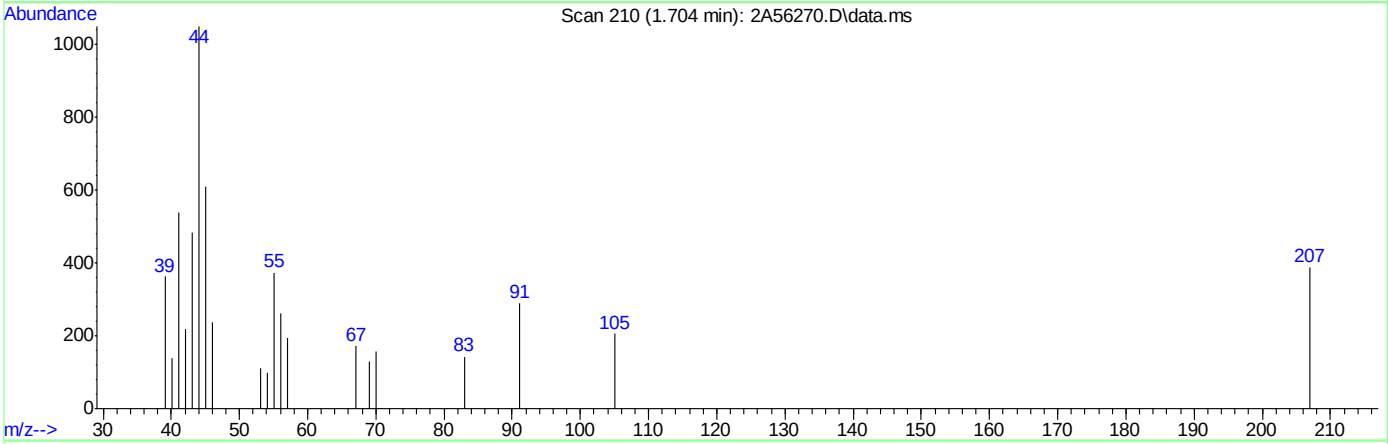
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.70	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(10) Ethanol

1.704min (-0.000) 113.87ug/L

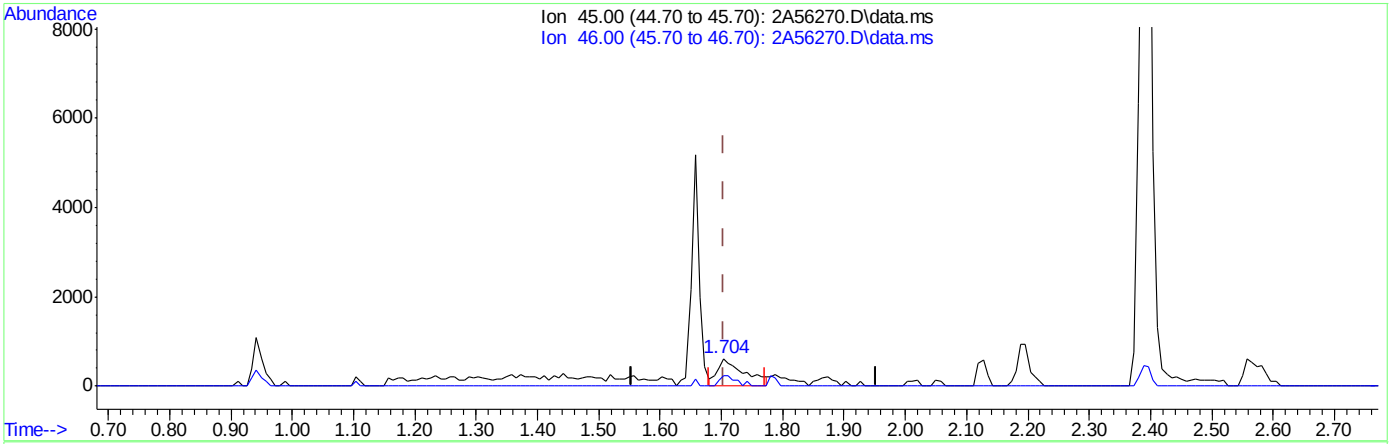
response 1216

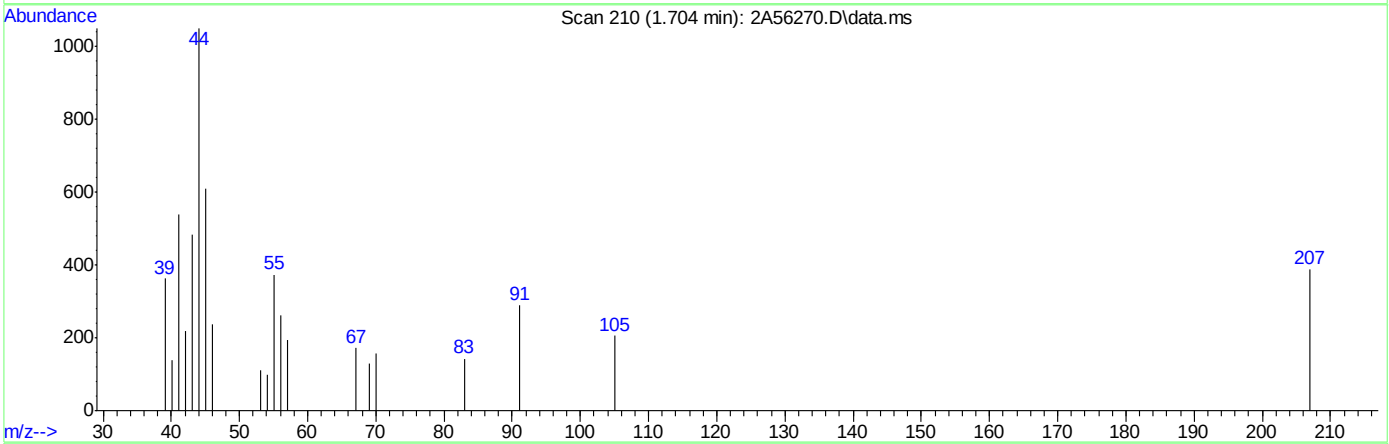
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	53.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(10) Ethanol

1.704min (-0.000) 175.40ug/L m

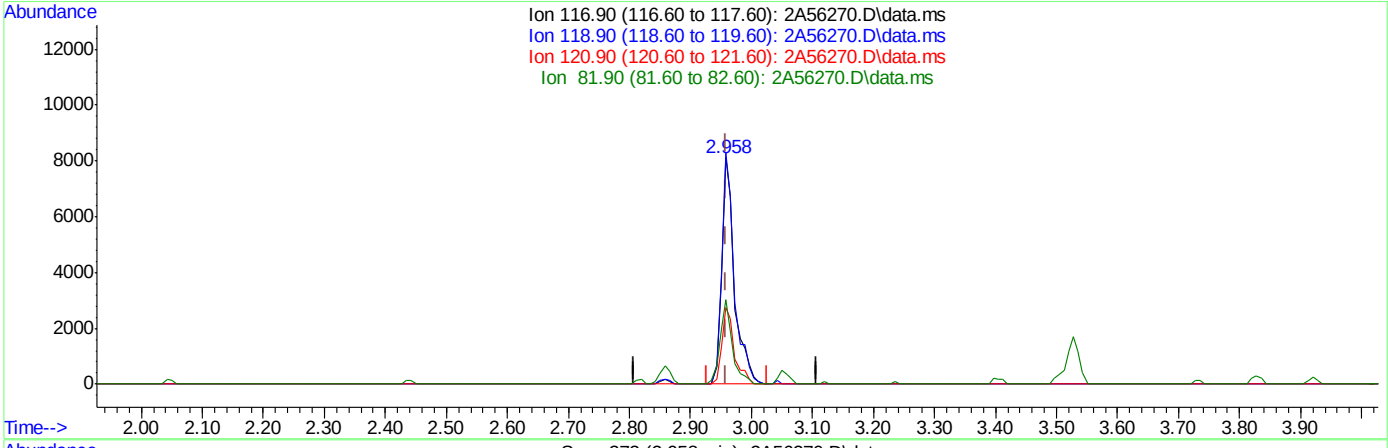
response 1873

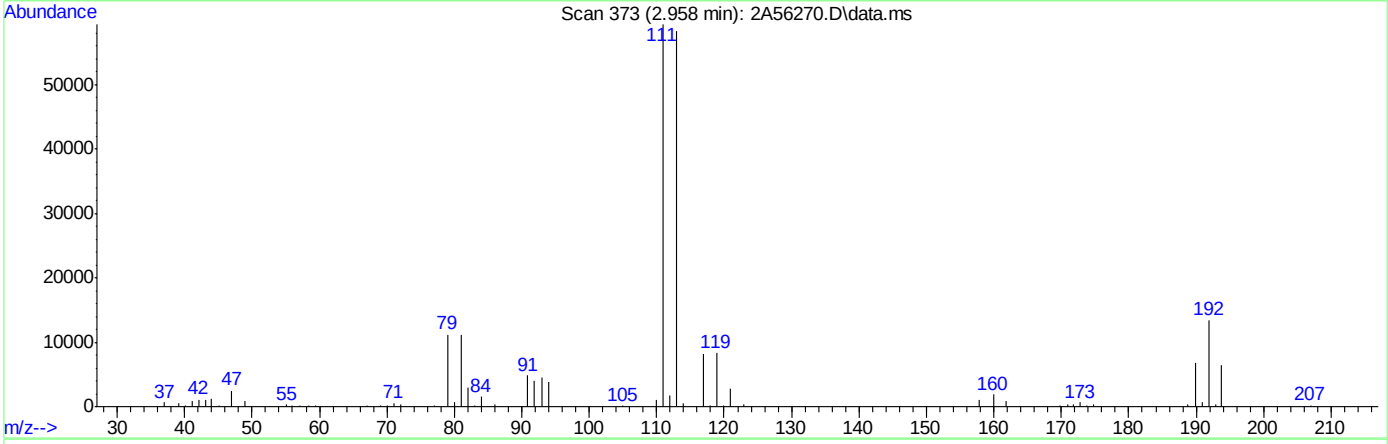
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 5.38ug/L

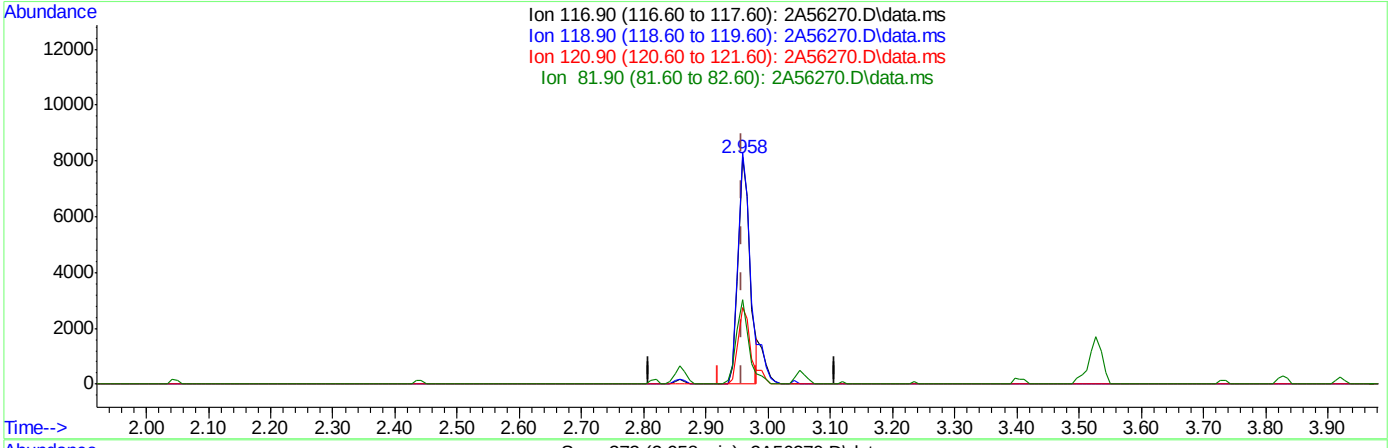
response 11886

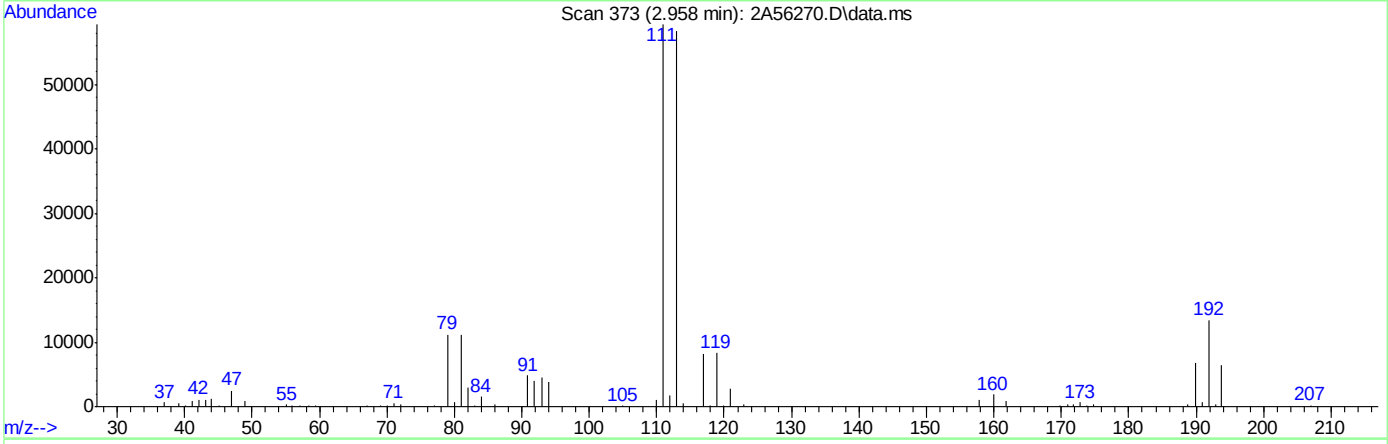
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	102.37
120.90	31.00	33.84
81.90	19.00	37.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 4.89ug/L m

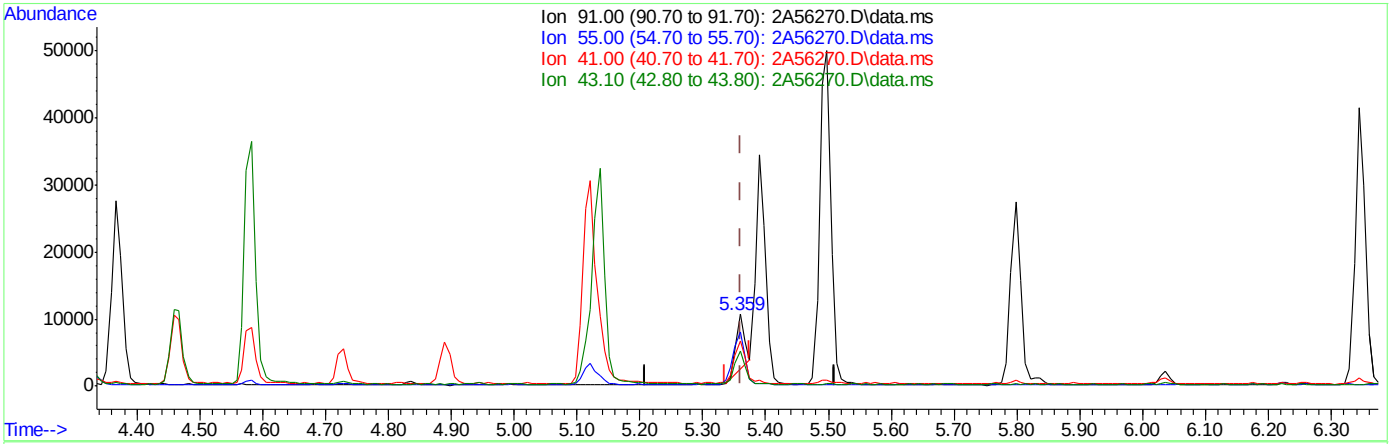
response 10794

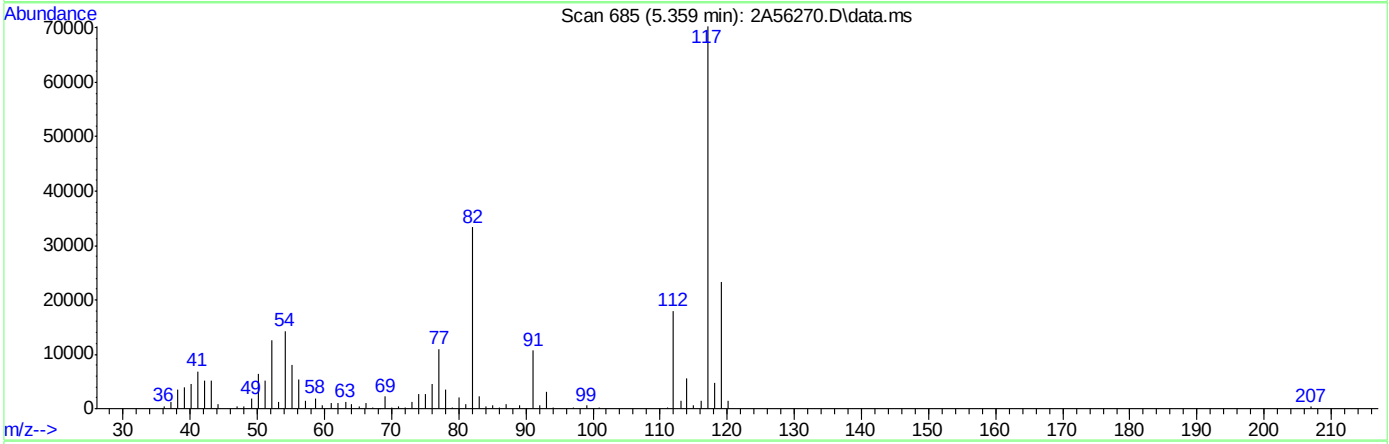
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	102.37
120.90	31.00	33.84
81.90	19.00	37.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 4.25ug/L

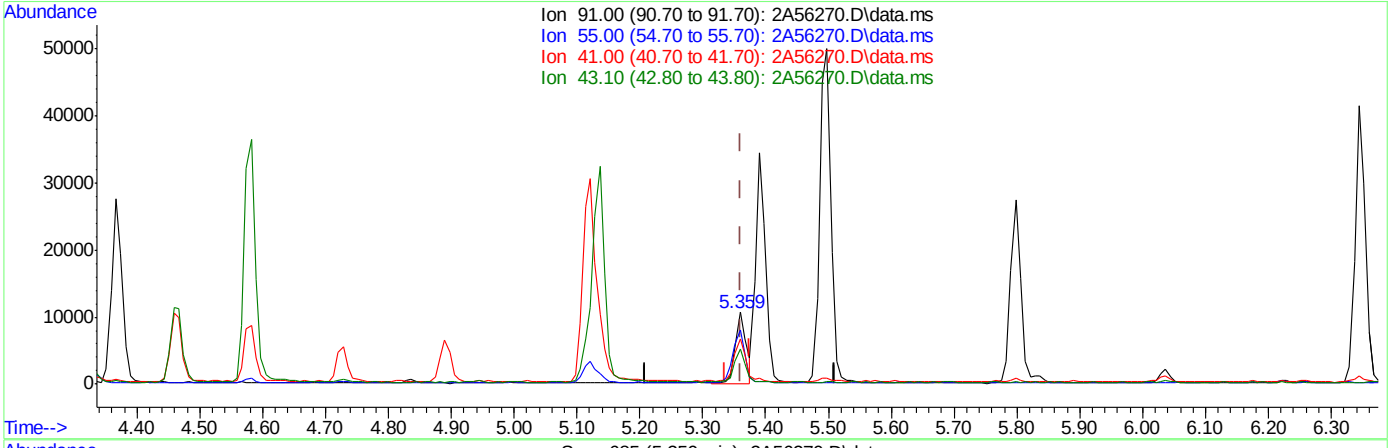
response 8066

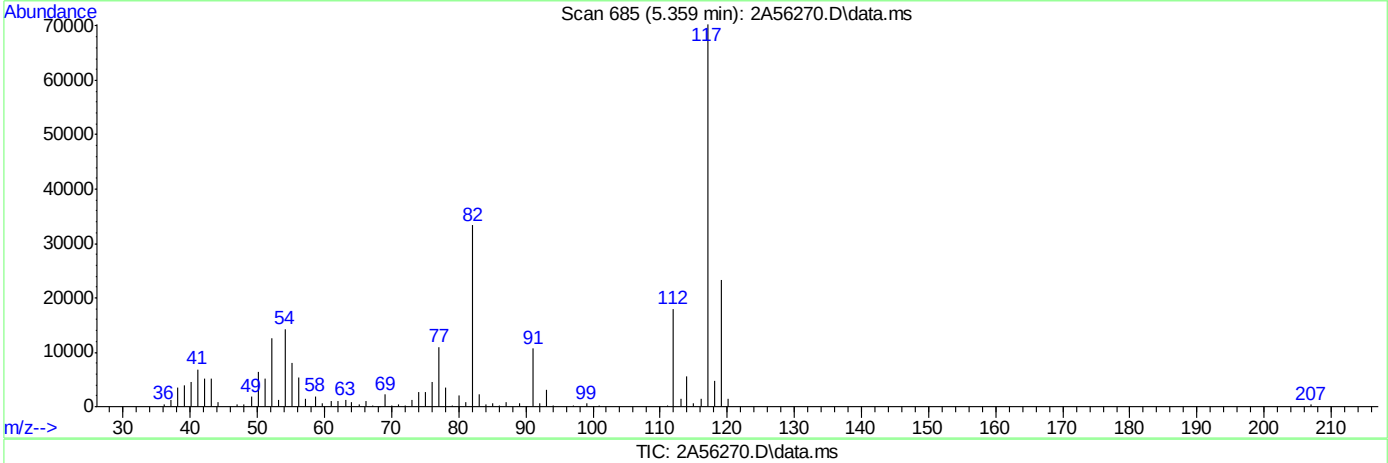
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	70.00
41.00	39.20	60.21#
43.10	33.20	45.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 6.78ug/L m

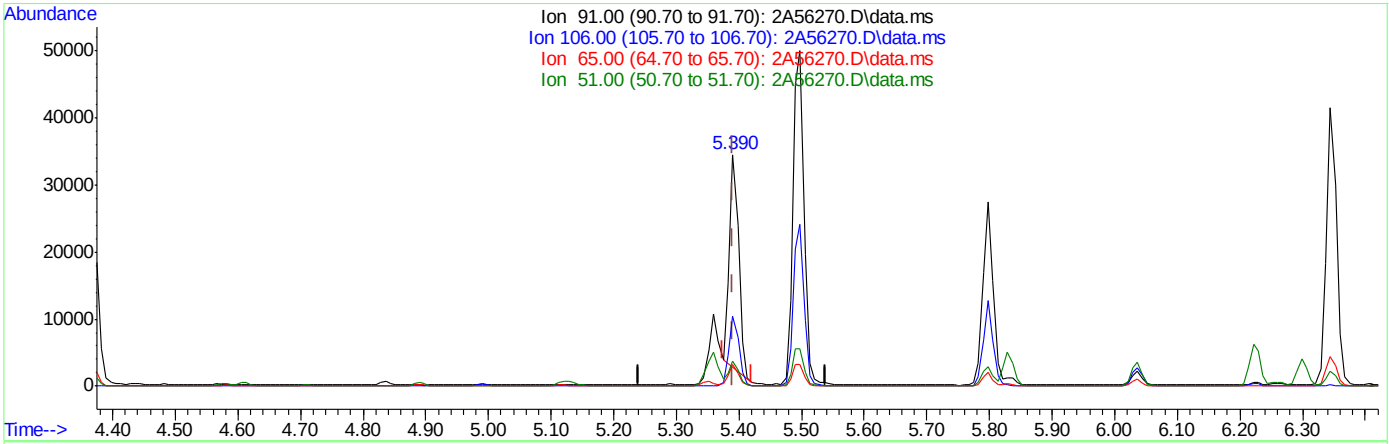
response 12879

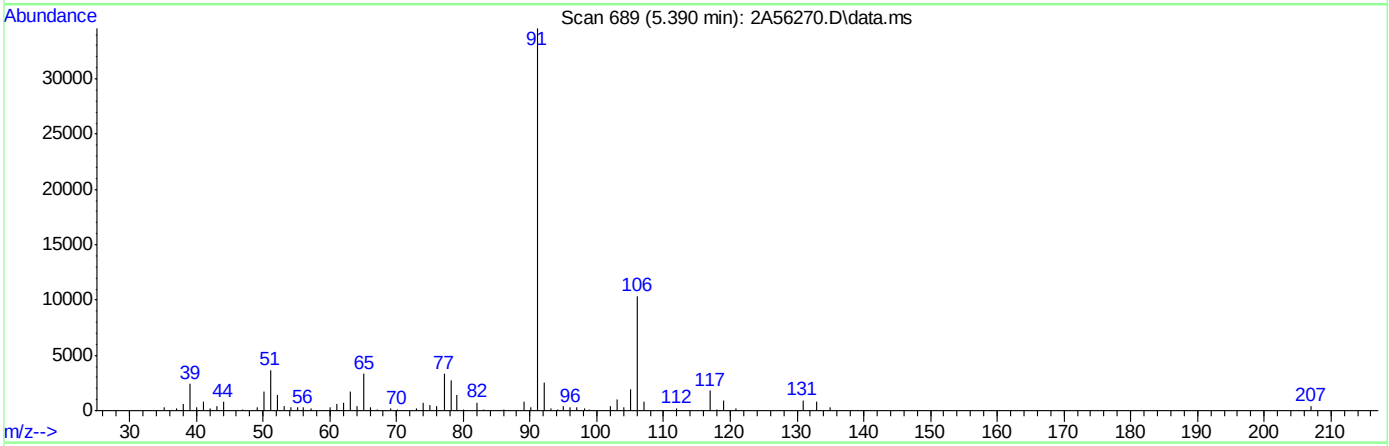
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	76.03
41.00	39.20	63.79#
43.10	33.20	48.68

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 5.40ug/L

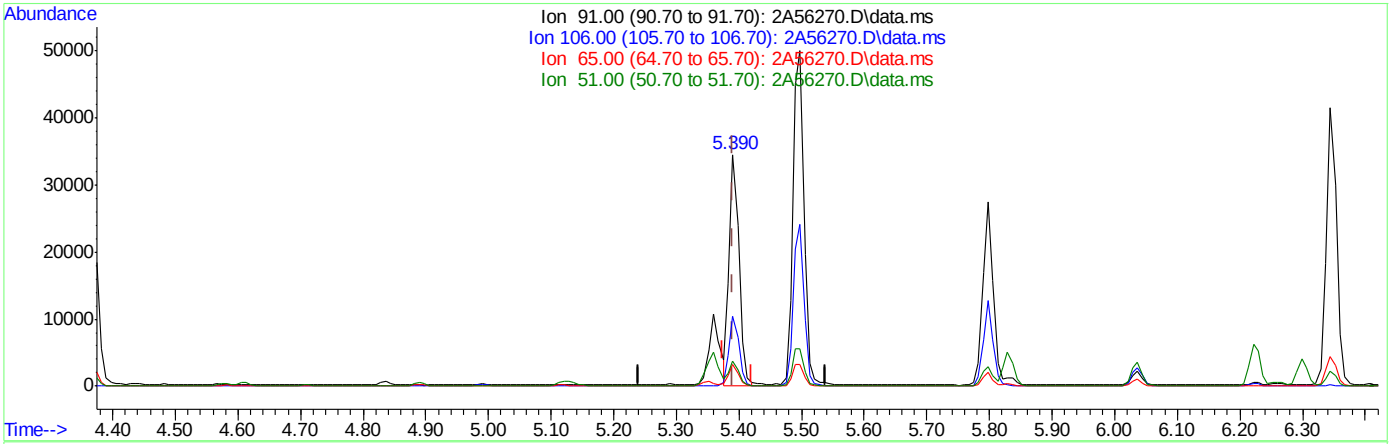
response 31668

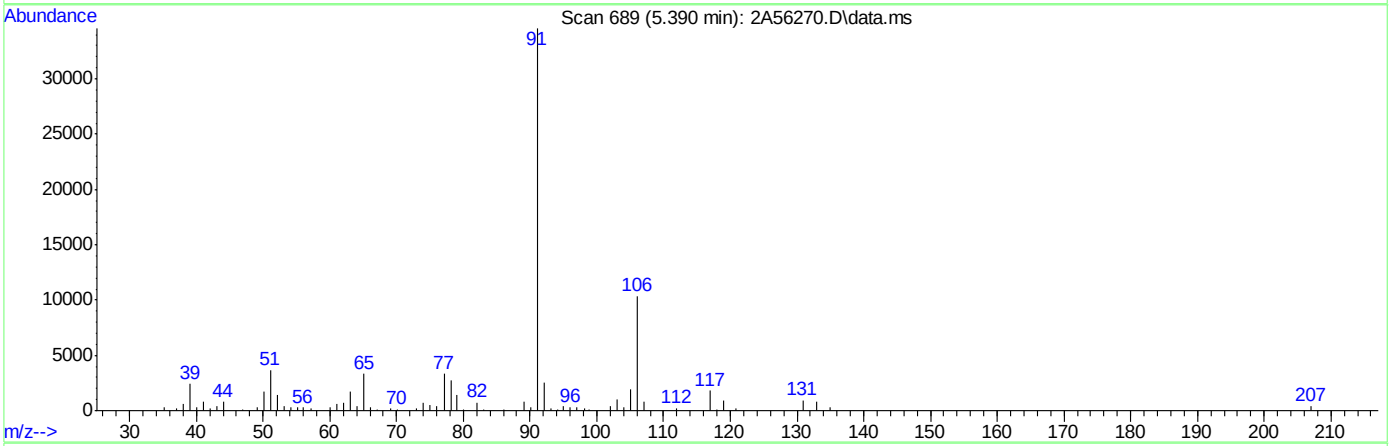
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.48
65.00	7.10	9.75
51.00	7.10	10.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 6.40ug/L m

response 37564

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.00
65.00	7.10	9.59
51.00	7.10	10.62

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	290777	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	213893	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	129243	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	84916	49.12	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.24%				
49) 1,2-Dichloroethane-d4	3.235	65	102050	63.66	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 127.32%#				
63) Toluene-d8	4.336	98	295093	55.10	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.20%				
86) 4-Bromofluorobenzene	6.229	174	102012	49.49	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	13953	9.39	ug/L		98
3) Chloromethane	1.126	50	16638	12.52	ug/L		100
4) 1,3-butadiene	1.188	39	20150	27.58	ug/L	#	77
5) Vinyl Chloride	1.173	62	15816	14.67	ug/L		100
6) Bromomethane	1.350	94	7552	16.92	ug/L		96
7) Chloroethane	1.419	64	9616	17.00	ug/L		93
8) Trichlorofluoromethane	1.496	101	22668	12.03	ug/L		98
9) Ethyl Ether	1.657	59	11870	14.08	ug/L		89
10) Ethanol	1.704	45	3837m	352.05	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	12263	13.68	ug/L		93
12) 1,1-Dichloroethene	1.765	61	22467	13.68	ug/L		90
13) Freon 113	1.788	101	14215	10.20	ug/L	#	87
14) Carbon Disulfide	1.781	76	42647	11.47	ug/L		78
15) Iodomethane	1.834	142	7197	8.08	ug/L		87
16) Acrolein	1.904	56	13880	61.19	ug/L		97
17) Allyl chloride	1.996	41	21397	16.76	ug/L		82
18) Methylene Chloride	2.042	49	21680	16.15	ug/L	#	70
19) Acetone	2.050	43	28777	81.70	ug/L		82
20) Methyl acetate	2.127	43	72309	78.19	ug/L		89
21) trans-1,2-Dichloroethene	2.135	61	21620	13.36	ug/L	#	75
22) Hexane	2.196	56	13204	11.94	ug/L	#	80
23) Methyl Tert Butyl Ether	2.196	73	41832	12.79	ug/L		69
24) Acetonitrile	2.273	41	19298	144.39	ug/L		97
25) Tert Butyl Alcohol	2.212	59	24332	140.76	ug/L		72
26) Di-isopropyl ether	2.389	45	45748	17.62	ug/L		84
27) Chloroprene	2.435	53	59883	14.65	ug/L		88
28) 1,1-Dichloroethane	2.442	63	27739	12.93	ug/L		99
29) Acrylonitrile	2.435	52	37186	76.76	ug/L		94
30) ETBE	2.581	59	44090	14.07	ug/L		91
31) Vinyl acetate	2.558	43	185708	101.66	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	16251	10.29	ug/L	#	75
33) 2,2-Dichloropropane	2.781	77	22047	13.04	ug/L		95
34) Bromochloromethane	2.820	128	8053	8.85	ug/L	#	64
35) Cyclohexane	2.858	56	27587	14.38	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	Chloroform	2.858	83	28459	11.58	ug/L		94
37)	Ethyl acetate	2.912	43	99386	93.75	ug/L		91
38)	Tetrahydrofuran	2.943	42	7300	17.40	ug/L		82
40)	Carbon Tetrachloride	2.958	117	22350m	9.91	ug/L		
41)	1,1,1-Trichloroethane	2.989	97	24449	10.98	ug/L		94
42)	2-Butanone	2.997	43	48090	84.40	ug/L		79
43)	1,1-Dichloropropene	3.050	75	20240	12.72	ug/L		77
44)	tert-Butyl formate	3.089	59	58432	63.30	ug/L		97
45)	Propionitrile	3.143	54	26816	123.73	ug/L		99
46)	Methacrylonitrile	3.166	41	105576	161.32	ug/L		94
47)	Benzene	3.181	78	57307	11.33	ug/L		89
48)	TAME	3.251	73	37843	12.50	ug/L		80
50)	1,2-Dichloroethane	3.274	62	21513	13.22	ug/L		95
51)	Isobutyl Alcohol	3.251	43	29402	319.92	ug/L		83
52)	Tert Amyl Alcohol	3.320	59	19740	143.57	ug/L		91
53)	Trichloroethene	3.505	95	16613	11.20	ug/L		83
54)	Methylcyclohexane	3.528	83	26473	11.25	ug/L		83
55)	Dibromomethane	3.728	93	10202	11.49	ug/L	#	71
56)	1,2-Dichloropropane	3.789	63	14853	13.23	ug/L		88
57)	Bromodichloromethane	3.828	83	20610	11.90	ug/L	#	96
58)	Methyl methacrylate	3.920	41	13286	16.73	ug/L	#	71
59)	1,4-Dioxane	3.936	88	3206	210.01	ug/L		86
60)	2-Chloroethyl vinyl ether	4.159	63	52300	73.71	ug/L		81
61)	cis-1,3-Dichloropropene	4.205	75	22915	12.46	ug/L		78
64)	Toluene	4.367	91	63392	12.16	ug/L		100
65)	2-Nitropropane	4.459	41	27955	102.36	ug/L		91
66)	4-Methyl-2-pentanone	4.582	43	97544	99.73	ug/L		87
67)	trans-1,3-Dichloropropene	4.613	75	20918	13.64	ug/L		80
68)	Tetrachloroethene	4.628	166	16329	8.63	ug/L		94
69)	Ethyl methacrylate	4.728	69	18215	13.94	ug/L	#	65
70)	1,1,2-Trichloroethane	4.713	83	11408	12.98	ug/L		88
71)	Dibromochloromethane	4.836	129	14782	10.06	ug/L		97
72)	1,3-Dichloropropane	4.890	76	21132	13.07	ug/L		77
73)	1,2-Dibromoethane	4.990	107	14403	11.24	ug/L		95
74)	3,3-Dimethyl-1-Butanol	5.121	57	122296	820.13	ug/L		95
75)	2-hexanone	5.136	43	98425	102.47	ug/L		74
76)	1-Chlorohexane	5.359	91	24070m	12.78	ug/L		
77)	Ethylbenzene	5.390	91	73002m	12.54	ug/L		
78)	Chlorobenzene	5.359	112	41259	10.97	ug/L		83
79)	1,1,1,2-Tetrachloroethane	5.406	131	13901	10.10	ug/L		97
80)	m,p-Xylene	5.498	91	119650	25.05	ug/L		94
81)	o-Xylene	5.798	91	62747	12.89	ug/L		92
82)	Styrene	5.829	104	45451	12.14	ug/L		90
83)	Bromoform	5.837	173	10475	8.82	ug/L		98
84)	Isopropylbenzene	6.037	105	73797	11.84	ug/L		96
87)	cis-1,4-Dichloro-2-butene	6.260	53	4680	12.44	ug/L	#	73
88)	n-Propylbenzene	6.345	91	91046	14.54	ug/L		89
89)	Bromobenzene	6.298	156	17327	10.40	ug/L	#	60
90)	1,1,2,2-Tetrachloroethane	6.368	83	20810	14.73	ug/L		95
91)	1,3,5-Trimethylbenzene	6.498	105	62139	13.12	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

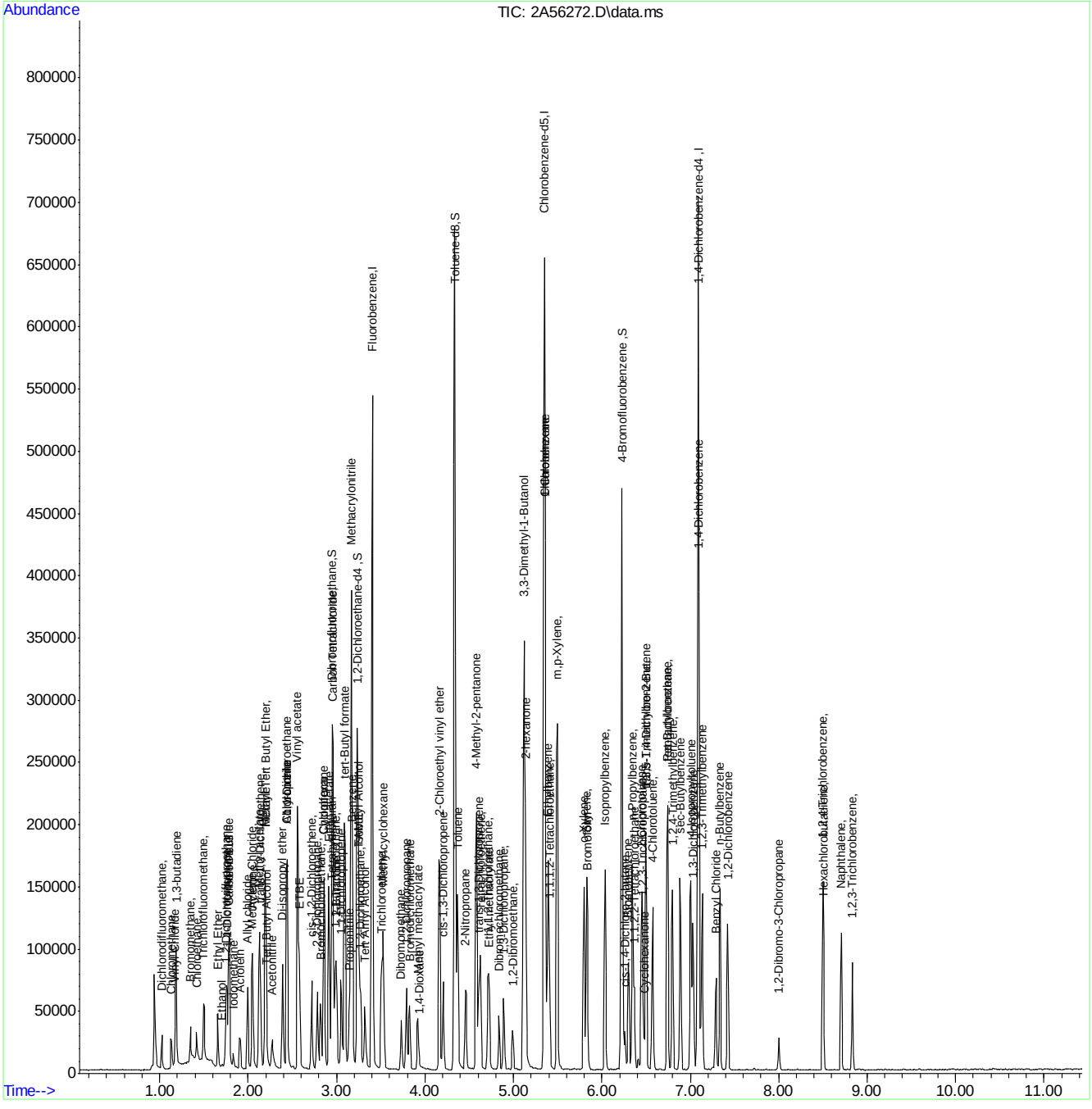
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	50382	13.87	ug/L		95
93)	trans-1,4-Dichloro-2-B...	6.498	53	6293	14.21	ug/L	#	66
94)	1,2,3-Trichloropropane	6.460	110	5545	11.86	ug/L	#	60
95)	Cyclohexanone	6.475	55	3411	88.03	ug/L	#	82
96)	4-Chlorotoluene	6.575	91	54787	14.19	ug/L		90
97)	tert-Butylbenzene	6.745	91	37923	14.78	ug/L		84
98)	1,2,4-Trimethylbenzene	6.799	105	58095	11.61	ug/L		98
99)	Pentachloroethane	6.745	167	9068	9.10	ug/L	#	43
100)	sec-Butylbenzene	6.883	105	79089	12.93	ug/L		92
101)	4-Isopropyltoluene	7.006	119	66778	12.71	ug/L		96
102)	1,3-Dichlorobenzene	7.029	146	34496	10.49	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	58957	12.77	ug/L		96
104)	1,4-Dichlorobenzene	7.099	146	34455	10.41	ug/L		85
105)	n-Butylbenzene	7.337	92	30653	12.98	ug/L		92
106)	Benzyl Chloride	7.291	126	7621	11.42	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	31482	10.80	ug/L		90
108)	1,2-Dibromo-3-Chloropr...	7.999	75	4274	15.06	ug/L	#	44
109)	Hexachlorobutadiene	8.507	225	8847	8.59	ug/L		93
110)	1,2,4-Trichlorobenzene	8.499	180	19186	9.92	ug/L		96
111)	Naphthalene	8.707	128	53220	12.49	ug/L		99
112)	1,2,3-Trichlorobenzene	8.830	180	17130	9.57	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

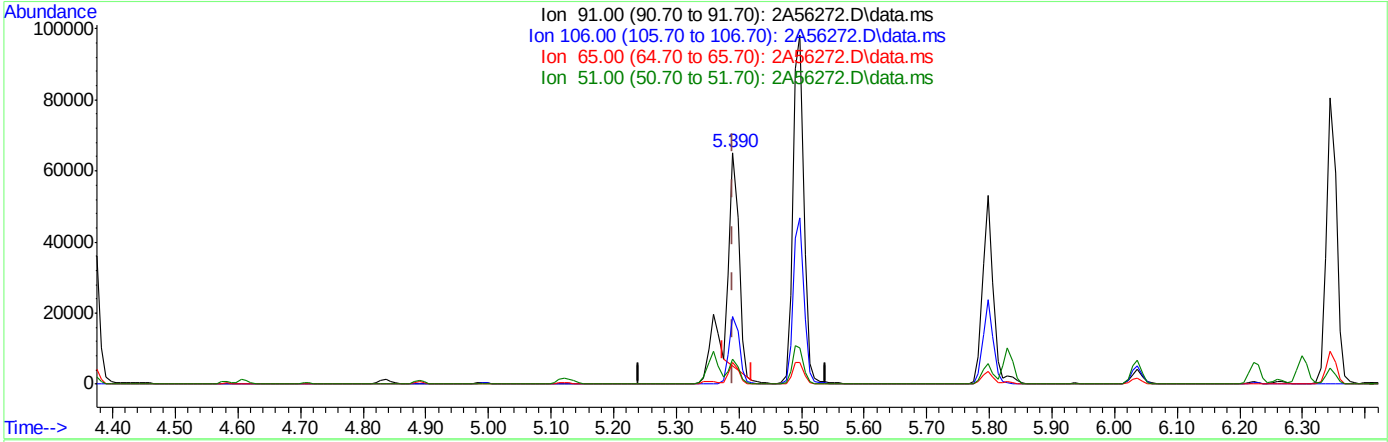
Sample Number: V2A1910-IC1910
Lab FileID: 2A56272.D
Injection Time: 06/25/24 09:43
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

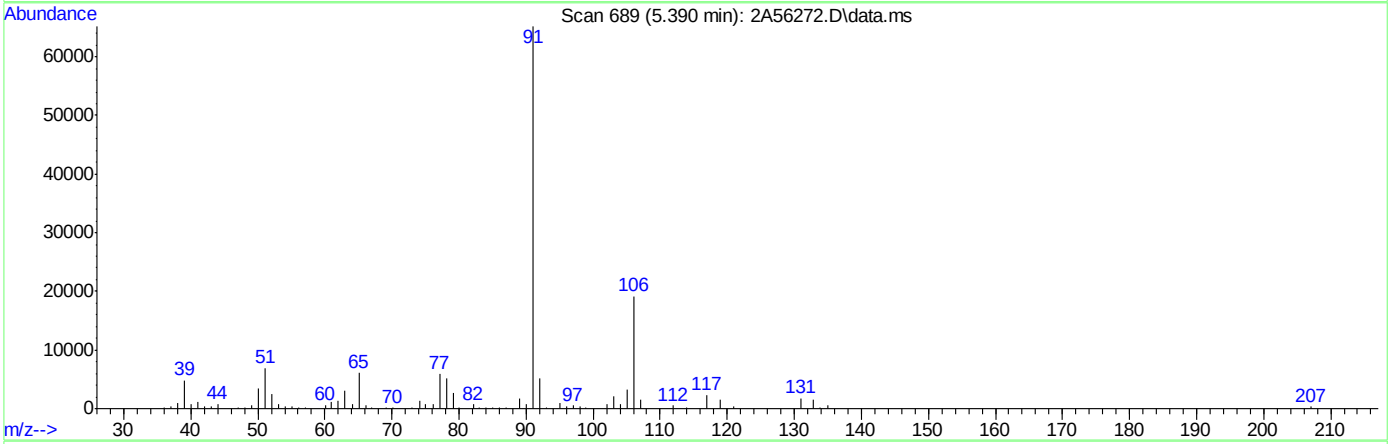
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.70	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 10.65ug/L

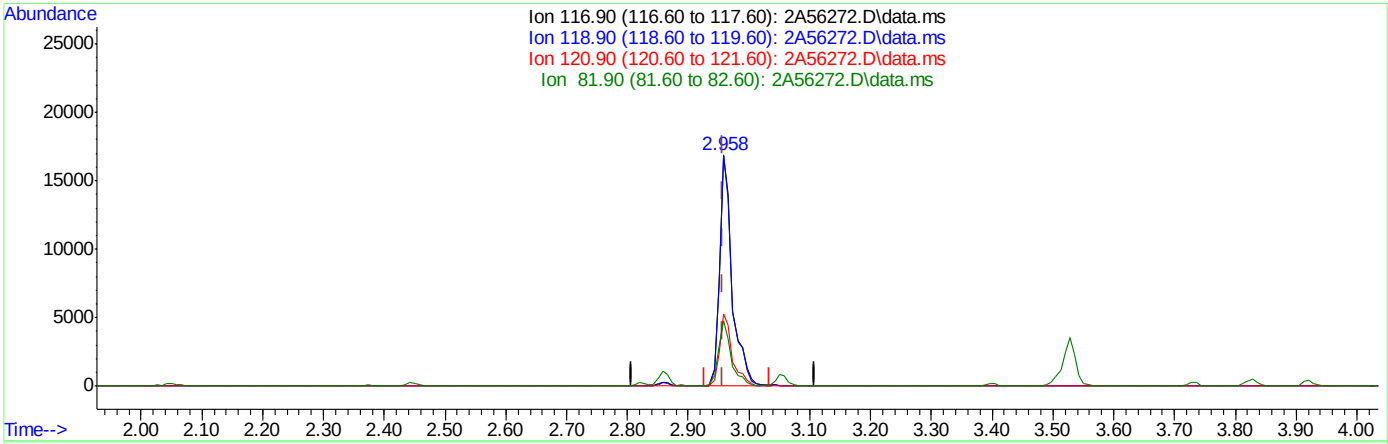
response 61959

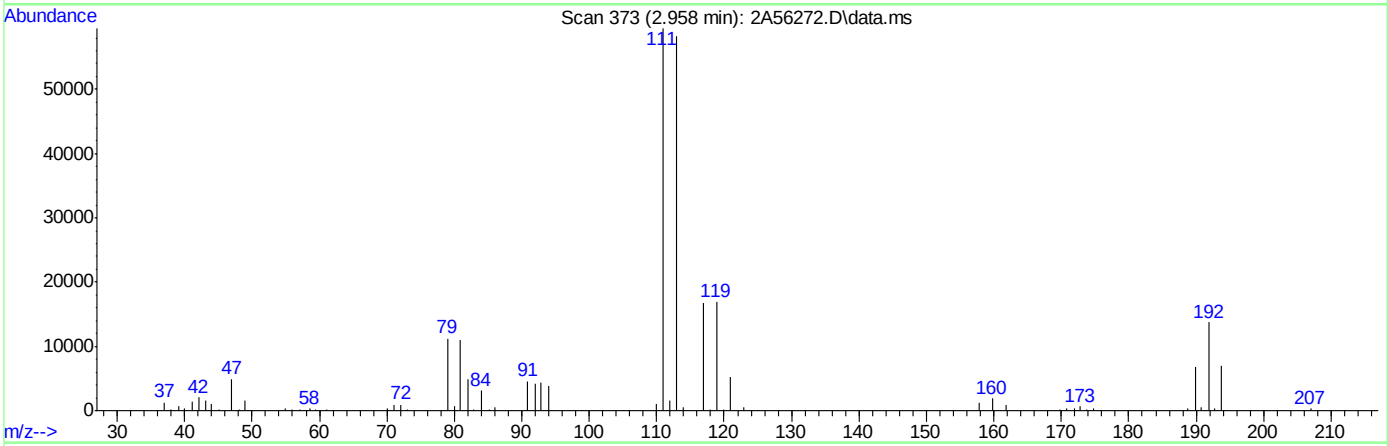
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.36
65.00	7.10	9.25
51.00	7.10	10.55

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 10.93ug/L

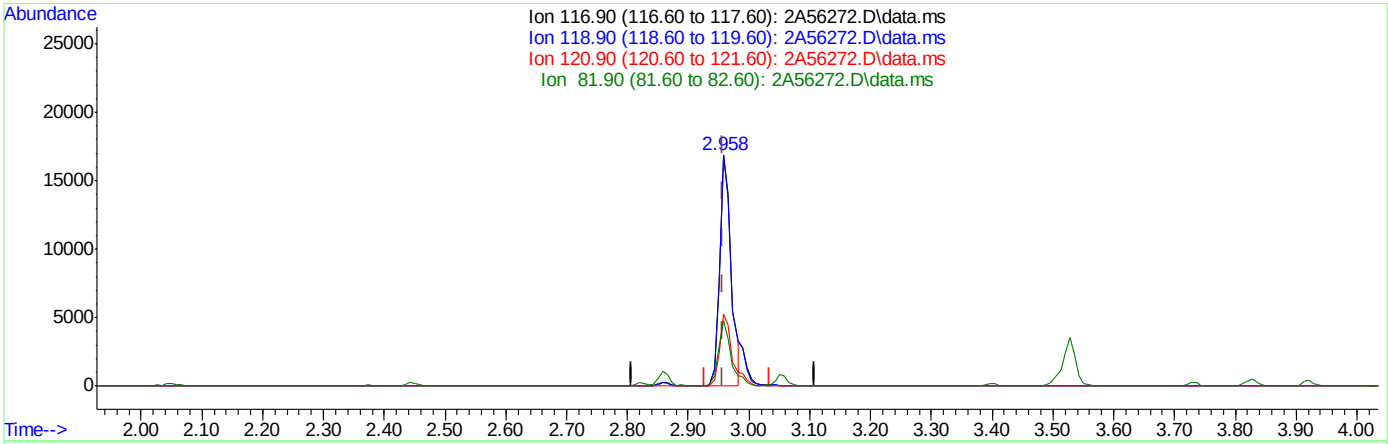
response 24649

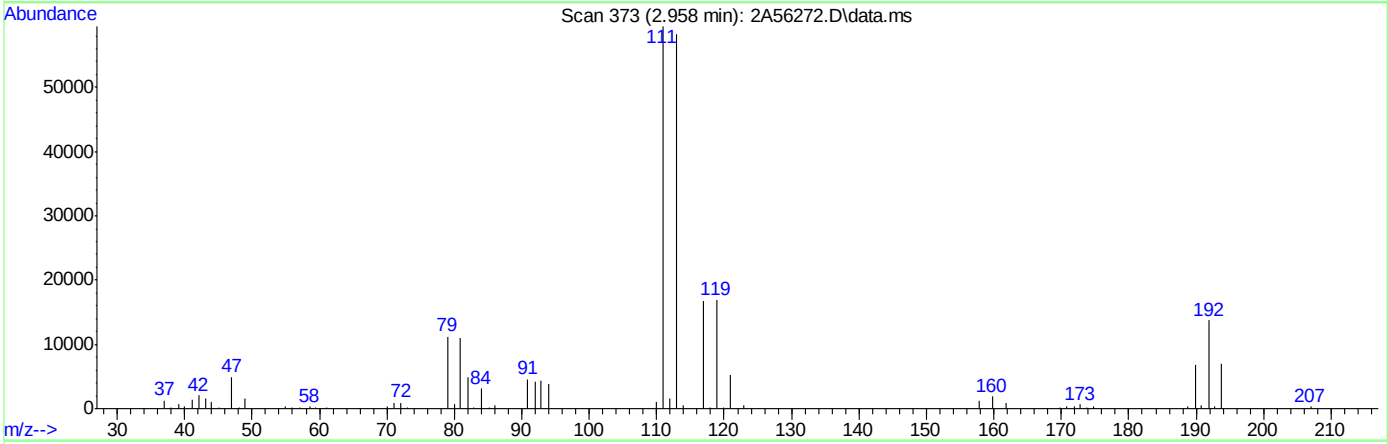
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	100.57
120.90	31.00	31.52
81.90	19.00	28.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 9.91ug/L m

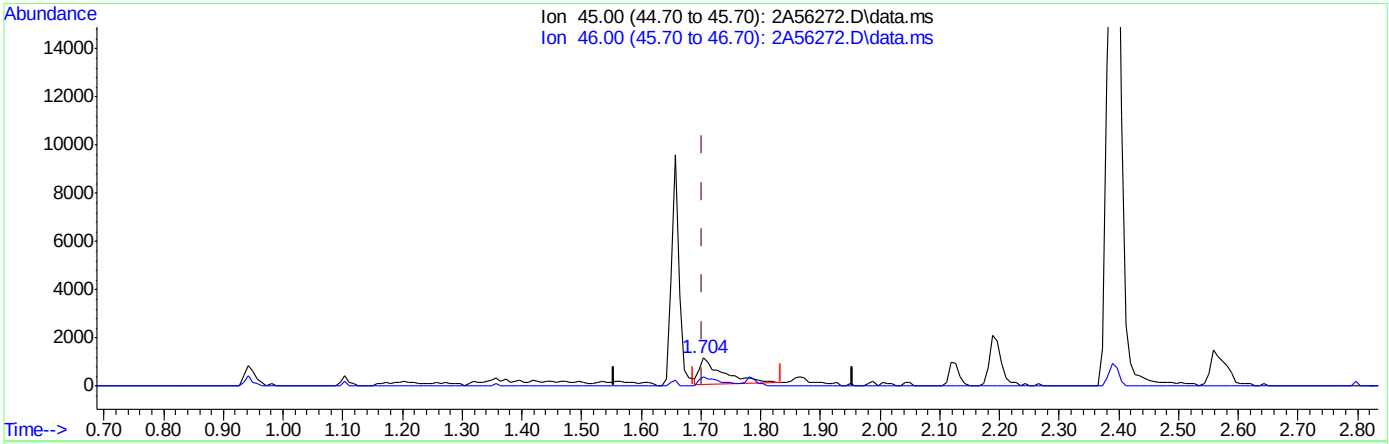
response 22350

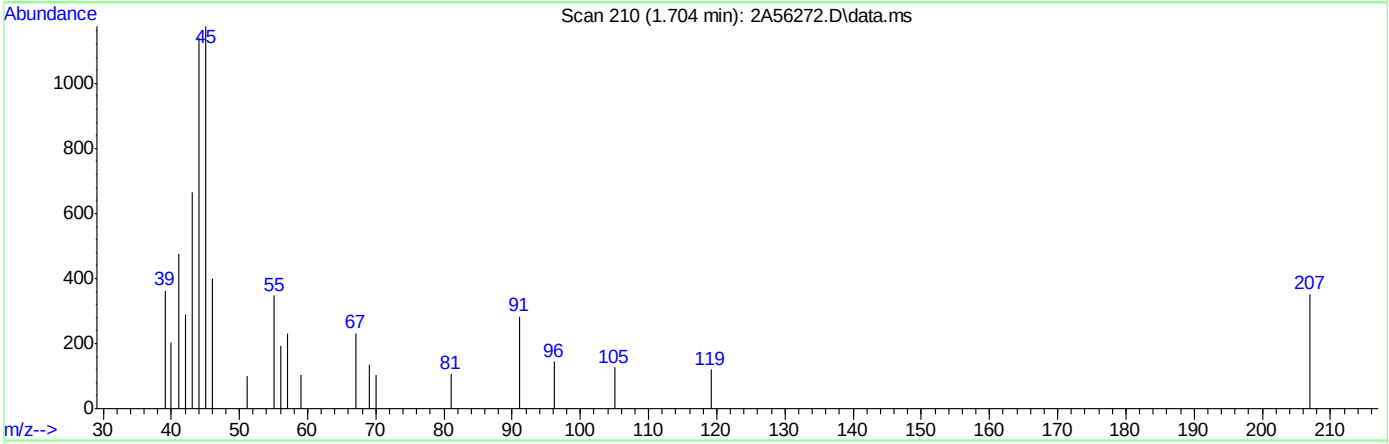
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	100.57
120.90	31.00	31.52
81.90	19.00	28.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(10) Ethanol

1.704min (-0.000) 282.22ug/L

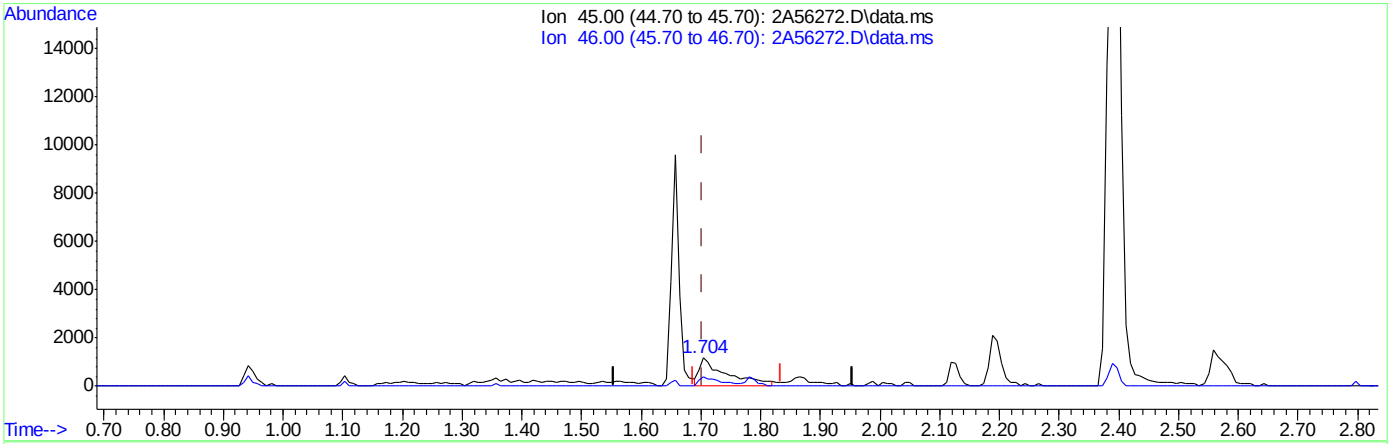
response 3076

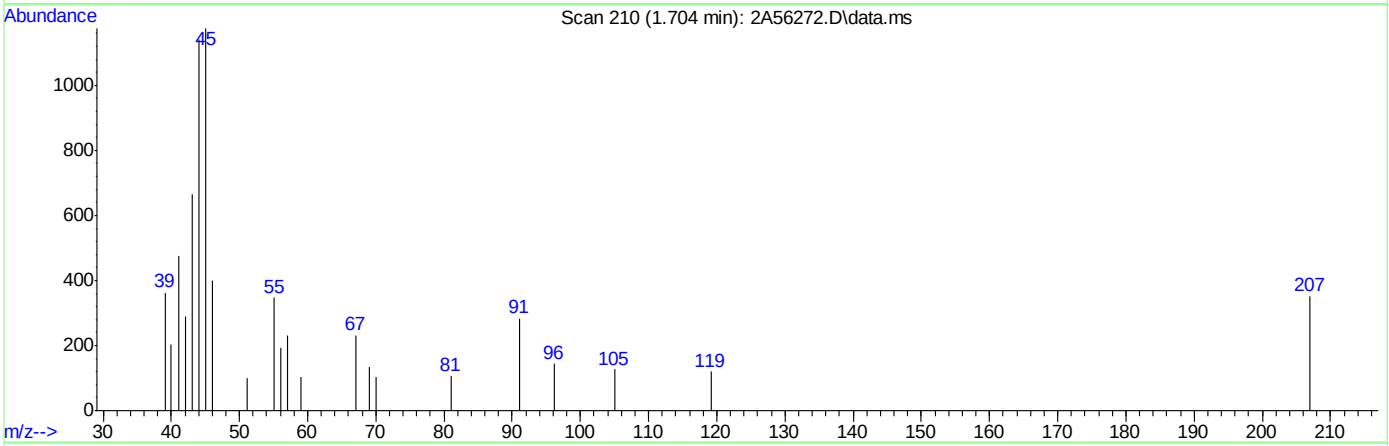
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	39.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(10) Ethanol

1.704min (-0.000) 352.05ug/L m

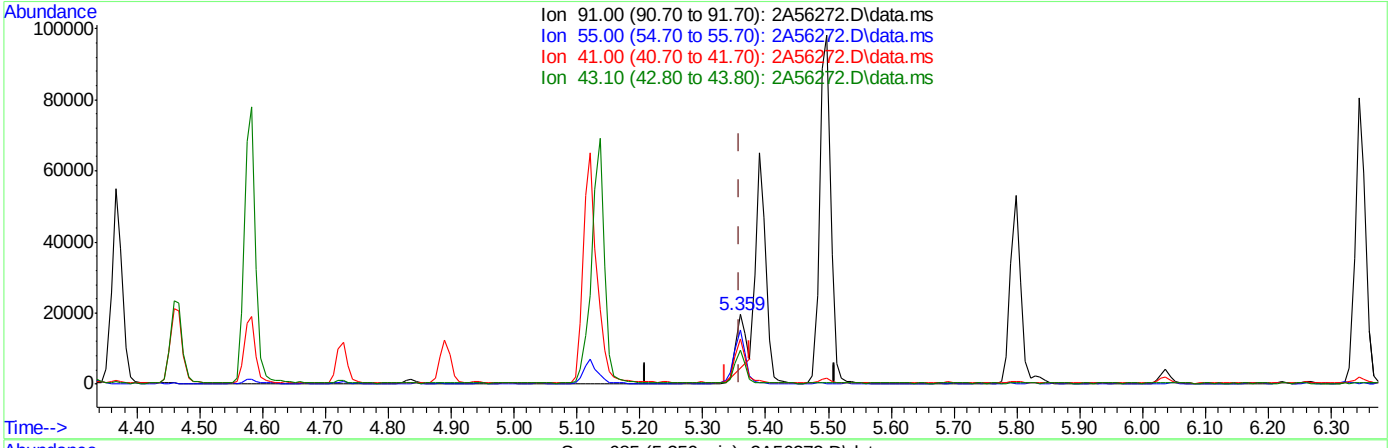
response 3837

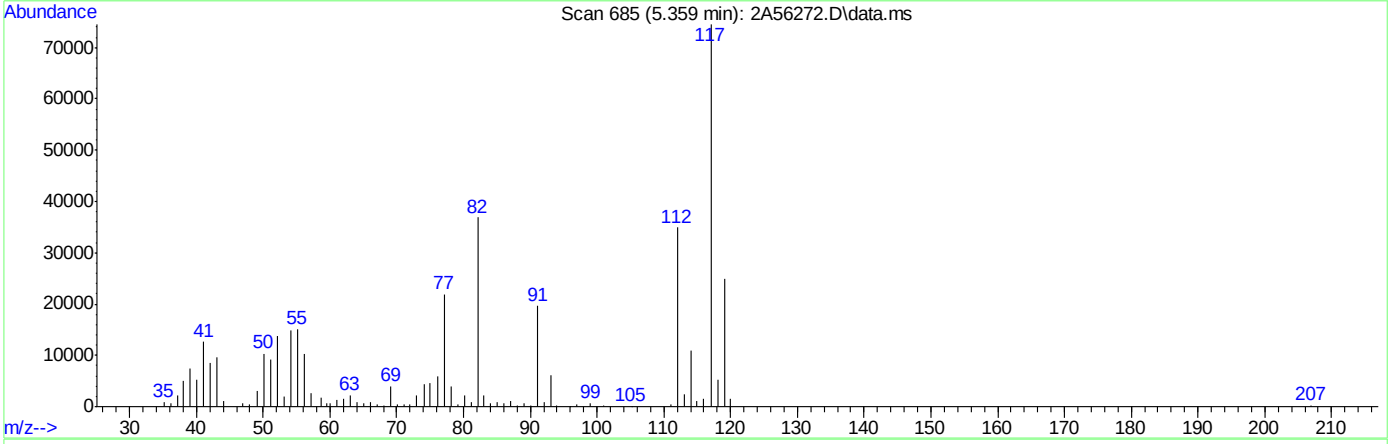
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	34.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 8.36ug/L

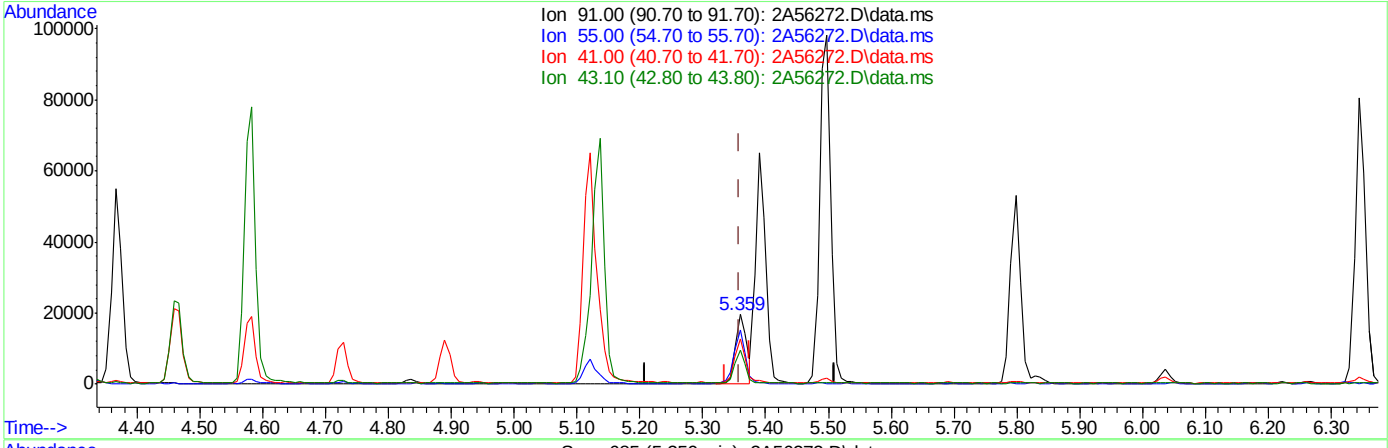
response 15740

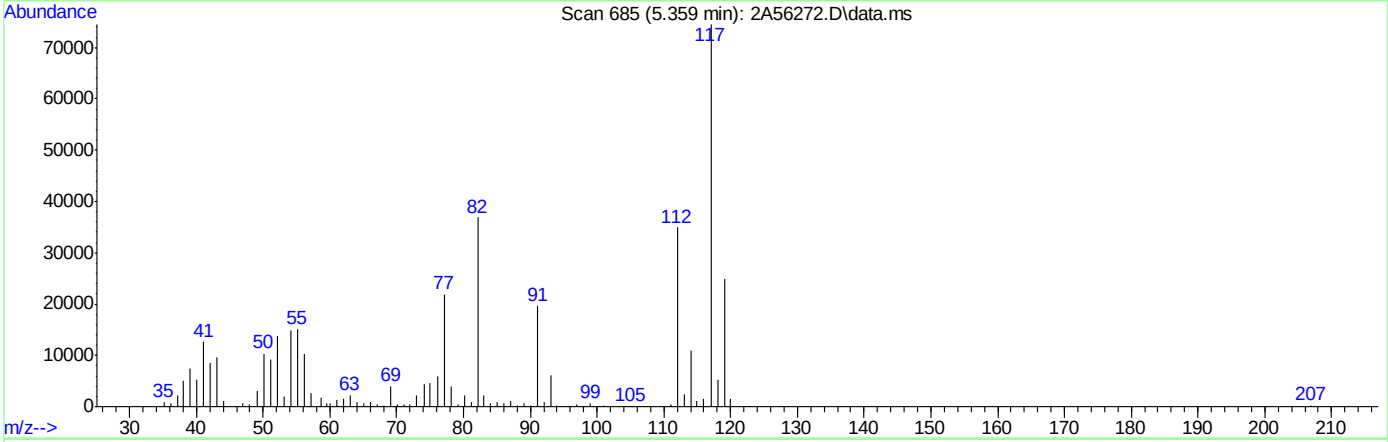
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.35
41.00	39.20	62.03#
43.10	33.20	46.76

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 12.78ug/L m

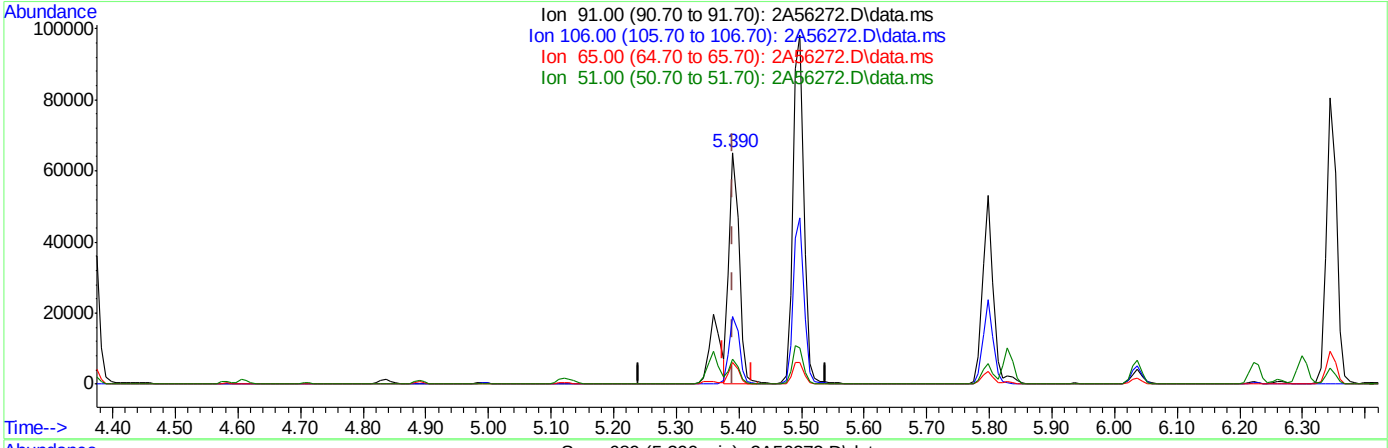
response 24070

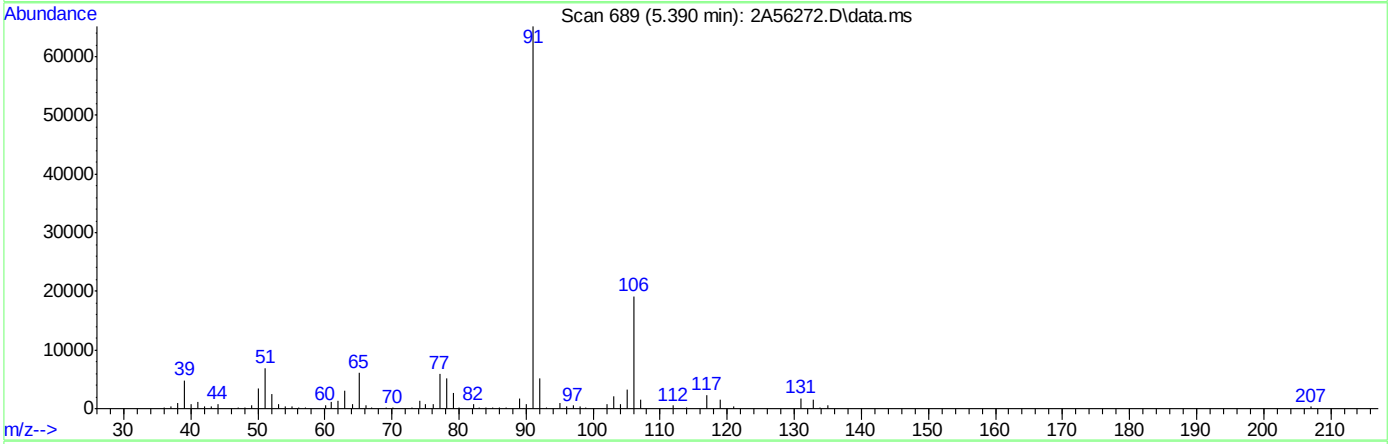
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.16
41.00	39.20	64.61#
43.10	33.20	48.63

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 12.54ug/L m

response 73002

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.45
65.00	7.10	9.29
51.00	7.10	10.69

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	294559	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.351	117	213174	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	128717	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	83854	47.88	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.76%				
49) 1,2-Dichloroethane-d4	3.235	65	102855	63.34	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 126.68%#				
63) Toluene-d8	4.336	98	295258	55.32	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.64%				
86) 4-Bromofluorobenzene	6.229	174	101348	49.37	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.018	85	35457	23.56	ug/L		95
3) Chloromethane	1.126	50	39105	29.05	ug/L		99
4) 1,3-butadiene	1.180	39	49437	66.79	ug/L	#	73
5) Vinyl Chloride	1.172	62	39054	35.77	ug/L		98
6) Bromomethane	1.342	94	17218	38.08	ug/L		98
7) Chloroethane	1.411	64	22039	43.41	ug/L		96
8) Trichlorofluoromethane	1.496	101	55563	29.11	ug/L		98
9) Ethyl Ether	1.657	59	28751	33.66	ug/L		93
10) Ethanol	1.703	45	7969	721.77	ug/L		79
11) 1,2-Dichlorotrifluoroe...	1.742	67	29653	32.65	ug/L		87
12) 1,1-Dichloroethene	1.757	61	55024	33.08	ug/L		86
13) Freon 113	1.788	101	34707	24.59	ug/L		91
14) Carbon Disulfide	1.780	76	104611	27.77	ug/L		81
15) Iodomethane	1.834	142	26195	25.89	ug/L		91
16) Acrolein	1.904	56	36021	156.75	ug/L		97
17) Allyl chloride	1.996	41	54572	42.19	ug/L		82
18) Methylene Chloride	2.042	49	50236	36.94	ug/L	#	71
19) Acetone	2.050	43	76155	213.44	ug/L		83
20) Methyl acetate	2.119	43	181530	193.78	ug/L		86
21) trans-1,2-Dichloroethene	2.134	61	53192	32.45	ug/L		77
22) Hexane	2.196	56	34197	30.52	ug/L	#	81
23) Methyl Tert Butyl Ether	2.188	73	101676	30.70	ug/L		88
24) Acetonitrile	2.273	41	50270	389.01	ug/L		95
25) Tert Butyl Alcohol	2.204	59	57232	326.83	ug/L	#	1
26) Di-isopropyl ether	2.388	45	110997	42.20	ug/L		86
27) Chloroprene	2.435	53	152807	36.90	ug/L		90
28) 1,1-Dichloroethane	2.442	63	67090	30.88	ug/L		99
29) Acrylonitrile	2.435	52	92012	187.48	ug/L		96
30) ETBE	2.581	59	108105	34.06	ug/L		91
31) Vinyl acetate	2.558	43	462960	250.17	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	39155	24.47	ug/L	#	80
33) 2,2-Dichloropropane	2.781	77	53098	31.00	ug/L		95
34) Bromochloromethane	2.819	128	19454	21.10	ug/L	#	65
35) Cyclohexane	2.858	56	67042	34.49	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	68171	27.38	ug/L		95
37) Ethyl acetate	2.912	43	247941	230.88	ug/L		91
38) Tetrahydrofuran	2.943	42	16140	37.98	ug/L		82
40) Carbon Tetrachloride	2.958	117	51225m	22.42	ug/L		
41) 1,1,1-Trichloroethane	2.981	97	58874	26.10	ug/L		91
42) 2-Butanone	2.996	43	125192	216.91	ug/L		81
43) 1,1-Dichloropropene	3.050	75	48976	30.39	ug/L		78
44) tert-Butyl formate	3.089	59	152527	163.11	ug/L		98
45) Propionitrile	3.143	54	69996	318.81	ug/L		97
46) Methacrylonitrile	3.166	41	282661	426.36	ug/L		94
47) Benzene	3.181	78	138439	27.03	ug/L		92
48) TAME	3.250	73	92746	30.25	ug/L	#	73
50) 1,2-Dichloroethane	3.273	62	52740	31.99	ug/L		97
51) Isobutyl Alcohol	3.250	43	74370	798.82	ug/L		87
52) Tert Amyl Alcohol	3.320	59	47419	340.44	ug/L		90
53) Trichloroethene	3.504	95	39864	26.53	ug/L		85
54) Methylcyclohexane	3.527	83	63772	26.74	ug/L		84
55) Dibromomethane	3.728	93	25138	27.95	ug/L	#	73
56) 1,2-Dichloropropane	3.789	63	36843	32.40	ug/L		90
57) Bromodichloromethane	3.828	83	51454	29.32	ug/L	#	95
58) Methyl methacrylate	3.912	41	36957	45.95	ug/L	#	65
59) 1,4-Dioxane	3.935	88	6912	446.97	ug/L		83
60) 2-Chloroethyl vinyl ether	4.159	63	129527	180.21	ug/L		80
61) cis-1,3-Dichloropropene	4.205	75	57444	30.82	ug/L		80
64) Toluene	4.366	91	150640	29.00	ug/L		99
65) 2-Nitropropane	4.459	41	72036	248.32	ug/L		88
66) 4-Methyl-2-pentanone	4.582	43	244436	250.75	ug/L		88
67) trans-1,3-Dichloropropene	4.613	75	52712	34.48	ug/L		82
68) Tetrachloroethene	4.628	166	40335	21.40	ug/L		95
69) Ethyl methacrylate	4.728	69	49374	37.91	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	29053	33.16	ug/L		87
71) Dibromochloromethane	4.836	129	37187	25.40	ug/L		99
72) 1,3-Dichloropropane	4.890	76	52682	32.69	ug/L		76
73) 1,2-Dibromoethane	4.990	107	35799	28.03	ug/L		94
74) 3,3-Dimethyl-1-Butanol	5.121	57	290561	1955.10	ug/L		94
75) 2-hexanone	5.136	43	237555	248.16	ug/L	#	72
76) 1-Chlorohexane	5.359	91	57569m	30.66	ug/L		
77) Ethylbenzene	5.390	91	173281m	29.87	ug/L		
78) Chlorobenzene	5.359	112	98683	26.32	ug/L		85
79) 1,1,1,2-Tetrachloroethane	5.405	131	34277	24.99	ug/L		98
80) m,p-Xylene	5.498	91	286805	60.26	ug/L		94
81) o-Xylene	5.798	91	150086	30.93	ug/L		92
82) Styrene	5.829	104	111062	29.77	ug/L		90
83) Bromoform	5.836	173	26495	22.40	ug/L		98
84) Isopropylbenzene	6.036	105	175924	28.31	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	13113	34.99	ug/L	#	77
88) n-Propylbenzene	6.344	91	219858	35.25	ug/L		88
89) Bromobenzene	6.298	156	42054	25.34	ug/L	#	62
90) 1,1,2,2-Tetrachloroethane	6.367	83	49805	35.40	ug/L		99
91) 1,3,5-Trimethylbenzene	6.498	105	149015	31.60	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

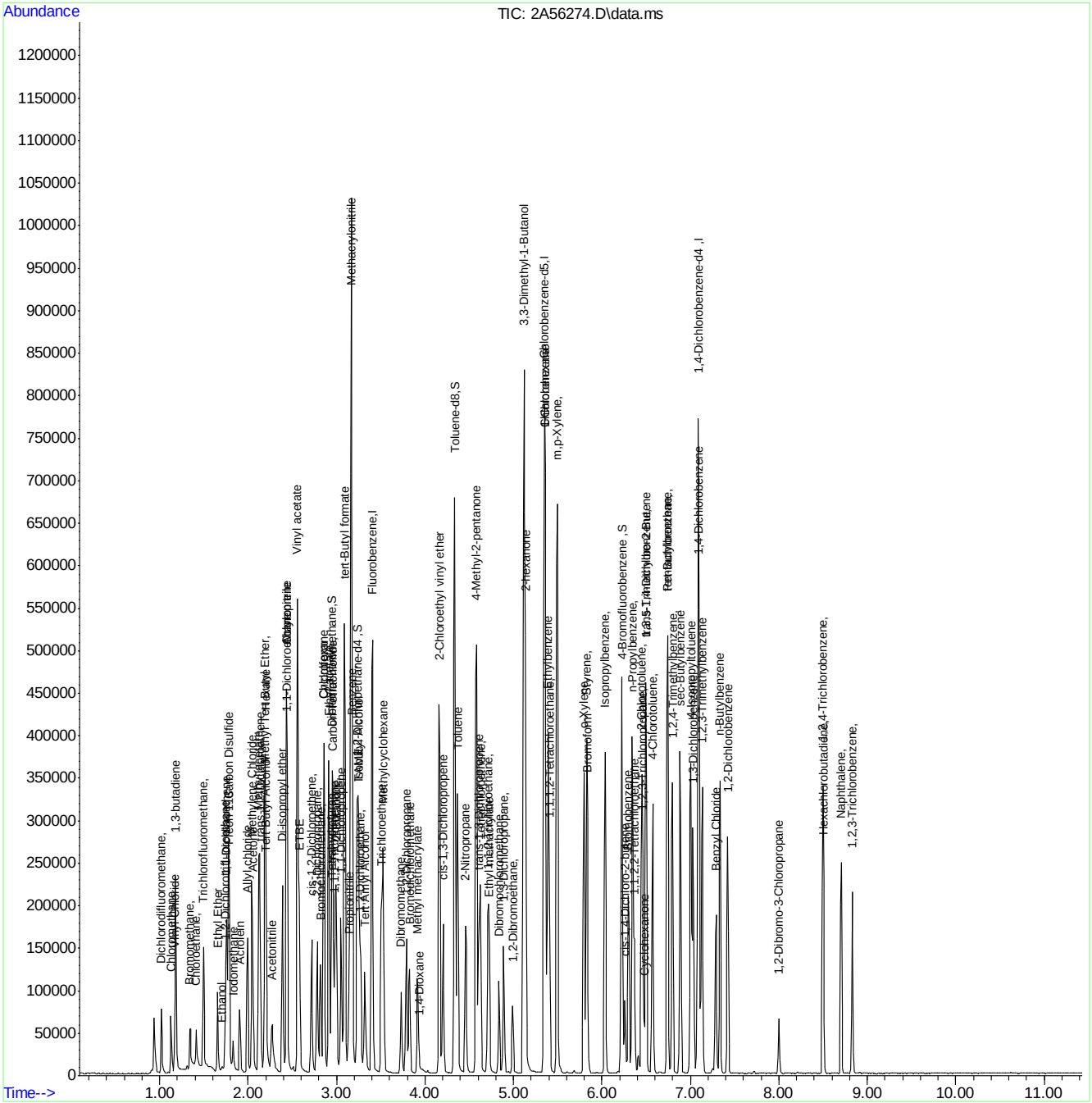
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	121223	33.51	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.498	53	16396	37.18	ug/L	#	65
94)	1,2,3-Trichloropropane	6.460	110	13913	29.88	ug/L	#	64
95)	Cyclohexanone	6.475	55	7717	199.96	ug/L	#	80
96)	4-Chlorotoluene	6.575	91	129751	33.74	ug/L		90
97)	tert-Butylbenzene	6.745	91	88853	34.78	ug/L		87
98)	1,2,4-Trimethylbenzene	6.798	105	139889	28.07	ug/L		97
99)	Pentachloroethane	6.745	167	24199	24.39	ug/L	#	63
100)	sec-Butylbenzene	6.883	105	189649	31.13	ug/L		92
101)	4-Isopropyltoluene	7.006	119	160168	30.61	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	82106	25.08	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	141524	30.77	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	82729	25.11	ug/L		89
105)	n-Butylbenzene	7.337	92	73347	31.18	ug/L		94
106)	Benzyl Chloride	7.291	126	19778	29.76	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	74519	25.68	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	10941	38.70	ug/L	#	42
109)	Hexachlorobutadiene	8.507	225	20078	19.56	ug/L		94
110)	1,2,4-Trichlorobenzene	8.499	180	45455	23.60	ug/L		97
111)	Naphthalene	8.707	128	126414	29.79	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	40121	22.51	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

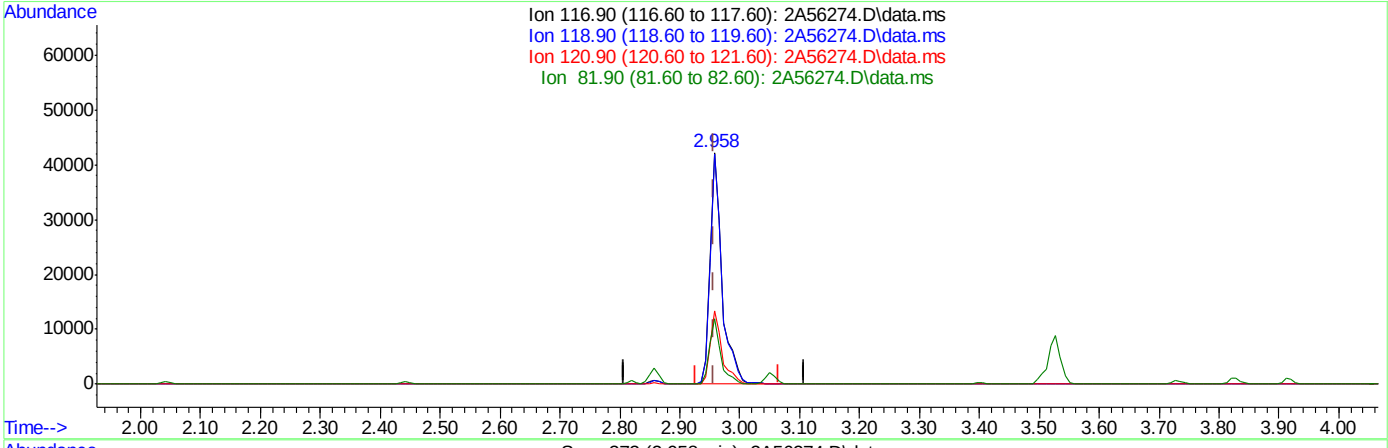
Sample Number: V2A1910-IC1910
Lab FileID: 2A56274.D
Injection Time: 06/25/24 10:15
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

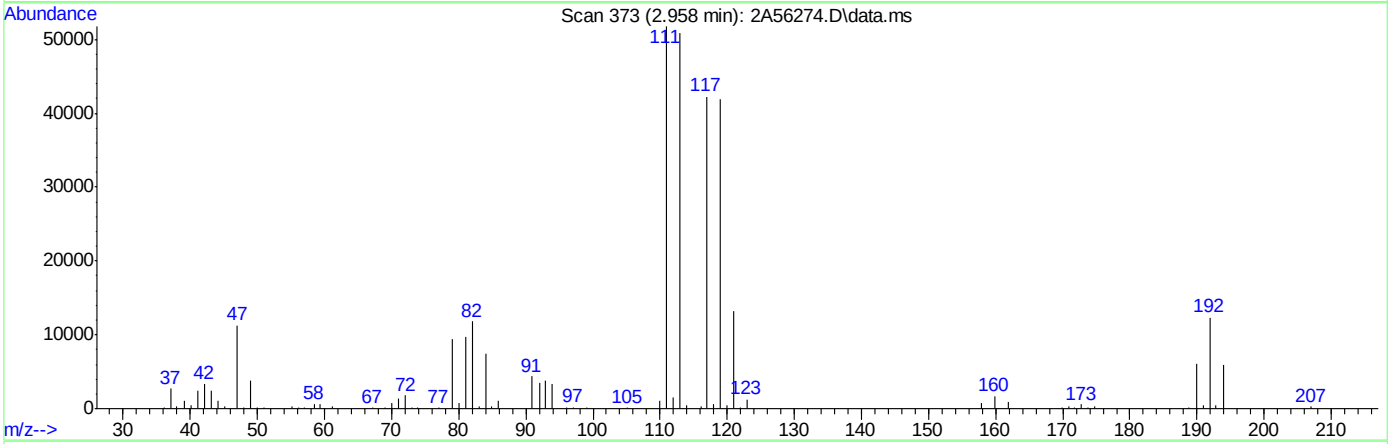
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 26.05ug/L

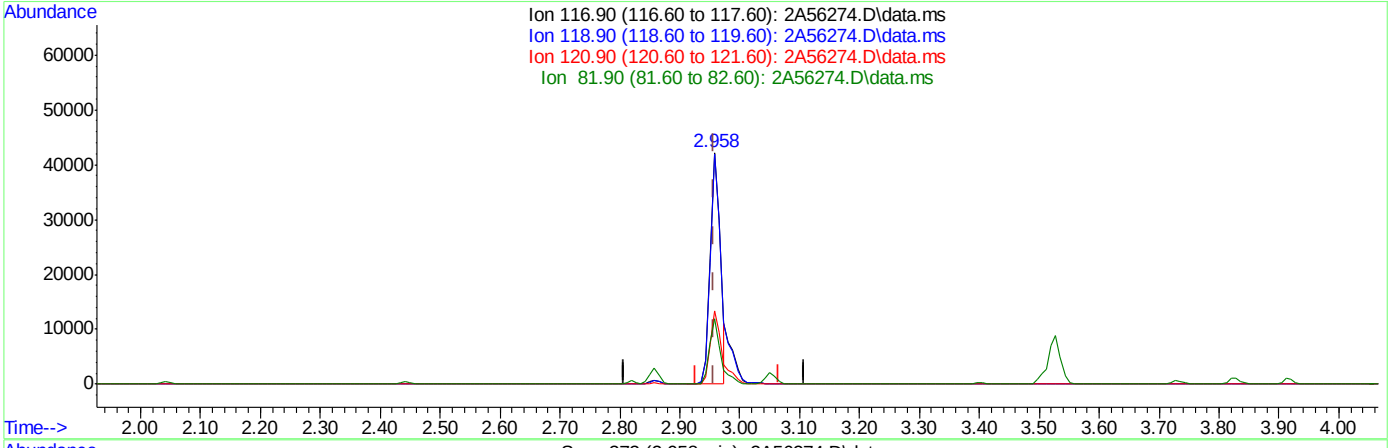
response 59504

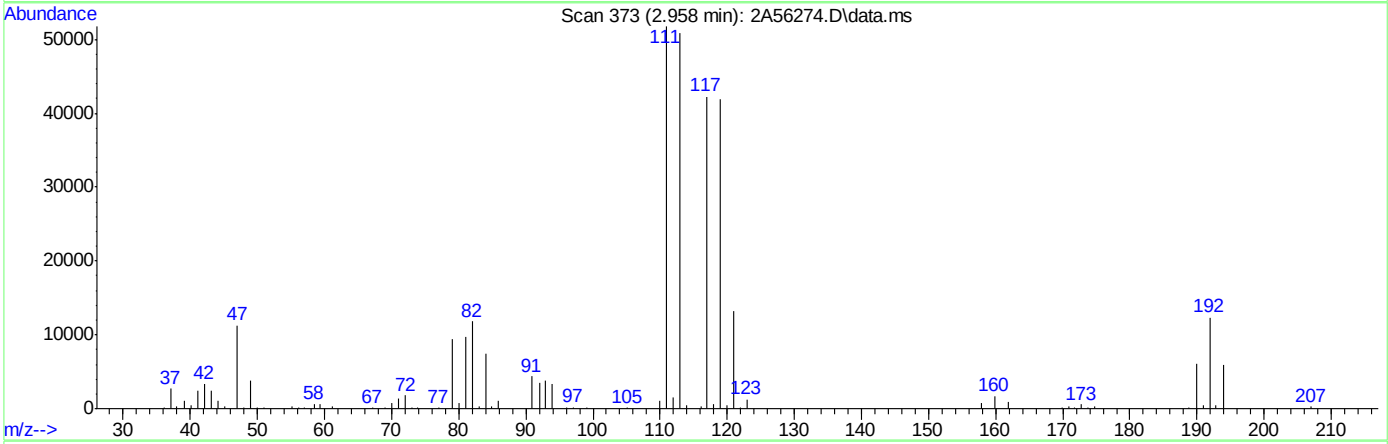
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	99.36
120.90	31.00	31.44
81.90	19.00	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 22.42ug/L m

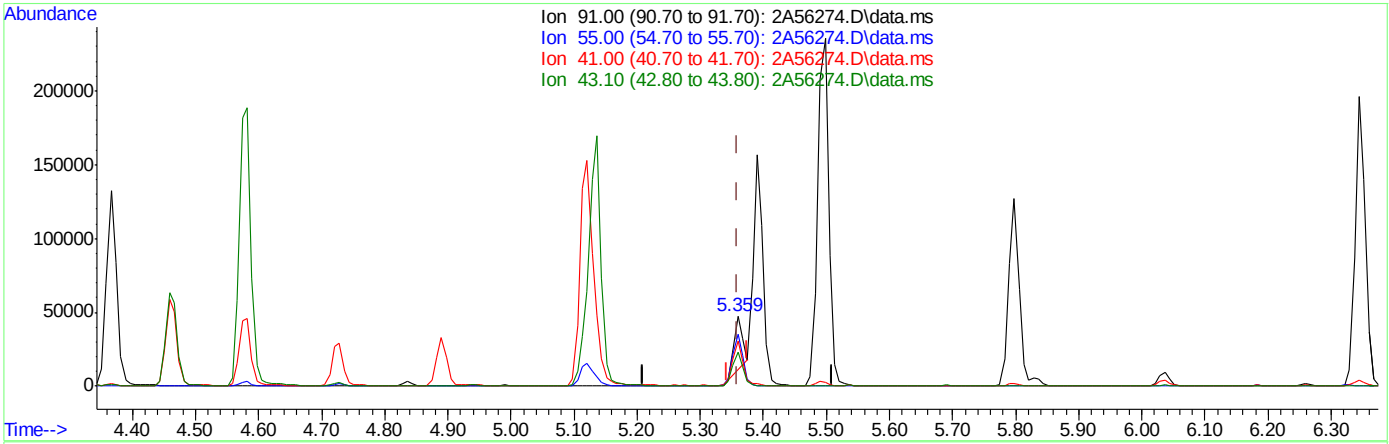
response 51225

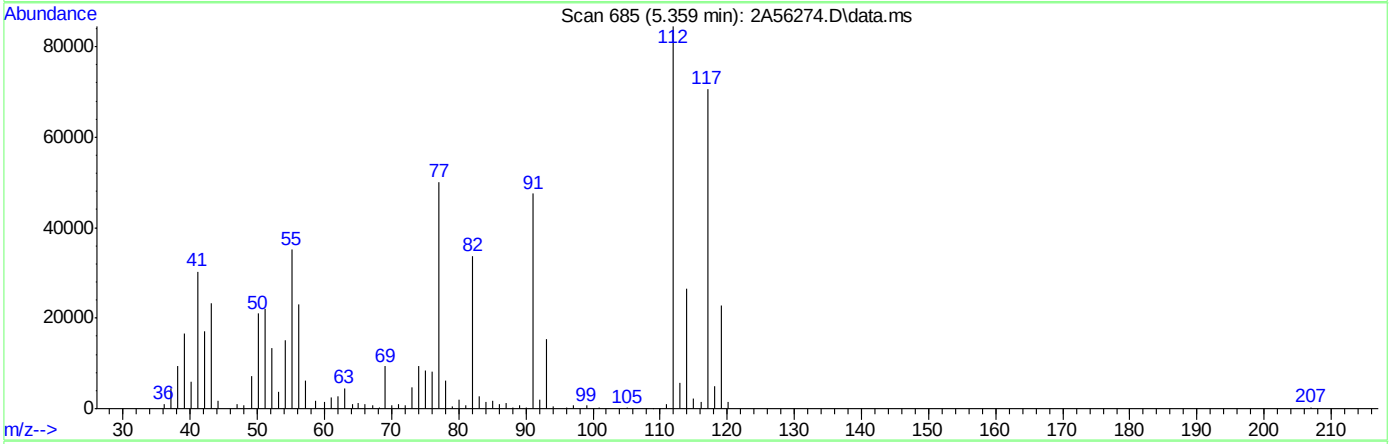
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	99.36
120.90	31.00	31.44
81.90	19.00	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 19.82ug/L

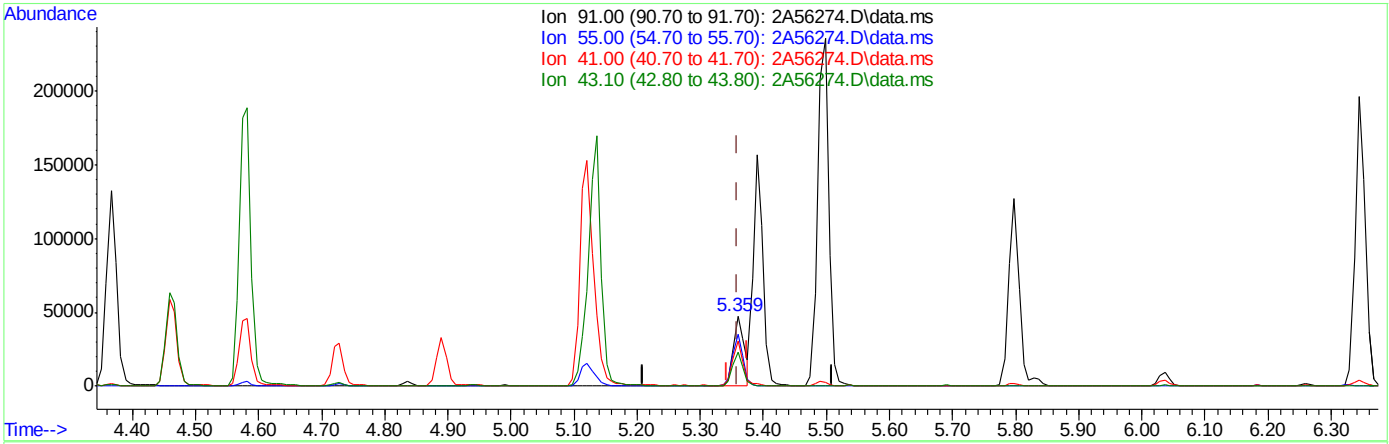
response 37206

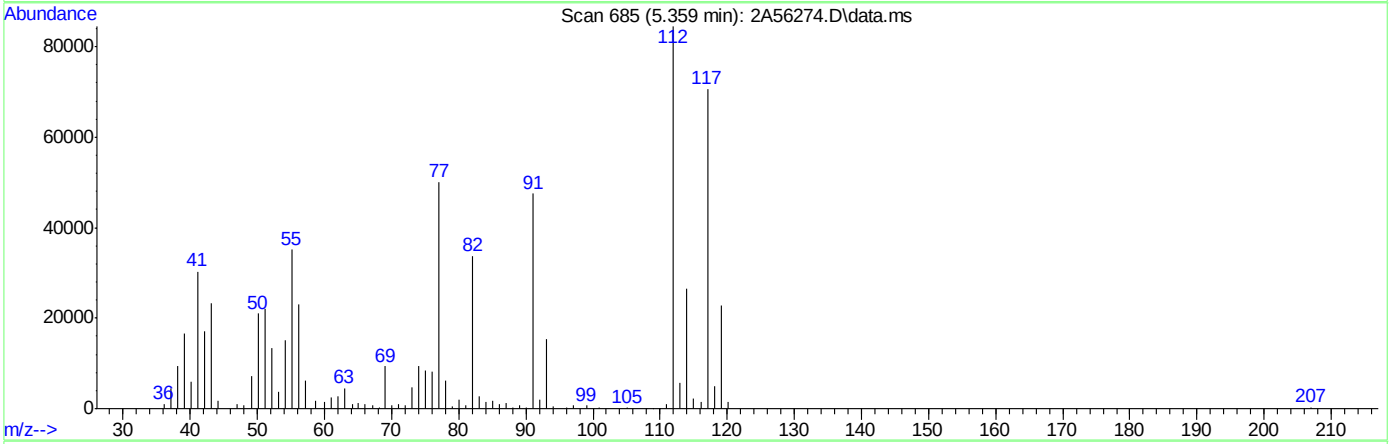
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	69.89
41.00	39.20	60.51#
43.10	33.20	46.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 30.66ug/L m

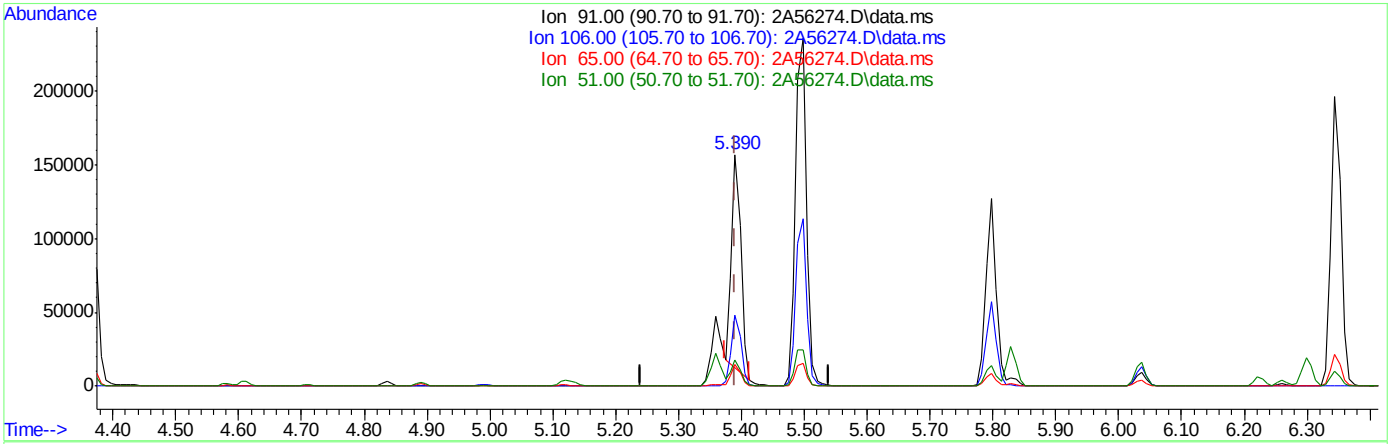
response 57569

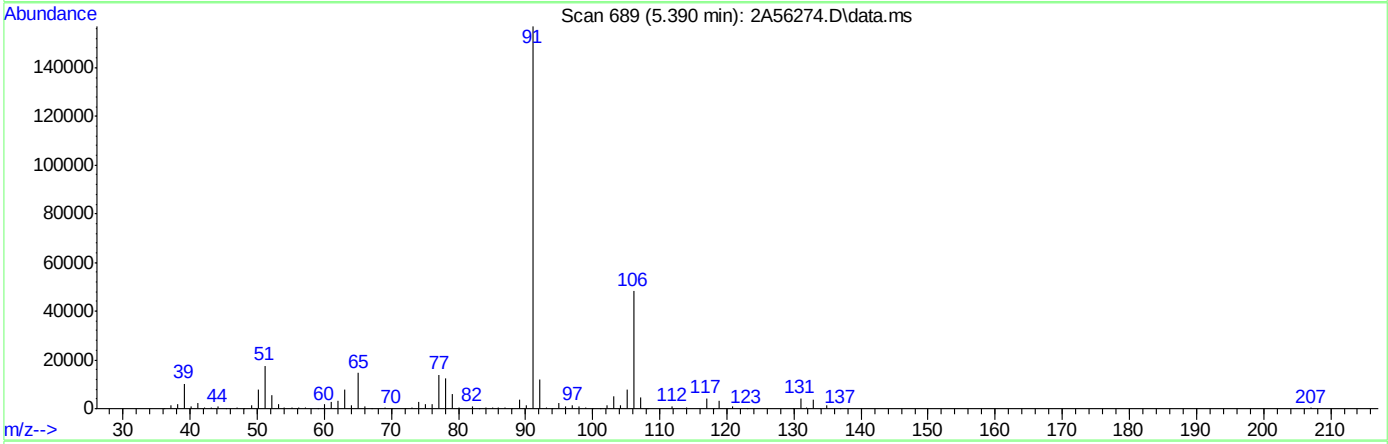
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.84
41.00	39.20	63.75#
43.10	33.20	49.24

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(77) Ethylbenzene

5.390min (-0.000) 25.14ug/L

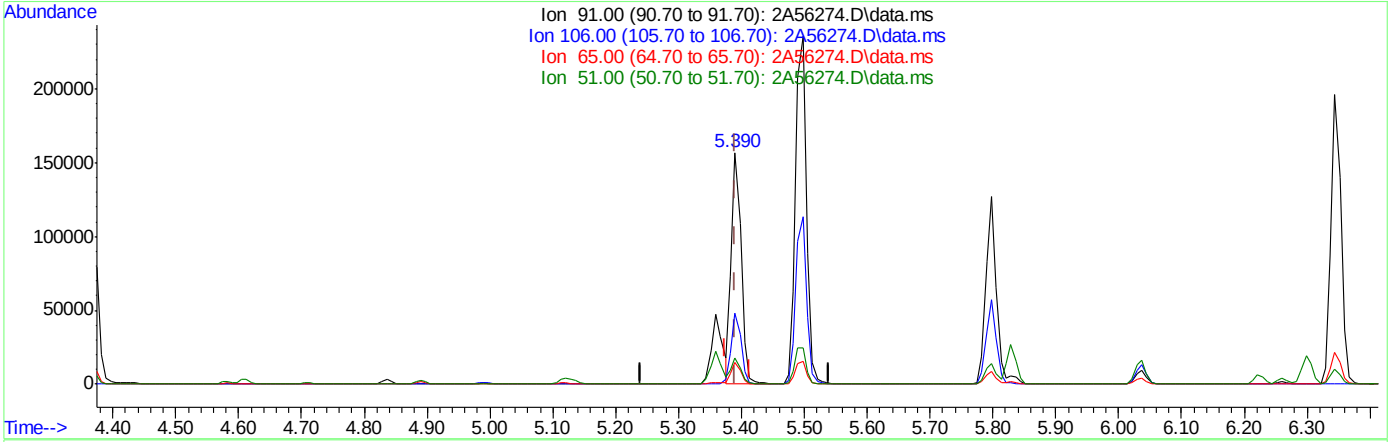
response 145837

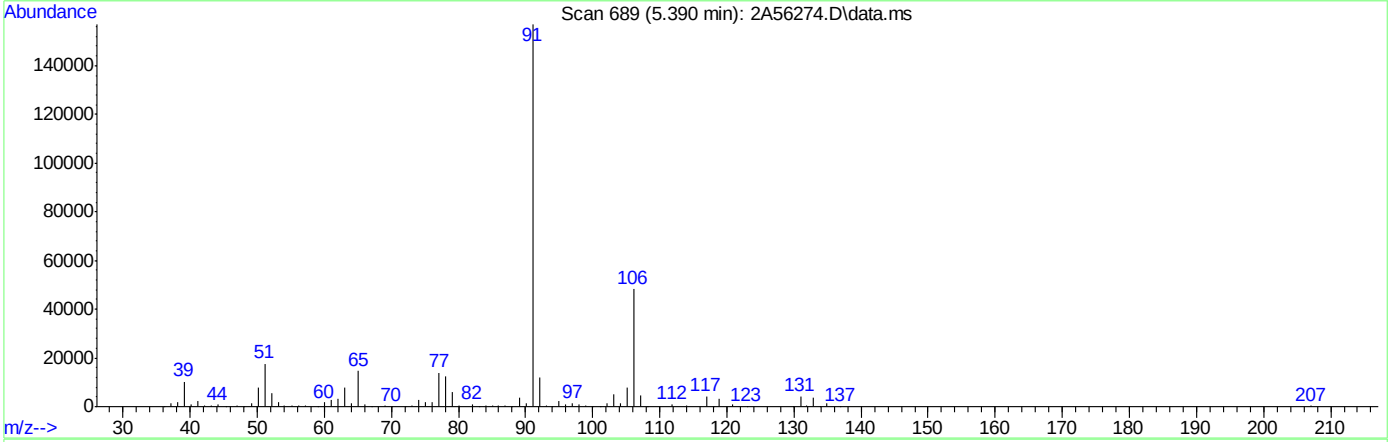
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.68
65.00	7.10	9.27
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(77) Ethylbenzene

5.390min (-0.000) 29.87ug/L m

response 173281

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.71
65.00	7.10	9.35
51.00	7.10	11.24

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	300895	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	219742	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	130499	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	85159	47.60	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.20%				
49) 1,2-Dichloroethane-d4	3.235	65	106406	64.15	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 128.30%#				
63) Toluene-d8	4.336	98	295754	53.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.52%				
86) 4-Bromofluorobenzene	6.229	174	103161	49.57	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	59849	38.93	ug/L		98
3) Chloromethane	1.134	50	65175	47.40	ug/L		97
4) 1,3-butadiene	1.188	39	75075	99.29	ug/L	#	73
5) Vinyl Chloride	1.180	62	65511	58.74	ug/L		98
6) Bromomethane	1.349	94	28241	61.14	ug/L		97
7) Chloroethane	1.419	64	35008	84.21	ug/L		95
8) Trichlorofluoromethane	1.503	101	91079	46.71	ug/L		100
9) Ethyl Ether	1.657	59	47991	55.01	ug/L		86
10) Ethanol	1.711	45	14467	1282.71	ug/L		89
11) 1,2-Dichlorotrifluoroe...	1.750	67	48929	52.74	ug/L		92
12) 1,1-Dichloroethene	1.765	61	90786	53.44	ug/L		86
13) Freon 113	1.788	101	57354	39.78	ug/L	#	85
14) Carbon Disulfide	1.788	76	174705	45.41	ug/L		84
15) Iodomethane	1.834	142	50228	43.84	ug/L		90
16) Acrolein	1.911	56	58825	250.60	ug/L		97
17) Allyl chloride	1.996	41	91373	69.15	ug/L		80
18) Methylene Chloride	2.050	49	80927	58.26	ug/L	#	75
19) Acetone	2.050	43	123125	337.82	ug/L		81
20) Methyl acetate	2.127	43	300428	313.94	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	86143	51.45	ug/L		81
22) Hexane	2.196	56	57626	50.34	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	173729	51.35	ug/L		87
24) Acetonitrile	2.273	41	79739	634.45	ug/L		96
25) Tert Butyl Alcohol	2.211	59	97649	545.90	ug/L	#	40
26) Di-isopropyl ether	2.396	45	188041	69.98	ug/L		87
27) Chloroprene	2.442	53	250411	59.20	ug/L		91
28) 1,1-Dichloroethane	2.442	63	111929	50.44	ug/L		96
29) Acrylonitrile	2.442	52	152753	304.70	ug/L		98
30) ETBE	2.581	59	187565	57.85	ug/L		90
31) Vinyl acetate	2.566	43	777900	411.51	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	64684	39.57	ug/L	#	76
33) 2,2-Dichloropropane	2.781	77	87586	50.07	ug/L		95
34) Bromochloromethane	2.827	128	32896	34.92	ug/L	#	75
35) Cyclohexane	2.858	56	110598	55.69	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	112789	44.34	ug/L		95
37) Ethyl acetate	2.912	43	422121	384.79	ug/L		89
38) Tetrahydrofuran	2.943	42	29215	67.30	ug/L		84
40) Carbon Tetrachloride	2.966	117	89644m	38.42	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	99046	42.99	ug/L		94
42) 2-Butanone	3.004	43	207124	351.30	ug/L		83
43) 1,1-Dichloropropene	3.058	75	81083	49.25	ug/L		82
44) tert-Butyl formate	3.097	59	269460	282.09	ug/L		95
45) Propionitrile	3.143	54	112992	503.81	ug/L		99
46) Methacrylonitrile	3.166	41	461178	680.98	ug/L		94
47) Benzene	3.181	78	232502	44.44	ug/L		84
48) TAME	3.250	73	160365	51.20	ug/L		87
50) 1,2-Dichloroethane	3.274	62	86780	51.52	ug/L		96
51) Isobutyl Alcohol	3.258	43	124235	1306.33	ug/L		94
52) Tert Amyl Alcohol	3.320	59	78339	550.59	ug/L		91
53) Trichloroethene	3.512	95	66739	43.48	ug/L		92
54) Methylcyclohexane	3.528	83	108155	44.40	ug/L		83
55) Dibromomethane	3.735	93	41575	45.25	ug/L		86
56) 1,2-Dichloropropane	3.789	63	62016	53.38	ug/L		89
57) Bromodichloromethane	3.828	83	84664	47.24	ug/L	#	96
58) Methyl methacrylate	3.920	41	62921	76.58	ug/L	#	69
59) 1,4-Dioxane	3.935	88	12675	802.37	ug/L		89
60) 2-Chloroethyl vinyl ether	4.166	63	222017	302.39	ug/L		83
61) cis-1,3-Dichloropropene	4.205	75	96080	50.47	ug/L		80
64) Toluene	4.366	91	250136	46.71	ug/L		98
65) 2-Nitropropane	4.467	41	124144	391.46	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	400382	398.46	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	90694	57.55	ug/L		87
68) Tetrachloroethene	4.628	166	67543	34.77	ug/L		94
69) Ethyl methacrylate	4.728	69	80434	59.92	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	47943	53.09	ug/L		89
71) Dibromochloromethane	4.836	129	64357	42.64	ug/L		98
72) 1,3-Dichloropropane	4.890	76	90069	54.22	ug/L		76
73) 1,2-Dibromoethane	4.990	107	61867	46.99	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	481141	3140.69	ug/L		95
75) 2-hexanone	5.136	43	387158	392.35	ug/L		75
76) 1-Chlorohexane	5.359	91	92392m	47.74	ug/L		
77) Ethylbenzene	5.390	91	291246m	48.71	ug/L		
78) Chlorobenzene	5.359	112	163642	42.35	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.405	131	58121	41.12	ug/L		98
80) m,p-Xylene	5.498	91	478313	97.49	ug/L		93
81) o-Xylene	5.798	91	250902	50.16	ug/L		92
82) Styrene	5.829	104	184513	47.98	ug/L		89
83) Bromoform	5.836	173	45338	37.18	ug/L		97
84) Isopropylbenzene	6.037	105	293516	45.82	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	22200	58.43	ug/L	#	73
88) n-Propylbenzene	6.344	91	365796	57.84	ug/L		88
89) Bromobenzene	6.306	156	70020	41.62	ug/L	#	80
90) 1,1,2,2-Tetrachloroethane	6.368	83	82908	58.12	ug/L		98
91) 1,3,5-Trimethylbenzene	6.498	105	249885	52.27	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

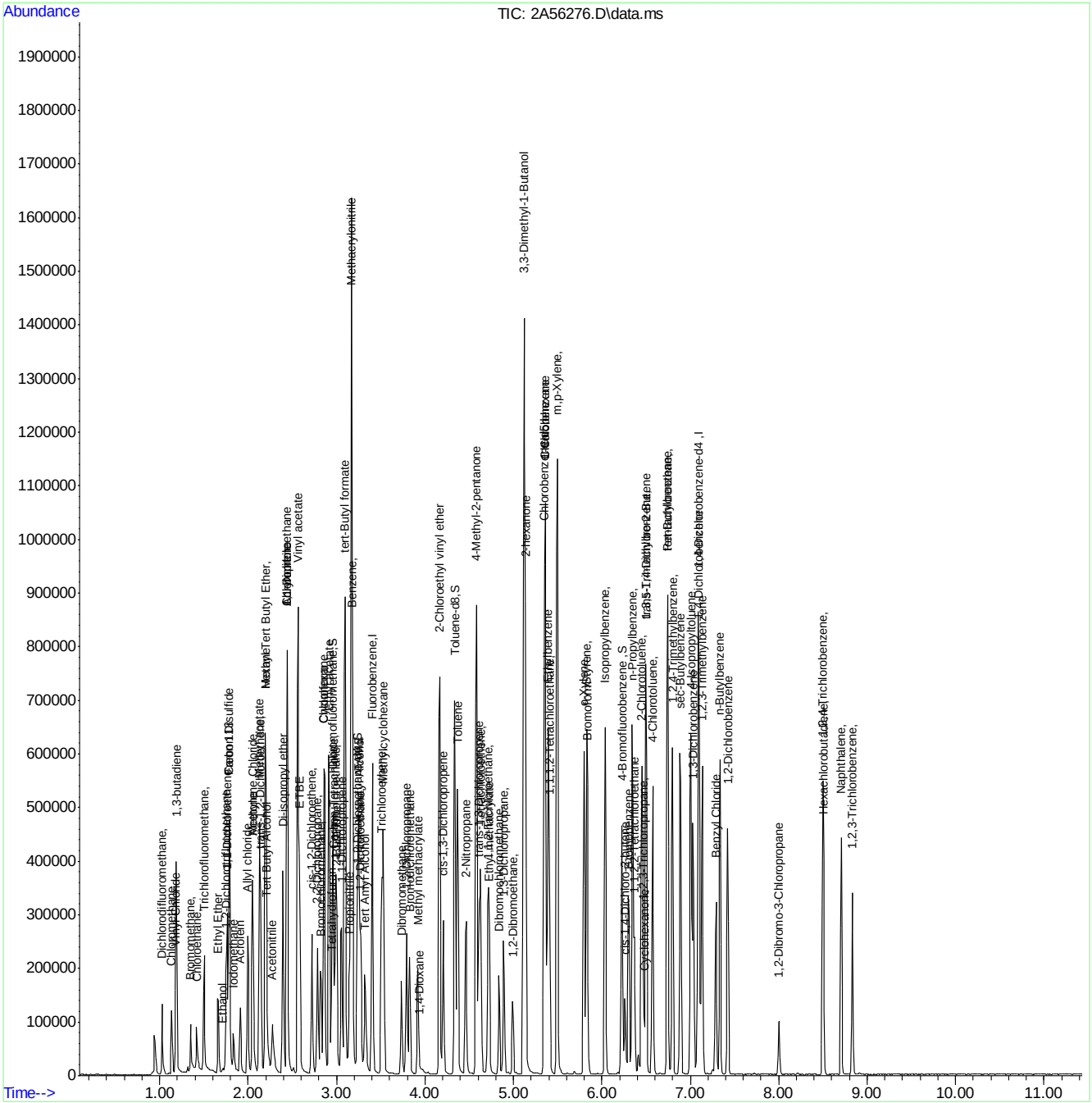
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	204325	55.71	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	29115	65.12	ug/L	#	63
94)	1,2,3-Trichloropropane	6.468	110	22886	48.49	ug/L		78
95)	Cyclohexanone	6.475	55	13115	335.19	ug/L		81
96)	4-Chlorotoluene	6.575	91	216813	55.61	ug/L		88
97)	tert-Butylbenzene	6.745	91	149594	57.76	ug/L		86
98)	1,2,4-Trimethylbenzene	6.799	105	238204	47.15	ug/L		97
99)	Pentachloroethane	6.745	167	41462	41.22	ug/L	#	71
100)	sec-Butylbenzene	6.883	105	321087	51.99	ug/L		92
101)	4-Isopropyltoluene	7.006	119	268970	50.71	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	138462	41.71	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	240876	51.66	ug/L		96
104)	1,4-Dichlorobenzene	7.099	146	139270	41.69	ug/L		89
105)	n-Butylbenzene	7.337	92	124371	52.14	ug/L		94
106)	Benzyl Chloride	7.291	126	33926	50.36	ug/L	#	75
107)	1,2-Dichlorobenzene	7.422	146	126507	43.00	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	17686	61.70	ug/L	#	41
109)	Hexachlorobutadiene	8.507	225	33656	32.35	ug/L		95
110)	1,2,4-Trichlorobenzene	8.499	180	75806	38.83	ug/L		98
111)	Naphthalene	8.707	128	210132	48.83	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	66923	37.03	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

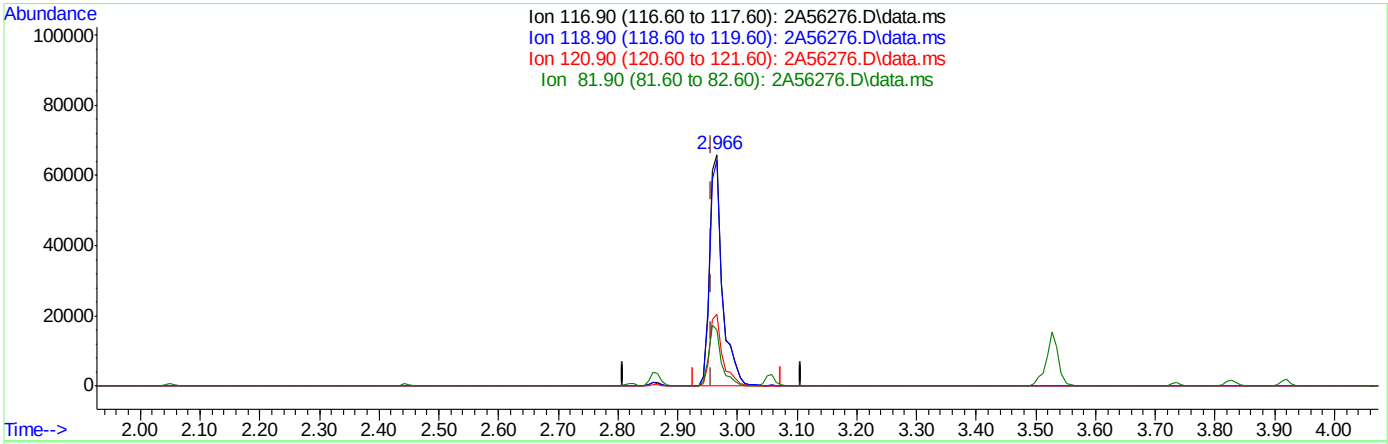
Sample Number: V2A1910-ICC1910 **Method:** SW846 8260D
Lab FileID: 2A56276.D **Analyst approved:** 06/25/24 13:54 Jenifer Willis
Injection Time: 06/25/24 10:47 **Supervisor approved:** 06/26/24 07:53 Karen Watson

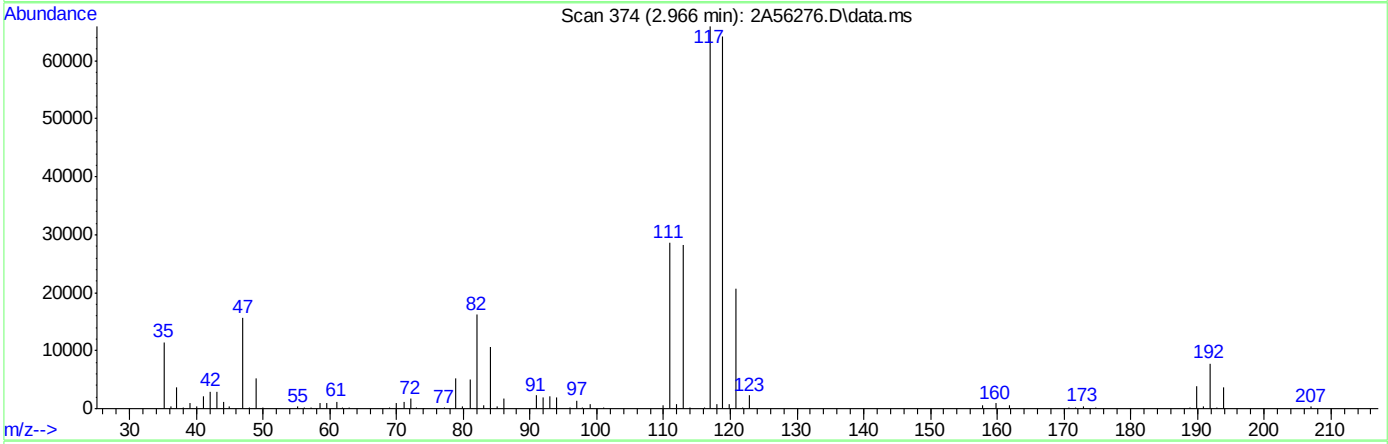
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 42.85ug/L

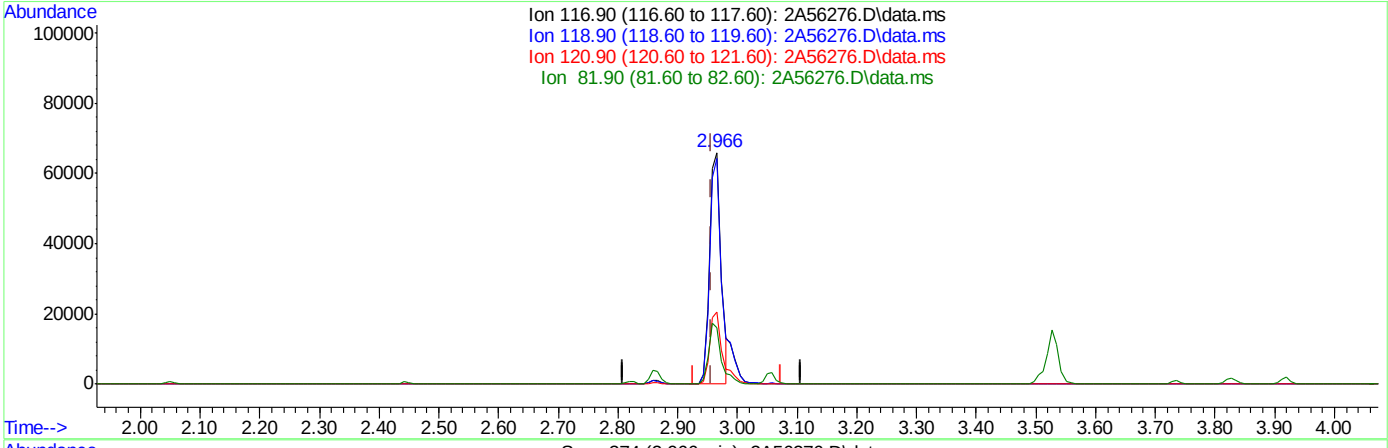
response 99995

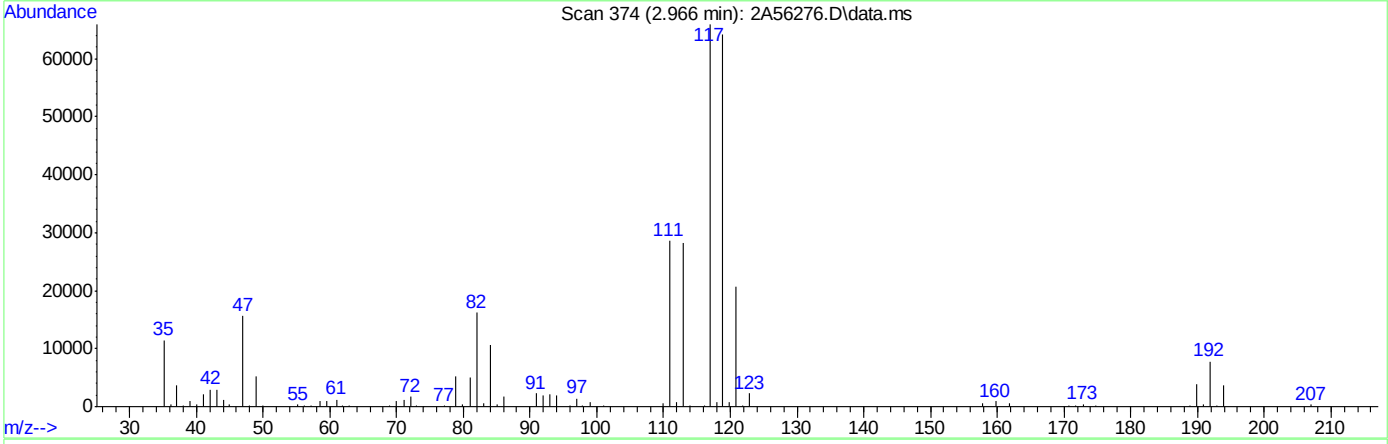
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.45
120.90	31.00	31.25
81.90	19.00	24.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 38.42ug/L m

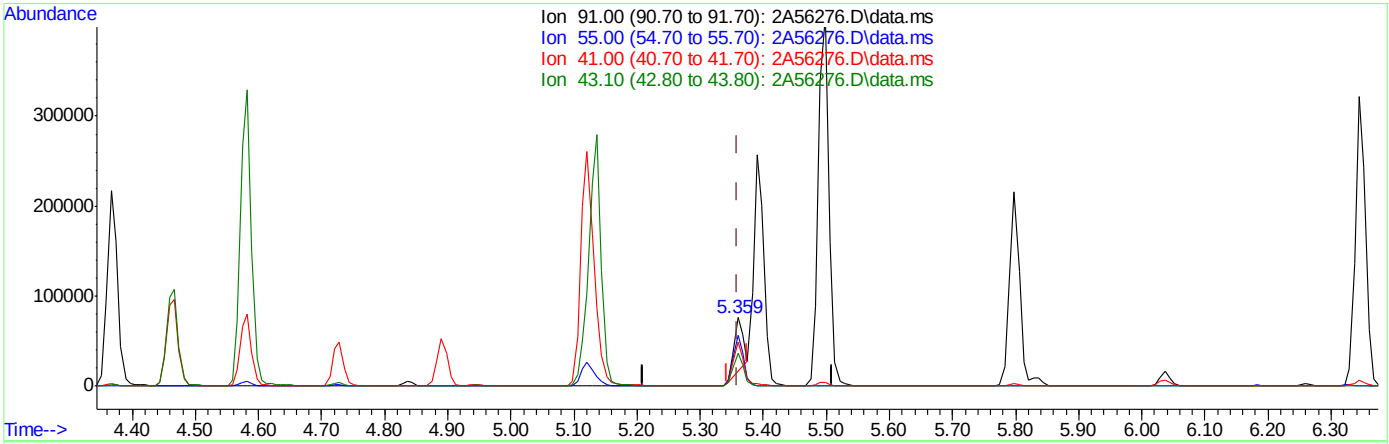
response 89644

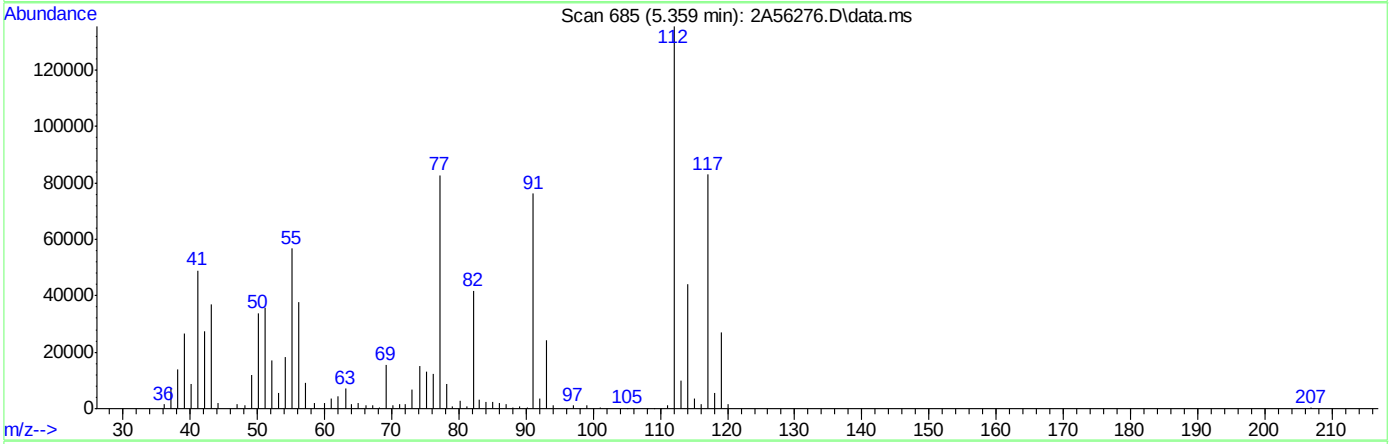
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.45
120.90	31.00	31.25
81.90	19.00	24.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 32.55ug/L

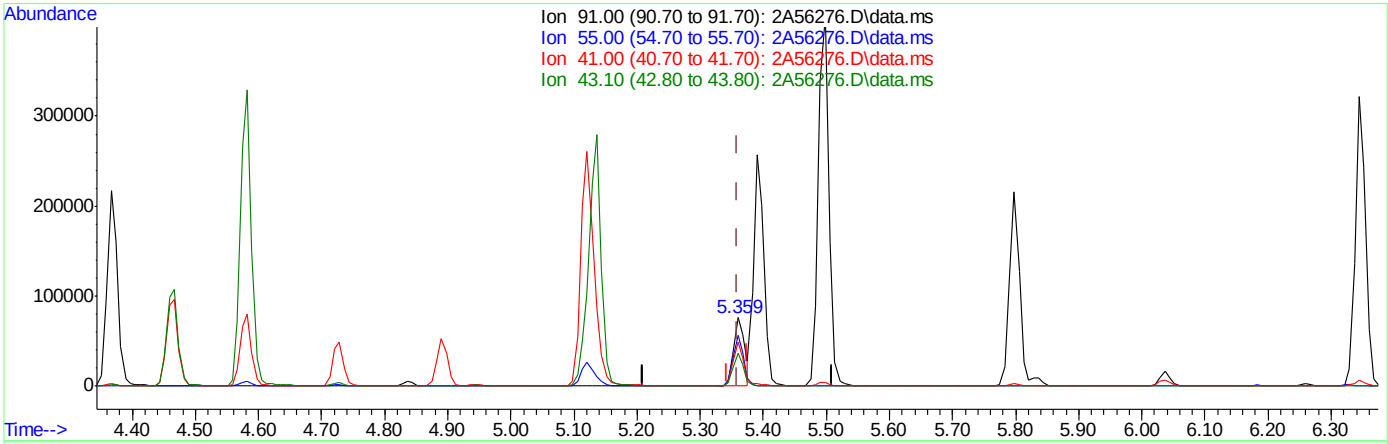
response 62992

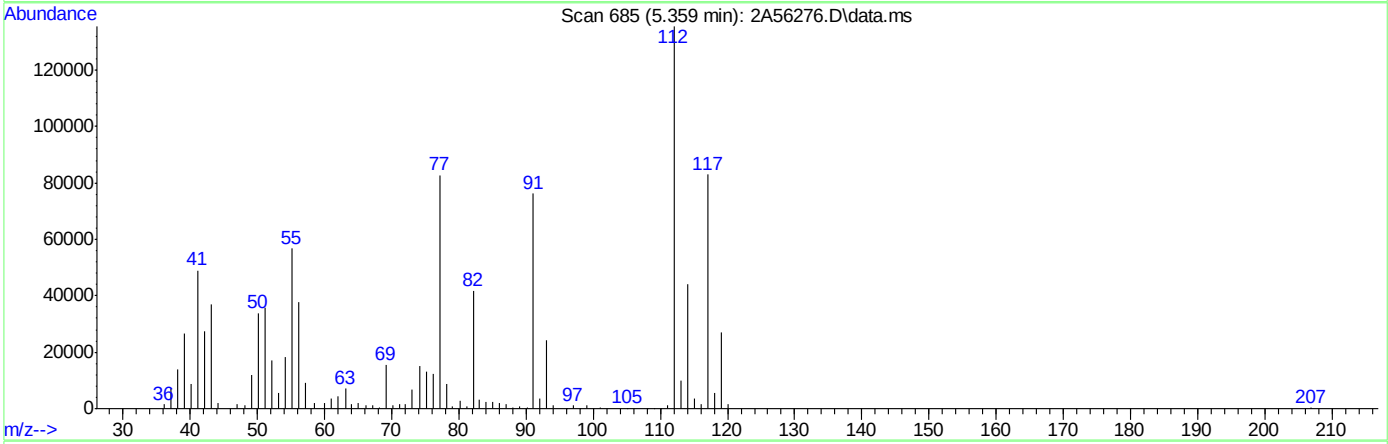
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	70.56
41.00	39.20	61.91#
43.10	33.20	46.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 47.74ug/L m

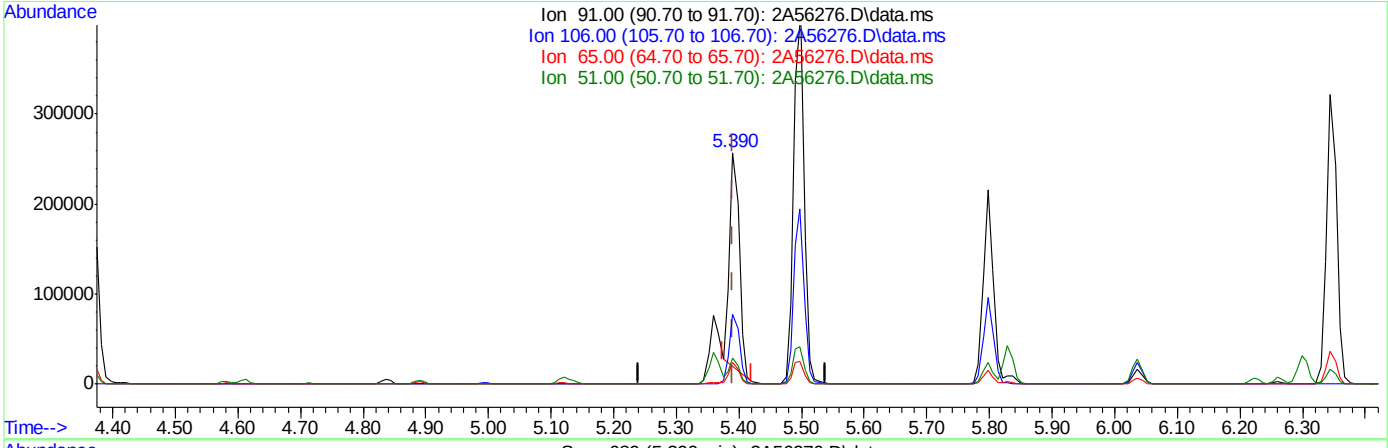
response 92392

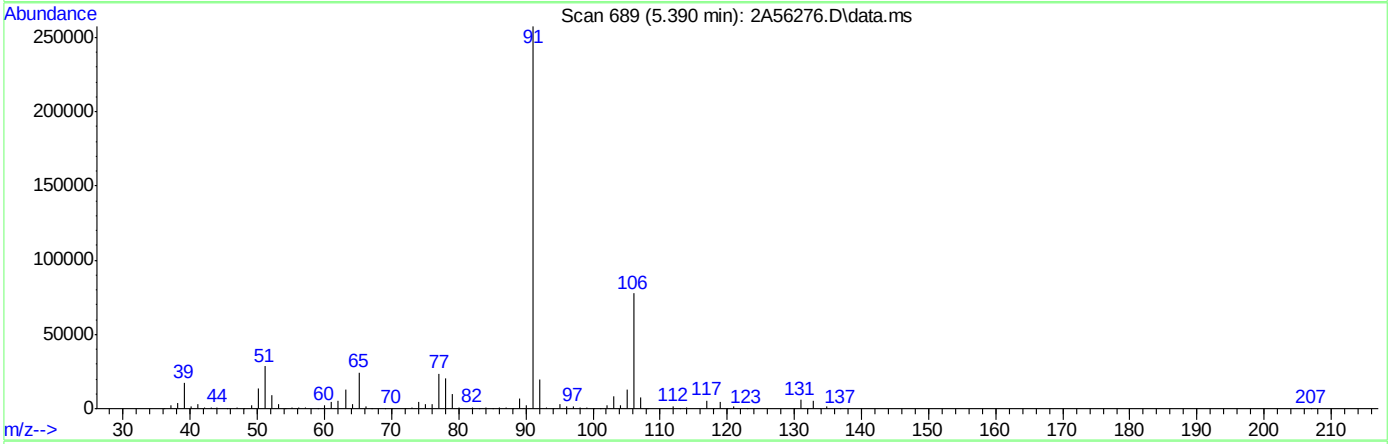
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	74.50
41.00	39.20	64.25#
43.10	33.20	48.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 41.56ug/L

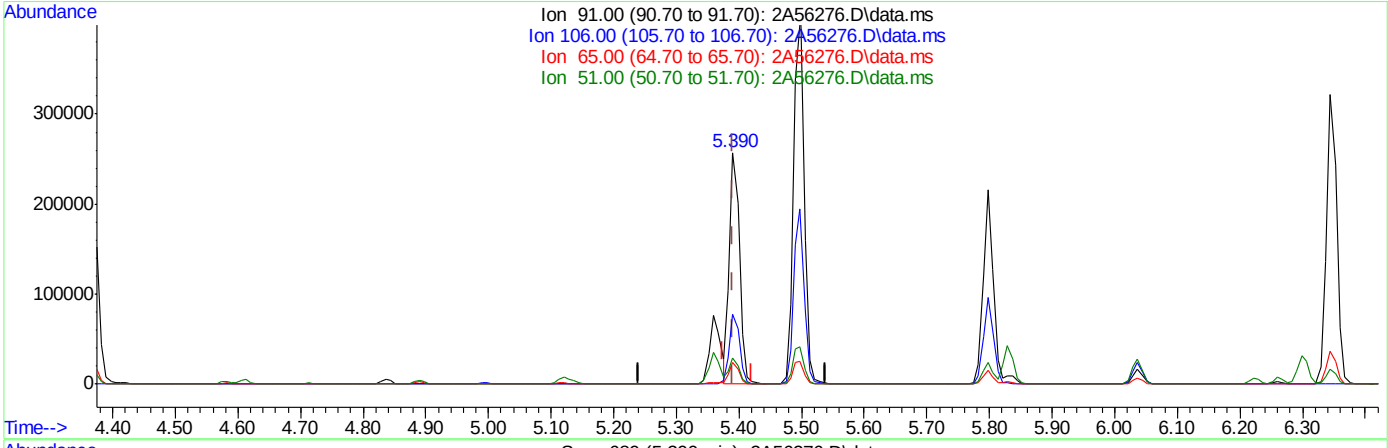
response 248476

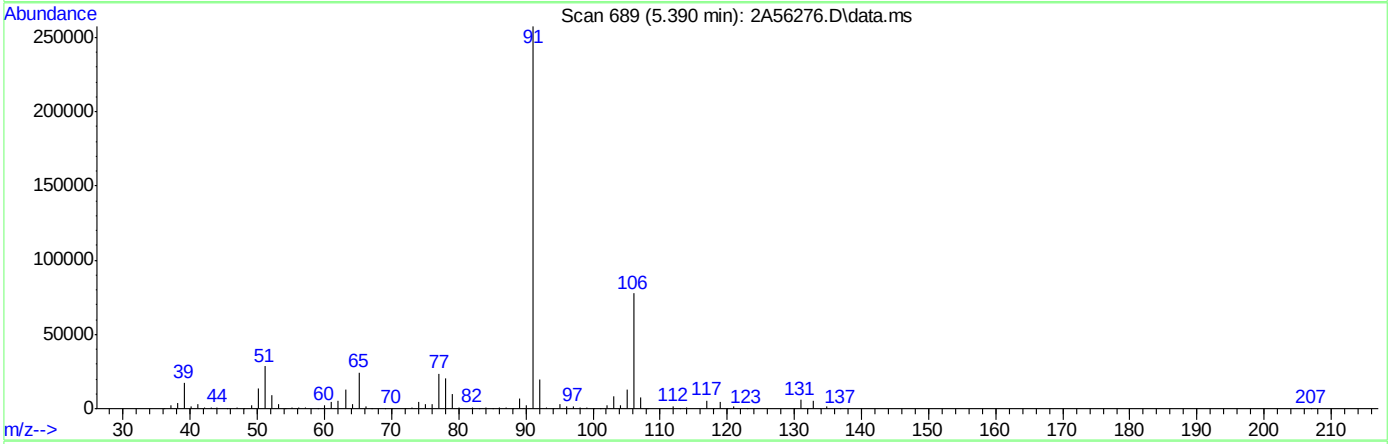
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.16
65.00	7.10	9.48
51.00	7.10	10.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 48.71ug/L m

response 291246

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.13
65.00	7.10	9.47
51.00	7.10	11.08

2A56278.D

Manual Integrations APPROVED (compounds with "m" flag)

Karen Watson 06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	309886	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	223595	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	130158	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	86507	46.95	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.90%				
49) 1,2-Dichloroethane-d4	3.235	65	109344	64.01	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 128.02%#				
63) Toluene-d8	4.336	98	299861	53.56	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.12%				
86) 4-Bromofluorobenzene	6.229	174	103558	49.89	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	101067	63.83	ug/L		98
3) Chloromethane	1.134	50	110040	77.71	ug/L		99
4) 1,3-butadiene	1.188	39	130945	168.15	ug/L	#	76
5) Vinyl Chloride	1.180	62	113252	98.59	ug/L		98
6) Bromomethane	1.349	94	50913	107.03	ug/L		98
7) Chloroethane	1.419	64	55974	Below Cal			96
8) Trichlorofluoromethane	1.496	101	157370	78.37	ug/L		98
9) Ethyl Ether	1.657	59	83599	93.04	ug/L		88
10) Ethanol	1.711	45	25503m	2195.61	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	84658	88.61	ug/L		95
12) 1,1-Dichloroethene	1.757	61	155794	89.04	ug/L		83
13) Freon 113	1.788	101	99935	67.30	ug/L	#	88
14) Carbon Disulfide	1.788	76	301538	76.10	ug/L		86
15) Iodomethane	1.834	142	94504	70.07	ug/L		90
16) Acrolein	1.911	56	104927	434.02	ug/L		98
17) Allyl chloride	1.996	41	157149	115.48	ug/L		80
18) Methylene Chloride	2.042	49	138041	96.49	ug/L	#	69
19) Acetone	2.050	43	209830	559.01	ug/L		82
20) Methyl acetate	2.127	43	521375	529.02	ug/L		88
21) trans-1,2-Dichloroethene	2.134	61	150742	87.42	ug/L		77
22) Hexane	2.196	56	99116	84.07	ug/L	#	80
23) Methyl Tert Butyl Ether	2.196	73	299894	86.07	ug/L		76
24) Acetonitrile	2.273	41	133985	1160.11	ug/L		96
25) Tert Butyl Alcohol	2.211	59	170506	925.54	ug/L	#	54
26) Di-isopropyl ether	2.396	45	330465	119.42	ug/L		88
27) Chloroprene	2.442	53	435271	99.91	ug/L		92
28) 1,1-Dichloroethane	2.442	63	194078	84.92	ug/L		97
29) Acrylonitrile	2.442	52	262783	508.97	ug/L		98
30) ETBE	2.581	59	330921	99.11	ug/L		91
31) Vinyl acetate	2.558	43	1341407	689.01	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	111845	66.44	ug/L	#	77
33) 2,2-Dichloropropane	2.781	77	156006	86.59	ug/L		95
34) Bromochloromethane	2.819	128	56154	57.88	ug/L	#	60
35) Cyclohexane	2.858	56	191761	93.76	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	195539	74.65	ug/L		95
37) Ethyl acetate	2.912	43	728475	644.79	ug/L		90
38) Tetrahydrofuran	2.943	42	49695	111.16	ug/L		82
40) Carbon Tetrachloride	2.958	117	158194m	65.83	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	172517	72.70	ug/L		94
42) 2-Butanone	3.004	43	361022	594.56	ug/L		83
43) 1,1-Dichloropropene	3.050	75	142098	83.80	ug/L		78
44) tert-Butyl formate	3.096	59	486654	494.68	ug/L		94
45) Propionitrile	3.143	54	194845	843.58	ug/L		98
46) Methacrylonitrile	3.166	41	808649	1159.42	ug/L		94
47) Benzene	3.181	78	407991	75.72	ug/L		85
48) TAME	3.250	73	284957	88.34	ug/L		92
50) 1,2-Dichloroethane	3.274	62	152096	87.68	ug/L		96
51) Isobutyl Alcohol	3.250	43	210094	2145.03	ug/L		78
52) Tert Amyl Alcohol	3.320	59	137488	938.27	ug/L		89
53) Trichloroethene	3.504	95	117571	74.37	ug/L		82
54) Methylcyclohexane	3.527	83	192253	76.64	ug/L		83
55) Dibromomethane	3.735	93	72464	76.58	ug/L		86
56) 1,2-Dichloropropane	3.789	63	106975	89.41	ug/L		89
57) Bromodichloromethane	3.828	83	151246	81.94	ug/L	#	96
58) Methyl methacrylate	3.920	41	107477	127.01	ug/L	#	71
59) 1,4-Dioxane	3.935	88	21251	1306.23	ug/L		78
60) 2-Chloroethyl vinyl ether	4.166	63	383803	507.58	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	169892	86.66	ug/L		79
64) Toluene	4.366	91	433707	79.59	ug/L		99
65) 2-Nitropropane	4.466	41	220892	625.98	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	699953	684.58	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	162855	101.56	ug/L		83
68) Tetrachloroethene	4.628	166	119324	60.36	ug/L		96
69) Ethyl methacrylate	4.728	69	140373	102.77	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	86174	93.78	ug/L		88
71) Dibromochloromethane	4.836	129	115373	75.13	ug/L		99
72) 1,3-Dichloropropane	4.890	76	157586	93.22	ug/L		76
73) 1,2-Dibromoethane	4.990	107	108061	80.66	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.121	57	837604	5373.32	ug/L		95
75) 2-hexanone	5.136	43	663063	660.38	ug/L		78
76) 1-Chlorohexane	5.359	91	158783m	80.63	ug/L		
77) Ethylbenzene	5.390	91	504324m	82.89	ug/L		
78) Chlorobenzene	5.359	112	284055	72.24	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.405	131	105341	73.24	ug/L		98
80) m,p-Xylene	5.498	91	829617	166.18	ug/L		93
81) o-Xylene	5.798	91	437261	85.92	ug/L		91
82) Styrene	5.829	104	320362	81.87	ug/L		89
83) Bromoform	5.836	173	83766	67.50	ug/L		97
84) Isopropylbenzene	6.037	105	504518	77.41	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	41064	108.37	ug/L	#	84
88) n-Propylbenzene	6.344	91	629393	99.79	ug/L		88
89) Bromobenzene	6.298	156	124087	73.95	ug/L	#	68
90) 1,1,2,2-Tetrachloroethane	6.367	83	142895	100.43	ug/L		98
91) 1,3,5-Trimethylbenzene	6.498	105	431019	90.39	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

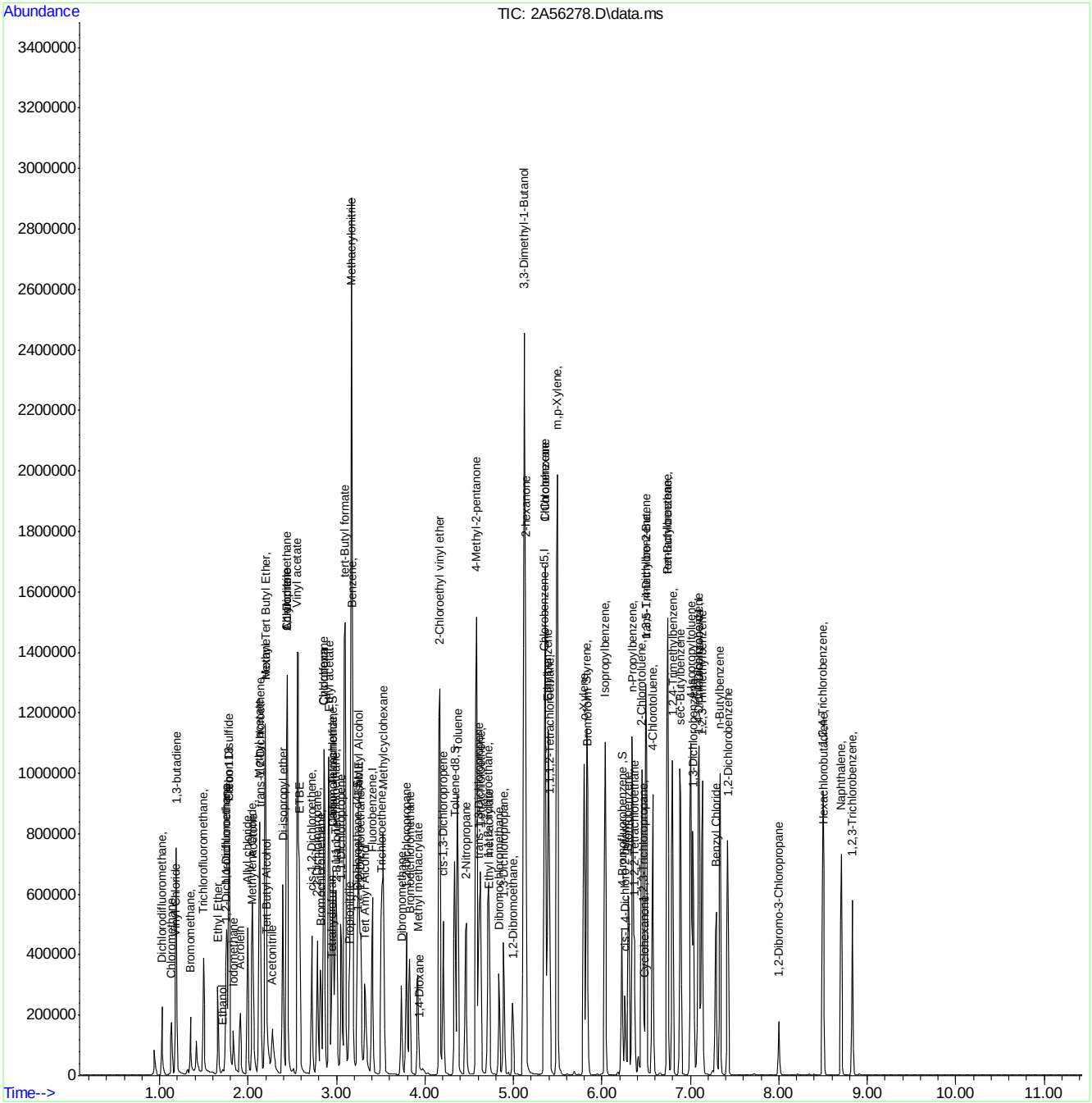
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	352087	96.25	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.498	53	50527	113.31	ug/L	#	67
94)	1,2,3-Trichloropropane	6.468	110	39962	84.89	ug/L		81
95)	Cyclohexanone	6.475	55	21168	542.43	ug/L	#	78
96)	4-Chlorotoluene	6.575	91	373873	96.14	ug/L		88
97)	tert-Butylbenzene	6.745	91	255929	99.07	ug/L		85
98)	1,2,4-Trimethylbenzene	6.798	105	412947	81.96	ug/L		97
99)	Pentachloroethane	6.745	167	72850	72.61	ug/L	#	71
100)	sec-Butylbenzene	6.883	105	542807	88.12	ug/L		92
101)	4-Isopropyltoluene	7.006	119	460059	86.96	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	235255	71.06	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	413093	88.82	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	236866	71.09	ug/L		90
105)	n-Butylbenzene	7.337	92	210585	88.52	ug/L		94
106)	Benzyl Chloride	7.291	126	59065	87.90	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	214447	73.08	ug/L		92
108)	1,2-Dibromo-3-Chloropr...	7.999	75	30023	105.02	ug/L	#	43
109)	Hexachlorobutadiene	8.507	225	55412	53.40	ug/L		92
110)	1,2,4-Trichlorobenzene	8.499	180	127659	65.56	ug/L		97
111)	Naphthalene	8.707	128	355444	82.82	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	114300	63.41	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

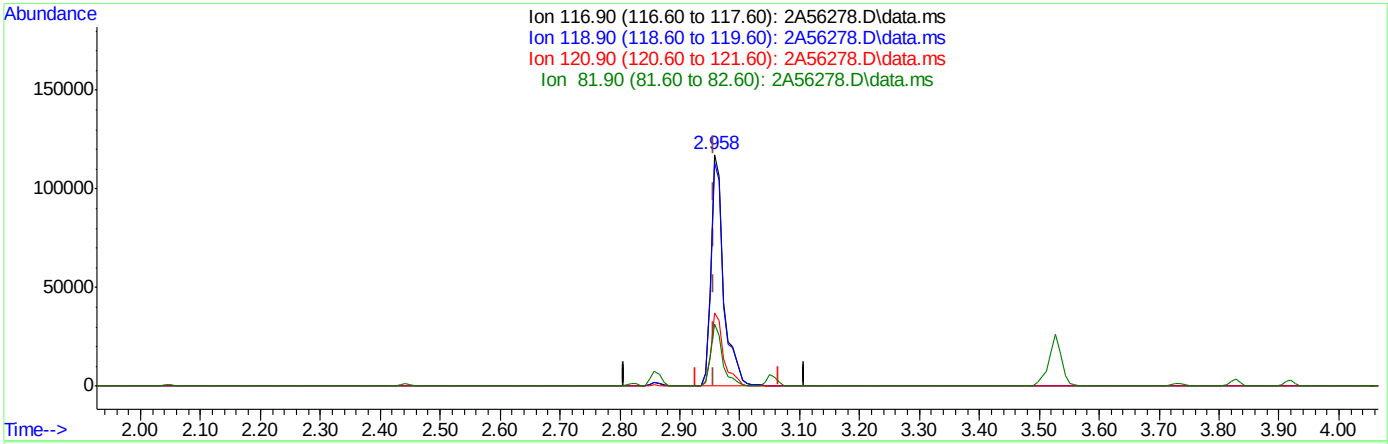
Sample Number: V2A1910-IC1910
Lab FileID: 2A56278.D
Injection Time: 06/25/24 11:19
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

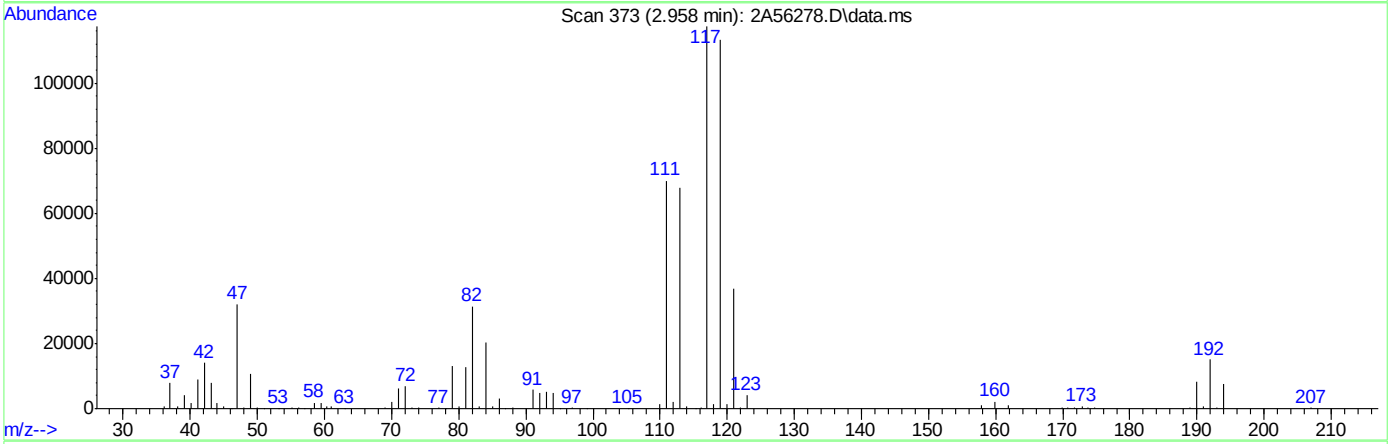
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 72.82ug/L

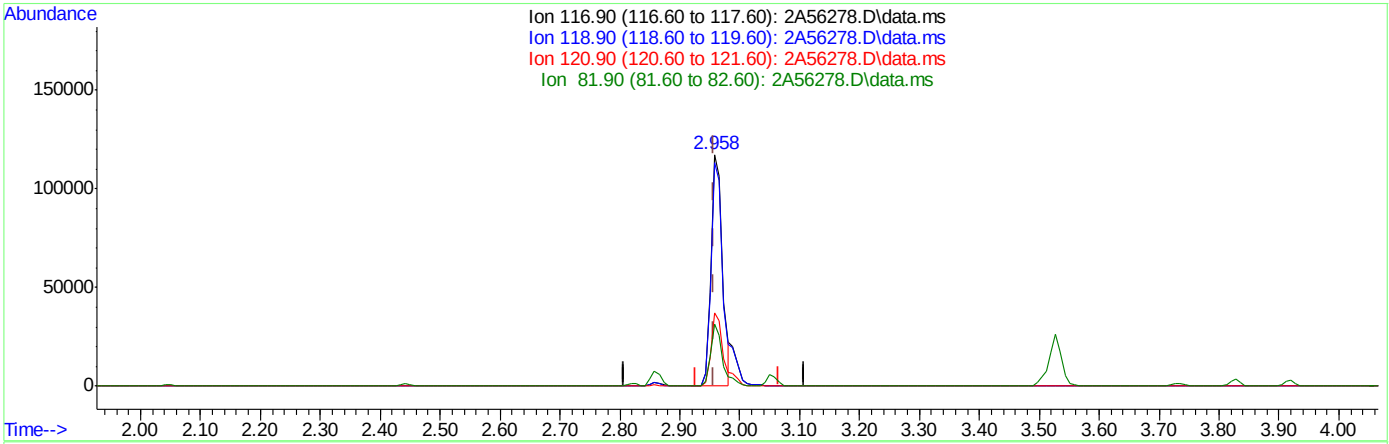
response 175008

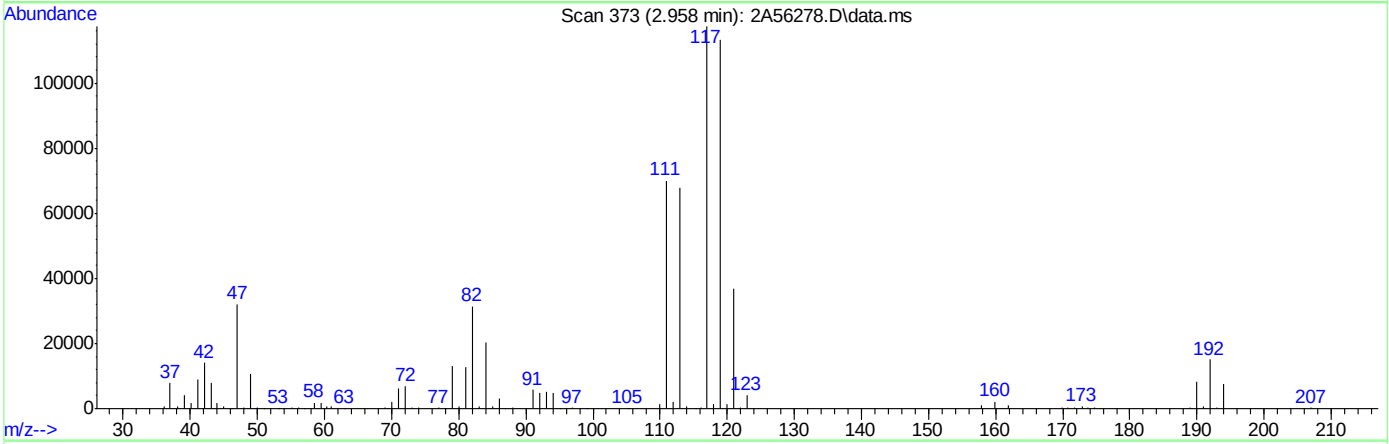
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.53
120.90	31.00	31.43
81.90	19.00	26.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 65.83ug/L m

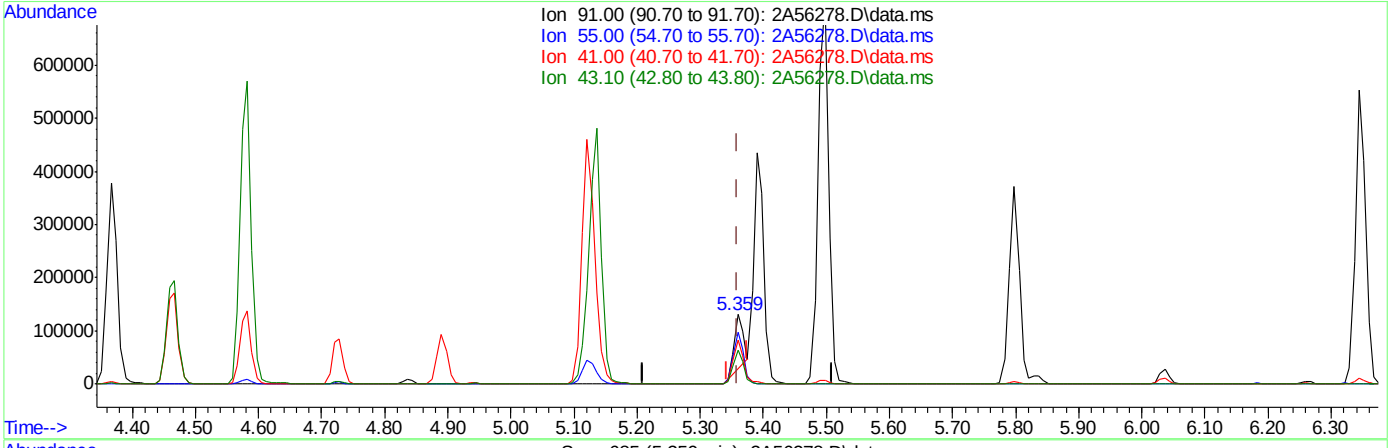
response 158194

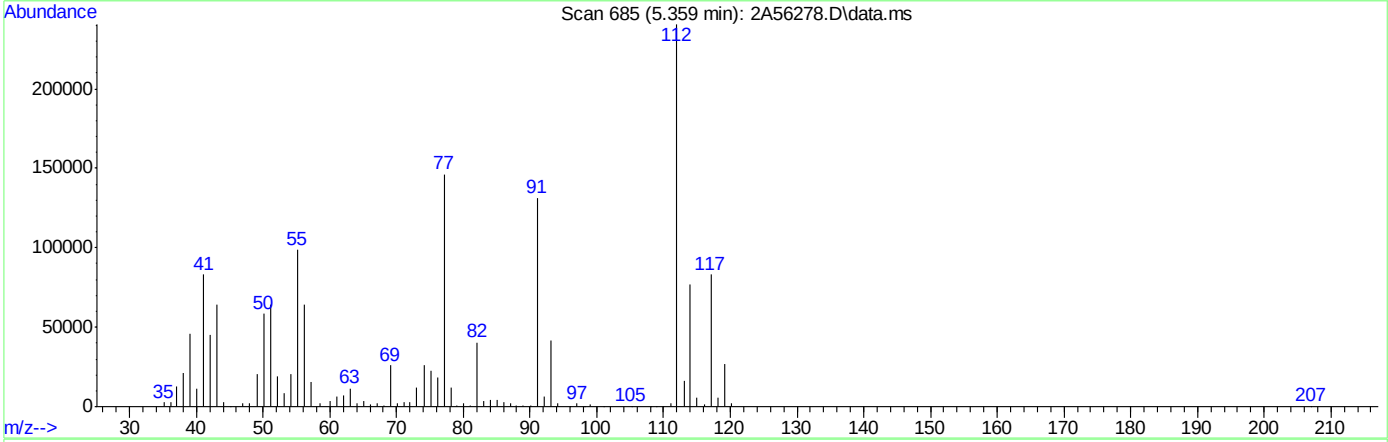
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.53
120.90	31.00	31.43
81.90	19.00	26.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 54.22ug/L

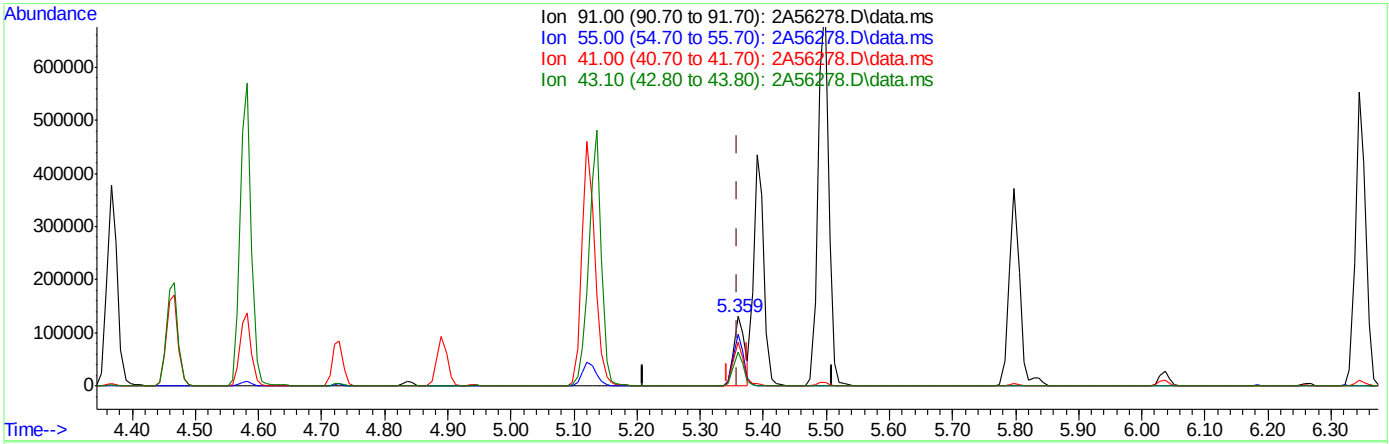
response 106766

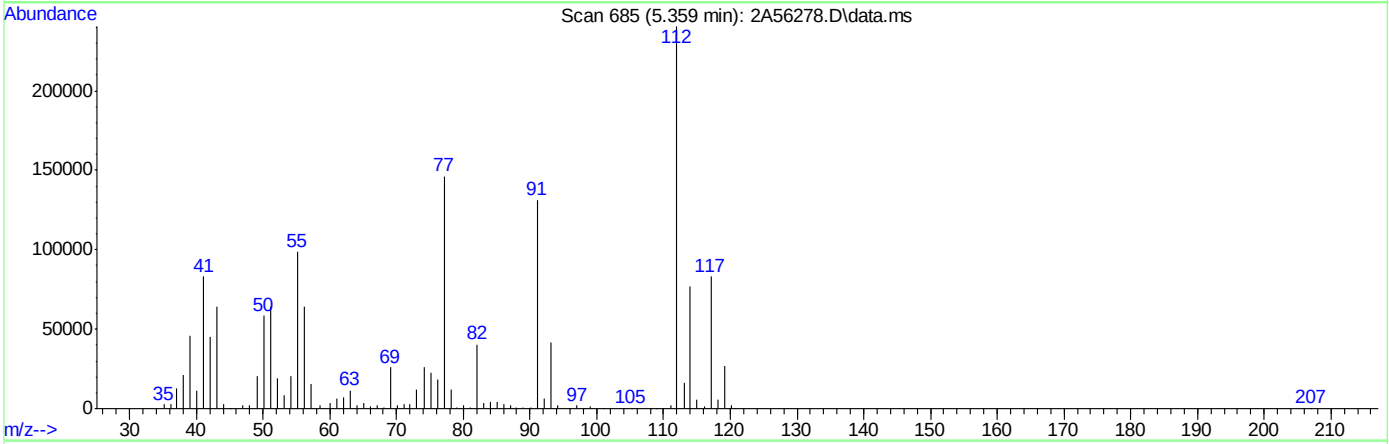
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	72.54
41.00	39.20	61.34#
43.10	33.20	47.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 80.63ug/L m

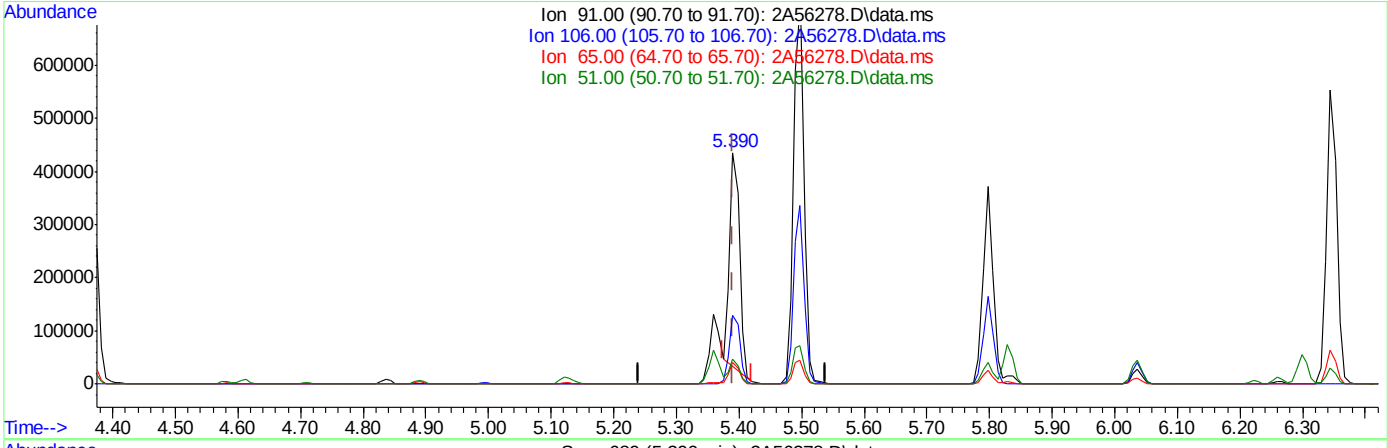
response 158783

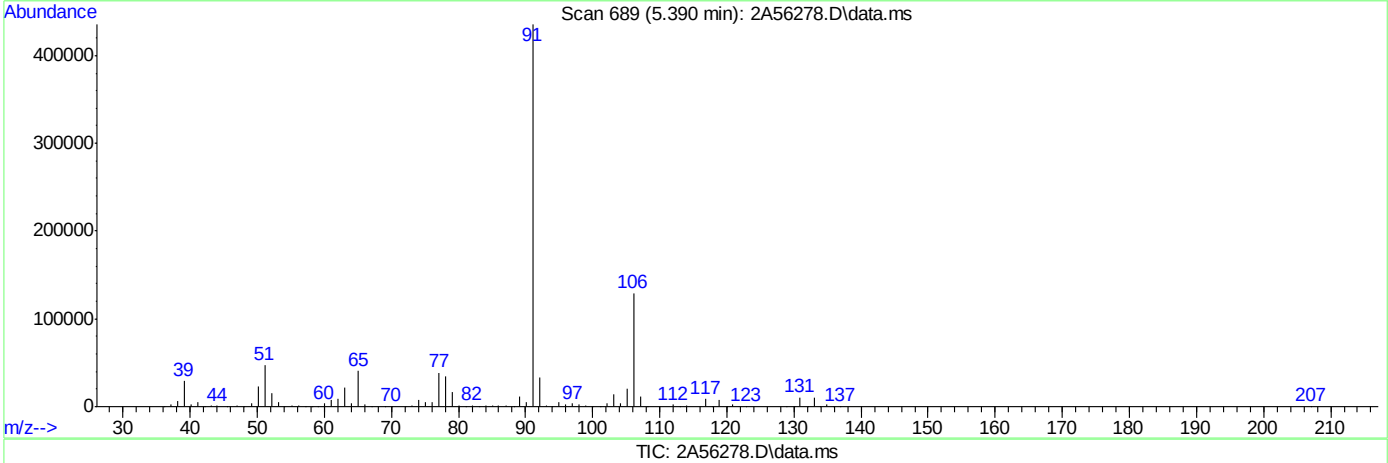
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	75.15
41.00	39.20	63.29#
43.10	33.20	48.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 70.83ug/L

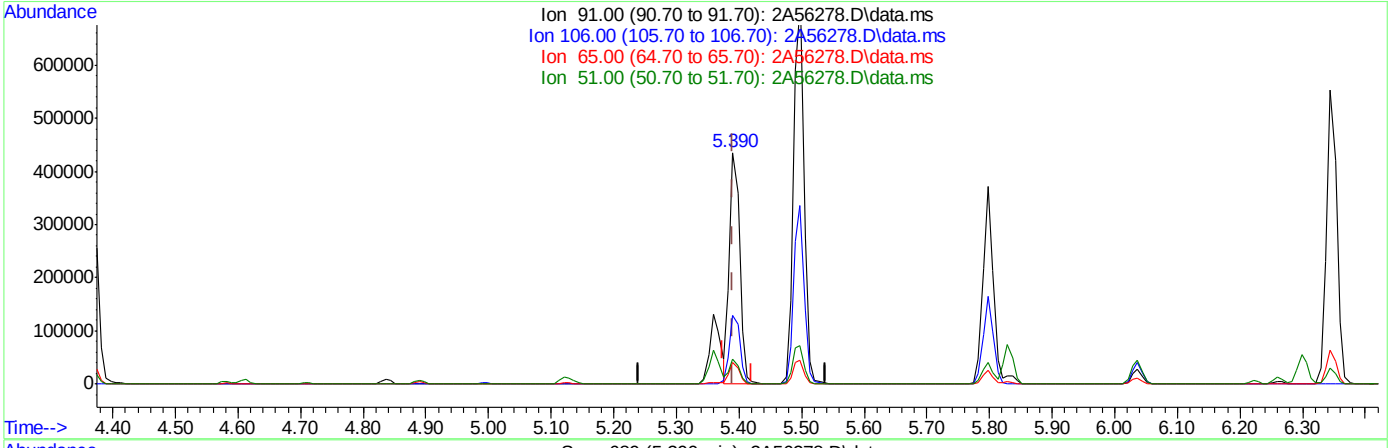
response 430976

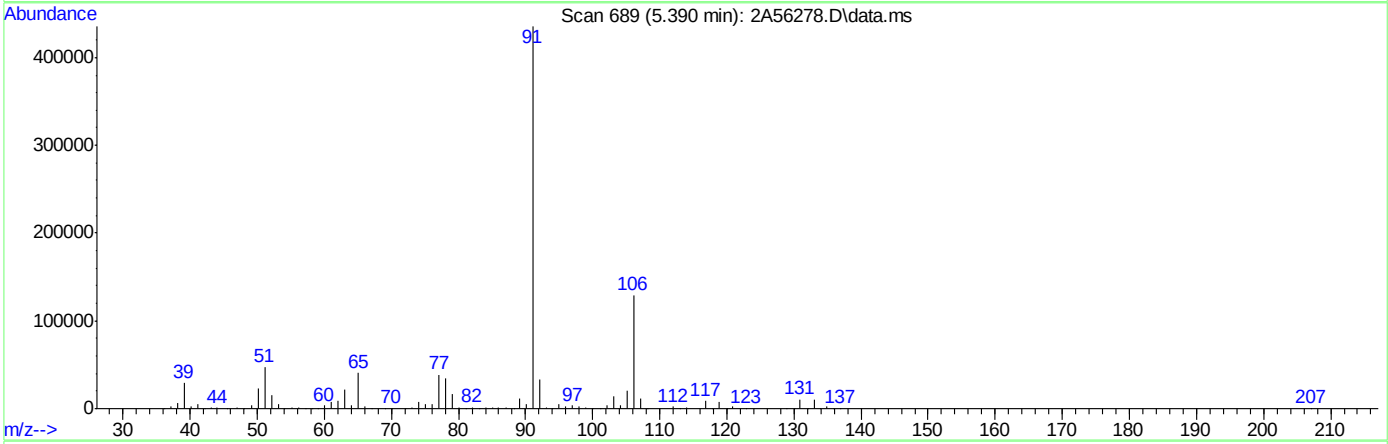
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.71
65.00	7.10	9.24
51.00	7.10	10.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 82.89ug/L m

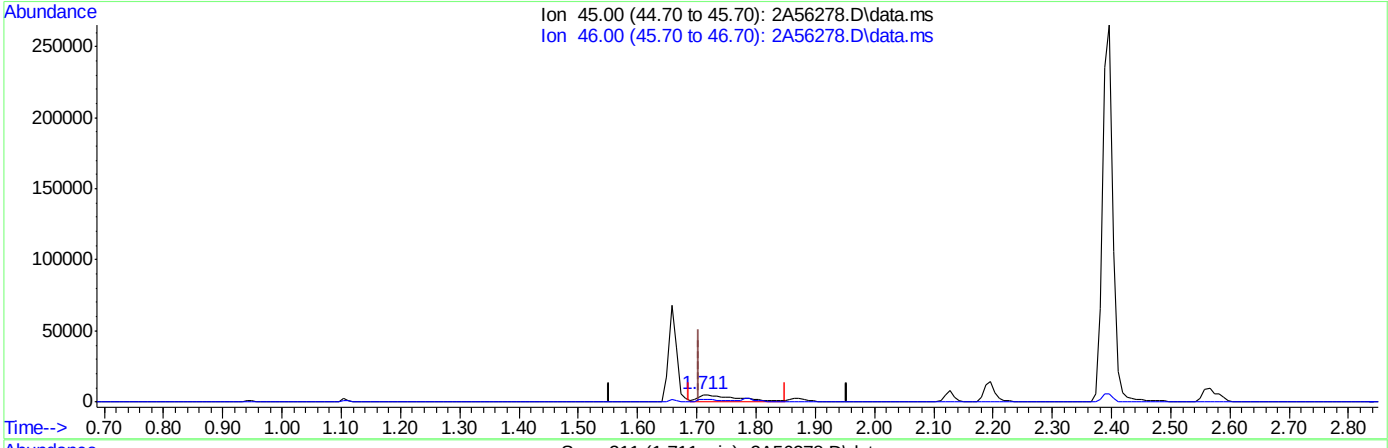
response 504324

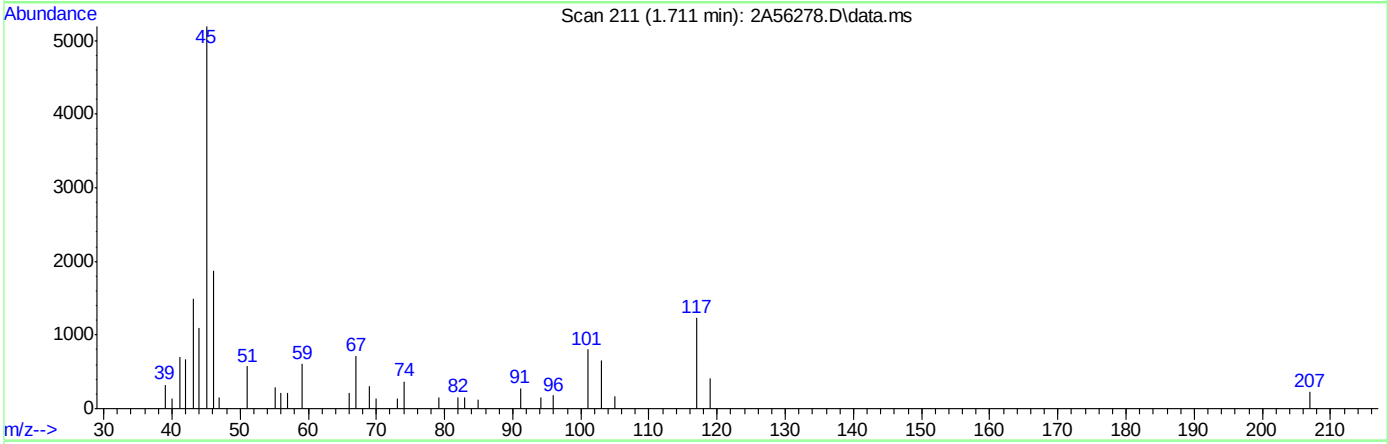
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.69
65.00	7.10	9.25
51.00	7.10	10.94

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 1920.81ug/L

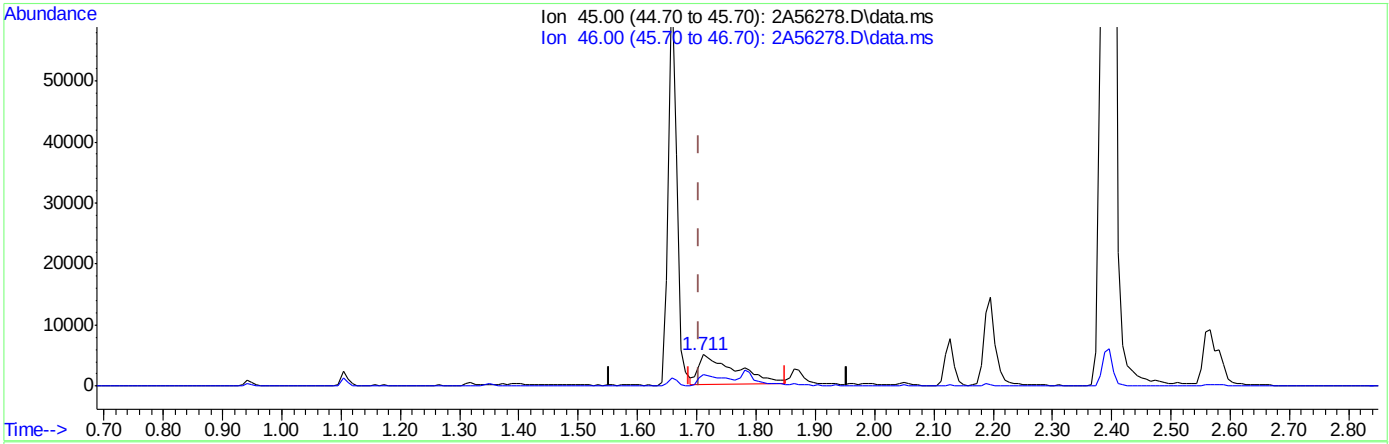
response 22311

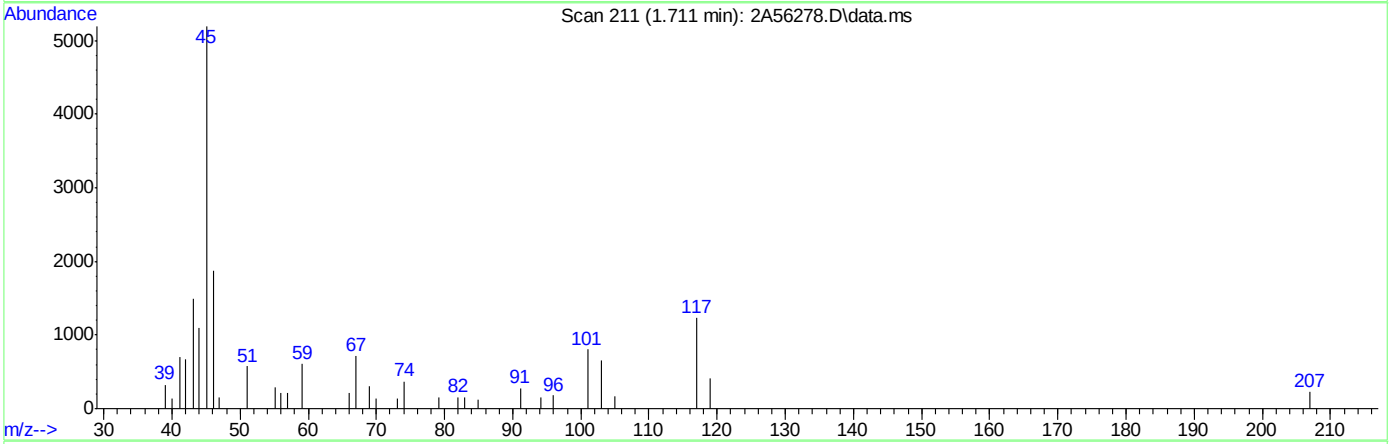
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	44.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 1920.81ug/L

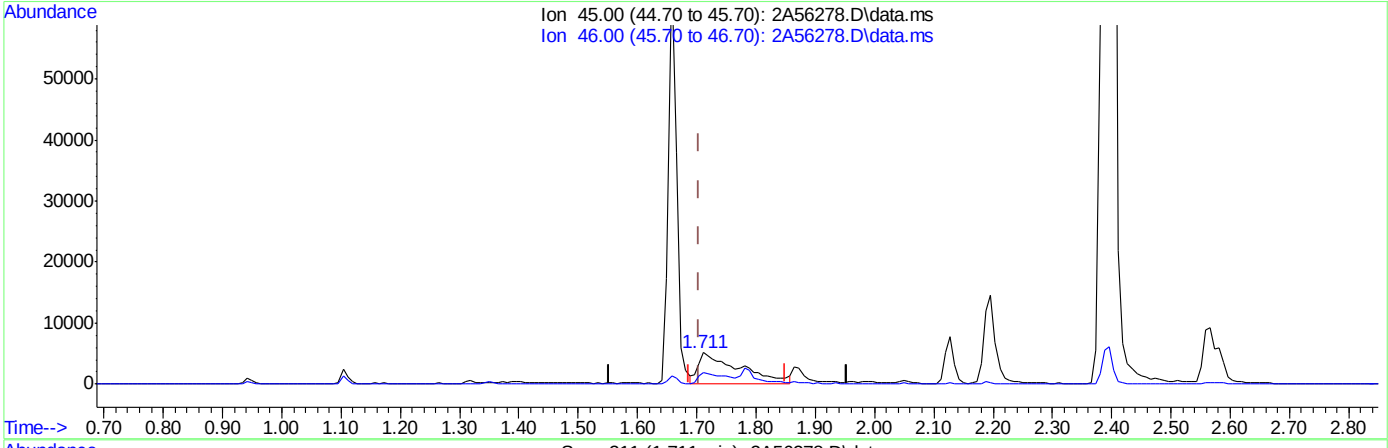
response 22311

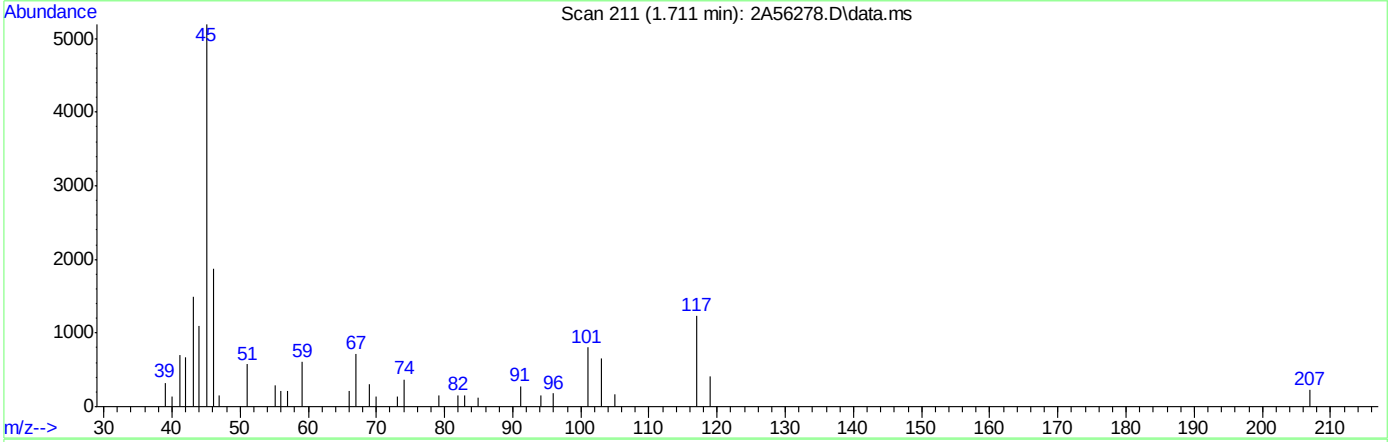
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	44.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 2195.61ug/L m

response 25503

Ion	Exp%	Act%
45.00	100	100
46.00	46.00	36.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	311293	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	221306	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	127691	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	86171	47.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.34%				
49) 1,2-Dichloroethane-d4	3.235	65	95865	43.81	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.62%				
63) Toluene-d8	4.336	98	299071	49.83	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.66%				
86) 4-Bromofluorobenzene	6.229	174	102191	50.65	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	140393	90.13	ug/L		98
3) Chloromethane	1.126	50	157090	82.69	ug/L		99
4) 1,3-butadiene	1.188	39	176551	69.75	ug/L	#	78
5) Vinyl Chloride	1.173	62	158920	87.35	ug/L		98
6) Bromomethane	1.350	94	74547	80.17	ug/L		97
7) Chloroethane	1.411	64	73902	Below Cal			95
8) Trichlorofluoromethane	1.496	101	214795	89.04	ug/L		100
9) Ethyl Ether	1.657	59	118250	92.44	ug/L		90
10) Ethanol	1.719	45	43494m	2349.36	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.742	67	117459	80.20	ug/L	#	87
12) 1,1-Dichloroethene	1.758	61	217264	88.49	ug/L		86
13) Freon 113	1.788	101	139820	97.26	ug/L		91
14) Carbon Disulfide	1.781	76	421278	86.74	ug/L		83
15) Iodomethane	1.834	142	128804	84.81	ug/L		90
16) Acrolein	1.911	56	150707	500.06	ug/L		97
17) Allyl chloride	1.996	41	220748	87.50	ug/L		82
18) Methylene Chloride	2.042	49	193758	68.92	ug/L	#	70
19) Acetone	2.050	43	281912	444.39	ug/L		81
20) Methyl acetate	2.127	43	746648	479.83	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	212654	87.05	ug/L		78
22) Hexane	2.196	56	141075	98.30	ug/L	#	82
23) Methyl Tert Butyl Ether	2.196	73	431411	98.75	ug/L		76
24) Acetonitrile	2.273	41	180111	1008.89	ug/L		97
25) Tert Butyl Alcohol	2.212	59	240469	959.23	ug/L		59
26) Di-isopropyl ether	2.396	45	474350	95.66	ug/L		88
27) Chloroprene	2.442	53	615521	94.60	ug/L		92
28) 1,1-Dichloroethane	2.442	63	269611	86.32	ug/L		98
29) Acrylonitrile	2.442	52	377032	481.34	ug/L		97
30) ETBE	2.581	59	472373	101.25	ug/L		91
31) Vinyl acetate	2.558	43	1927570	519.15	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	158515	84.46	ug/L	#	79
33) 2,2-Dichloropropane	2.781	77	216468	85.63	ug/L		95
34) Bromochloromethane	2.820	128	77153	88.01	ug/L	#	61
35) Cyclohexane	2.858	56	270103	94.11	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	275344	85.20	ug/L		95
37) Ethyl acetate	2.912	43	1051864	516.59	ug/L		90
38) Tetrahydrofuran	2.943	42	70907	96.88	ug/L		82
40) Carbon Tetrachloride	2.958	117	226959m	95.08	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	245050	88.73	ug/L		93
42) 2-Butanone	3.004	43	520851	513.21	ug/L		83
43) 1,1-Dichloropropene	3.051	75	197999	91.30	ug/L		78
44) tert-Butyl formate	3.097	59	714706	570.12	ug/L		94
45) Propionitrile	3.143	54	268656	911.68	ug/L		97
46) Methacrylonitrile	3.166	41	1147423	1000.79	ug/L		95
47) Benzene	3.181	78	575531	90.33	ug/L		83
48) TAME	3.251	73	412773	101.24	ug/L		97
50) 1,2-Dichloroethane	3.274	62	217216	93.68	ug/L		96
51) Isobutyl Alcohol	3.251	43	287387	1808.73	ug/L		74
52) Tert Amyl Alcohol	3.328	59	198976	999.00	ug/L		91
53) Trichloroethene	3.505	95	163753	90.10	ug/L		83
54) Methylcyclohexane	3.528	83	274348	98.54	ug/L		83
55) Dibromomethane	3.736	93	103739	94.71	ug/L		89
56) 1,2-Dichloropropane	3.789	63	150223	91.39	ug/L		90
57) Bromodichloromethane	3.828	83	214676	93.59	ug/L	#	96
58) Methyl methacrylate	3.913	41	155564	101.82	ug/L	#	65
59) 1,4-Dioxane	3.936	88	31482	2252.77	ug/L		84
60) 2-Chloroethyl vinyl ether	4.167	63	555189	500.42	ug/L		85
61) cis-1,3-Dichloropropene	4.205	75	244391	98.88	ug/L		79
64) Toluene	4.367	91	613625	91.42	ug/L		99
65) 2-Nitropropane	4.467	41	316465	485.60	ug/L		93
66) 4-Methyl-2-pentanone	4.582	43	997238	503.78	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	232679	106.92	ug/L		88
68) Tetrachloroethene	4.628	166	168811	98.11	ug/L		95
69) Ethyl methacrylate	4.728	69	197721	100.62	ug/L	#	72
70) 1,1,2-Trichloroethane	4.713	83	121996	97.50	ug/L		89
71) Dibromochloromethane	4.836	129	167172	109.20	ug/L		98
72) 1,3-Dichloropropane	4.890	76	225730	104.66	ug/L		76
73) 1,2-Dibromoethane	4.990	107	154674	105.09	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	1233911	5061.21	ug/L		95
75) 2-hexanone	5.136	43	938898	486.94	ug/L		85
76) 1-Chlorohexane	5.359	91	225210m	88.21	ug/L		
77) Ethylbenzene	5.390	91	712180m	91.61	ug/L		
78) Chlorobenzene	5.359	112	402054	92.74	ug/L		85
79) 1,1,1,2-Tetrachloroethane	5.406	131	151064	103.57	ug/L		98
80) m,p-Xylene	5.498	91	1169099	183.99	ug/L		93
81) o-Xylene	5.798	91	613880	92.29	ug/L		91
82) Styrene	5.829	104	454602	95.11	ug/L		89
83) Bromoform	5.837	173	121270	112.11	ug/L		98
84) Isopropylbenzene	6.037	105	709116	90.29	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	61122	112.97	ug/L	#	75
88) n-Propylbenzene	6.345	91	884199	93.09	ug/L		87
89) Bromobenzene	6.306	156	173223	96.59	ug/L	#	81
90) 1,1,2,2-Tetrachloroethane	6.368	83	203287	96.23	ug/L		97
91) 1,3,5-Trimethylbenzene	6.498	105	601371	93.24	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

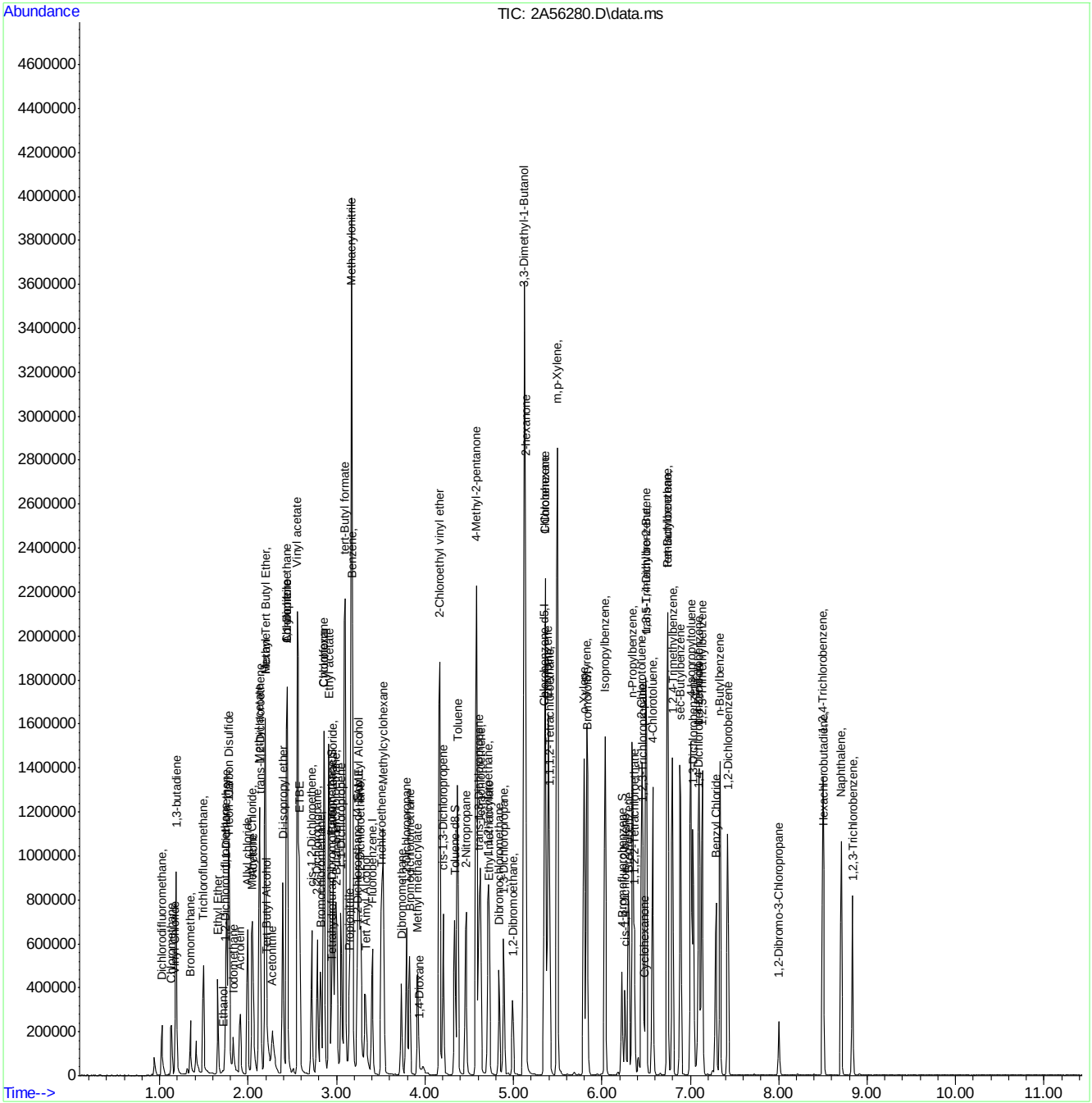
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	489515	93.41	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	72150	101.81	ug/L	#	68
94)	1,2,3-Trichloropropane	6.460	110	56754	103.50	ug/L	#	65
95)	Cyclohexanone	6.475	55	31152	493.24	ug/L	#	79
96)	4-Chlorotoluene	6.575	91	521630	92.90	ug/L		88
97)	tert-Butylbenzene	6.745	91	353931	90.97	ug/L		86
98)	1,2,4-Trimethylbenzene	6.799	105	575876	99.71	ug/L		97
99)	Pentachloroethane	6.745	167	103787	108.90	ug/L	#	78
100)	sec-Butylbenzene	6.883	105	749773	91.60	ug/L		92
101)	4-Isopropyltoluene	7.006	119	639016	91.98	ug/L		94
102)	1,3-Dichlorobenzene	7.030	146	329473	94.16	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	579531	97.43	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	326088	93.04	ug/L		90
105)	n-Butylbenzene	7.337	92	298154	99.75	ug/L		94
106)	Benzyl Chloride	7.291	126	83339	109.19	ug/L	#	75
107)	1,2-Dichlorobenzene	7.422	146	297299	94.80	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	42177	98.80	ug/L	#	44
109)	Hexachlorobutadiene	8.507	225	78463	87.51	ug/L		92
110)	1,2,4-Trichlorobenzene	8.500	180	182723	95.89	ug/L		98
111)	Naphthalene	8.707	128	506407	97.48	ug/L		100
112)	1,2,3-Trichlorobenzene	8.838	180	164504	96.67	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration



Manual Integration Approval Summary

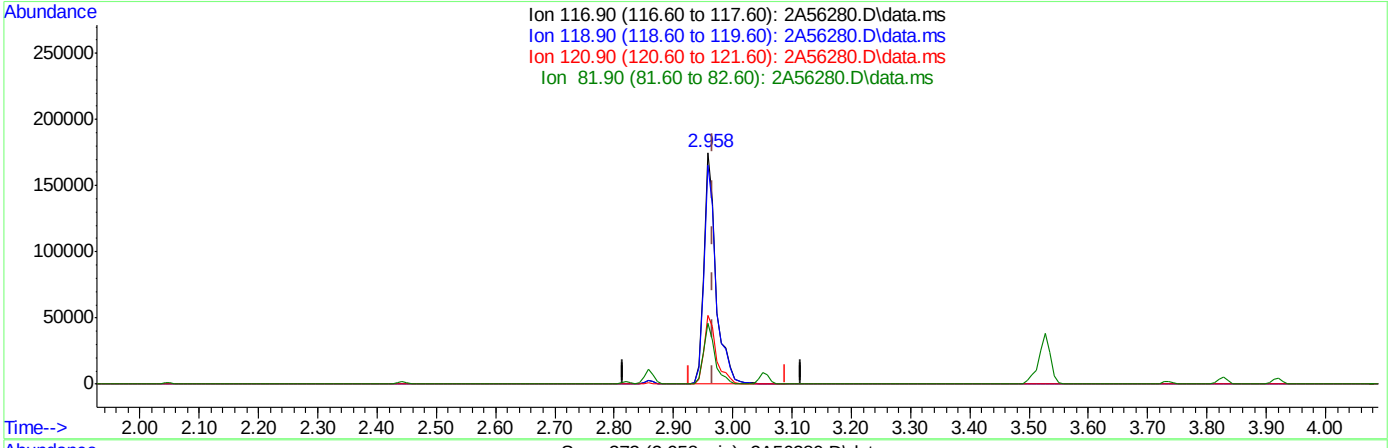
Sample Number: V2A1910-IC1910
Lab FileID: 2A56280.D
Injection Time: 06/25/24 11:51
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

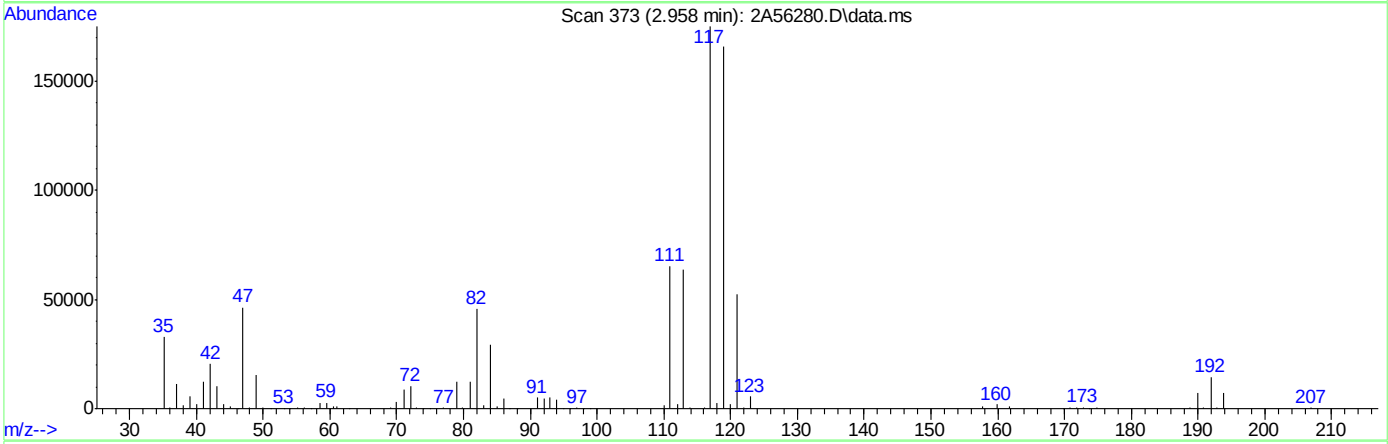
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.72	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 104.49ug/L

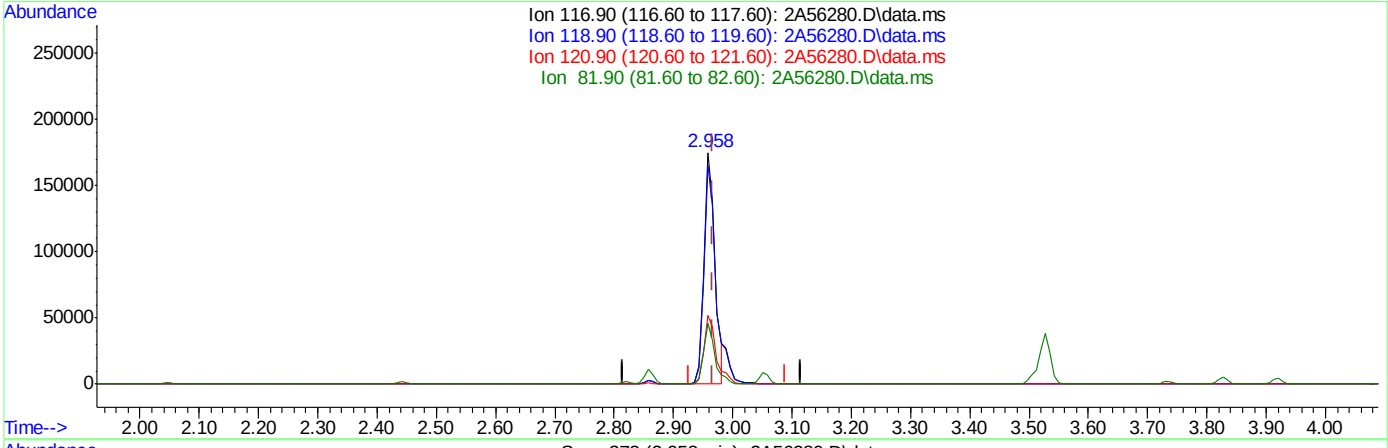
response 249403

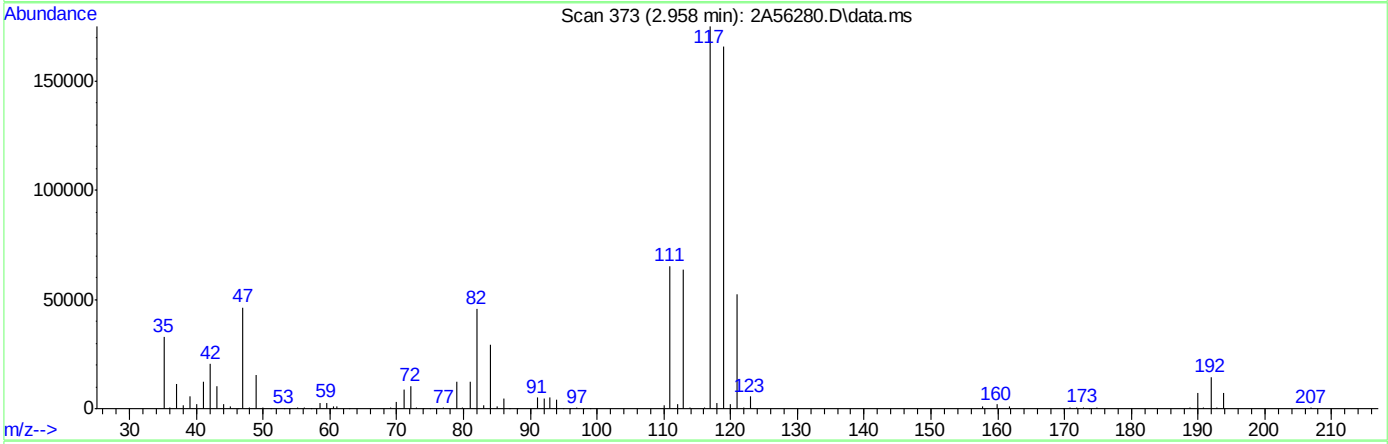
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.66
120.90	31.00	29.89
81.90	19.00	26.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 95.08ug/L m

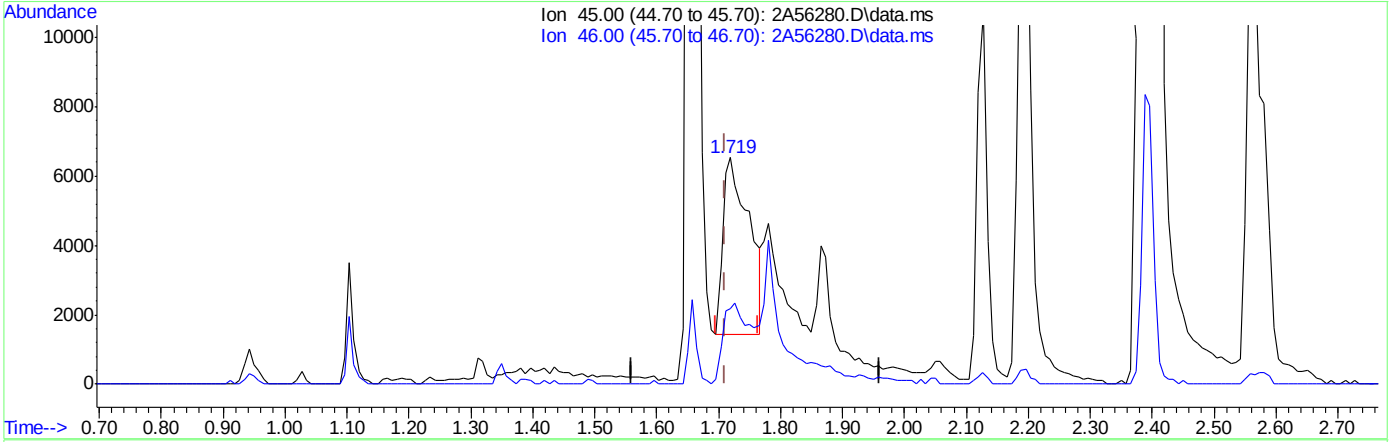
response 226959

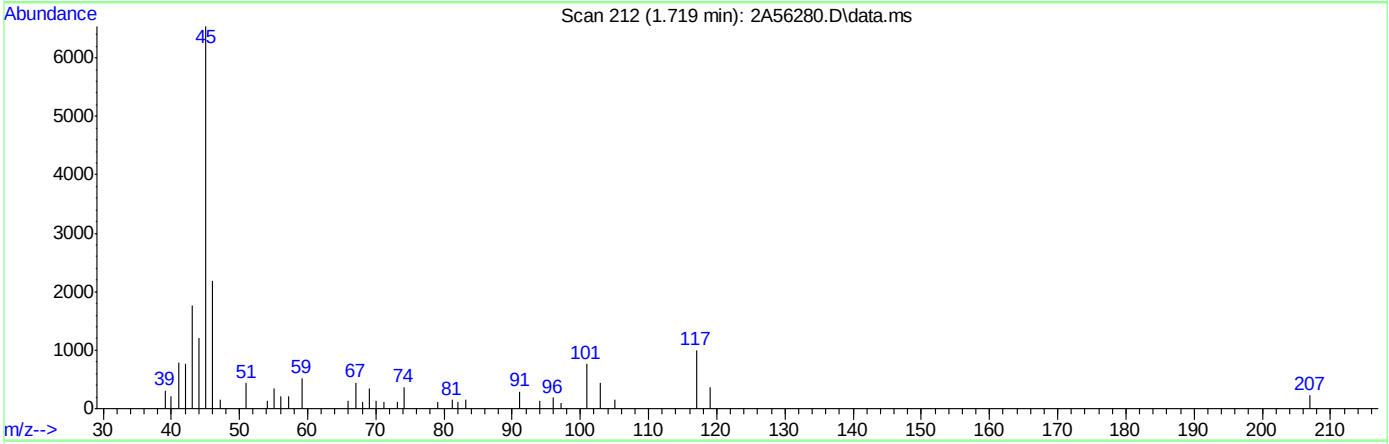
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.66
120.90	31.00	29.89
81.90	19.00	26.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(10) Ethanol

1.719min (+0.008) 798.30ug/L

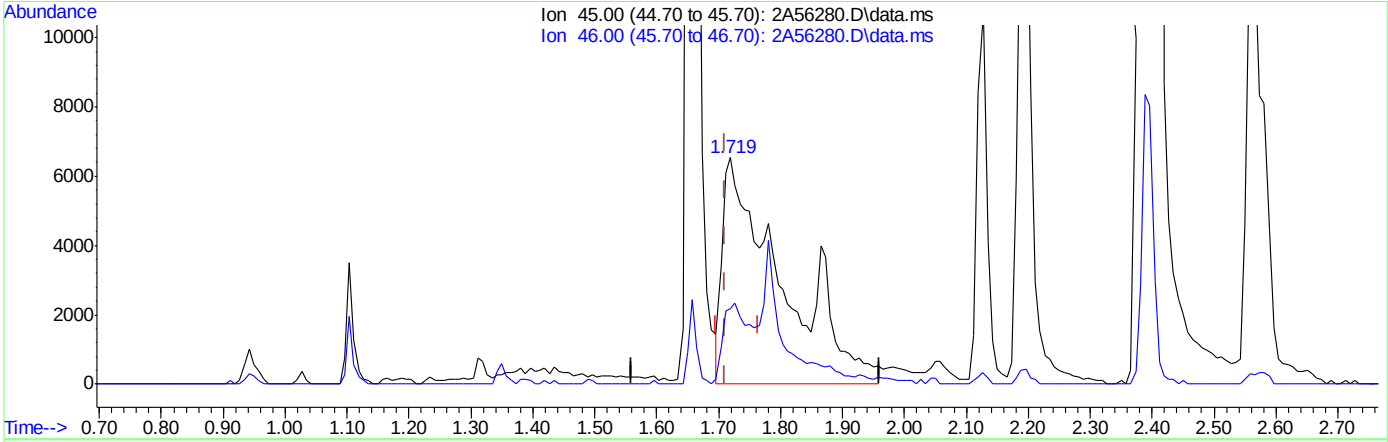
response 14779

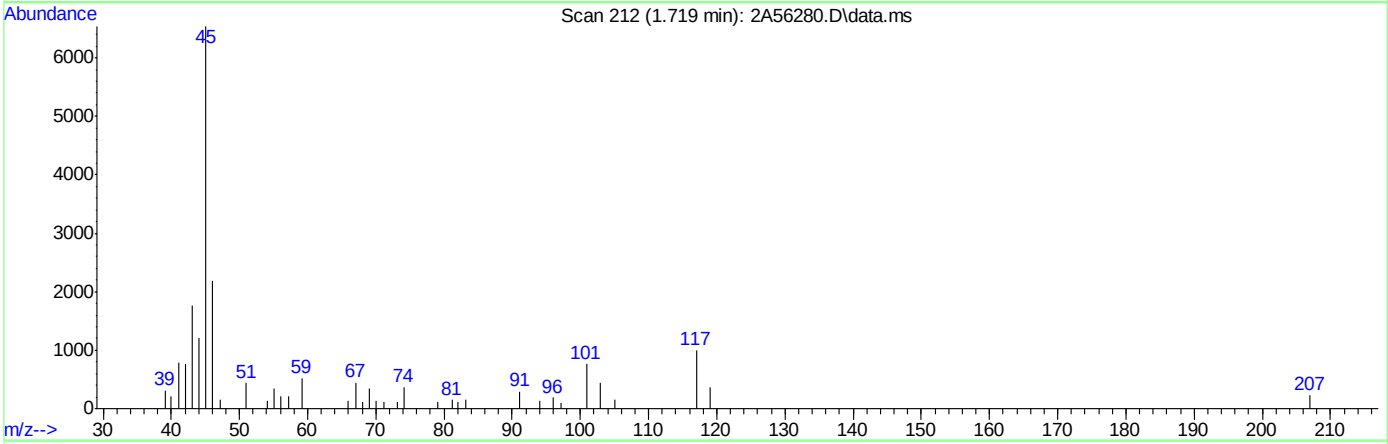
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	40.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(10) Ethanol

1.719min (+0.008) 2349.36ug/L m

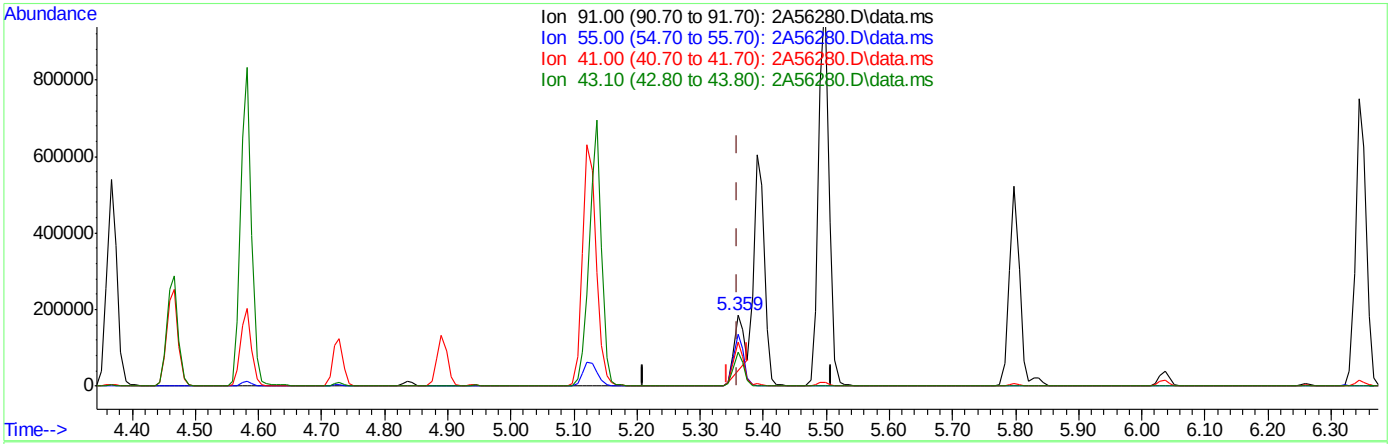
response 43494

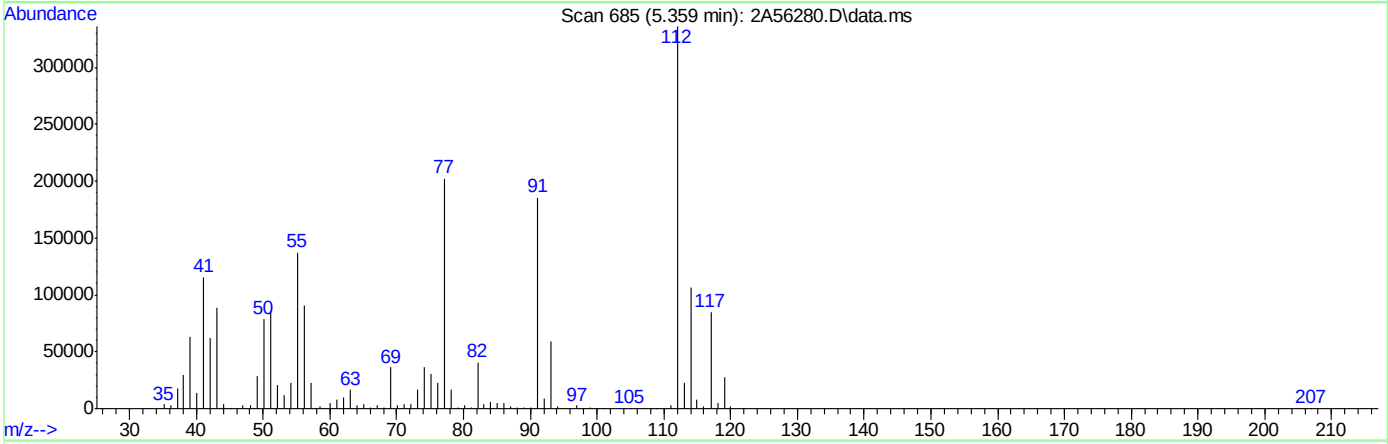
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	33.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 60.44ug/L

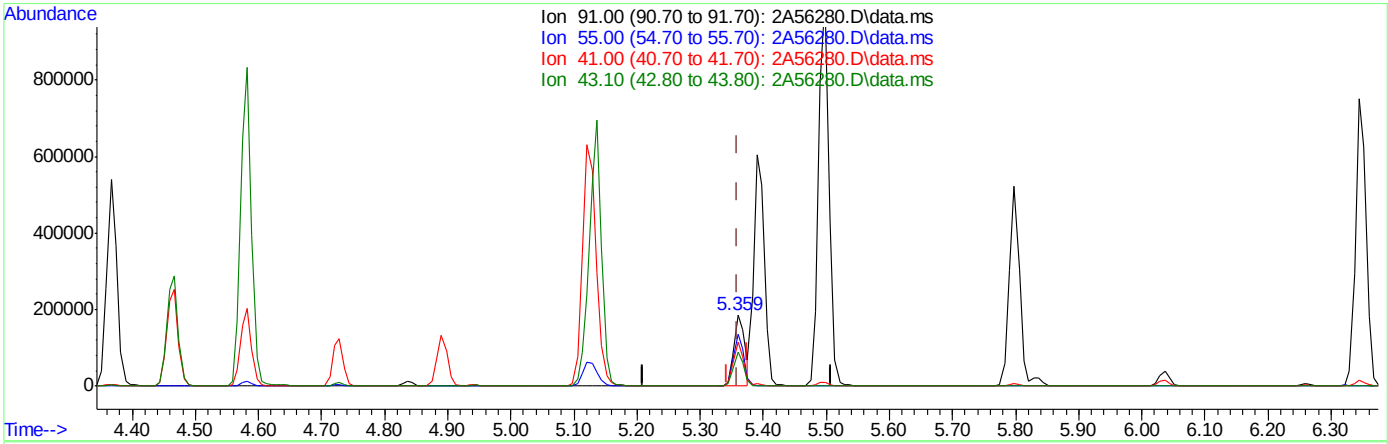
response 154309

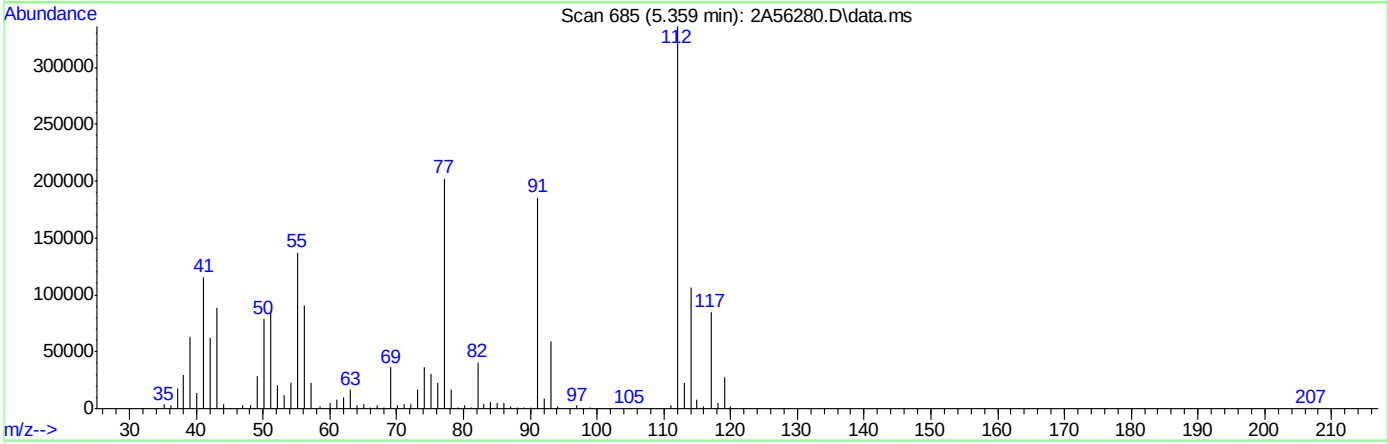
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	71.52
41.00	39.20	60.52#
43.10	33.20	46.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 88.21ug/L m

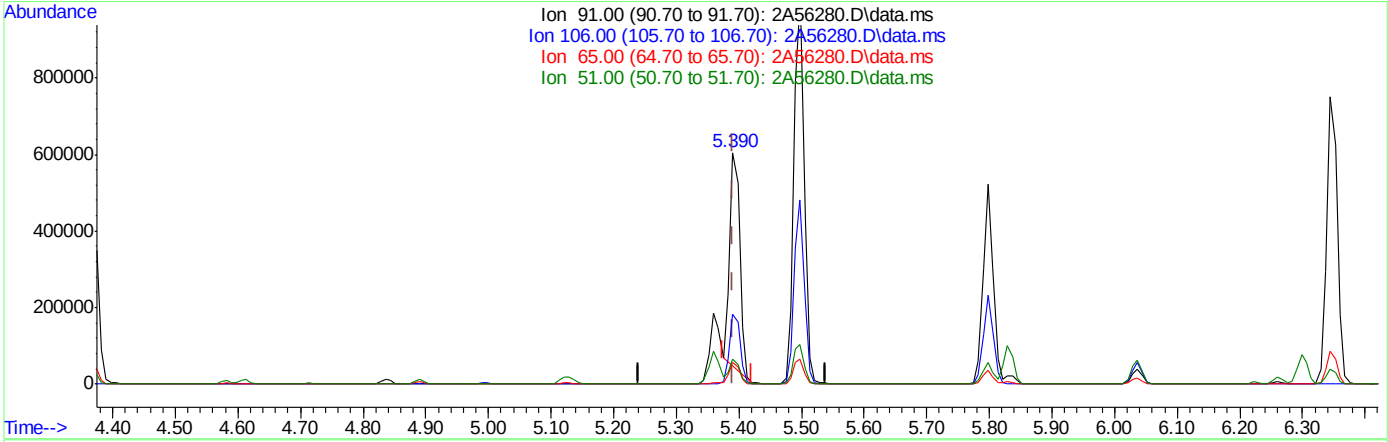
response 225210

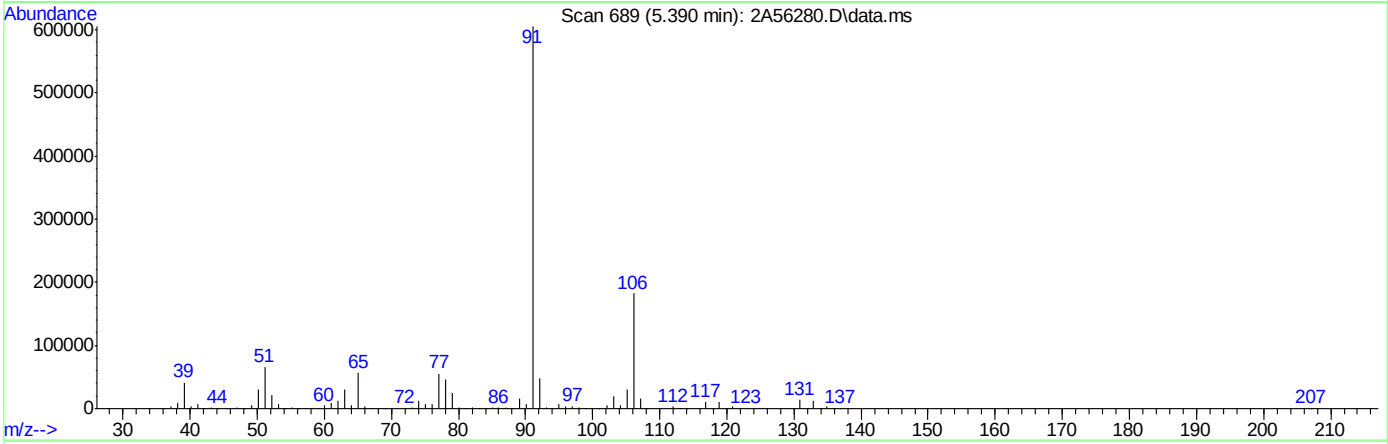
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.74
41.00	39.20	62.26#
43.10	33.20	47.69

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 78.53ug/L

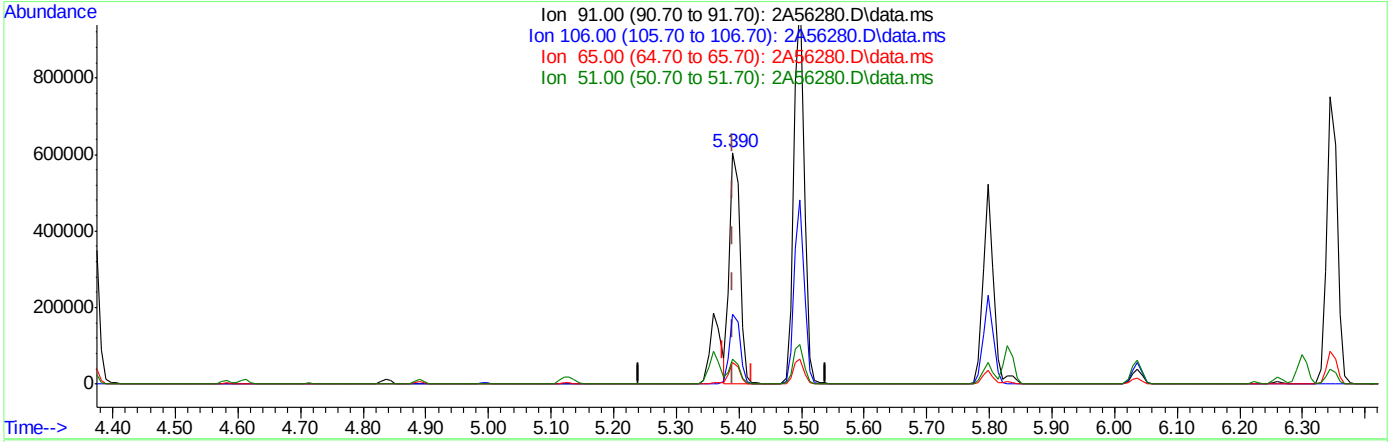
response 610503

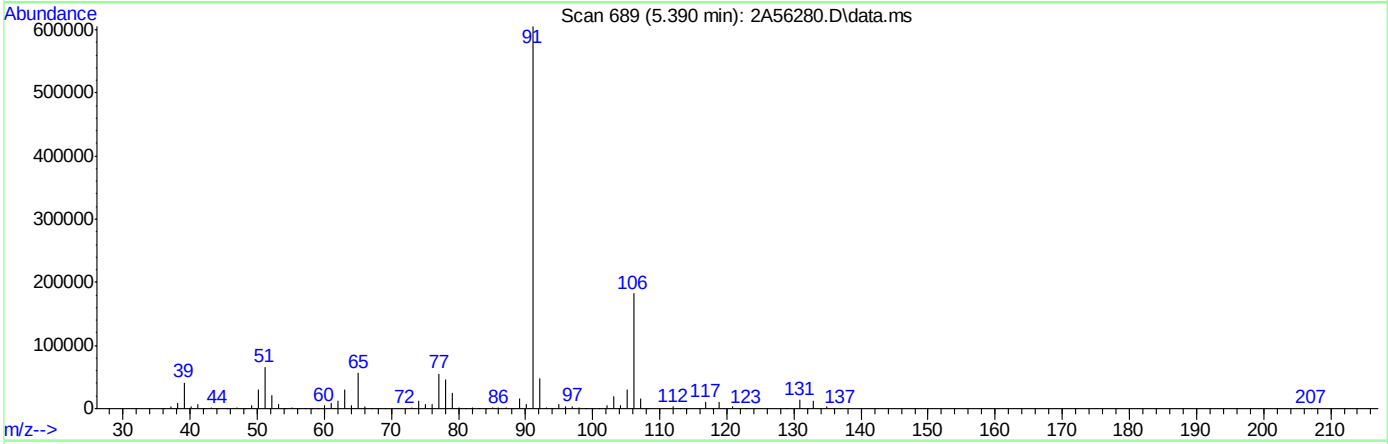
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.14
65.00	7.10	9.29
51.00	7.10	10.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 91.61ug/L m

response 712180

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.18
65.00	7.10	9.30
51.00	7.10	10.89

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	304169	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	222230	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	133491	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	87055	49.57	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%				
49) 1,2-Dichloroethane-d4	3.235	65	106647	50.66	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.32%				
63) Toluene-d8	4.336	98	301477	50.04	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.08%				
86) 4-Bromofluorobenzene	6.229	174	105201	49.80	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	65203	43.37	ug/L		97
3) Chloromethane	1.134	50	66489	38.42	ug/L		98
4) 1,3-butadiene	1.188	39	74593	37.11	ug/L	#	77
5) Vinyl Chloride	1.180	62	66443	37.98	ug/L		98
6) Bromomethane	1.350	94	27243	35.82	ug/L		98
7) Chloroethane	1.419	64	35253	39.27	ug/L		96
8) Trichlorofluoromethane	1.496	101	93025	40.01	ug/L		100
9) Ethyl Ether	1.657	59	45722	36.93	ug/L		88
10) Ethanol	1.711	45	13336m	702.30	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	67238	56.25	ug/L		93
12) 1,1-Dichloroethene	1.765	61	88547	37.45	ug/L		89
13) Freon 113	1.788	101	55673	39.77	ug/L	#	88
14) Carbon Disulfide	1.788	76	141625	33.32	ug/L		85
15) Iodomethane	1.834	142	38219	33.89	ug/L		92
16) Acrolein	1.911	56	68533	235.77	ug/L		96
17) Allyl chloride	1.996	41	90374	39.10	ug/L		80
18) Methylene Chloride	2.042	49	83543	38.63	ug/L	#	69
19) Acetone	2.050	43	121486	198.75	ug/L		82
20) Methyl acetate	2.127	43	303633	200.71	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	85977	36.61	ug/L	#	76
22) Hexane	2.196	56	53777	38.43	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	171107	40.15	ug/L		80
24) Acetonitrile	2.273	41	75586	368.57	ug/L		97
25) Tert Butyl Alcohol	2.212	59	90153	369.93	ug/L		60
26) Di-isopropyl ether	2.396	45	177537	36.84	ug/L		87
27) Chloroprene	2.442	53	244198	38.67	ug/L		92
28) 1,1-Dichloroethane	2.442	63	108129	36.05	ug/L		96
29) Acrylonitrile	2.442	52	144518	189.71	ug/L		95
30) ETBE	2.581	59	176490	38.66	ug/L		91
31) Vinyl acetate	2.558	43	805304	220.91	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	62356	37.83	ug/L	#	77
33) 2,2-Dichloropropane	2.781	77	93442	38.52	ug/L		95
34) Bromochloromethane	2.820	128	31813	37.70	ug/L	#	58
35) Cyclohexane	2.858	56	106842	38.38	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	110702	39.89	ug/L		94
37) Ethyl acetate	2.912	43	409591	205.02	ug/L		90
38) Tetrahydrofuran	2.943	42	26840	37.70	ug/L	#	80
40) Carbon Tetrachloride	2.958	117	90786m	39.17	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	96338	36.21	ug/L		95
42) 2-Butanone	3.004	43	190060	191.03	ug/L		83
43) 1,1-Dichloropropene	3.050	75	82578	39.40	ug/L	#	76
44) tert-Butyl formate	3.097	59	285364	228.95	ug/L		96
45) Propionitrile	3.143	54	109627	384.98	ug/L		98
46) Methacrylonitrile	3.166	41	467531	417.29	ug/L		94
47) Benzene	3.181	78	229366	37.29	ug/L		86
48) TAME	3.251	73	150312	37.67	ug/L		85
50) 1,2-Dichloroethane	3.274	62	87891	39.10	ug/L		96
51) Isobutyl Alcohol	3.251	43	120731	787.05	ug/L		82
52) Tert Amyl Alcohol	3.320	59	78359	402.68	ug/L		90
53) Trichloroethene	3.512	95	66486	37.91	ug/L		91
54) Methylcyclohexane	3.528	83	107609	39.63	ug/L		83
55) Dibromomethane	3.735	93	41520	39.05	ug/L		87
56) 1,2-Dichloropropane	3.789	63	63204	39.78	ug/L		88
57) Bromodichloromethane	3.828	83	81454	36.64	ug/L	#	96
58) Methyl methacrylate	3.920	41	62700	41.90	ug/L	#	70
59) 1,4-Dioxane	3.936	88	12897	840.93	ug/L		82
60) 2-Chloroethyl vinyl ether	4.166	63	221913	204.69	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	96216	39.90	ug/L		77
64) Toluene	4.367	91	249384	37.40	ug/L		99
65) 2-Nitropropane	4.467	41	126153	215.03	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	407752	204.94	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	85348	38.72	ug/L		82
68) Tetrachloroethene	4.628	166	66443	38.55	ug/L		95
69) Ethyl methacrylate	4.728	69	79955	40.49	ug/L	#	70
70) 1,1,2-Trichloroethane	4.713	83	46814	37.38	ug/L		88
71) Dibromochloromethane	4.836	129	64640	41.57	ug/L		99
72) 1,3-Dichloropropane	4.890	76	93971	43.14	ug/L		74
73) 1,2-Dibromoethane	4.990	107	61139	41.10	ug/L		92
74) 3,3-Dimethyl-1-Butanol	5.121	57	482452	1967.66	ug/L		94
75) 2-hexanone	5.136	43	399479	207.00	ug/L		74
76) 1-Chlorohexane	5.359	91	90767m	35.93	ug/L		
77) Ethylbenzene	5.390	91	288043m	37.29	ug/L		
78) Chlorobenzene	5.359	112	160292	37.16	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	57517	39.09	ug/L		99
80) m,p-Xylene	5.498	91	466621	73.87	ug/L		93
81) o-Xylene	5.798	91	241516	36.51	ug/L		91
82) Styrene	5.829	104	183306	38.43	ug/L		89
83) Bromoform	5.837	173	44238	40.12	ug/L		97
84) Isopropylbenzene	6.037	105	286765	36.81	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	23287	41.60	ug/L	#	78
88) n-Propylbenzene	6.344	91	357241	36.29	ug/L		88
89) Bromobenzene	6.306	156	73036	39.12	ug/L		84
90) 1,1,2,2-Tetrachloroethane	6.368	83	81234	36.96	ug/L		97
91) 1,3,5-Trimethylbenzene	6.498	105	245825	36.77	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

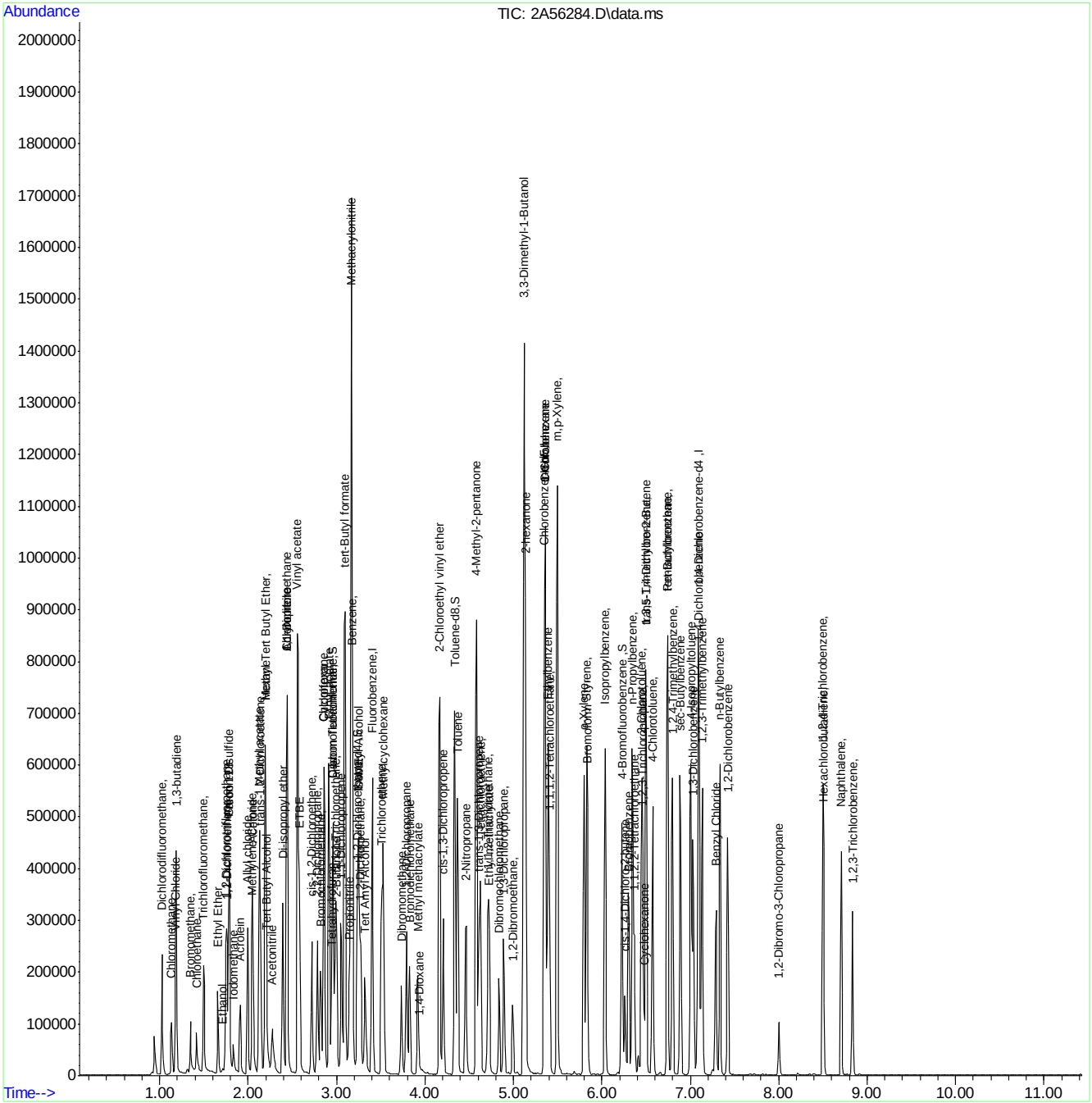
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	199603	36.74	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	30477	43.05	ug/L	#	64
94)	1,2,3-Trichloropropane	6.460	110	24210	42.05	ug/L	#	66
95)	Cyclohexanone	6.475	55	18581	282.05	ug/L	#	76
96)	4-Chlorotoluene	6.575	91	211151	36.29	ug/L		89
97)	tert-Butylbenzene	6.745	91	145129	36.09	ug/L		87
98)	1,2,4-Trimethylbenzene	6.799	105	234635	37.52	ug/L		97
99)	Pentachloroethane	6.745	167	41656	41.35	ug/L	#	76
100)	sec-Butylbenzene	6.883	105	296237	34.98	ug/L		92
101)	4-Isopropyltoluene	7.006	119	259019	36.02	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	133733	36.83	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	232462	37.50	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	136003	37.44	ug/L		89
105)	n-Butylbenzene	7.337	92	126717	38.53	ug/L		94
106)	Benzyl Chloride	7.291	126	34748	43.06	ug/L	#	78
107)	1,2-Dichlorobenzene	7.422	146	124559	38.24	ug/L		92
108)	1,2-Dibromo-3-Chloropr...	7.999	75	17656	39.62	ug/L	#	42
109)	Hexachlorobutadiene	8.507	225	34262	37.13	ug/L		91
110)	1,2,4-Trichlorobenzene	8.499	180	73523	37.10	ug/L		97
111)	Naphthalene	8.707	128	200756	37.08	ug/L		99
112)	1,2,3-Trichlorobenzene	8.838	180	65952	37.23	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

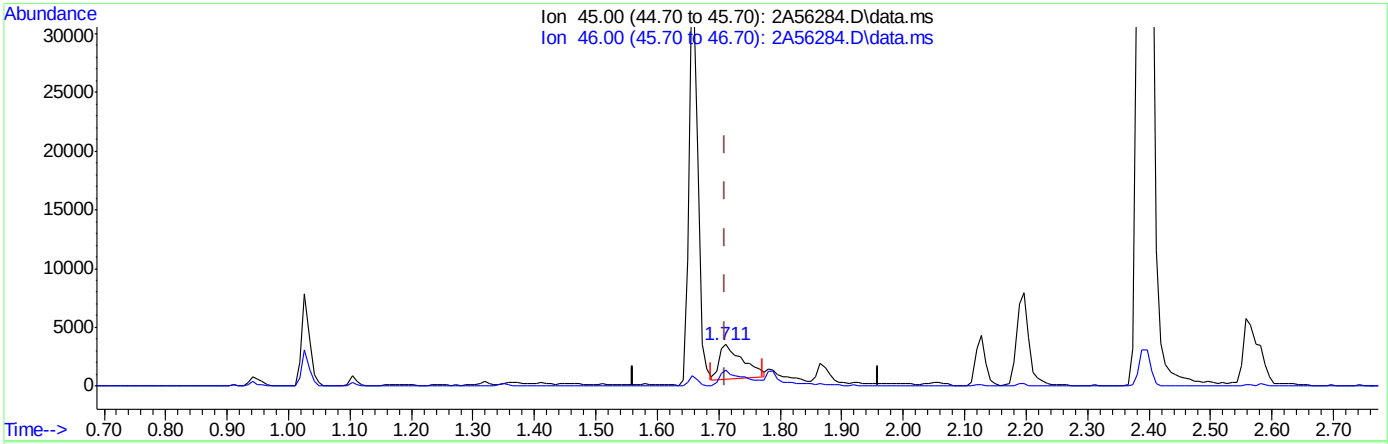
Sample Number: V2A1910-ICV1910 **Method:** SW846 8260D
Lab FileID: 2A56284.D **Analyst approved:** 06/25/24 13:54 Jenifer Willis
Injection Time: 06/25/24 13:01 **Supervisor approved:** 06/26/24 07:53 Karen Watson

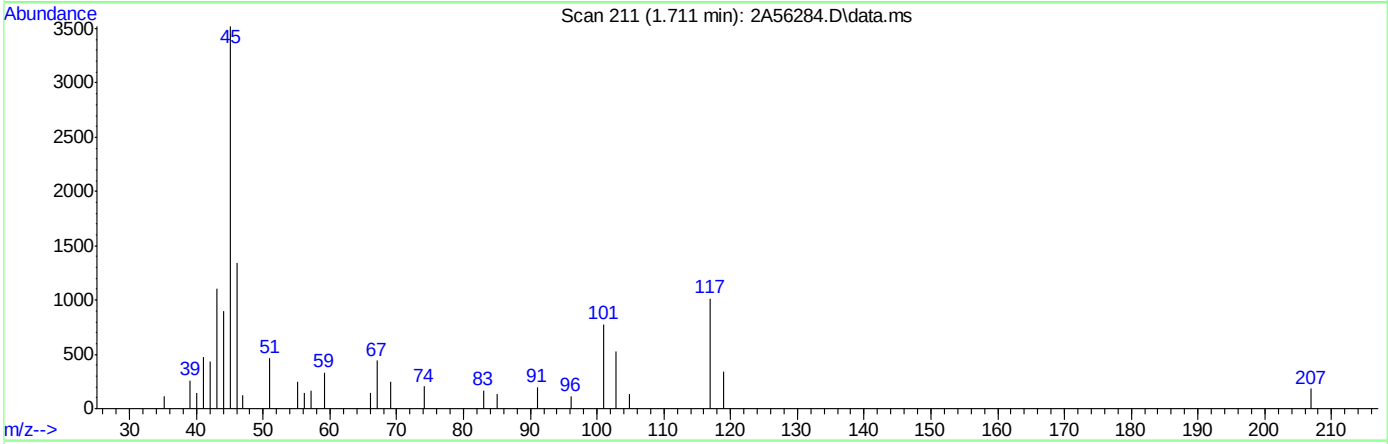
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 423.09ug/L

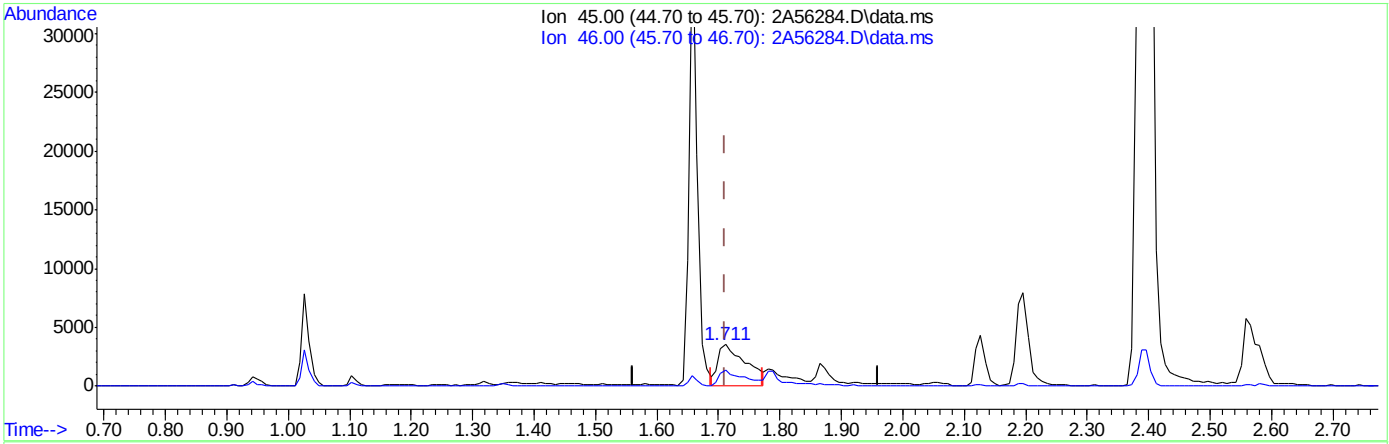
response 8034

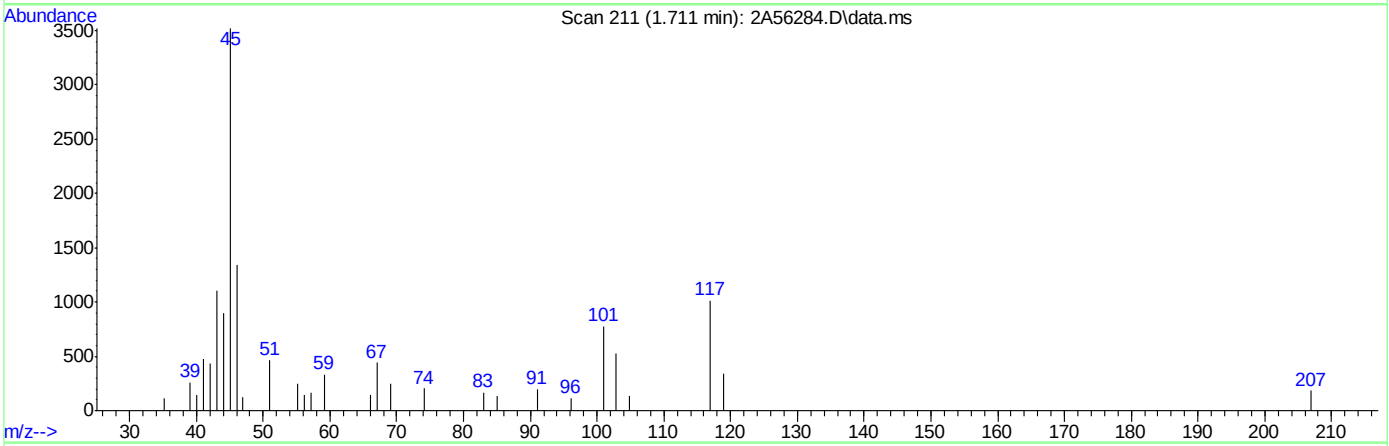
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	48.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 590.81ug/L m

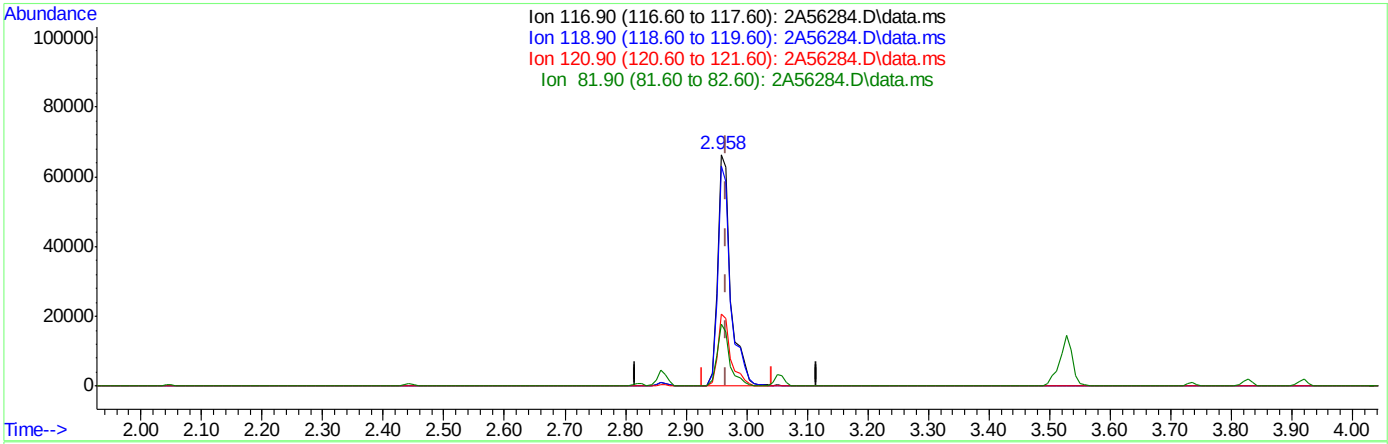
response 11219

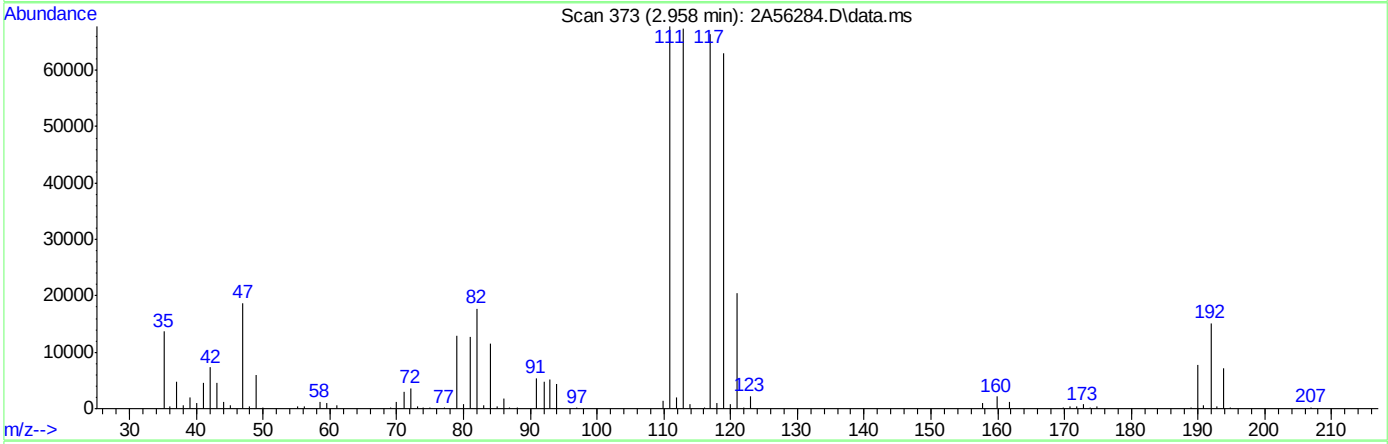
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 43.20ug/L

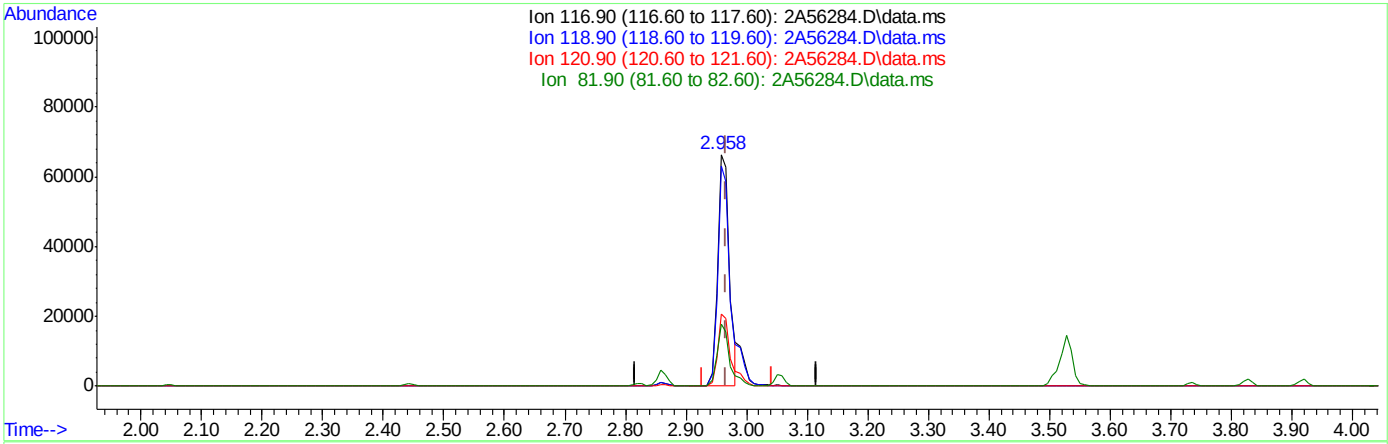
response 100146

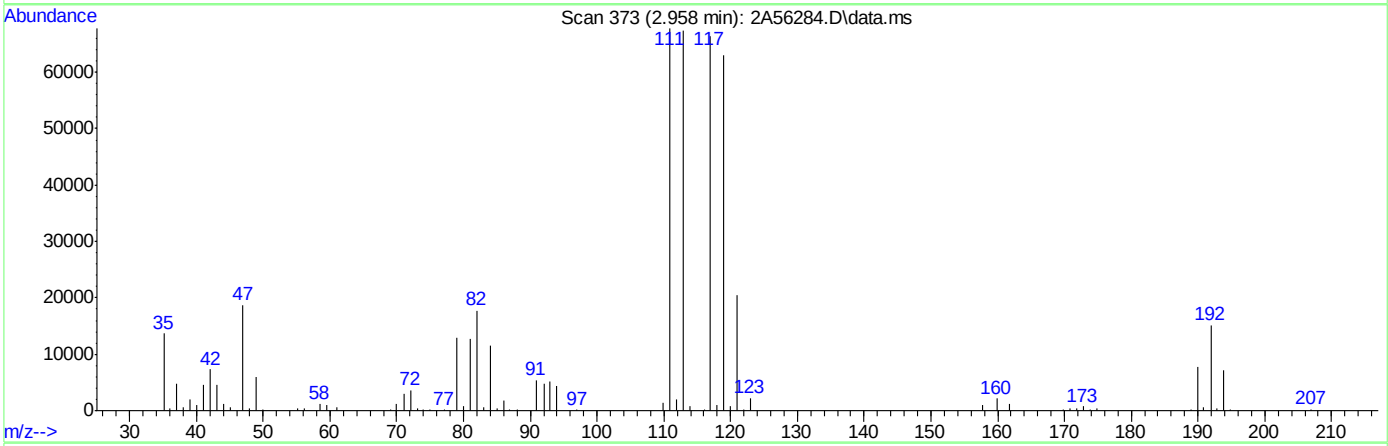
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.92
120.90	31.00	30.99
81.90	19.00	26.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 39.17ug/L m

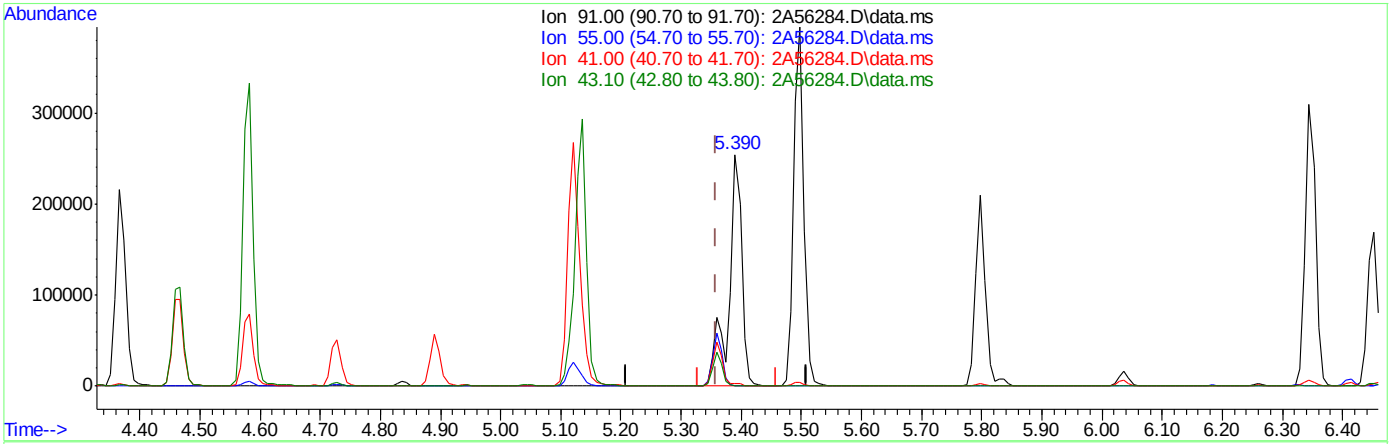
response 90786

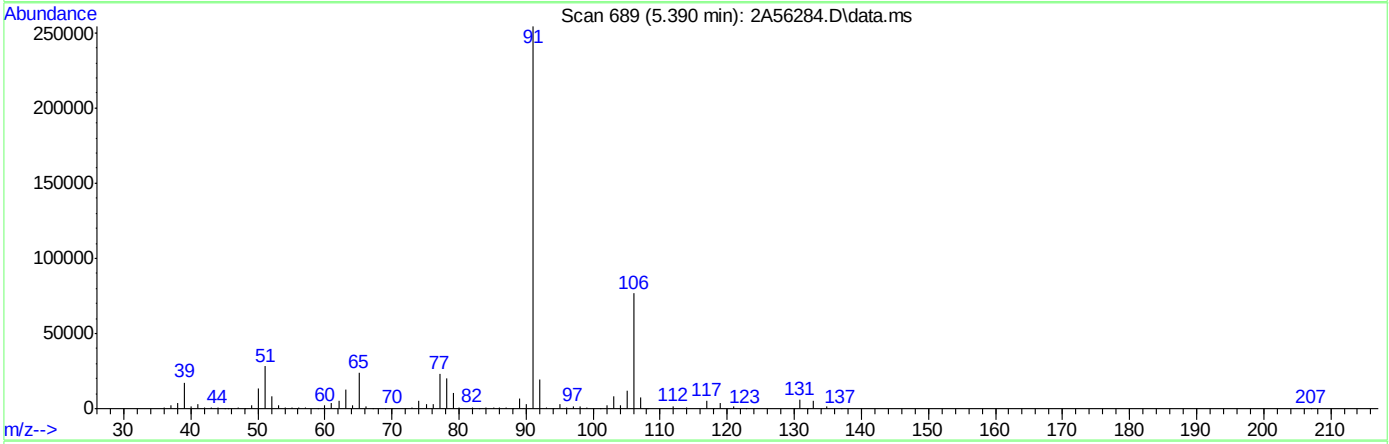
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.92
120.90	31.00	30.99
81.90	19.00	26.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 149.43ug/L

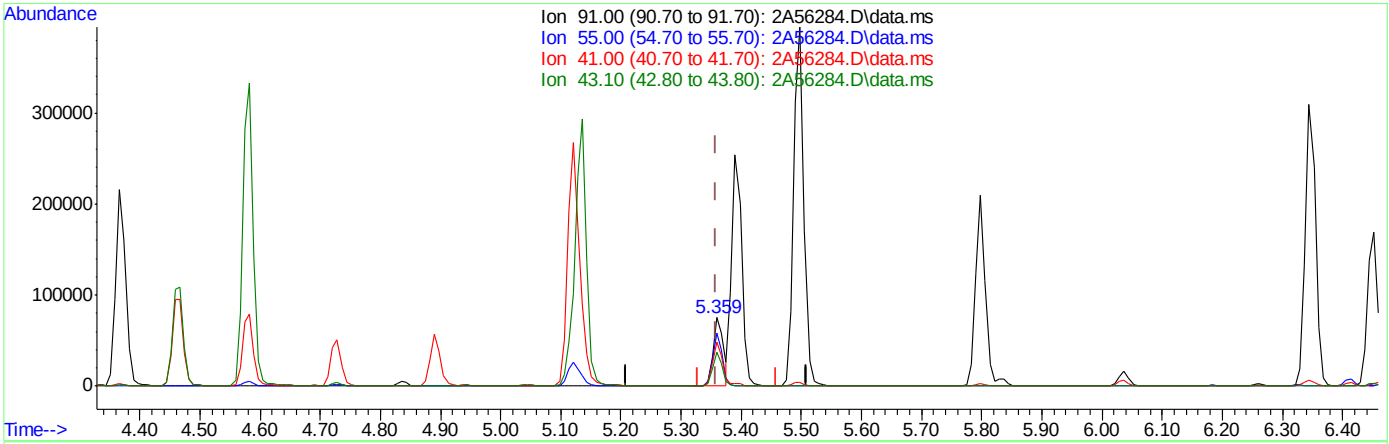
response 377447

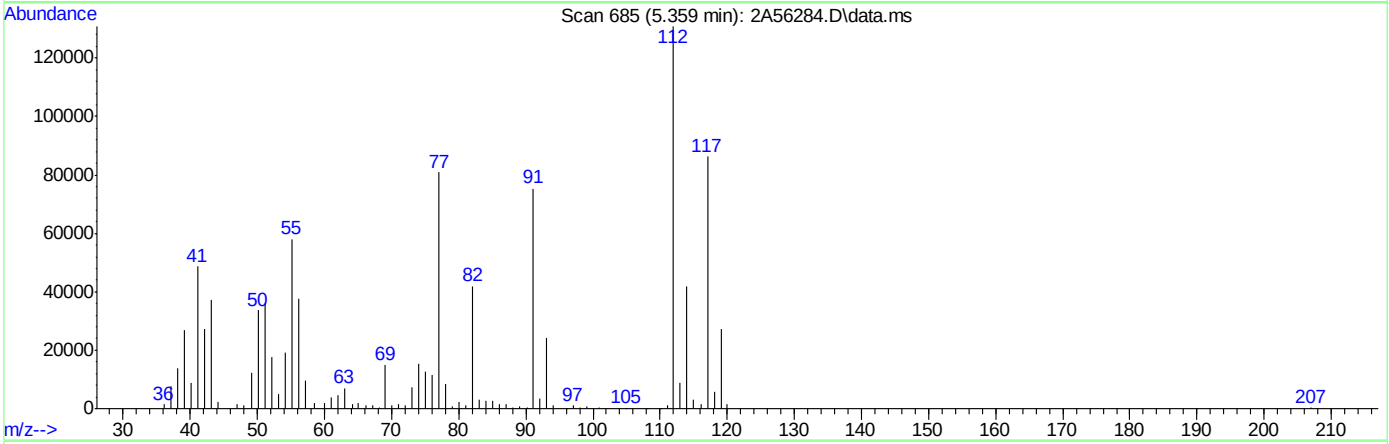
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.24#
41.00	39.20	1.04#
43.10	33.20	0.22#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 35.90ug/L m

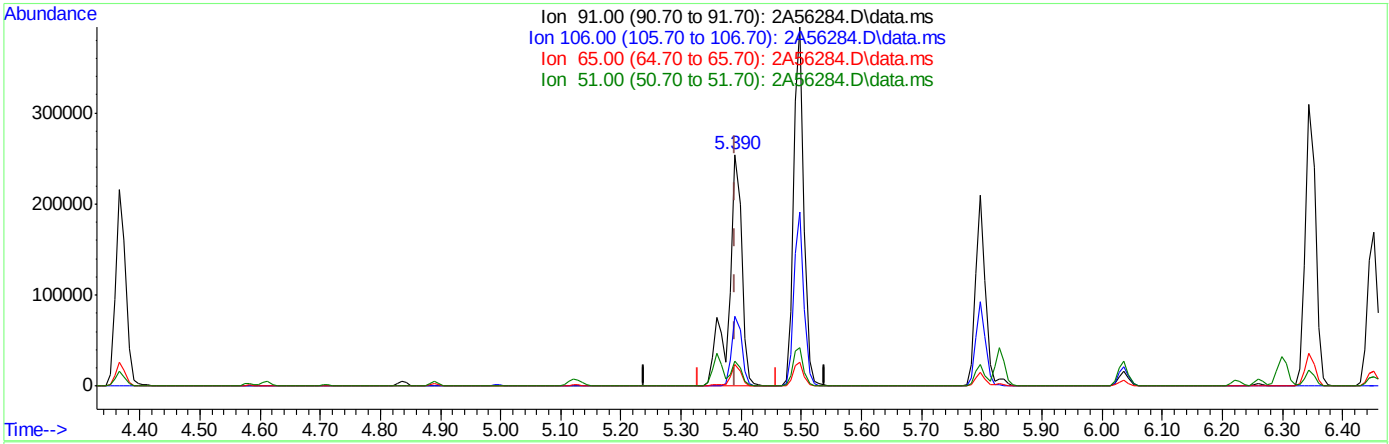
response 90686

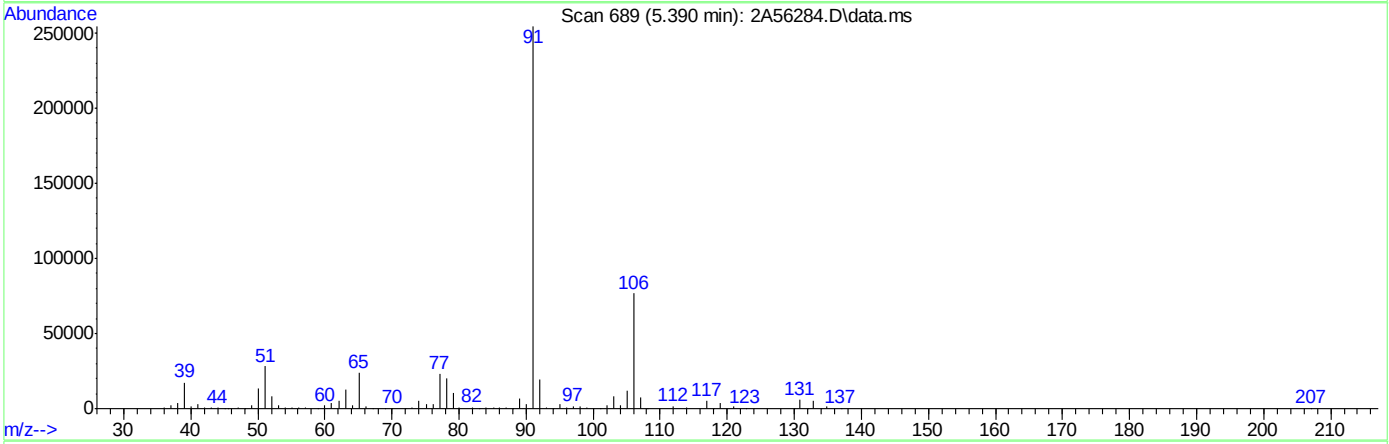
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.03
41.00	39.20	64.60#
43.10	33.20	49.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 48.86ug/L

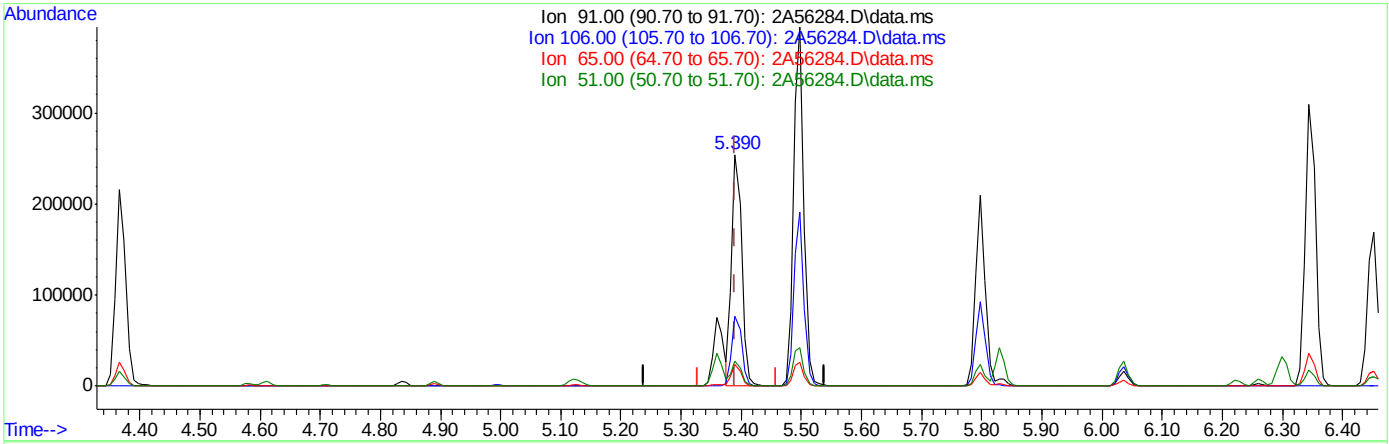
response 377447

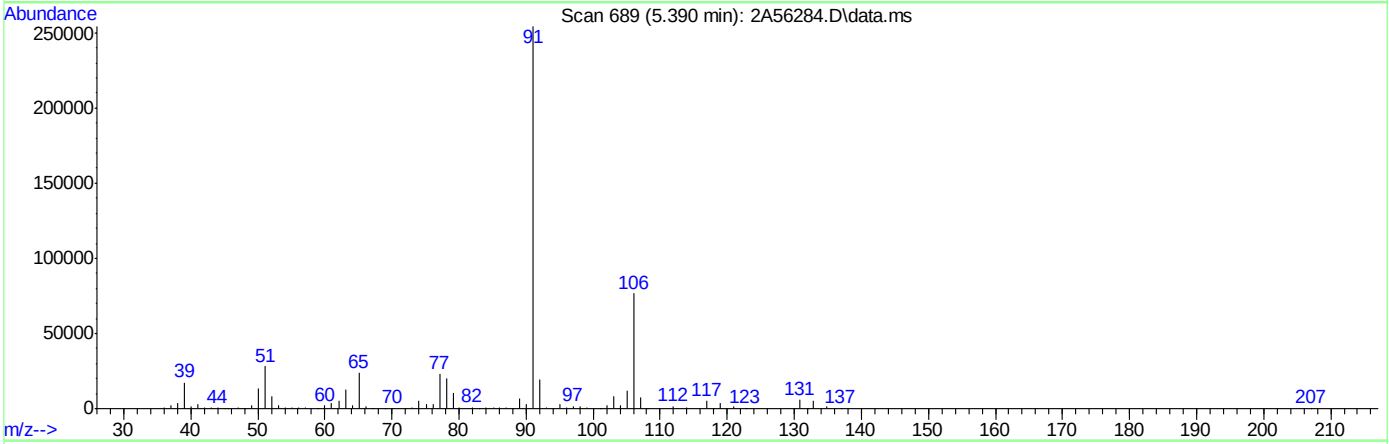
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.21
65.00	7.10	9.26
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 37.27ug/L m

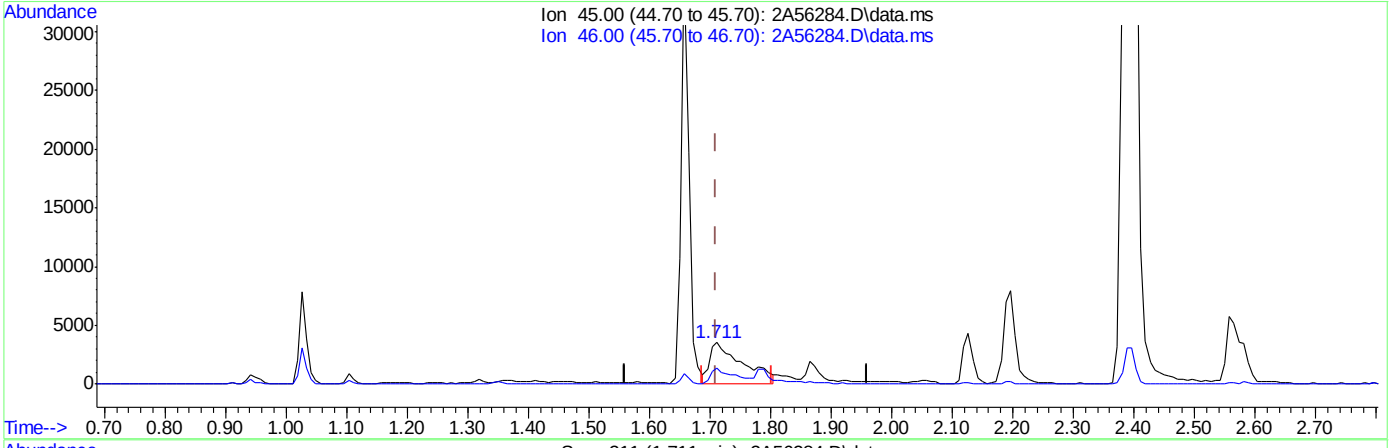
response 287896

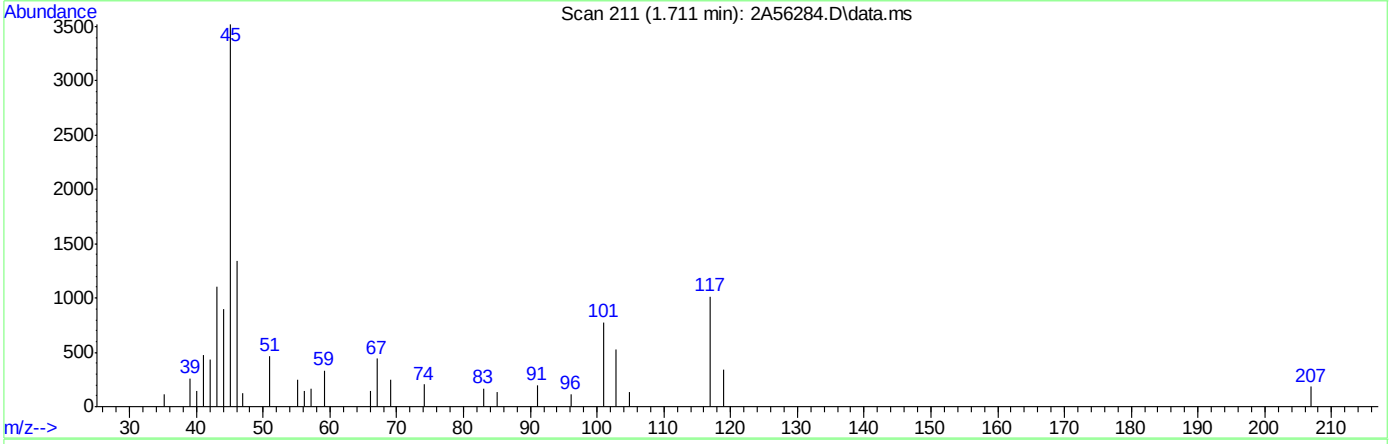
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.20
65.00	7.10	9.26
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 702.30ug/L m

response 13336

Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:28:21 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	294494	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	208314	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	122444	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.951	113	81171	47.74	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.48%				
49) 1,2-Dichloroethane-d4	3.236	65	99523	48.83	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.66%				
63) Toluene-d8	4.336	98	290375	51.42	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.84%				
86) 4-Bromofluorobenzene	6.229	174	96110	49.60	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.027	85	33611	23.09	ug/L		97
3) Chloromethane	1.134	50	39200	23.39	ug/L		98
4) 1,3-butadiene	1.188	39	48589	24.21	ug/L	#	77
5) Vinyl Chloride	1.173	62	40485	23.90	ug/L		97
6) Bromomethane	1.350	94	18174	24.68	ug/L		98
7) Chloroethane	1.419	64	22214	24.30	ug/L		96
8) Trichlorofluoromethane	1.496	101	55929	24.85	ug/L		99
9) Ethyl Ether	1.658	59	27675	23.09	ug/L		90
10) Ethanol	1.712	45	9866m	536.63	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	29372	25.38	ug/L		96
12) 1,1-Dichloroethene	1.758	61	53935	23.56	ug/L		83
13) Freon 113	1.789	101	33107	24.43	ug/L		88
14) Carbon Disulfide	1.781	76	105143	25.55	ug/L		80
15) Iodomethane	1.835	142	23313	22.02	ug/L		92
16) Acrolein	1.912	56	35320	125.50	ug/L		99
17) Allyl chloride	1.996	41	55998	25.02	ug/L		79
18) Methylene Chloride	2.043	49	49190	23.49	ug/L	#	68
19) Acetone	2.050	43	77031	130.16	ug/L		81
20) Methyl acetate	2.127	43	179781	122.74	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	52718	23.19	ug/L	#	75
22) Hexane	2.196	56	32955	24.32	ug/L	#	81
23) Methyl Tert Butyl Ether	2.196	73	99129	24.02	ug/L		72
24) Acetonitrile	2.273	41	53161	267.74	ug/L		98
25) Tert Butyl Alcohol	2.212	59	62647	265.51	ug/L		72
26) Di-isopropyl ether	2.397	45	109932	23.56	ug/L		87
27) Chloroprene	2.435	53	153405	25.09	ug/L		88
28) 1,1-Dichloroethane	2.443	63	66955	23.05	ug/L		97
29) Acrylonitrile	2.435	52	93346	126.56	ug/L		94
30) ETBE	2.581	59	106212	24.03	ug/L		90
31) Vinyl acetate	2.558	43	471325	133.54	ug/L		97
32) cis-1,2-Dichloroethene	2.720	96	38004	23.44	ug/L	#	77
33) 2,2-Dichloropropane	2.781	77	53795	22.91	ug/L		94
34) Bromochloromethane	2.820	128	18394	22.52	ug/L	#	57
35) Cyclohexane	2.858	56	64800	24.04	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:28:21 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	66402	24.71	ug/L		93
37) Ethyl acetate	2.912	43	254119	131.38	ug/L		89
38) Tetrahydrofuran	2.943	42	17814	25.84	ug/L	#	81
40) Carbon Tetrachloride	2.958	117	53985m	24.05	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	57926	22.49	ug/L		93
42) 2-Butanone	3.005	43	131727	136.75	ug/L		82
43) 1,1-Dichloropropene	3.051	75	48930	24.11	ug/L	#	76
44) tert-Butyl formate	3.097	59	170840	141.57	ug/L		94
45) Propionitrile	3.143	54	71204	258.26	ug/L		98
46) Methacrylonitrile	3.166	41	283689	261.53	ug/L		94
47) Benzene	3.182	78	139674	23.46	ug/L		89
48) TAME	3.251	73	93639	24.24	ug/L		82
50) 1,2-Dichloroethane	3.274	62	50930	23.40	ug/L		96
51) Isobutyl Alcohol	3.259	43	80604	542.72	ug/L		95
52) Tert Amyl Alcohol	3.320	59	52902	280.79	ug/L		88
53) Trichloroethene	3.513	95	40064	23.59	ug/L		89
54) Methylcyclohexane	3.528	83	63368	24.10	ug/L		82
55) Dibromomethane	3.736	93	24355	23.66	ug/L		84
56) 1,2-Dichloropropane	3.790	63	34959	22.72	ug/L		90
57) Bromodichloromethane	3.828	83	47874	22.24	ug/L	#	96
58) Methyl methacrylate	3.920	41	37835	26.12	ug/L	#	68
59) 1,4-Dioxane	3.936	88	7591	511.22	ug/L		88
60) 2-Chloroethyl vinyl ether	4.167	63	134034	127.69	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	55036	23.57	ug/L		77
64) Toluene	4.367	91	149731	23.96	ug/L		100
65) 2-Nitropropane	4.467	41	74873	136.15	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	249009	133.51	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	52684	25.50	ug/L		83
68) Tetrachloroethene	4.629	166	40259	24.92	ug/L		96
69) Ethyl methacrylate	4.729	69	46544	25.14	ug/L	#	70
70) 1,1,2-Trichloroethane	4.713	83	27904	23.77	ug/L		84
71) Dibromochloromethane	4.836	129	36547	25.07	ug/L		100
72) 1,3-Dichloropropane	4.890	76	51601	25.27	ug/L		76
73) 1,2-Dibromoethane	4.990	107	36059	25.86	ug/L		93
74) 3,3-Dimethyl-1-Butanol	5.121	57	309304	1345.76	ug/L		94
75) 2-hexanone	5.137	43	244416	135.11	ug/L		75
76) 1-Chlorohexane	5.360	91	53217m	22.48	ug/L		
77) Ethylbenzene	5.390	91	173399m	23.95	ug/L		
78) Chlorobenzene	5.360	112	94170	23.29	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	33875	24.56	ug/L		98
80) m,p-Xylene	5.498	91	277285	46.83	ug/L		93
81) o-Xylene	5.798	91	144643	23.33	ug/L		91
82) Styrene	5.837	104	103643	23.18	ug/L		90
83) Bromoform	5.837	173	26671	25.80	ug/L		96
84) Isopropylbenzene	6.037	105	168236	23.04	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	13304	25.91	ug/L	#	74
88) n-Propylbenzene	6.353	91	209498	23.20	ug/L		91
89) Bromobenzene	6.306	156	40065	23.40	ug/L	#	78
90) 1,1,2,2-Tetrachloroethane	6.368	83	48858	24.23	ug/L		97
91) 1,3,5-Trimethylbenzene	6.506	105	141160	23.02	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:28:21 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

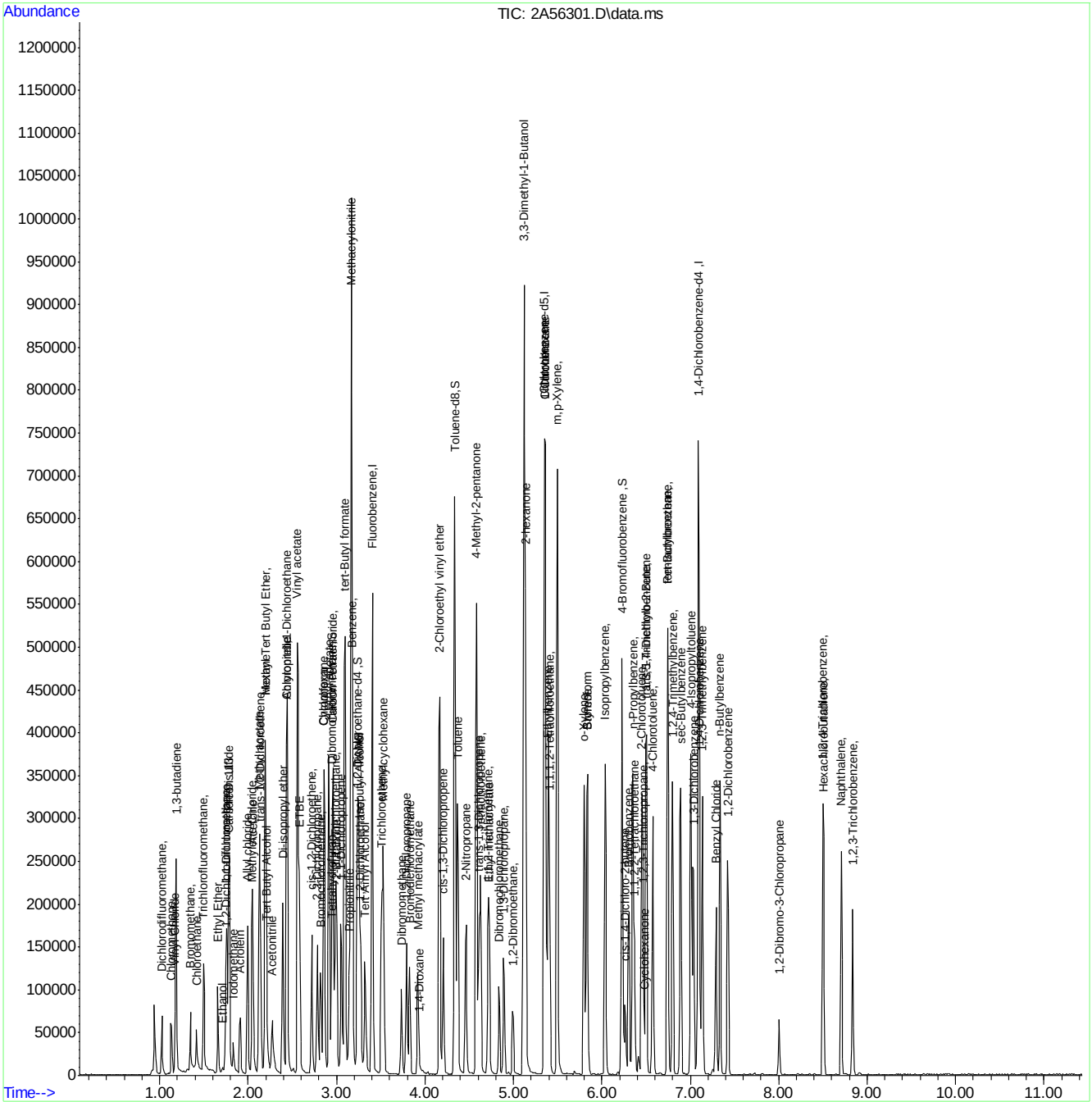
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.453	91	115134	23.10	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.499	53	16405	25.26	ug/L	#	61
94)	1,2,3-Trichloropropane	6.468	110	13584	25.72	ug/L		75
95)	Cyclohexanone	6.483	55	8492	140.53	ug/L		82
96)	4-Chlorotoluene	6.576	91	121897	22.84	ug/L		88
97)	tert-Butylbenzene	6.745	91	84110	22.80	ug/L		84
98)	1,2,4-Trimethylbenzene	6.799	105	133123	23.21	ug/L		96
99)	Pentachloroethane	6.745	167	24044	26.02	ug/L	#	82
100)	sec-Butylbenzene	6.891	105	176623	22.74	ug/L		94
101)	4-Isopropyltoluene	7.007	119	149382	22.65	ug/L		94
102)	1,3-Dichlorobenzene	7.038	146	77780	23.35	ug/L		95
103)	1,2,3-Trimethylbenzene	7.138	105	133070	23.40	ug/L		96
104)	1,4-Dichlorobenzene	7.107	146	77622	23.30	ug/L		96
105)	n-Butylbenzene	7.338	92	67959	22.53	ug/L		94
106)	Benzyl Chloride	7.292	126	19893	26.87	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	70251	23.51	ug/L		89
108)	1,2-Dibromo-3-Chloropr...	8.007	75	10783	26.38	ug/L	#	58
109)	Hexachlorobutadiene	8.508	225	19567	23.12	ug/L		90
110)	1,2,4-Trichlorobenzene	8.500	180	42873	23.59	ug/L		97
111)	Naphthalene	8.708	128	121739	24.52	ug/L		100
112)	1,2,3-Trichlorobenzene	8.838	180	38312	23.58	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:28:21 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2A1911-CC1910
Lab FileID: 2A56301.D
Injection Time: 06/26/24 07:56

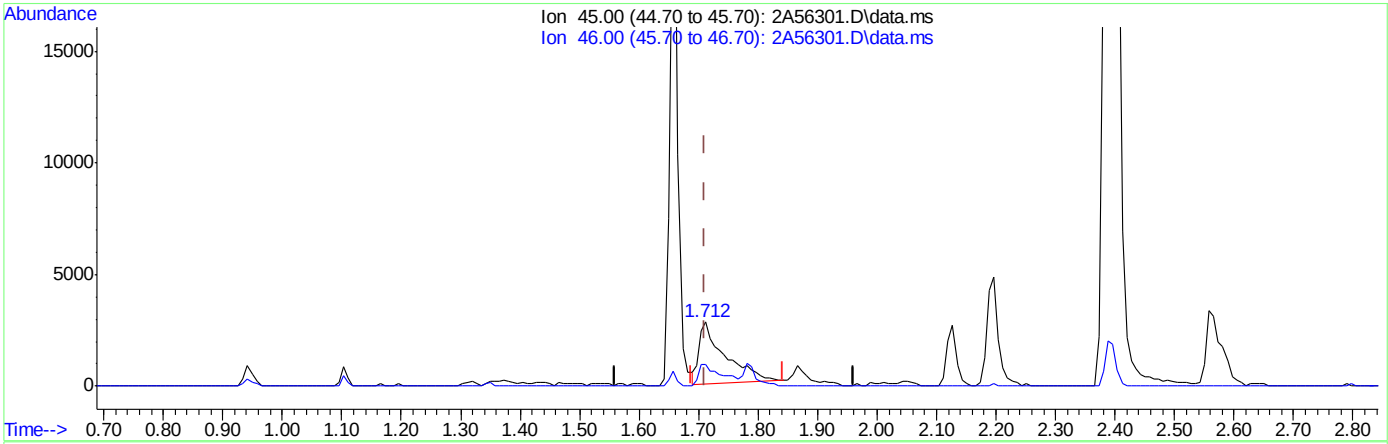
Method: SW846 8260D
Analyst approved: 06/26/24 08:37 Jenifer Willis
Supervisor approved: 06/27/24 08:22 Karen Watson

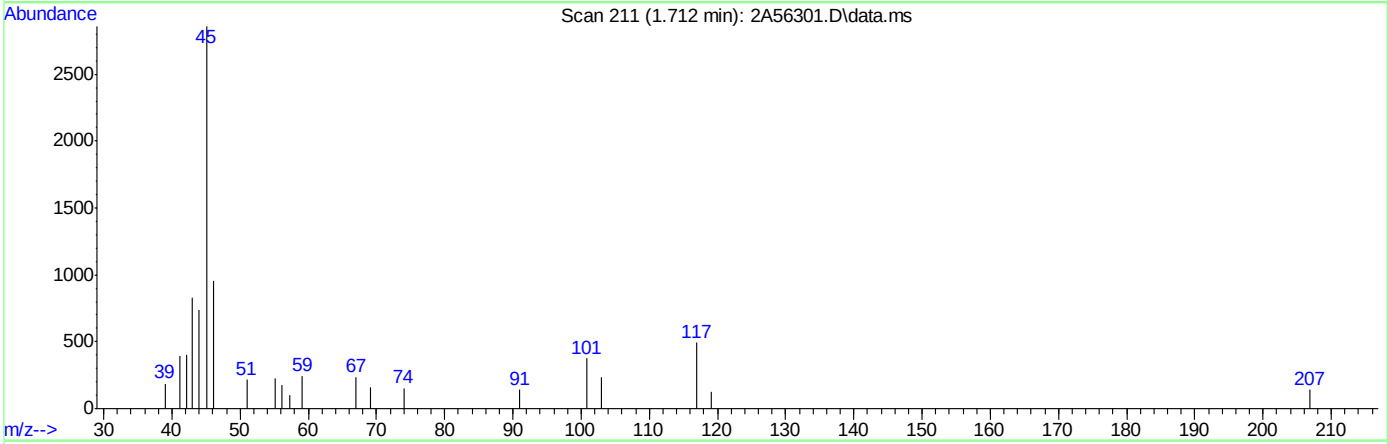
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(10) Ethanol

1.712min (+0.001) 450.91ug/L

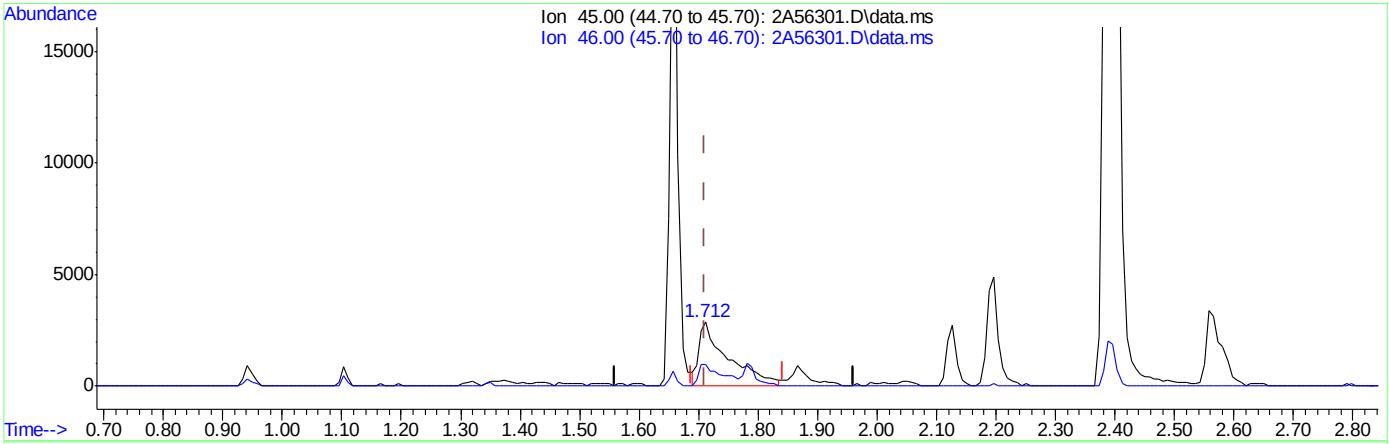
response 8290

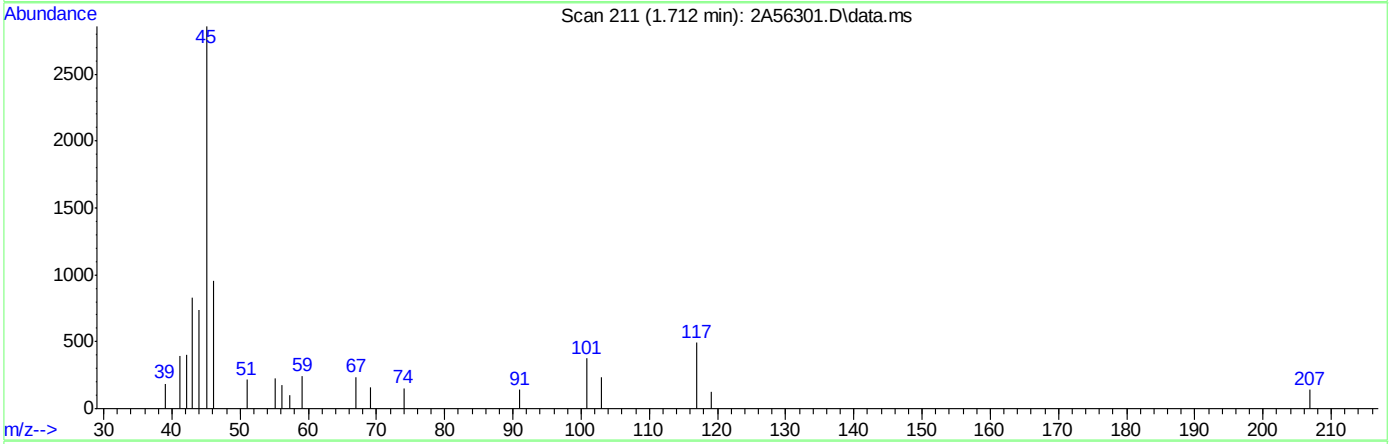
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	37.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(10) Ethanol

1.712min (+0.001) 536.63ug/L m

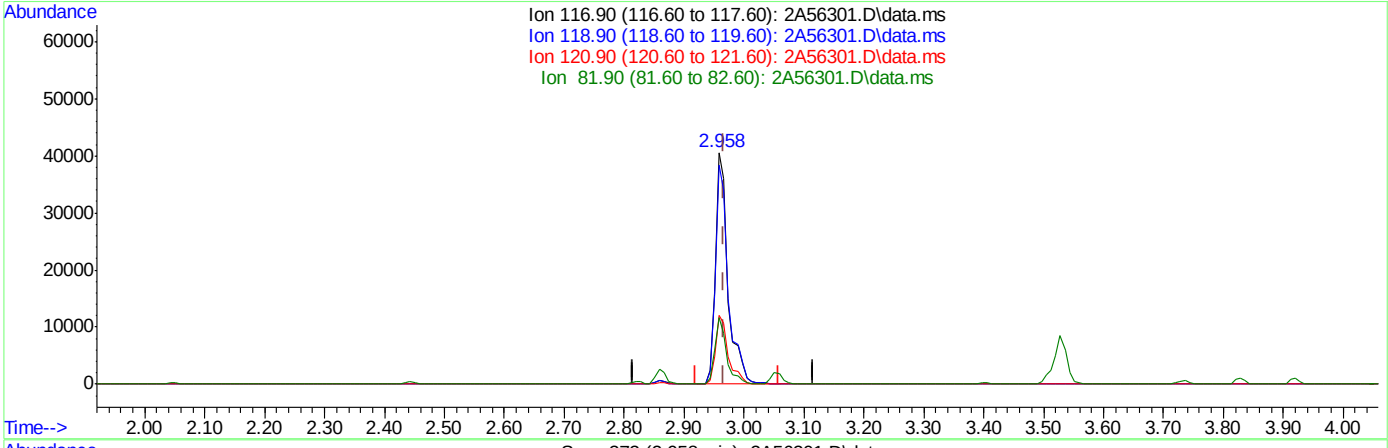
response 9866

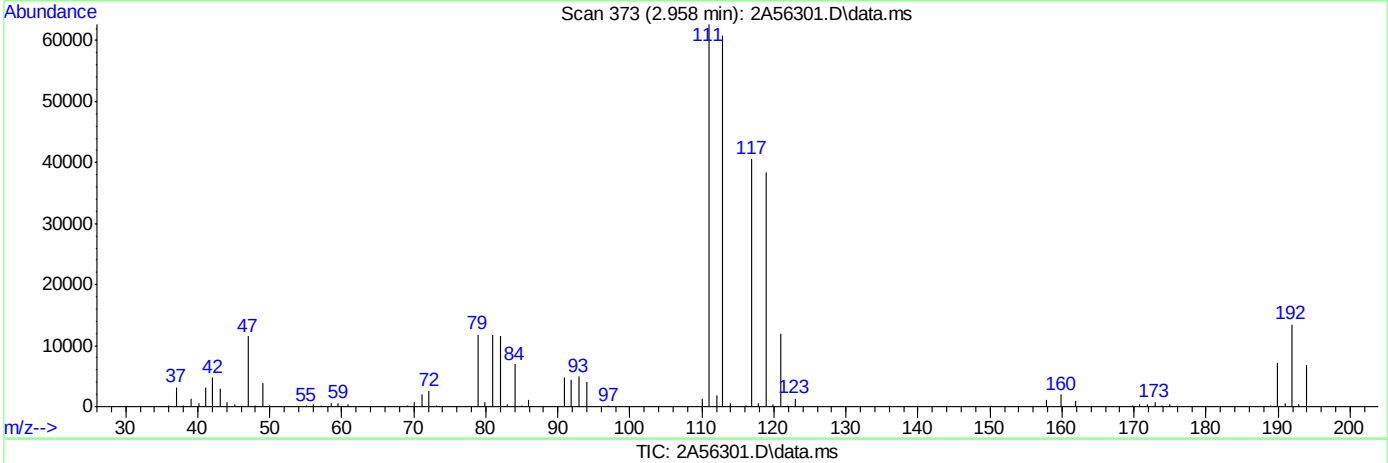
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	33.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 26.73ug/L

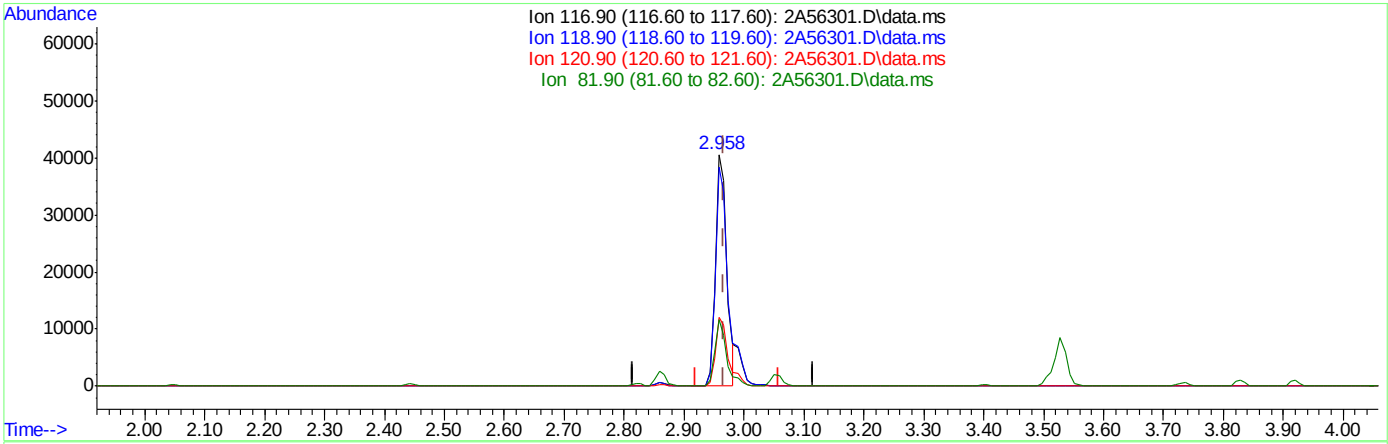
response 59980

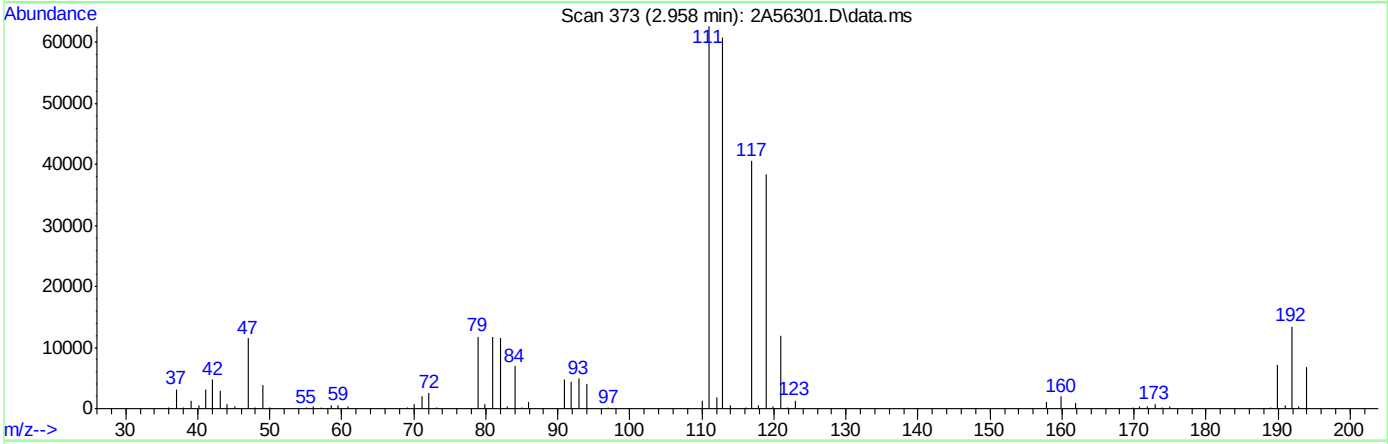
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.42
120.90	31.00	29.52
81.90	19.00	28.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 24.05ug/L m

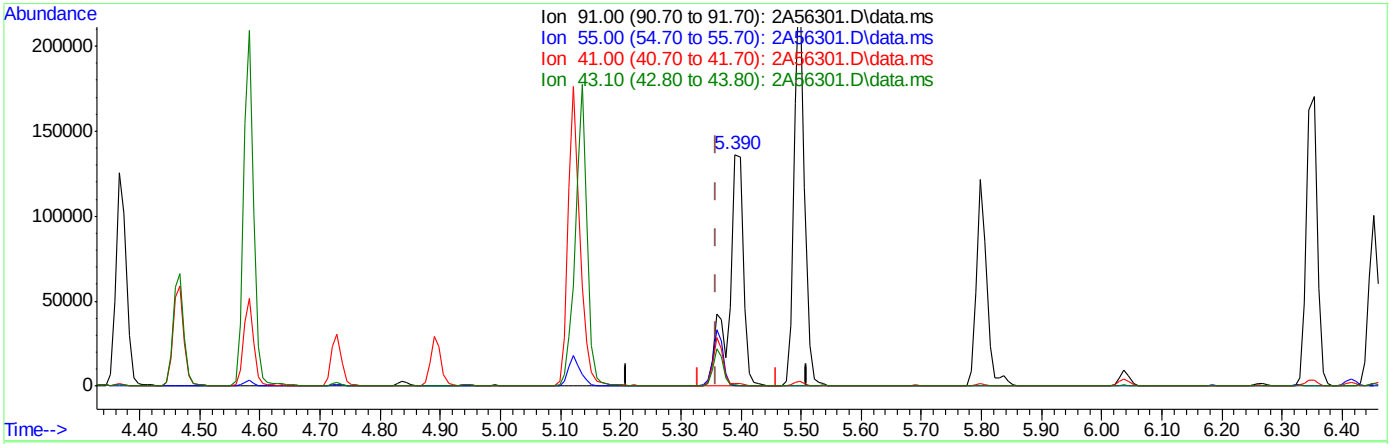
response 53985

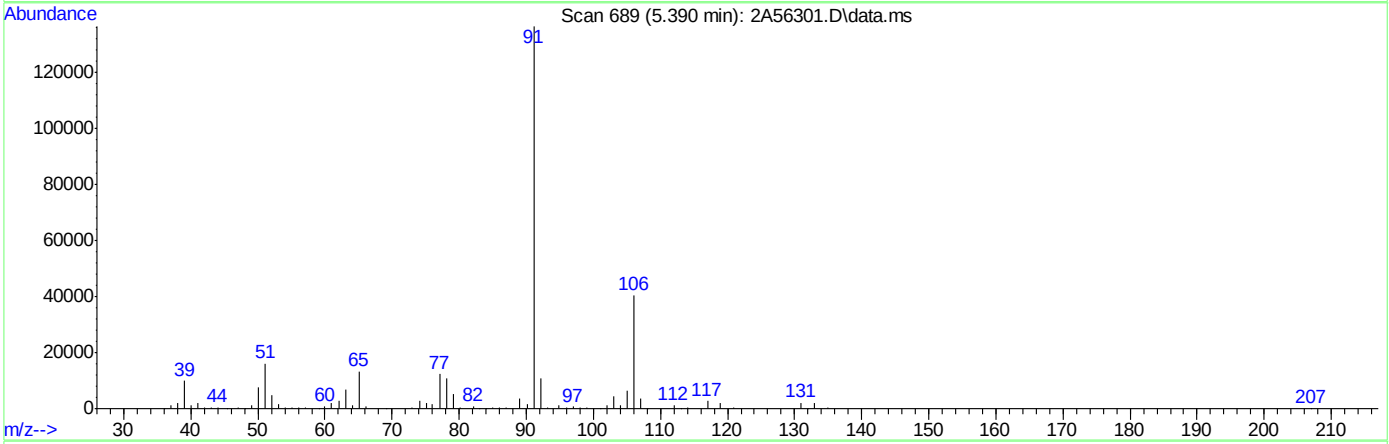
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.42
120.90	31.00	29.52
81.90	19.00	28.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 95.44ug/L

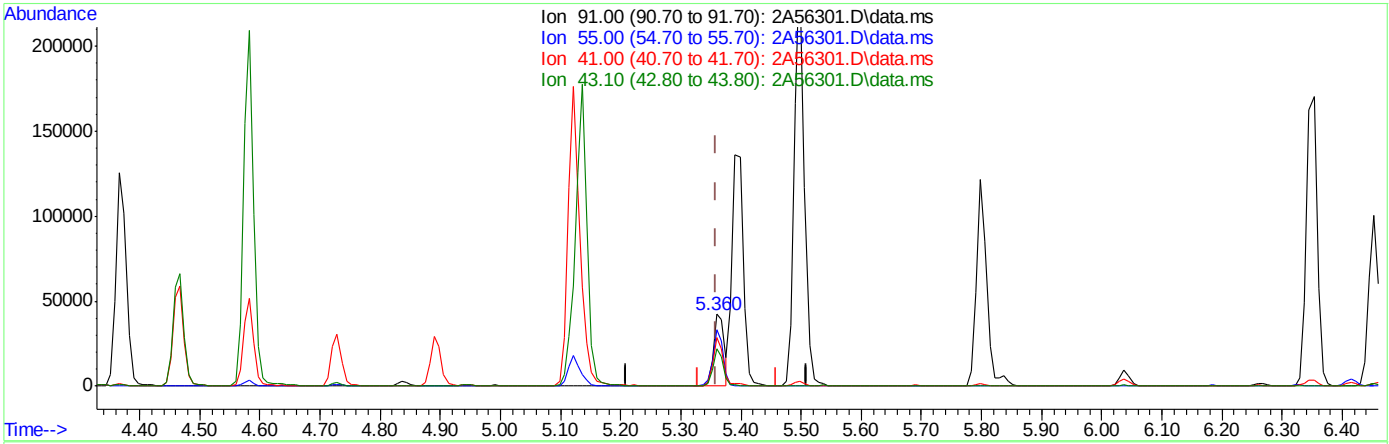
response 225979

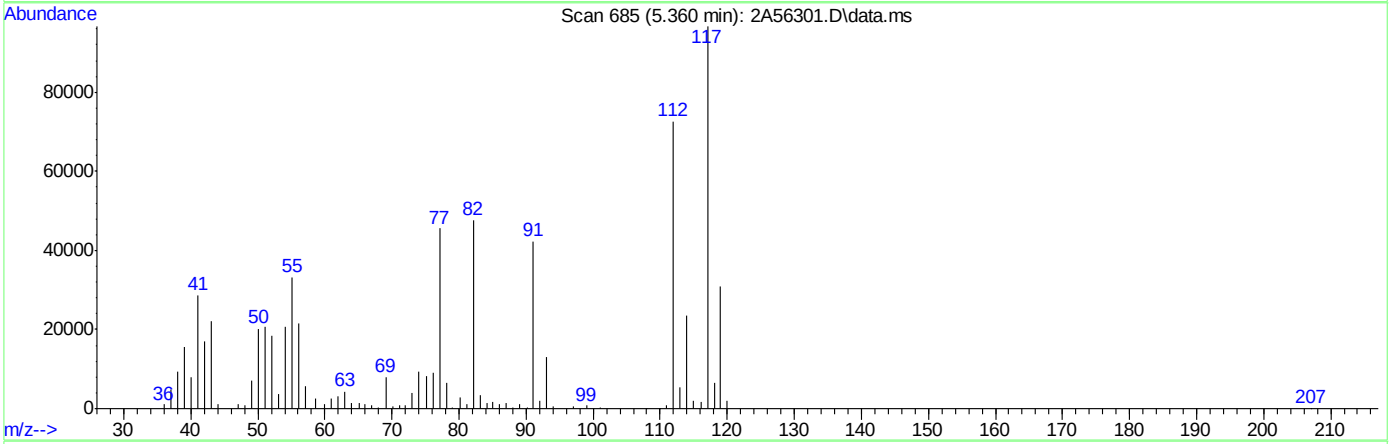
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.29#
41.00	39.20	1.16#
43.10	33.20	0.28#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 22.48ug/L m

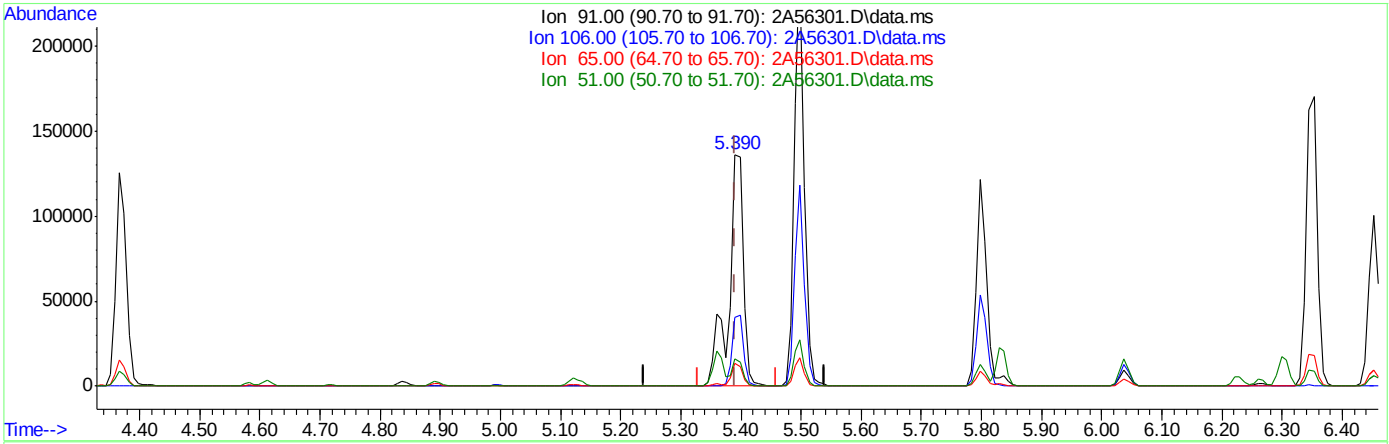
response 53217

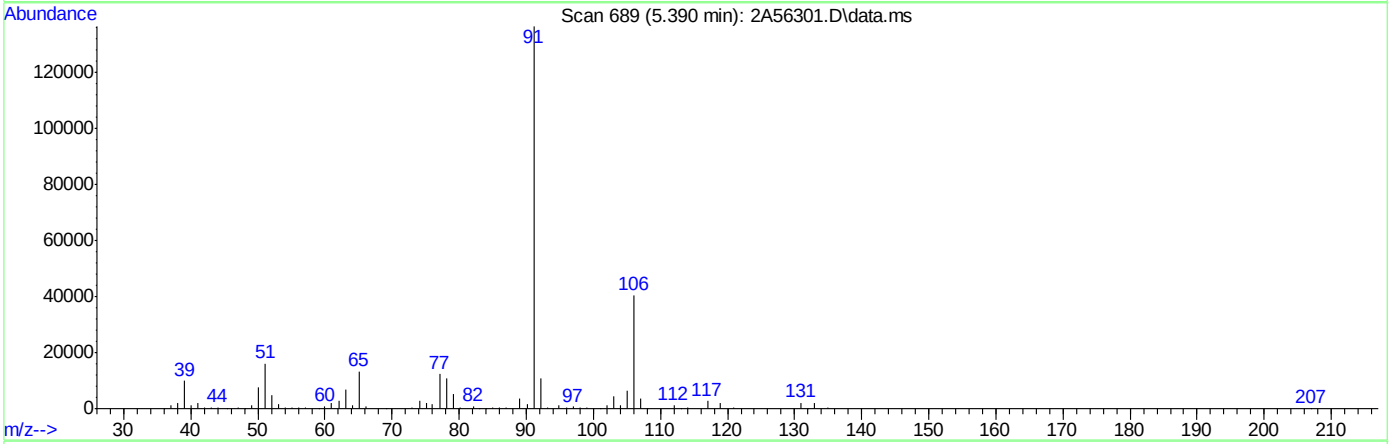
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	78.37
41.00	39.20	67.63#
43.10	33.20	52.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 31.21ug/L

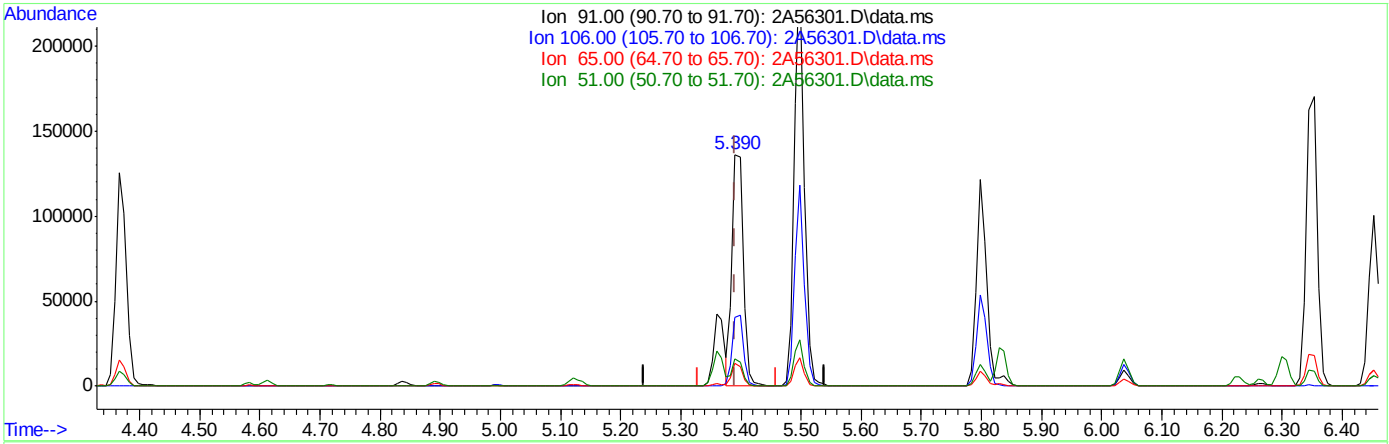
response 225979

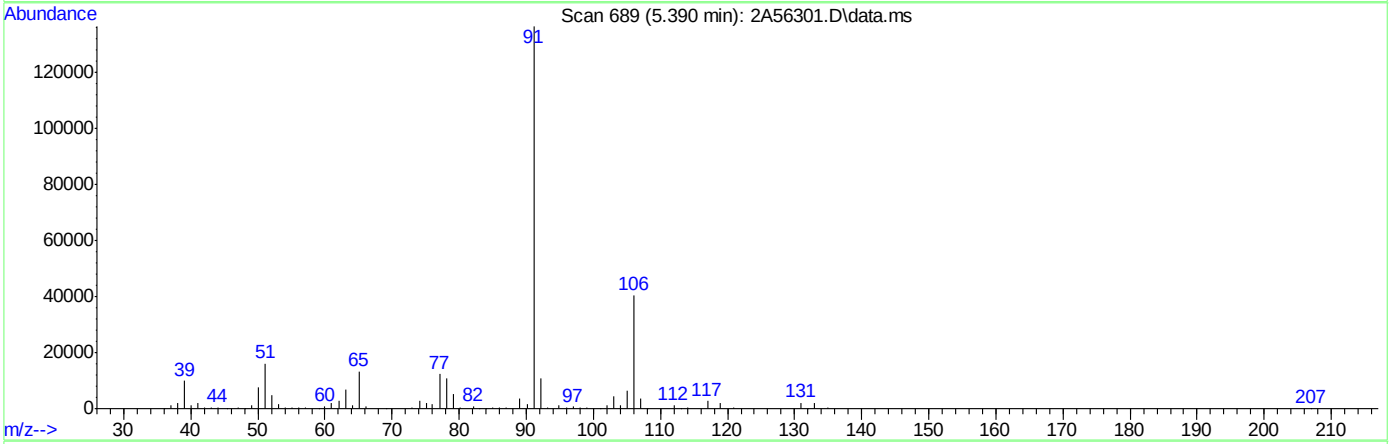
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.72
65.00	7.10	9.73
51.00	7.10	11.76

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-26-2024\
Data File : 2A56301.D
Acq On : 26 Jun 2024 7:56 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56910,V2A1911,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 08:27:50 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56301.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 23.95ug/L m

response 173399

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.72
65.00	7.10	9.73
51.00	7.10	11.76

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 08:22

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:59:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	276585	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	195955	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	118846	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.951	113	76830	48.11	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.22%				
49) 1,2-Dichloroethane-d4	3.236	65	95846	50.07	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.14%				
63) Toluene-d8	4.336	98	271245	51.06	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.12%				
86) 4-Bromofluorobenzene	6.229	174	92778	49.33	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.019	85	30567	22.3610	ug/L		97
3) Chloromethane	1.127	50	36104	22.9418	ug/L		97
4) 1,3-butadiene	1.181	39	45816	24.3084	ug/L	#	72
5) Vinyl Chloride	1.173	62	36033	22.6490	ug/L		98
6) Bromomethane	1.342	94	16175	23.3900	ug/L		96
7) Chloroethane	1.411	64	20975	24.4465	ug/L		94
8) Trichlorofluoromethane	1.496	101	52633	24.8961	ug/L		100
9) Ethyl Ether	1.658	59	27613	24.5264	ug/L		91
10) Ethanol	1.704	45	11260	652.1100	ug/L		93
11) 1,2-Dichlorotrifluoroe...	1.742	67	26871	24.7227	ug/L		88
12) 1,1-Dichloroethene	1.758	61	49230	22.8977	ug/L		85
13) Freon 113	1.781	101	30814	24.2080	ug/L	#	84
14) Carbon Disulfide	1.781	76	92095	23.8273	ug/L		82
15) Iodomethane	1.827	142	24694	24.6644	ug/L		90
16) Acrolein	1.904	56	32555	123.1686	ug/L		94
17) Allyl chloride	1.996	41	49291	23.4516	ug/L		83
18) Methylene Chloride	2.043	49	48741	24.7867	ug/L	#	71
19) Acetone	2.050	43	77435	139.3191	ug/L		81
20) Methyl acetate	2.120	43	177288	128.8803	ug/L		86
21) trans-1,2-Dichloroethene	2.135	61	47230	22.1177	ug/L		80
22) Hexane	2.196	56	31495	24.7512	ug/L	#	82
23) Methyl Tert Butyl Ether	2.189	73	95909	24.7469	ug/L		87
24) Acetonitrile	2.273	41	53192	285.2387	ug/L		95
25) Tert Butyl Alcohol	2.212	59	65942	297.5679	ug/L		86
26) Di-isopropyl ether	2.389	45	108300	24.7141	ug/L		85
27) Chloroprene	2.435	53	143666	25.0202	ug/L		89
28) 1,1-Dichloroethane	2.443	63	62066	22.7545	ug/L		98
29) Acrylonitrile	2.435	52	89362	129.0028	ug/L		94
30) ETBE	2.581	59	106414	25.6322	ug/L		92
31) Vinyl acetate	2.558	43	449323	135.5528	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	36104	23.7152	ug/L	#	79
33) 2,2-Dichloropropane	2.781	77	44884	20.3488	ug/L		95
34) Bromochloromethane	2.820	128	18431	24.0231	ug/L	#	63
35) Cyclohexane	2.858	56	61307	24.2185	ug/L	#	82
36) Chloroform	2.858	83	62190	24.6432	ug/L		94
37) Ethyl acetate	2.912	43	248870	136.9932	ug/L		90
38) Tetrahydrofuran	2.943	42	17457	26.9641	ug/L		84
40) Carbon Tetrachloride	2.958	117	45583m	21.6259	ug/L		
41) 1,1,1-Trichloroethane	2.982	97	53480	22.1068	ug/L		91
42) 2-Butanone	2.997	43	130630	144.3888	ug/L		79
43) 1,1-Dichloropropene	3.051	75	44358	23.2735	ug/L		79
44) tert-Butyl formate	3.089	59	154151	136.0132	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:59:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.143	54	69007	266.5025	ug/L		98
46)	Methacrylonitrile	3.166	41	275237	270.1628	ug/L		93
47)	Benzene	3.182	78	130097	23.2617	ug/L		89
48)	TAME	3.251	73	93816	25.8577	ug/L	#	74
50)	1,2-Dichloroethane	3.274	62	50426	24.6715	ug/L		96
51)	Isobutyl Alcohol	3.251	43	82690	592.8215	ug/L		85
52)	Tert Amyl Alcohol	3.320	59	55728	314.9441	ug/L		88
53)	Trichloroethene	3.505	95	36687	23.0033	ug/L		85
54)	Methylcyclohexane	3.528	83	60440	24.4775	ug/L		82
55)	Dibromomethane	3.728	93	23598	24.4088	ug/L	#	71
56)	1,2-Dichloropropane	3.790	63	34030	23.5530	ug/L		88
57)	Bromodichloromethane	3.828	83	46153	22.8296	ug/L	#	94
58)	Methyl methacrylate	3.921	41	36743	27.0058	ug/L	#	69
59)	1,4-Dioxane	3.936	88	10302	738.7143	ug/L		92
60)	2-Chloroethyl vinyl ether	4.167	63	130489	132.3629	ug/L		83
61)	cis-1,3-Dichloropropene	4.205	75	52381	23.8856	ug/L		79
64)	Toluene	4.367	91	141571	24.0795	ug/L		98
65)	2-Nitropropane	4.467	41	68221	131.8781	ug/L		91
66)	4-Methyl-2-pentanone	4.582	43	249066	141.9658	ug/L		86
67)	trans-1,3-Dichloropropene	4.613	75	49301	25.3668	ug/L		82
68)	Tetrachloroethene	4.629	166	39110	25.7311	ug/L		92
69)	Ethyl methacrylate	4.729	69	45023	25.8562	ug/L	#	69
70)	1,1,2-Trichloroethane	4.713	83	27596	24.9861	ug/L		88
71)	Dibromochloromethane	4.836	129	33819	24.6646	ug/L		99
72)	1,3-Dichloropropane	4.890	76	51709	26.9189	ug/L		76
73)	1,2-Dibromoethane	4.990	107	34604	26.3838	ug/L		96
74)	3,3-Dimethyl-1-Butanol	5.121	57	320698	1483.3353	ug/L		94
75)	2-hexanone	5.137	43	246479	144.8419	ug/L		75
76)	1-Chlorohexane	5.360	91	50480m	22.6644	ug/L		
77)	Ethylbenzene	5.391	91	162566m	23.8661	ug/L		
78)	Chlorobenzene	5.360	112	91778	24.1281	ug/L		84
79)	1,1,1,2-Tetrachloroethane	5.406	131	33204	25.5951	ug/L		96
80)	m,p-Xylene	5.498	91	262408	47.1121	ug/L		92
81)	o-Xylene	5.798	91	137618	23.5936	ug/L		91
82)	Styrene	5.829	104	100340	23.8547	ug/L		89
83)	Bromoform	5.837	173	23848	24.5267	ug/L		98
84)	Isopropylbenzene	6.037	105	158592	23.0856	ug/L		96
87)	cis-1,4-Dichloro-2-butene	6.260	53	11369	22.8111	ug/L	#	72
88)	n-Propylbenzene	6.345	91	198497	22.6482	ug/L		87
89)	Bromobenzene	6.306	156	39435	23.7261	ug/L	#	80
90)	1,1,2,2-Tetrachloroethane	6.368	83	47464	24.2551	ug/L		98
91)	1,3,5-Trimethylbenzene	6.506	105	136097	22.8651	ug/L		97
92)	2-Chlorotoluene	6.453	91	112011	23.1551	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.499	53	15527	24.6361	ug/L	#	63
94)	1,2,3-Trichloropropane	6.468	110	13538	26.4101	ug/L		81
95)	Cyclohexanone	6.483	55	10120	172.5466	ug/L		80
96)	4-Chlorotoluene	6.576	91	118215	22.8231	ug/L		88
97)	tert-Butylbenzene	6.745	91	82634	23.0795	ug/L		81
98)	1,2,4-Trimethylbenzene	6.799	105	131436	23.6054	ug/L		95
99)	Pentachloroethane	6.745	167	20409	22.7543	ug/L	#	61
100)	sec-Butylbenzene	6.891	105	174288	23.1193	ug/L		95
101)	4-Isopropyltoluene	7.007	119	148930	23.2646	ug/L		94
102)	1,3-Dichlorobenzene	7.038	146	75951	23.4940	ug/L		94
103)	1,2,3-Trimethylbenzene	7.138	105	132083	23.9347	ug/L		96
104)	1,4-Dichlorobenzene	7.107	146	76432	23.6363	ug/L		95
105)	n-Butylbenzene	7.338	92	69074	23.5920	ug/L		92
106)	Benzyl Chloride	7.292	126	15725	21.8855	ug/L	#	73
107)	1,2-Dichlorobenzene	7.422	146	69541	23.9810	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:59:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

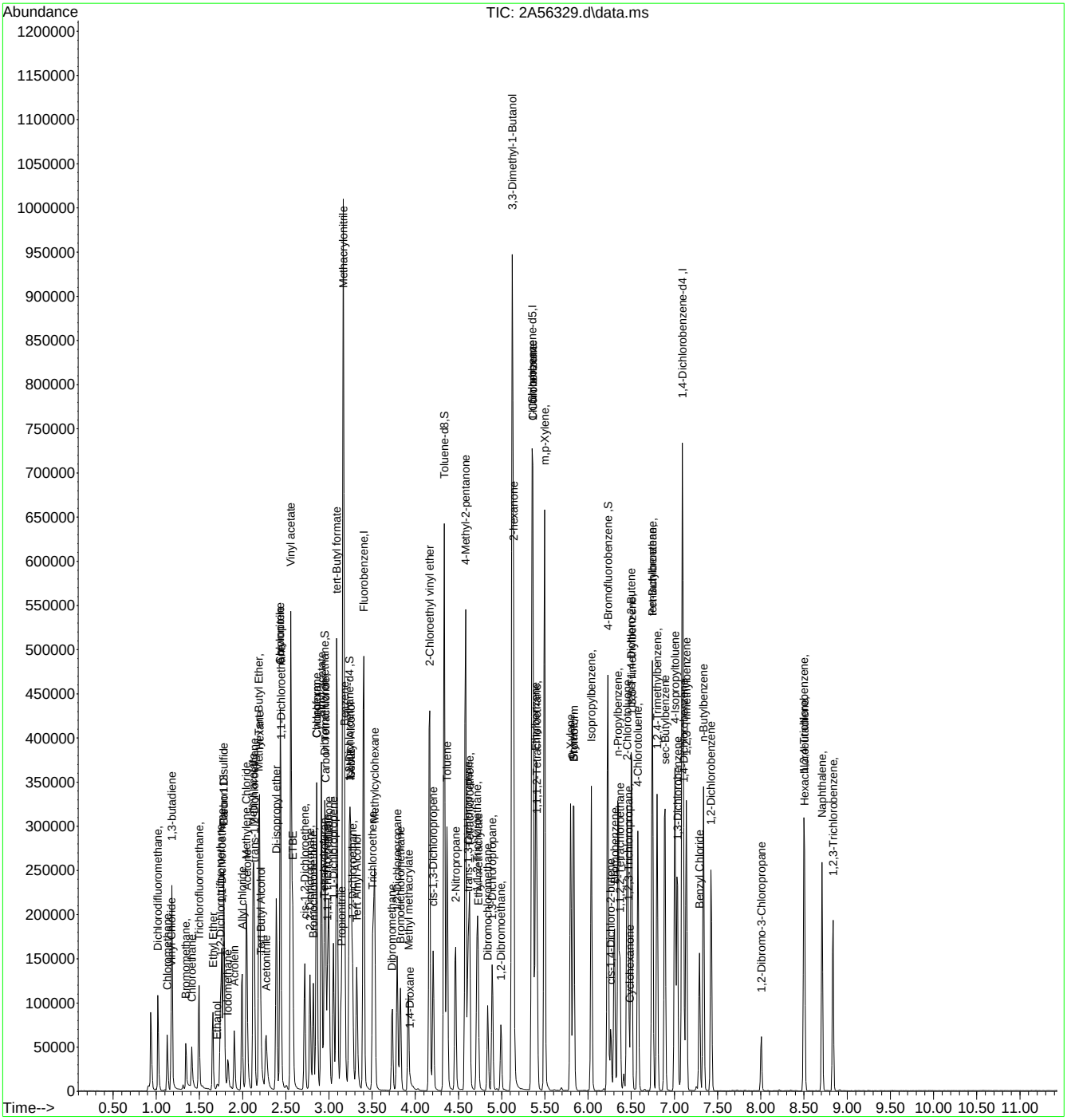
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9688	24.4194	ug/L	#	56
109) Hexachlorobutadiene	8.508	225	19031	23.1673	ug/L		89
110) 1,2,4-Trichlorobenzene	8.500	180	42877	24.3016	ug/L		96
111) Naphthalene	8.708	128	119785	24.8519	ug/L		99
112) 1,2,3-Trichlorobenzene	8.838	180	38098	24.1542	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:59:07 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

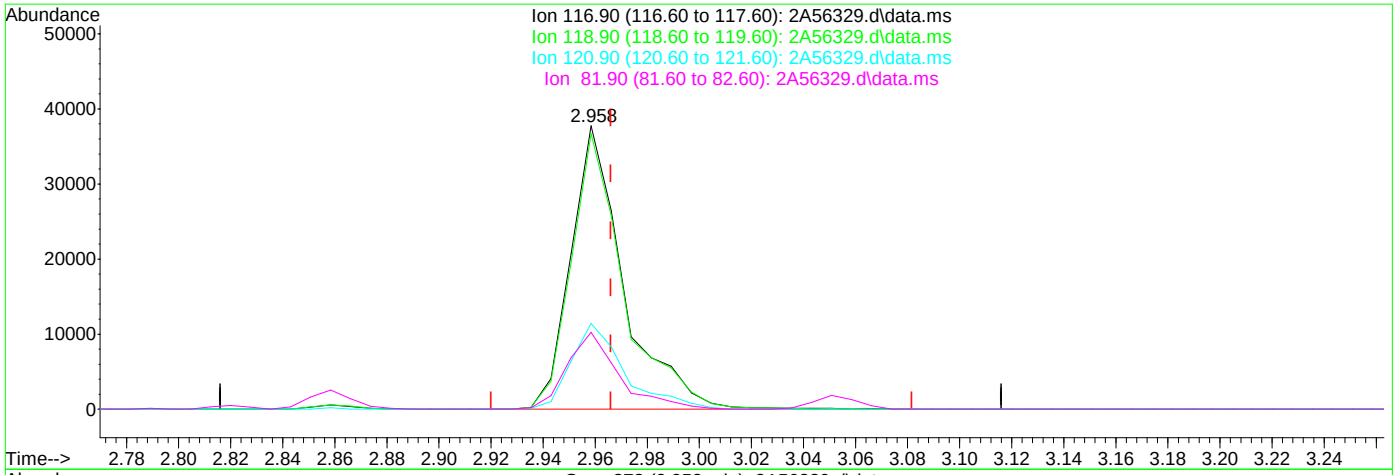
Sample Number: V2A1911-ECC1910 **Method:** SW846 8260D
Lab FileID: 2A56329.D **Analyst approved:** 06/27/24 03:02 Lotus Acosta
Injection Time: 06/26/24 19:08 **Supervisor approved:** 06/27/24 08:22 Karen Watson

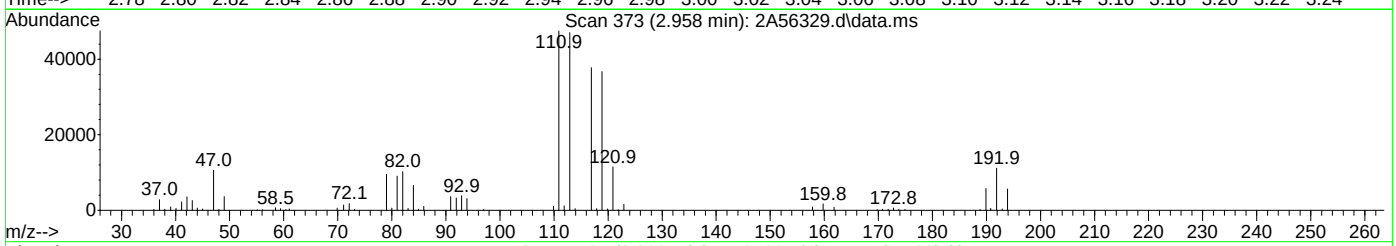
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

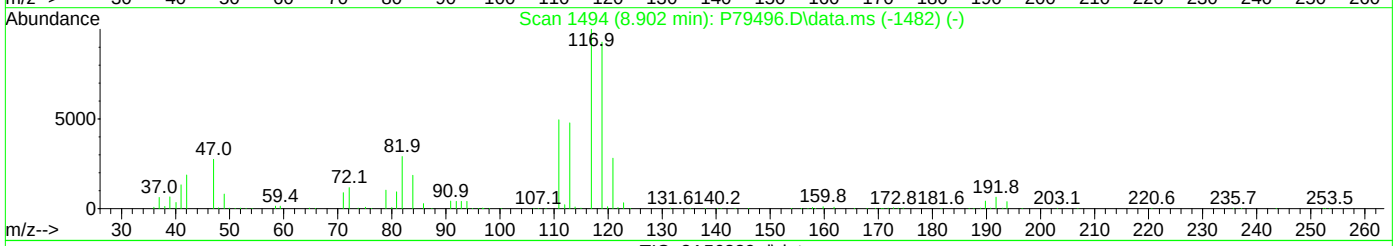
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 25.33ug/L

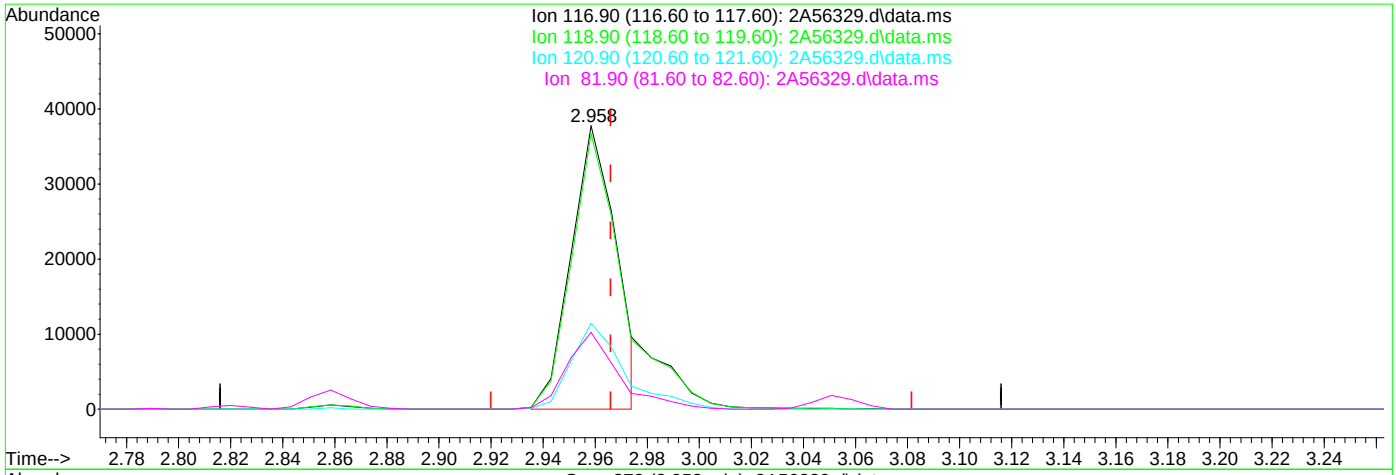
response 53393

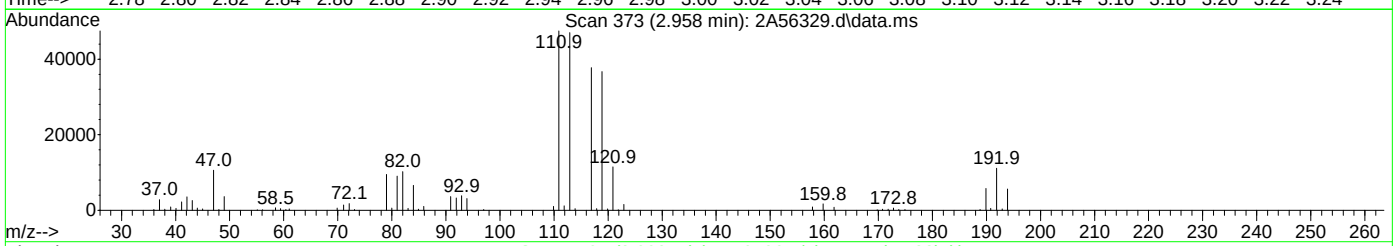
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.29
120.90	31.00	30.35
81.90	19.00	27.11

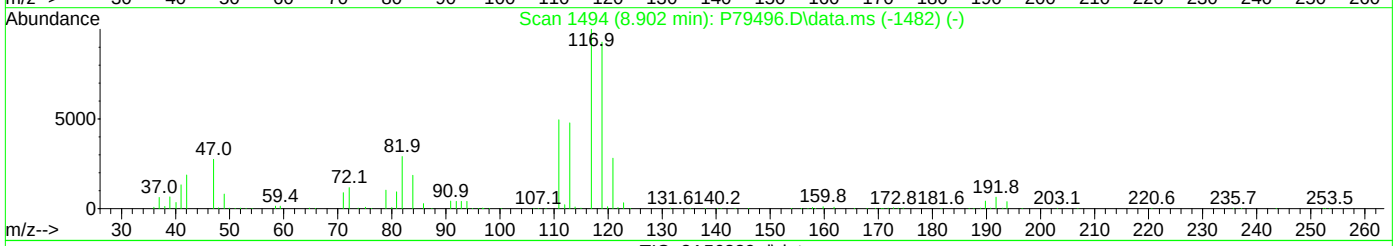
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 21.63ug/L m

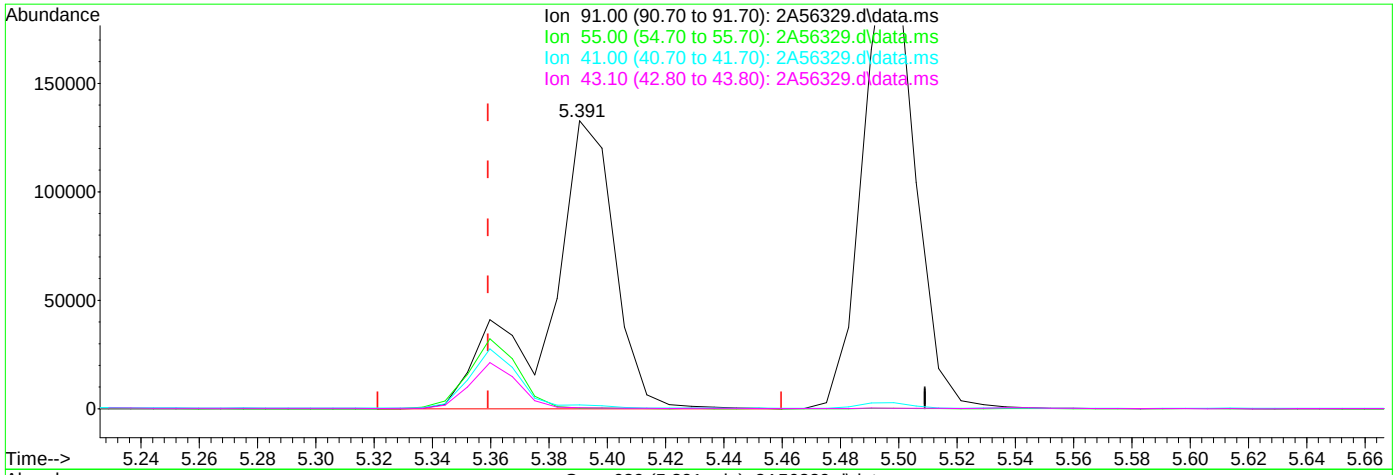
response 45583

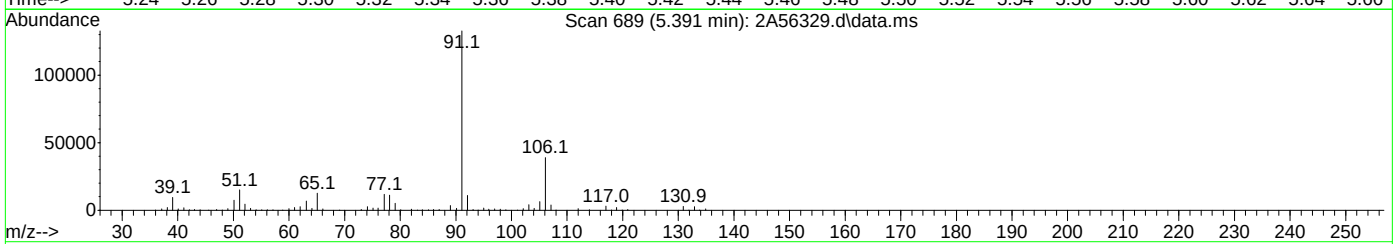
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.29
120.90	31.00	30.35
81.90	19.00	27.11

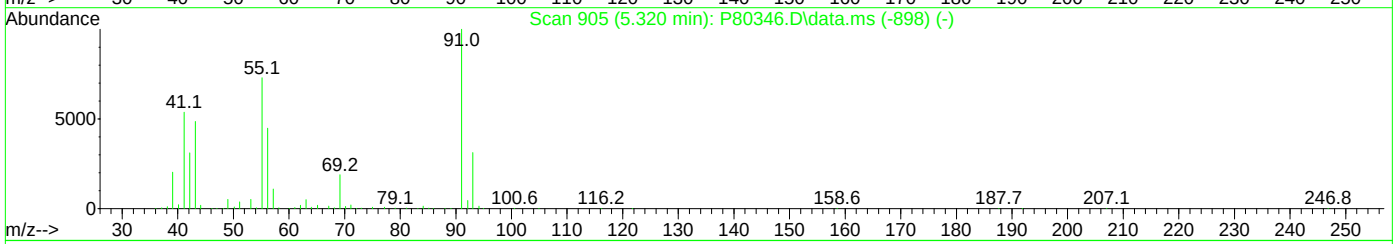
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(76) 1-Chlorohexane

5.391min (+0.032) 95.67ug/L

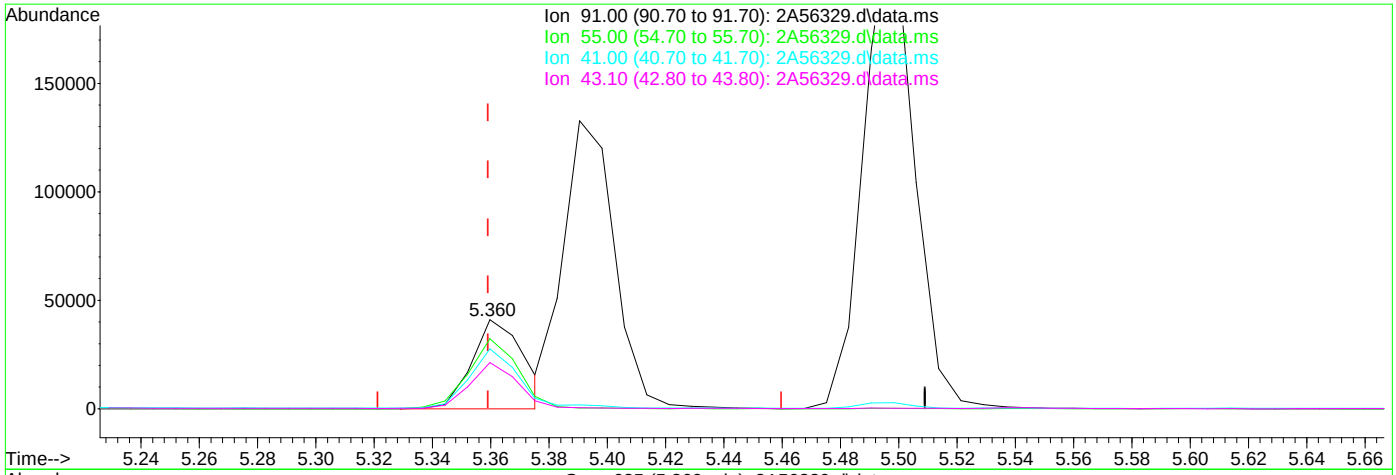
response 213095

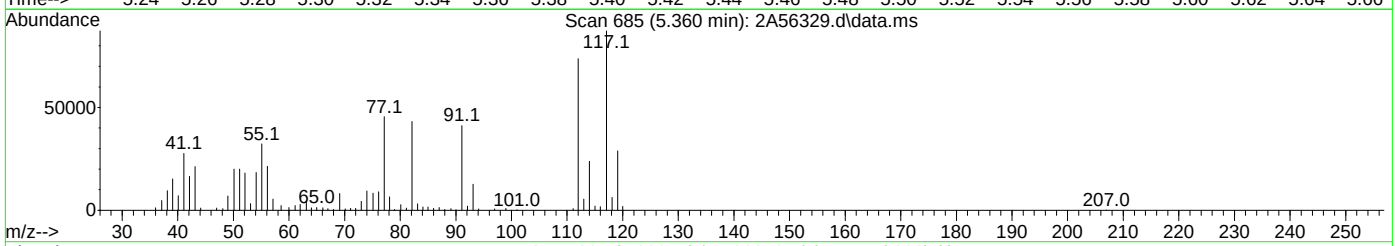
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.28#
41.00	39.20	1.18#
43.10	33.20	0.26#

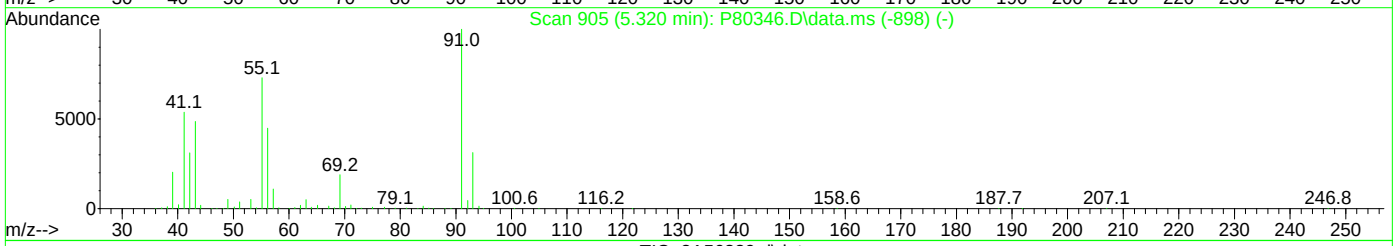
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 22.66ug/L m

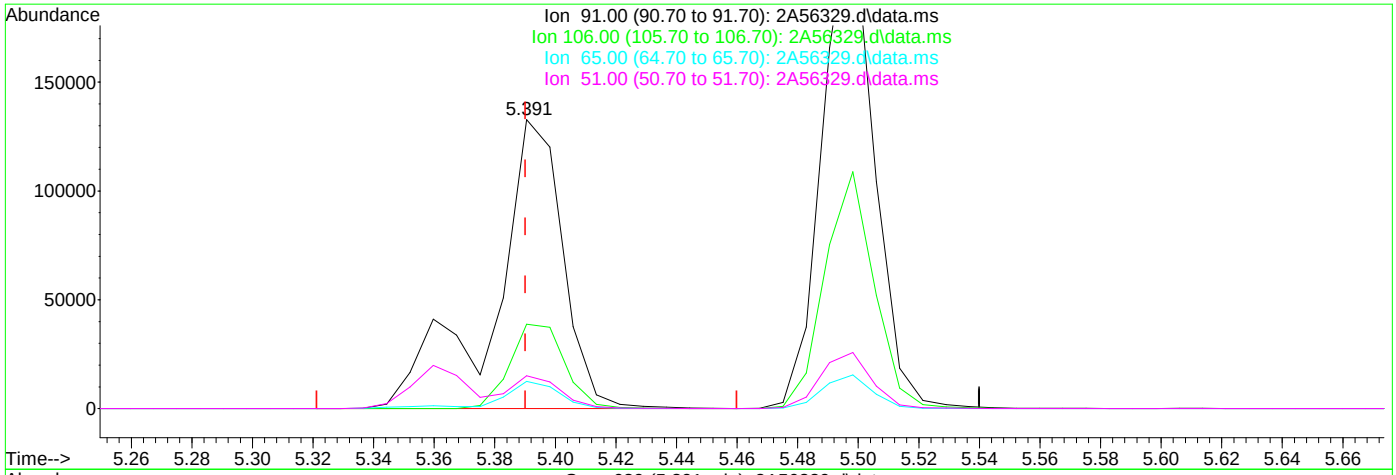
response 50480

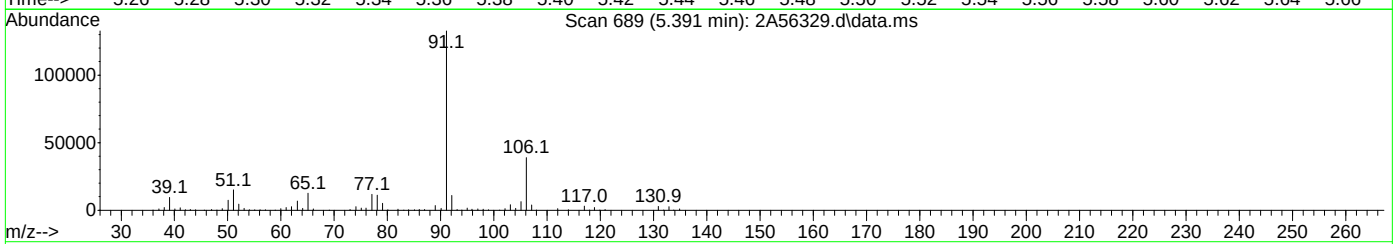
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	78.54
41.00	39.20	67.10#
43.10	33.20	51.68

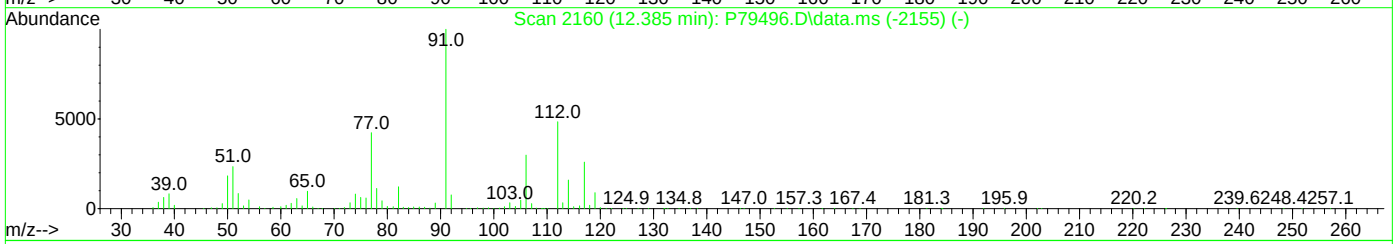
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(77) Ethylbenzene

5.391min (+0.001) 31.28ug/L

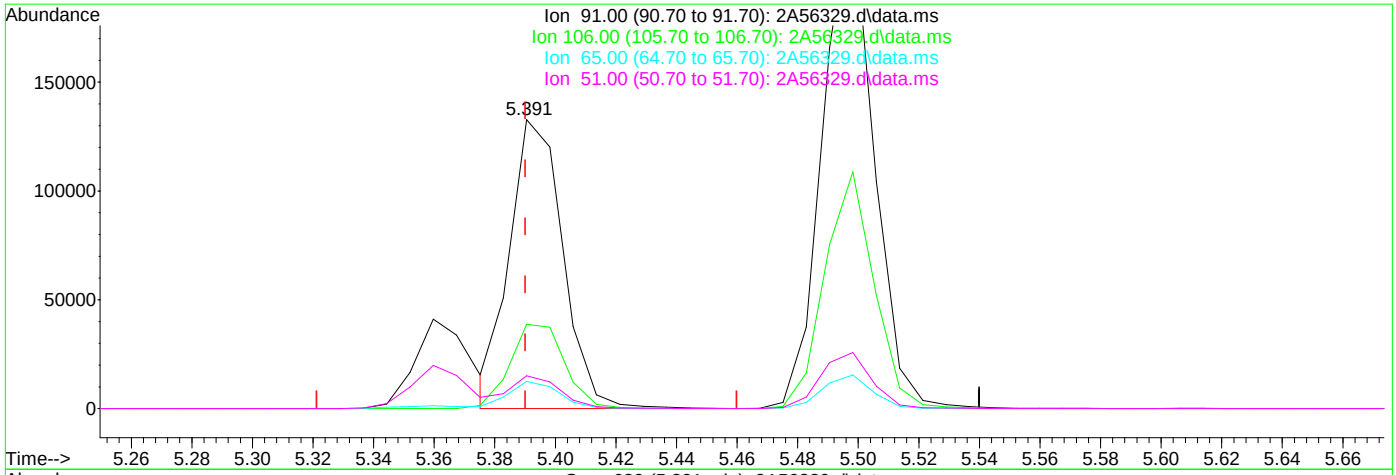
response 213095

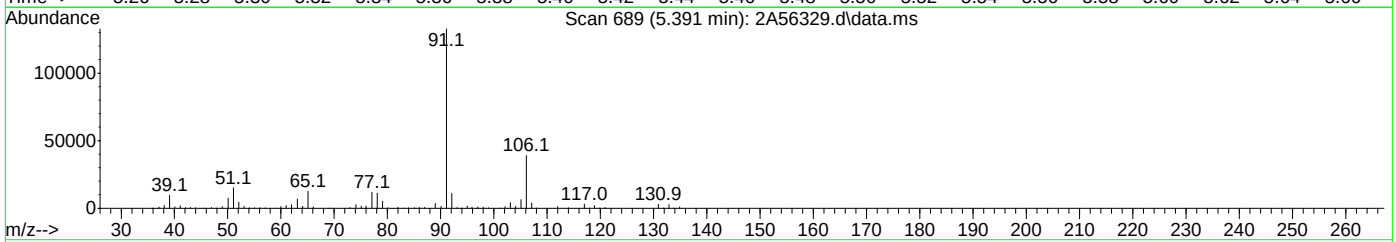
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.24
65.00	7.10	9.41
51.00	7.10	11.37

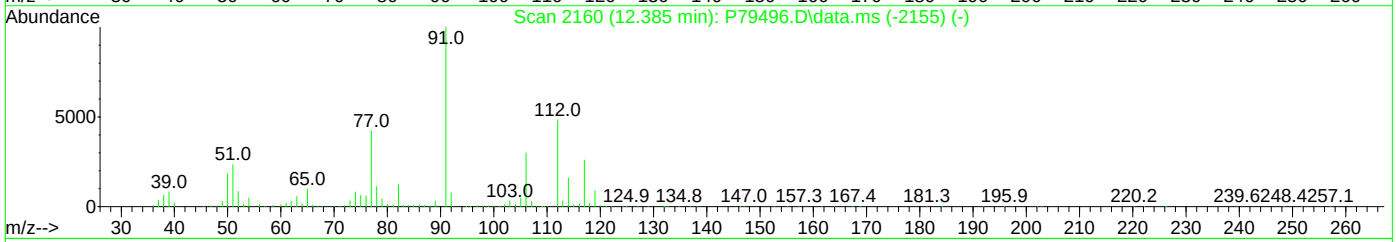
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\V2A1911\
Data File : 2A56329.d
Acq On : 26 Jun 2024 7:08 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56912,V2A1911,,,,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 27 06:01:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\Jun-2024\6-27\V2A1911\method\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration







TIC: 2A56329.d\data.ms

(77) Ethylbenzene

5.391min (+0.001) 23.87ug/L m

response 162566

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.24
65.00	7.10	9.41
51.00	7.10	11.37

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	380554	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	242002	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	119212	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	95400	45.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.68%			
49) 1,2-Dichloroethane-d4	8.180	65	110171	51.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.22%			
62) Toluene-d8	10.033	98	351481	55.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.70%			
86) 4-Bromofluorobenzene	12.807	95	104436	55.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	1337	0.96	ug/L	78
3) Chloromethane	3.132	50	2805	1.42	ug/L	100
4) Vinyl Chloride	3.266	62	3297	1.34	ug/L	86
5) 1,3-Butadiene	3.297	39	5513	1.38	ug/L	87
6) Bromomethane	3.772	94	2379	1.29	ug/L	89
7) Chloroethane	3.949	64	2111	1.24	ug/L	90
8) Trichlorofluoromethane	4.162	101	2840	1.12	ug/L	90
9) Ethyl Ether	4.583	59	1071	0.99	ug/L #	80
11) 1,2-Dichlorotrifluoroe...	4.827	67	941	0.76	ug/L #	59
12) 1,1-Dichloroethene	4.863	61	1810	0.86	ug/L	85
13) Freon 113	4.900	101	948	0.66	ug/L	81
14) Carbon Disulfide	4.918	76	4180	0.93	ug/L	81
15) Iodomethane	5.058	142	564	0.26	ug/L #	44
16) Acrolein	5.314	56	859	2.92	ug/L	87
17) Allyl chloride	5.467	41	2820	1.20	ug/L #	79
18) Methylene Chloride	5.589	49	7269	3.40	ug/L	88
19) Acetone	5.656	43	3302	5.10	ug/L	82
20) Methyl acetate	5.796	43	6284	3.79	ug/L	97
21) trans-1,2-Dichloroethene	5.802	61	1936	0.86	ug/L	89
22) Hexane	5.869	56	840	0.66	ug/L #	66
23) Methyl Tert Butyl Ether	5.894	73	3443	0.87	ug/L	91
24) Acetonitrile	6.241	41	2554	10.51	ug/L	76
25) Di-isopropyl ether	6.326	45	4775	1.01	ug/L	92
26) Chloroprene	6.491	53	1471	0.77	ug/L	90
27) 1,1-Dichloroethane	6.515	63	2482	0.93	ug/L	97
28) Acrylonitrile	6.589	53	3121	4.58	ug/L	82
29) ETBE	6.741	59	3405	0.83	ug/L	85
30) Tert Butyl Alcohol	5.979	59	1927	7.00	ug/L	83
31) Vinyl acetate	6.741	43	450	0.12	ug/L	74
32) cis-1,2-Dichloroethene	7.131	96	1328	0.83	ug/L	87
33) 2,2-Dichloropropane	7.247	77	1587	0.83	ug/L	78
34) Bromochloromethane	7.351	128	508	0.66	ug/L #	75
35) Cyclohexane	7.369	56	1832	0.71	ug/L	93
36) Chloroform	7.405	83	2106	0.80	ug/L	90
37) Ethyl acetate	7.515	43	11080	5.46	ug/L	96
38) Tetrahydrofuran	7.607	42	669	0.83	ug/L #	66
40) Carbon Tetrachloride	7.588	117	1054	0.73	ug/L #	60
41) 1,1,1-Trichloroethane	7.649	97	1751	0.87	ug/L	96
42) 2-Butanone	7.710	43	431	0.41	ug/L	51
43) 1,1-Dichloropropene	7.790	75	1566	0.82	ug/L #	81
44) tert-Butyl formate	7.875	59	2314	7.26	ug/L #	79
45) Propionitrile	8.070	54	2842	10.07	ug/L	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	13576	10.98	ug/L		93
47) Benzene	8.046	78	6132	0.99	ug/L		93
48) TAME	8.119	73	3373	0.82	ug/L		96
50) 1,2-Dichloroethane	8.259	62	1580	0.89	ug/L		84
51) tert Amyl alcohol	8.283	59	1296	6.64	ug/L	#	70
52) Trichloroethene	8.643	95	1379	0.84	ug/L		83
53) Methylcyclohexane	8.637	83	1690	0.57	ug/L		89
54) Dibromomethane	9.094	93	537	0.52	ug/L		86
55) 1,2-Dichloropropane	9.180	63	1257	0.88	ug/L	#	83
56) Bromodichloromethane	9.222	83	1302	0.68	ug/L		90
57) Methyl methacrylate	9.350	41	431	0.28	ug/L	#	77
59) 2-Chloroethyl vinyl ether	9.765	63	2192	3.45	ug/L	#	73
60) cis-1,3-Dichloropropene	9.856	75	1158	0.51	ug/L		72
63) Toluene	10.088	91	7158	1.33	ug/L		97
64) Isobutyl alcohol	8.186	43	1929	22.08	ug/L	#	67
65) 2-Nitropropane	10.326	41	849	4.56	ug/L		84
66) 4-Methyl-2-pentanone	10.435	43	9053	4.72	ug/L		90
67) trans-1,3-Dichloropropene	10.509	75	741	0.42	ug/L	#	39
68) Tetrachloroethene	10.496	166	1252	0.84	ug/L		78
69) Ethyl methacrylate	10.612	69	777	0.47	ug/L	#	76
70) 1,1,2-Trichloroethane	10.661	83	868	0.89	ug/L		81
71) Dibromochloromethane	10.856	129	647	0.57	ug/L		84
72) 1,3-Dichloropropane	10.941	76	1495	0.85	ug/L		94
73) 1,2-Dibromoethane	11.124	107	489	0.43	ug/L		86
74) 3,3-Dimethyl-1-butanol	11.191	57	4409	71.17	ug/L		85
75) 2-hexanone	11.271	43	5200	3.95	ug/L		92
76) 1-Chlorohexane	11.545	91	1193	0.70	ug/L		80
77) Ethylbenzene	11.606	91	7682	1.23	ug/L		84
78) Chlorobenzene	11.618	112	3460	0.98	ug/L		88
79) 1,1,1,2-Tetrachloroethane	11.667	131	914	0.87	ug/L	#	66
80) m,p-Xylene	11.752	91	10565	2.32	ug/L		94
81) o-Xylene	12.197	91	5041	1.17	ug/L		98
82) Styrene	12.258	104	1890	0.62	ug/L		92
83) Bromoform	12.307	173	168m	0.20	ug/L		
84) Isopropylbenzene	12.496	105	4734	0.92	ug/L		94
88) n-Propylbenzene	12.917	91	6343	1.13	ug/L		86
89) Bromobenzene	12.947	156	968	0.87	ug/L		79
90) 1,1,2,2-Tetrachloroethane	12.978	83	1415	0.96	ug/L		92
91) 1,3,5-Trimethylbenzene	13.100	105	3555	0.97	ug/L		90
92) 2-Chlorotoluene	13.118	91	4232	1.17	ug/L		85
94) 1,2,3-Trichloropropane	13.148	110	244	0.65	ug/L	#	36
96) 4-Chlorotoluene	13.288	91	3528	1.13	ug/L		95
98) tert-Butylbenzene	13.435	91	2028	1.00	ug/L		82
99) 1,2,4-Trimethylbenzene	13.508	105	3612	1.04	ug/L		90
100) Pentachloroethane	13.490	167	277	0.50	ug/L	#	71
101) sec-Butylbenzene	13.618	105	4931	1.08	ug/L		97
102) 4-Isopropyltoluene	13.746	119	3177	0.88	ug/L		76
103) 1,3-Dichlorobenzene	13.892	146	2138	1.02	ug/L		92
104) 1,2,3-Trimethylbenzene	13.959	105	4066	1.03	ug/L	#	45
105) 1,4-Dichlorobenzene	13.965	146	2398	0.98	ug/L	#	1
106) n-Butylbenzene	14.191	92	1179	0.64	ug/L	#	49
108) 1,2-Dichlorobenzene	14.392	146	1754	0.90	ug/L		86
110) Hexachlorobutadiene	15.660	225	387	0.96	ug/L	#	47
111) 1,2,4-Trichlorobenzene	15.727	180	801	0.81	ug/L		69
112) Naphthalene	16.026	128	1931	0.68	ug/L		70
113) 1,2,3-Trichlorobenzene	16.190	180	750	0.83	ug/L		76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

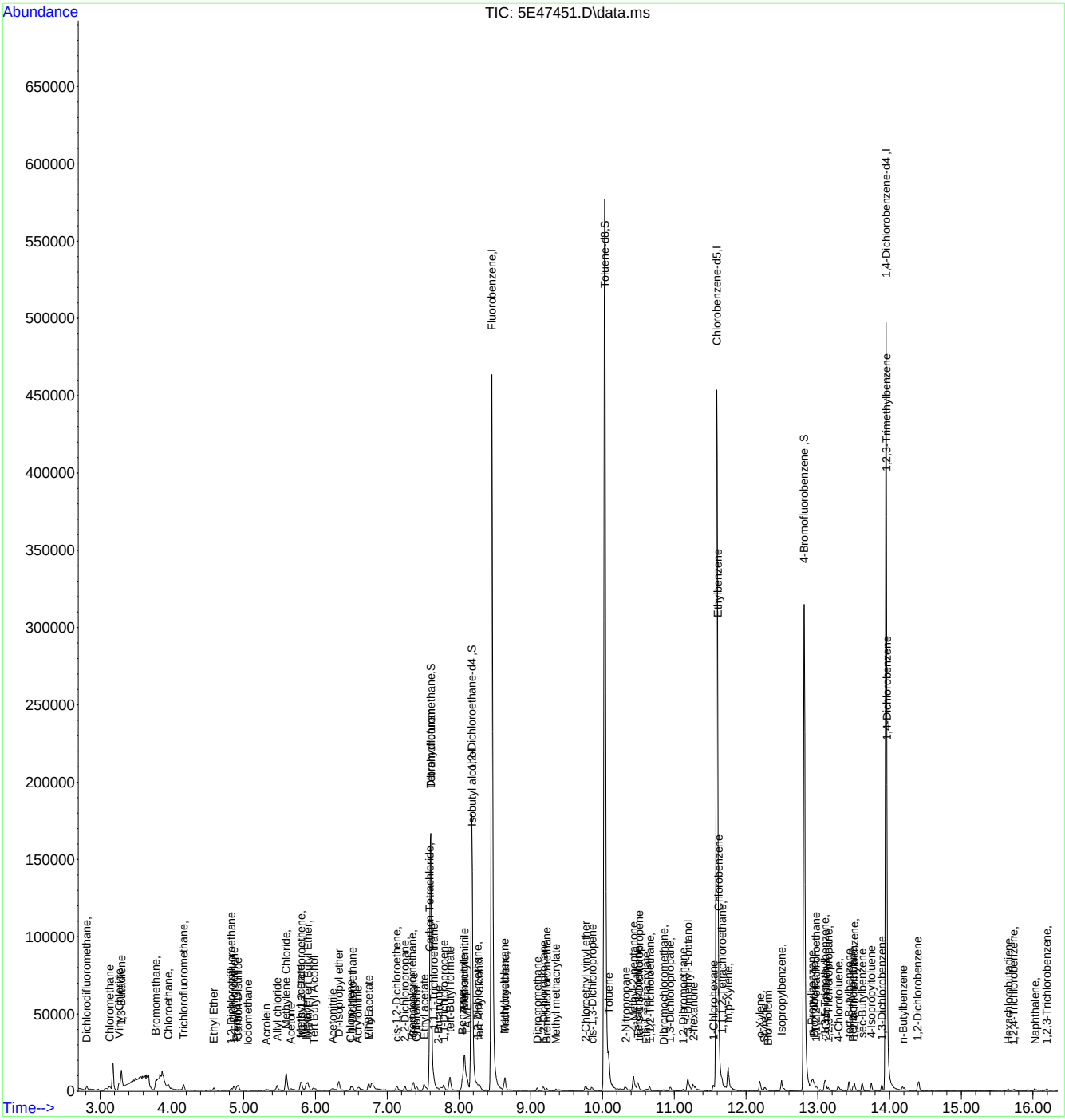
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47451.D
Injection Time: 06/25/24 12:49

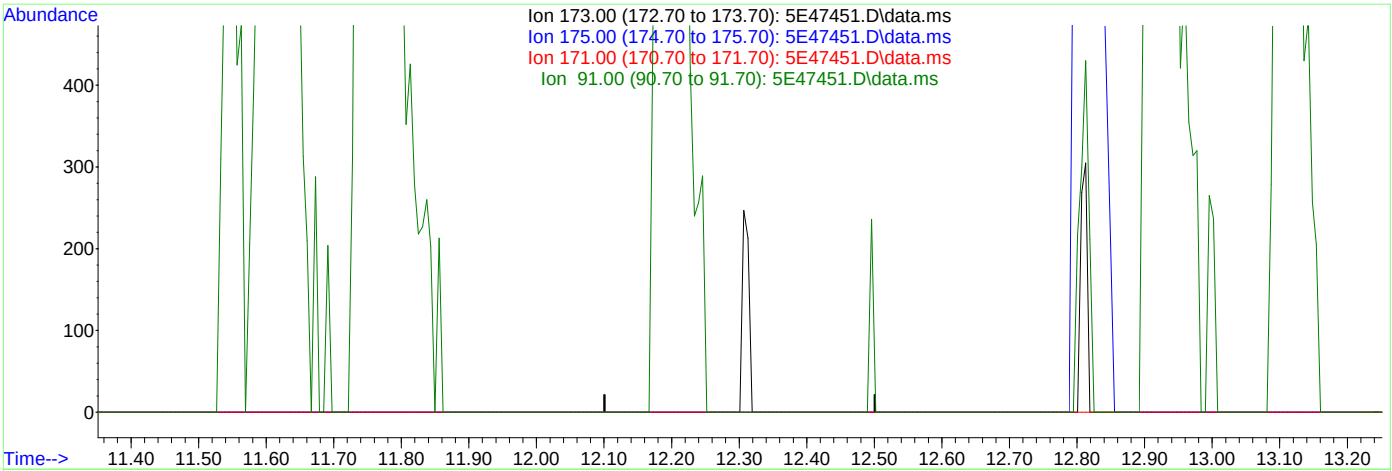
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

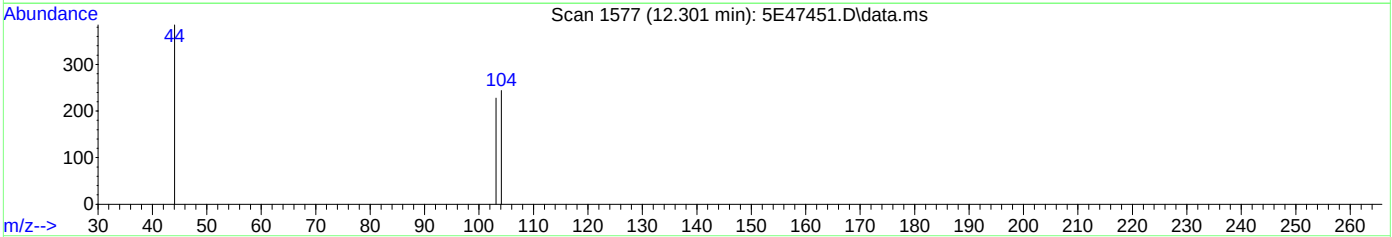
Parameter	CAS	Sig#	R.T. (min.)	Reason
Bromoform	75-25-2		12.31	Missed peak

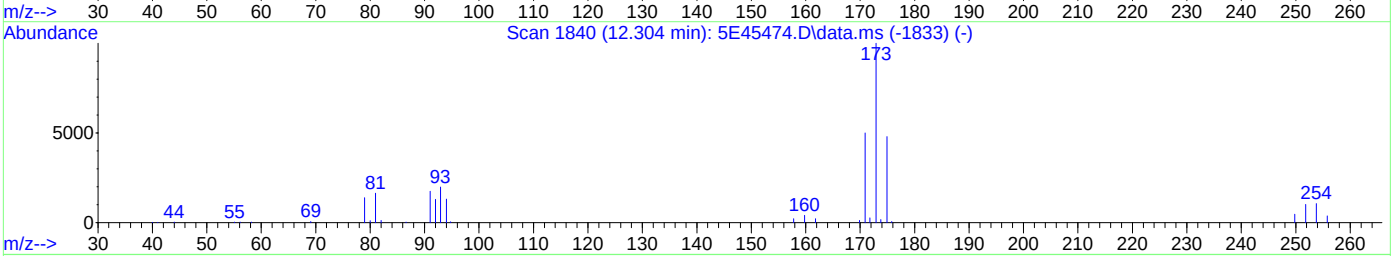
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.301min (-12.301) 0.00ug/L

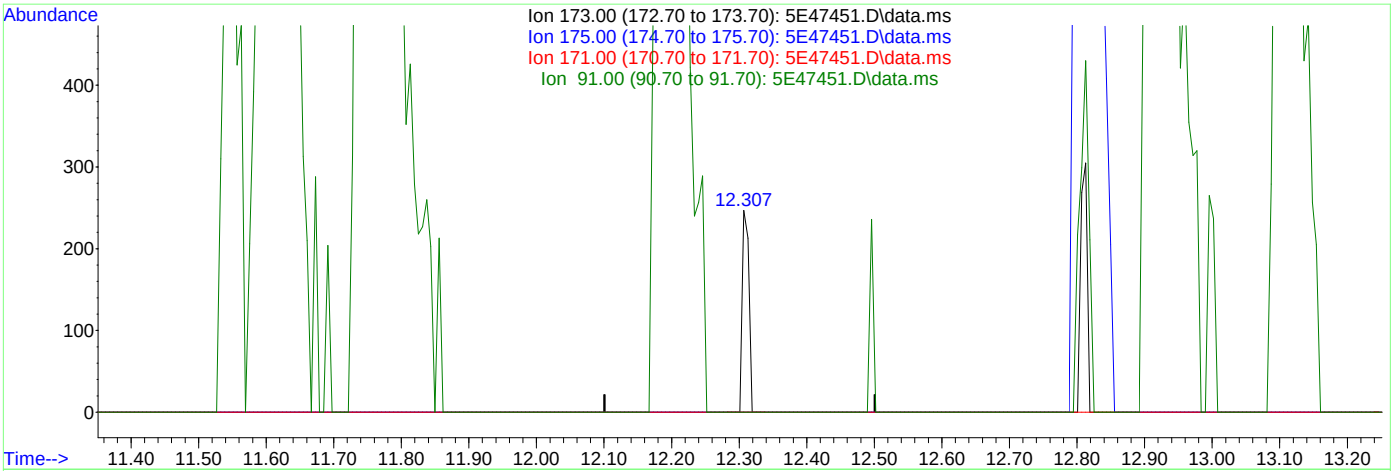
response 0

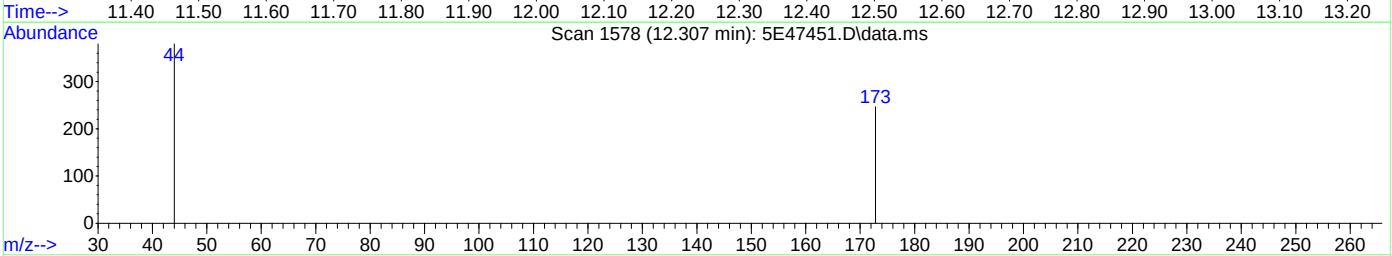
Ion	Exp%	Act%
173.00	100	0.00
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

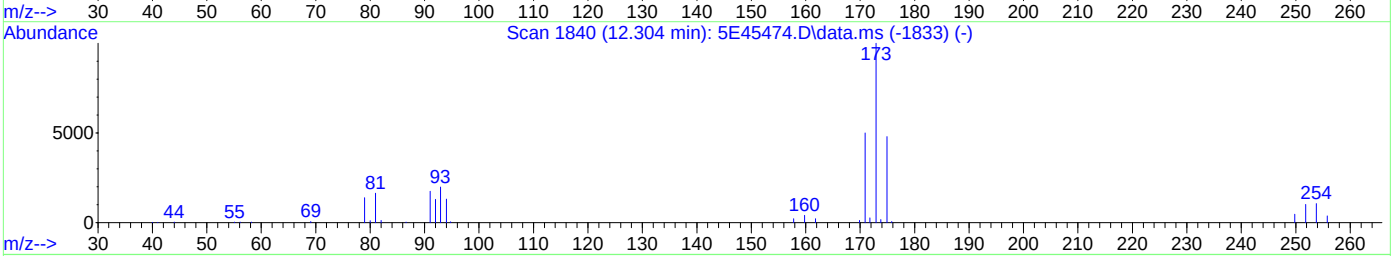
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.307min (+0.006) 0.20ug/L m

response 168

Ion	Exp%	Act%
173.00	100	100
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	369874	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	237472	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	116771	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	95637	47.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.38%				
49) 1,2-Dichloroethane-d4	8.180	65	108579	51.37	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.74%				
62) Toluene-d8	10.033	98	349879	56.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.22%#				
86) 4-Bromofluorobenzene	12.807	95	103993	56.47	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	2164	1.57	ug/L		94
3) Chloromethane	3.132	50	3905	1.94	ug/L		93
4) Vinyl Chloride	3.266	62	4430	1.78	ug/L		89
5) 1,3-Butadiene	3.296	39	7909	1.89	ug/L		88
6) Bromomethane	3.772	94	3305	1.81	ug/L		90
7) Chloroethane	3.949	64	3136	1.82	ug/L		79
8) Trichlorofluoromethane	4.162	101	3986	1.57	ug/L		98
9) Ethyl Ether	4.589	59	2241	2.10	ug/L	#	81
11) 1,2-Dichlorotrifluoroe...	4.833	67	2878	2.49	ug/L		86
12) 1,1-Dichloroethene	4.863	61	4345	2.19	ug/L		91
13) Freon 113	4.906	101	3000	2.20	ug/L		86
14) Carbon Disulfide	4.924	76	8977	2.15	ug/L		90
15) Iodomethane	5.058	142	1465	0.70	ug/L		85
16) Acrolein	5.314	56	2501	9.12	ug/L		71
17) Allyl chloride	5.461	41	3646	1.59	ug/L		89
18) Methylene Chloride	5.595	49	9963	4.79	ug/L		95
19) Acetone	5.656	43	6906	11.11	ug/L		95
20) Methyl acetate	5.790	43	12635	7.85	ug/L		94
21) trans-1,2-Dichloroethene	5.796	61	4157	1.90	ug/L		94
22) Hexane	5.869	56	2790	2.39	ug/L		90
23) Methyl Tert Butyl Ether	5.894	73	7594	1.99	ug/L		76
24) Acetonitrile	6.259	41	4097	17.40	ug/L		88
25) Di-isopropyl ether	6.326	45	10713	2.35	ug/L		96
26) Chloroprene	6.491	53	2945	1.61	ug/L		86
27) 1,1-Dichloroethane	6.515	63	5507	2.17	ug/L		94
28) Acrylonitrile	6.588	53	6677	10.04	ug/L		98
29) ETBE	6.741	59	8059	2.06	ug/L		98
30) Tert Butyl Alcohol	5.973	59	4696	18.27	ug/L	#	63
31) Vinyl acetate	6.777	43	28370	7.86	ug/L		98
32) cis-1,2-Dichloroethene	7.131	96	2990	1.95	ug/L		88
33) 2,2-Dichloropropane	7.247	77	3277	1.82	ug/L		86
34) Bromochloromethane	7.357	128	1013	1.39	ug/L	#	67
35) Cyclohexane	7.369	56	5043	2.11	ug/L		91
36) Chloroform	7.411	83	4902	1.97	ug/L		96
37) Ethyl acetate	7.509	43	20430	10.27	ug/L		93
38) Tetrahydrofuran	7.607	42	1961	2.61	ug/L		87
40) Carbon Tetrachloride	7.588	117	3035	2.17	ug/L		86
41) 1,1,1-Trichloroethane	7.655	97	3927	2.05	ug/L		97
42) 2-Butanone	7.741	43	10194	10.87	ug/L		86
43) 1,1-Dichloropropene	7.783	75	3689	2.03	ug/L		91
44) tert-Butyl formate	7.869	59	5125	16.65	ug/L	#	74
45) Propionitrile	8.058	54	4418	16.00	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	21976	18.15	ug/L		97
47) Benzene	8.052	78	12371	2.08	ug/L		91
48) TAME	8.119	73	7402	1.89	ug/L		98
50) 1,2-Dichloroethane	8.247	62	3690	2.13	ug/L		93
51) tert Amyl alcohol	8.283	59	2823	15.60	ug/L	#	77
52) Trichloroethene	8.643	95	2967	1.93	ug/L		91
53) Methylcyclohexane	8.637	83	5017	1.74	ug/L		92
54) Dibromomethane	9.082	93	1681	1.68	ug/L		78
55) 1,2-Dichloropropane	9.179	63	2851	2.10	ug/L		86
56) Bromodichloromethane	9.216	83	3232	1.74	ug/L		88
57) Methyl methacrylate	9.344	41	1036	0.69	ug/L	#	69
59) 2-Chloroethyl vinyl ether	9.759	63	5422	9.17	ug/L		83
60) cis-1,3-Dichloropropene	9.856	75	3148	1.43	ug/L		95
63) Toluene	10.088	91	12851	2.40	ug/L		98
64) Isobutyl alcohol	8.180	43	3088	36.47	ug/L	#	62
65) 2-Nitropropane	10.319	41	2384	13.11	ug/L		92
66) 4-Methyl-2-pentanone	10.429	43	23627	12.46	ug/L		94
67) trans-1,3-Dichloropropene	10.490	75	2439	1.42	ug/L		90
68) Tetrachloroethene	10.496	166	3000	2.10	ug/L		85
69) Ethyl methacrylate	10.600	69	1227	0.76	ug/L	#	53
70) 1,1,2-Trichloroethane	10.649	83	2032	2.13	ug/L		94
71) Dibromochloromethane	10.850	129	1800	1.61	ug/L		82
72) 1,3-Dichloropropane	10.935	76	3681	2.17	ug/L		87
73) 1,2-Dibromoethane	11.124	107	2105	2.02	ug/L		91
74) 3,3-Dimethyl-1-butanol	11.185	57	7002	113.51	ug/L		93
75) 2-hexanone	11.258	43	12536	9.79	ug/L		94
76) 1-Chlorohexane	11.539	91	3129	1.95	ug/L		91
77) Ethylbenzene	11.606	91	14449	2.33	ug/L		79
78) Chlorobenzene	11.612	112	7770	2.24	ug/L		86
79) 1,1,1,2-Tetrachloroethane	11.667	131	1965	1.93	ug/L	#	77
80) m,p-Xylene	11.746	91	19703	4.35	ug/L		94
81) o-Xylene	12.191	91	9353	2.18	ug/L		95
82) Styrene	12.252	104	5225	1.79	ug/L		82
83) Bromoform	12.301	173	857	1.05	ug/L		88
84) Isopropylbenzene	12.490	105	10924	2.18	ug/L		96
88) n-Propylbenzene	12.917	91	13871	2.50	ug/L		99
89) Bromobenzene	12.947	156	2578	2.38	ug/L		90
90) 1,1,2,2-Tetrachloroethane	12.984	83	3374	2.37	ug/L		94
91) 1,3,5-Trimethylbenzene	13.093	105	7986	2.25	ug/L		94
92) 2-Chlorotoluene	13.112	91	8928	2.49	ug/L		96
94) 1,2,3-Trichloropropane	13.148	110	897	2.56	ug/L	#	74
95) Cyclohexanone	13.234	55	99m	2.03	ug/L		
96) 4-Chlorotoluene	13.282	91	7283	2.37	ug/L		97
98) tert-Butylbenzene	13.435	91	5068	2.59	ug/L		88
99) 1,2,4-Trimethylbenzene	13.508	105	7826	2.29	ug/L		91
100) Pentachloroethane	13.496	167	657	1.28	ug/L	#	79
101) sec-Butylbenzene	13.618	105	11218	2.51	ug/L		94
102) 4-Isopropyltoluene	13.746	119	7659	2.19	ug/L		87
103) 1,3-Dichlorobenzene	13.892	146	4712	2.30	ug/L		94
104) 1,2,3-Trimethylbenzene	13.959	105	9032	2.33	ug/L	#	75
105) 1,4-Dichlorobenzene	13.971	146	5384	2.29	ug/L	#	76
106) n-Butylbenzene	14.185	92	4232	2.44	ug/L	#	69
107) Benzyl Chloride	14.203	126	94m	0.21	ug/L		
108) 1,2-Dichlorobenzene	14.392	146	4276	2.28	ug/L		92
109) 1,2-Dibromo-3-Chloropr...	15.130	75	91m	0.43	ug/L		
110) Hexachlorobutadiene	15.654	225	981	2.54	ug/L	#	81
111) 1,2,4-Trichlorobenzene	15.721	180	2038	2.13	ug/L		82
112) Naphthalene	16.013	128	4872	1.83	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

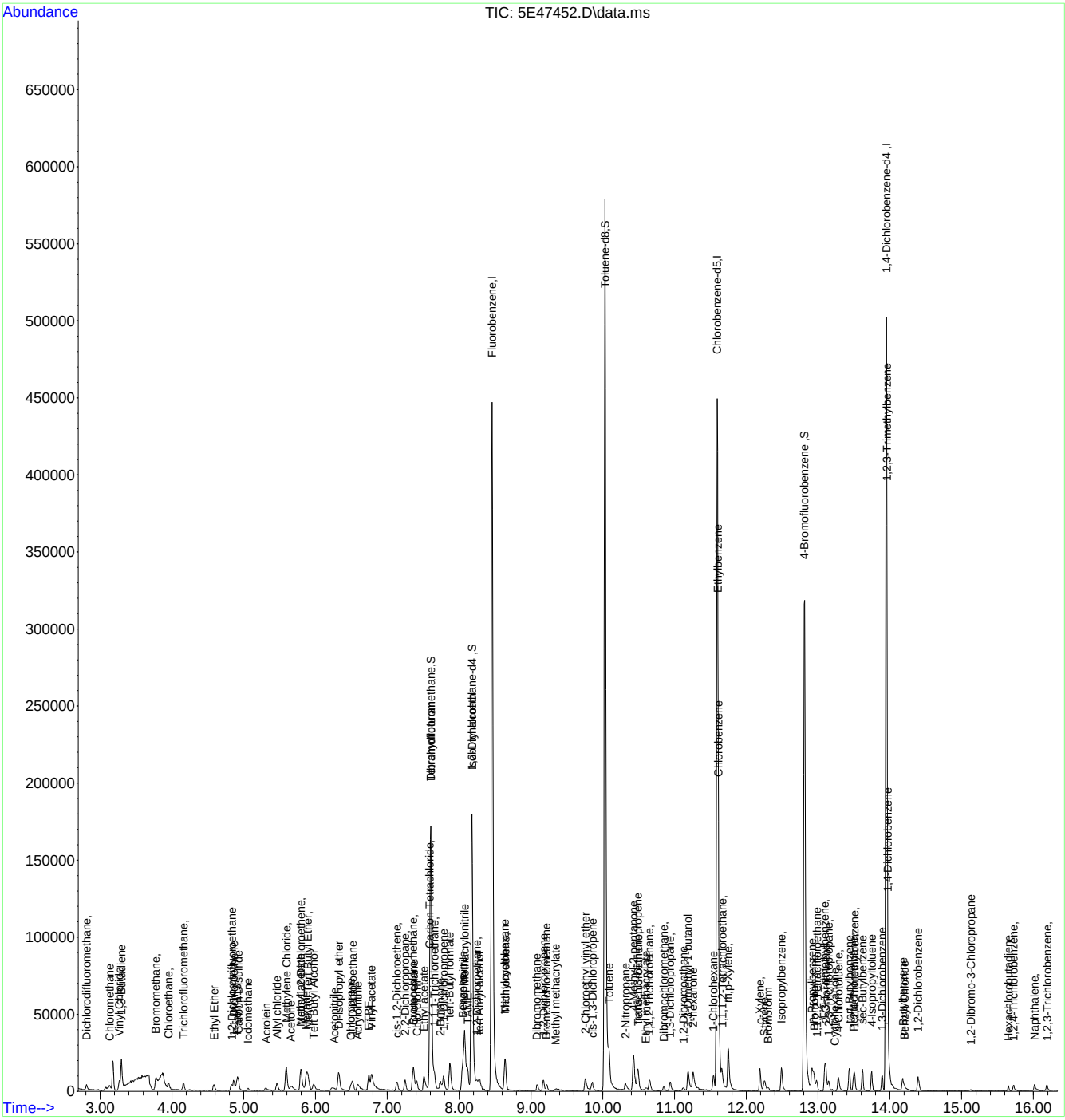
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113) 1,2,3-Trichlorobenzene	16.190	180	1886	2.18	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration



Manual Integration Approval Summary

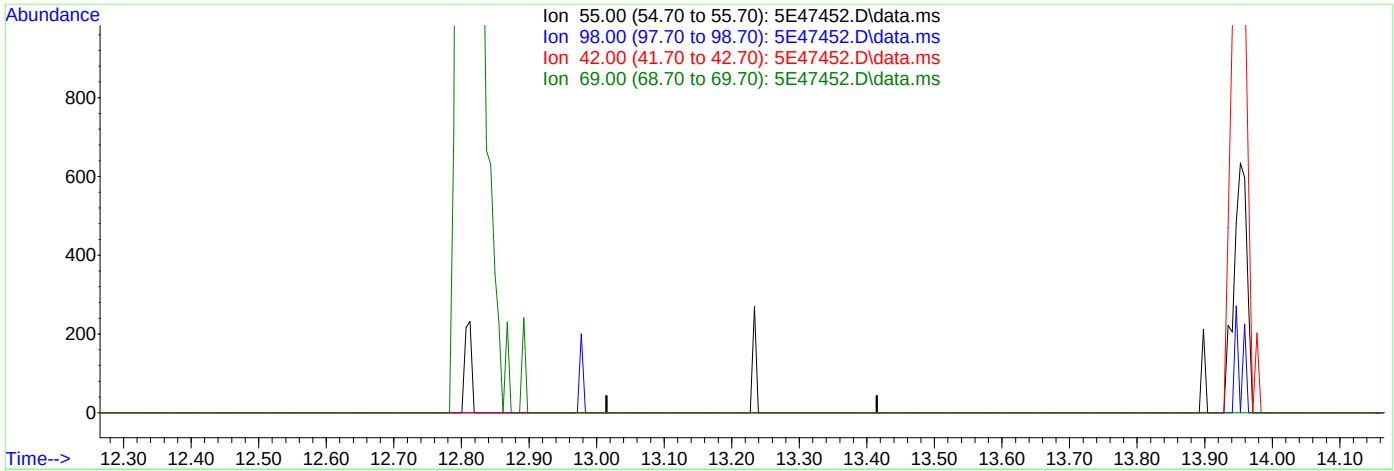
Sample Number: V5E2113-IC2113
Lab FileID: 5E47452.D
Injection Time: 06/25/24 13:12
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

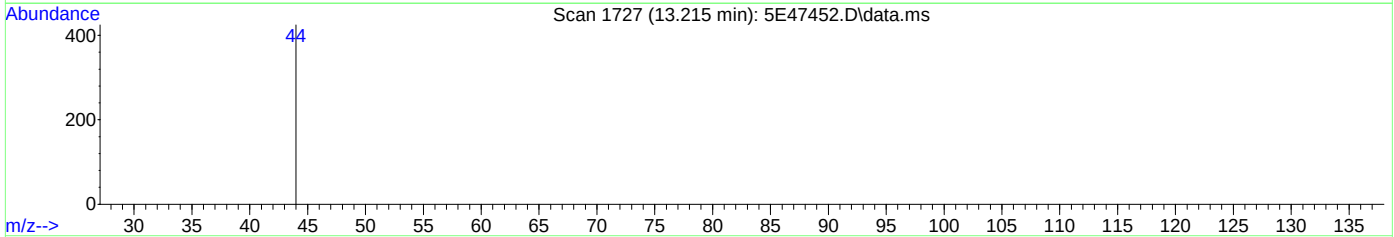
Parameter	CAS	Sig#	R.T. (min.)	Reason
Cyclohexanone	108-94-1		13.23	Missed peak
Benzyl Chloride	100-44-7		14.20	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		15.13	Missed peak

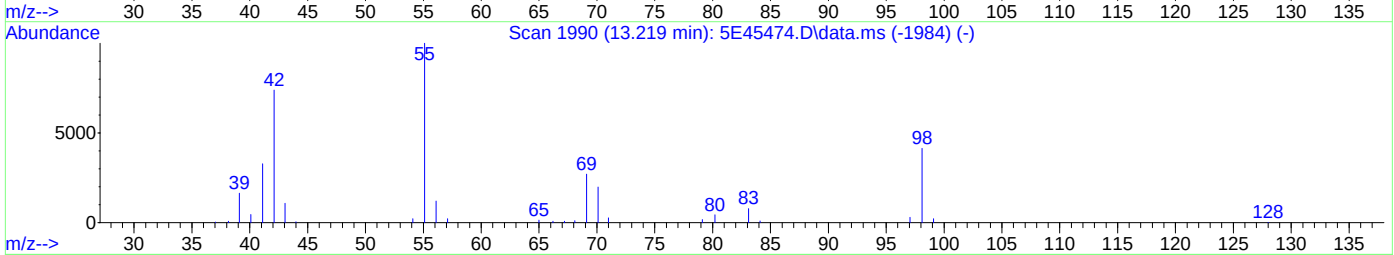
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.215min (-13.215) 0.00ug/L

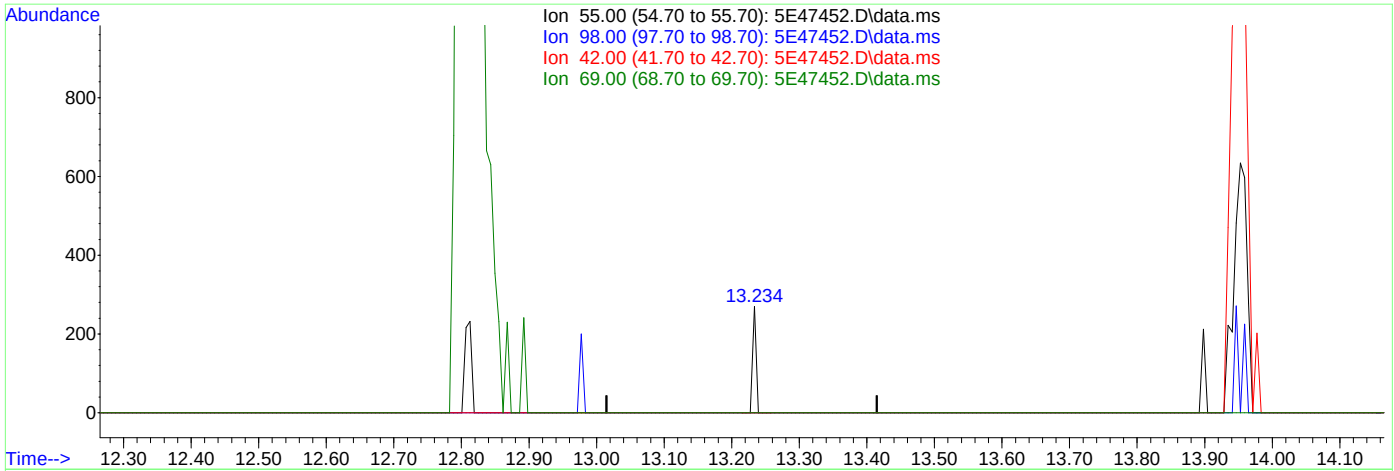
response 0

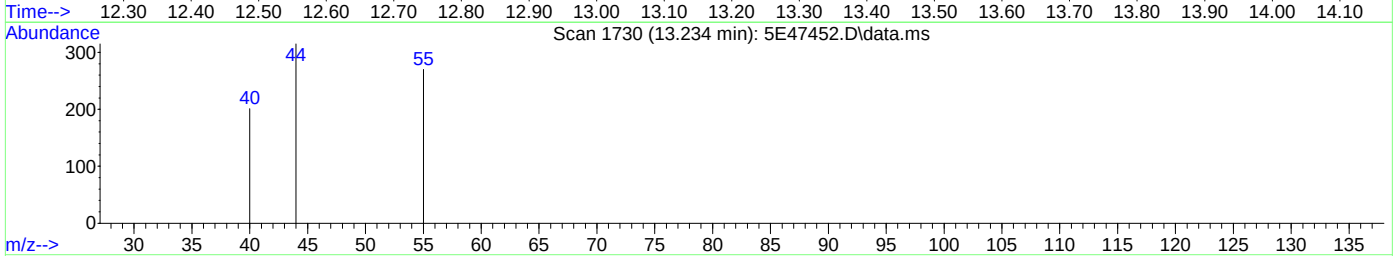
Ion	Exp%	Act%
55.00	100	0.00
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

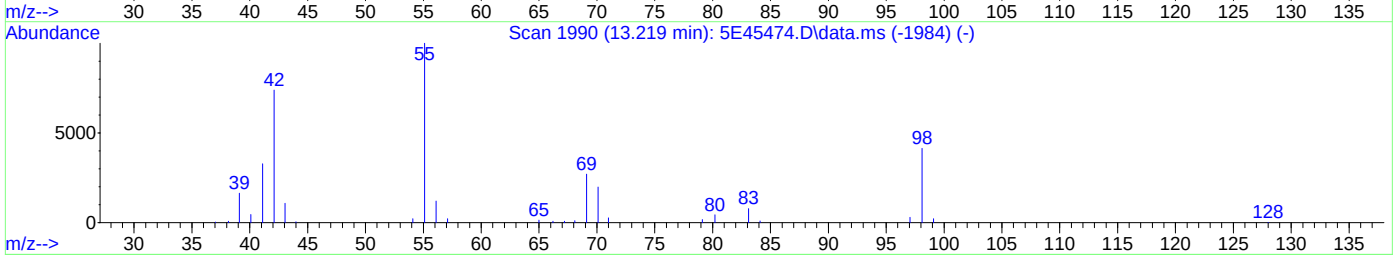
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.234min (+0.019) 2.03ug/L m

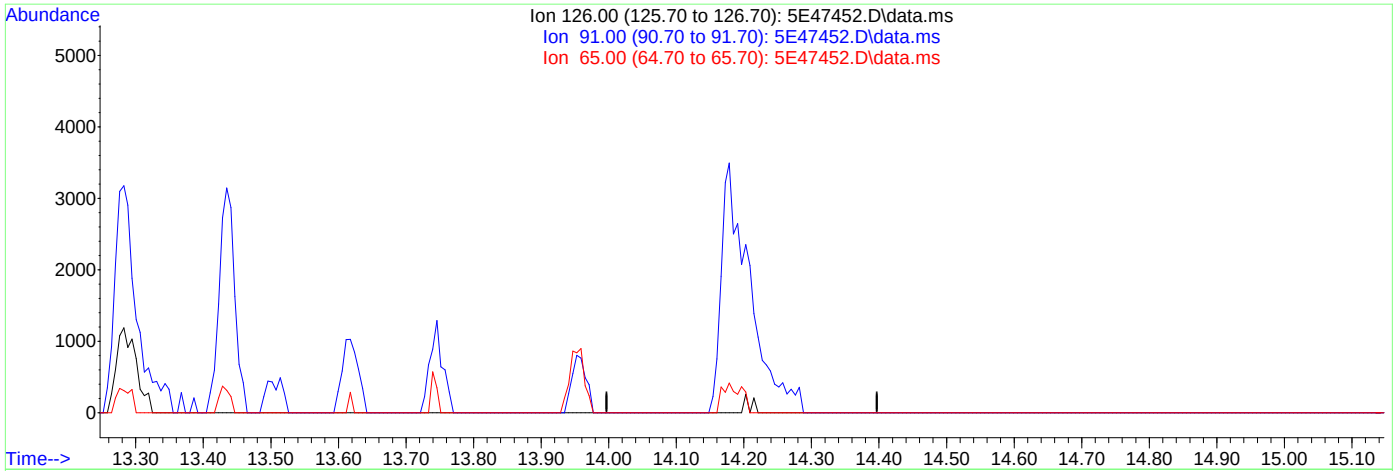
response 99

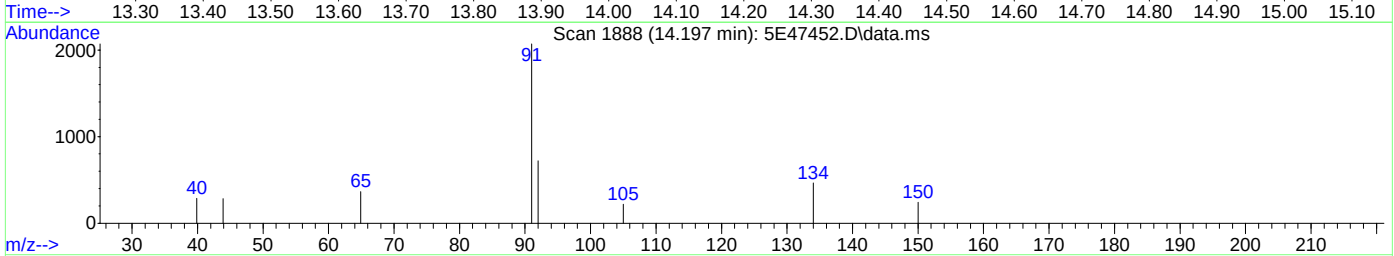
Ion	Exp%	Act%
55.00	100	100
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

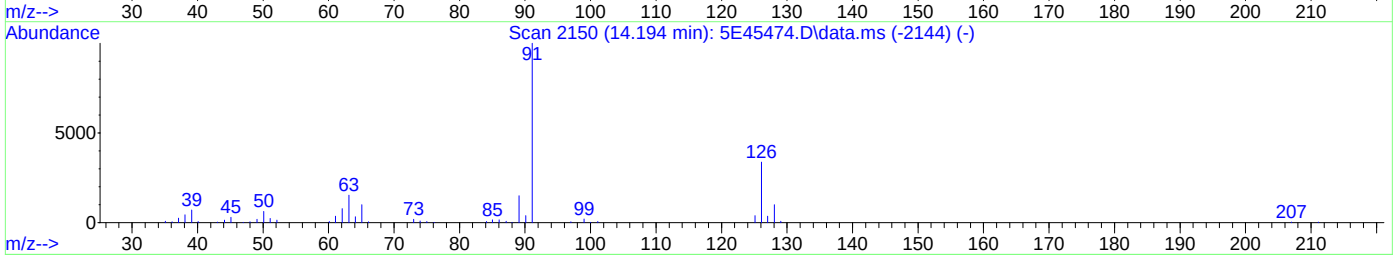
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.197min (-14.197) 0.00ug/L

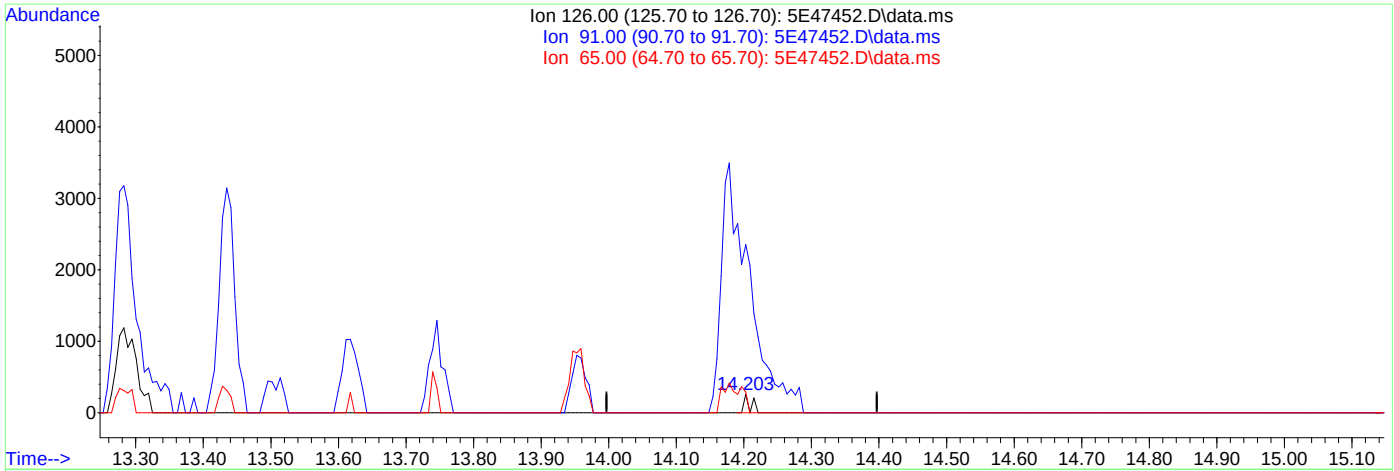
response 0

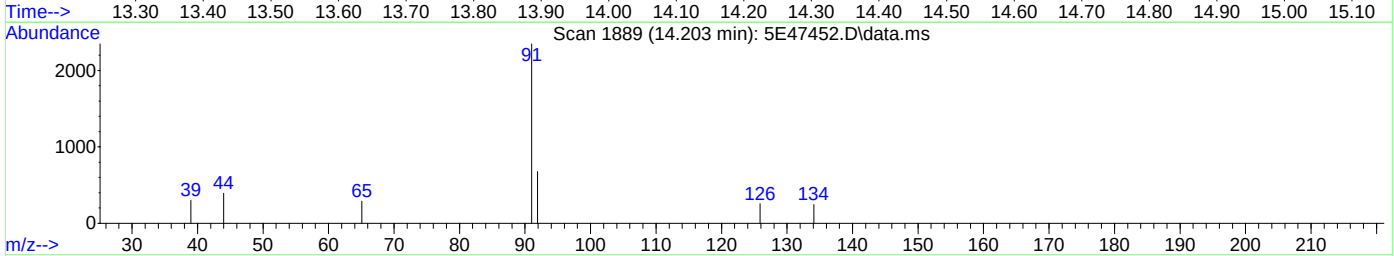
Ion	Exp%	Act%
126.00	100	0.00
91.00	487.50	0.00#
65.00	53.50	0.00#
0.00	0.00	0.00

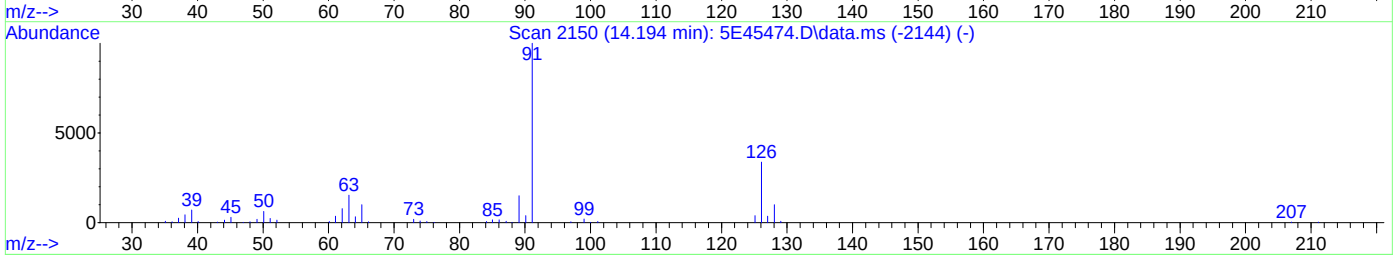
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.203min (+0.006) 0.21ug/L m

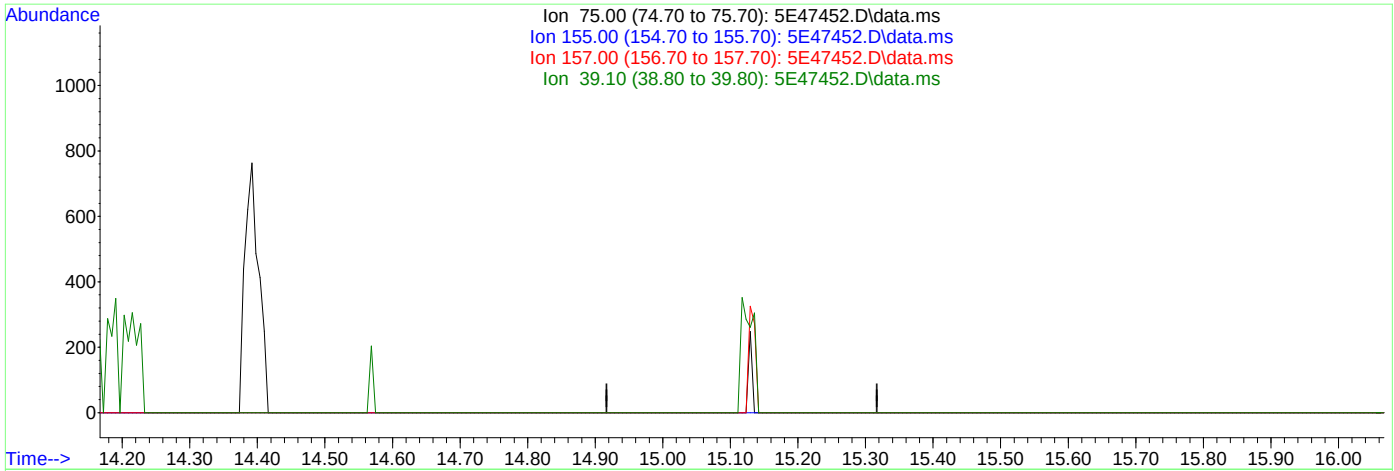
response 94

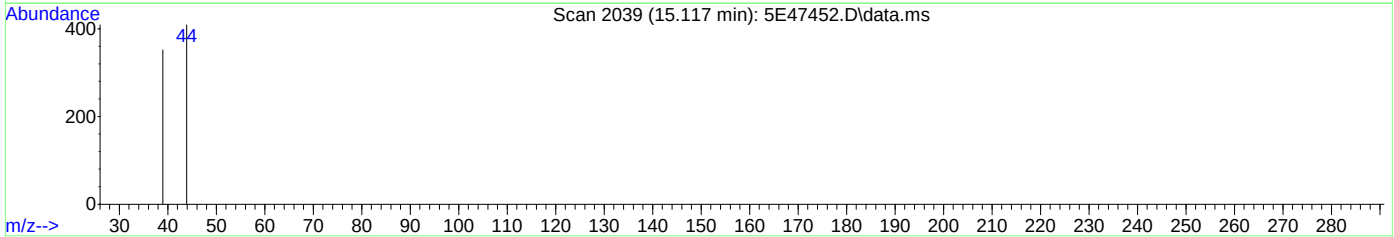
Ion	Exp%	Act%
126.00	100	100
91.00	487.50	914.40#
65.00	53.50	112.06#
0.00	0.00	0.00

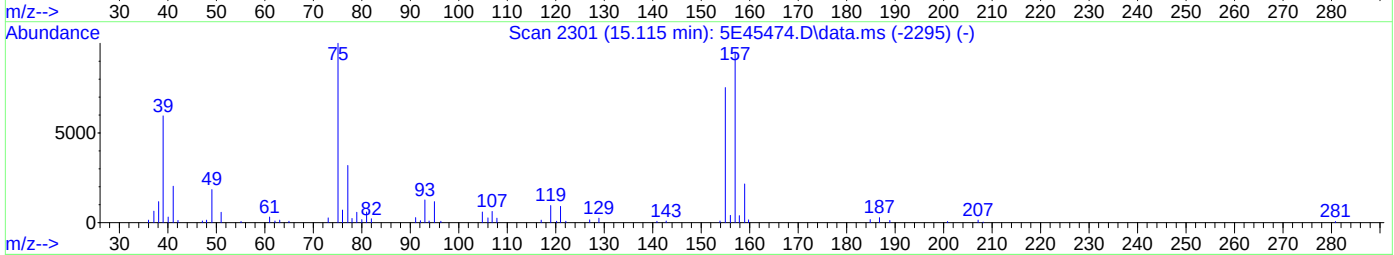
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.117min (-15.117) 0.00ug/L

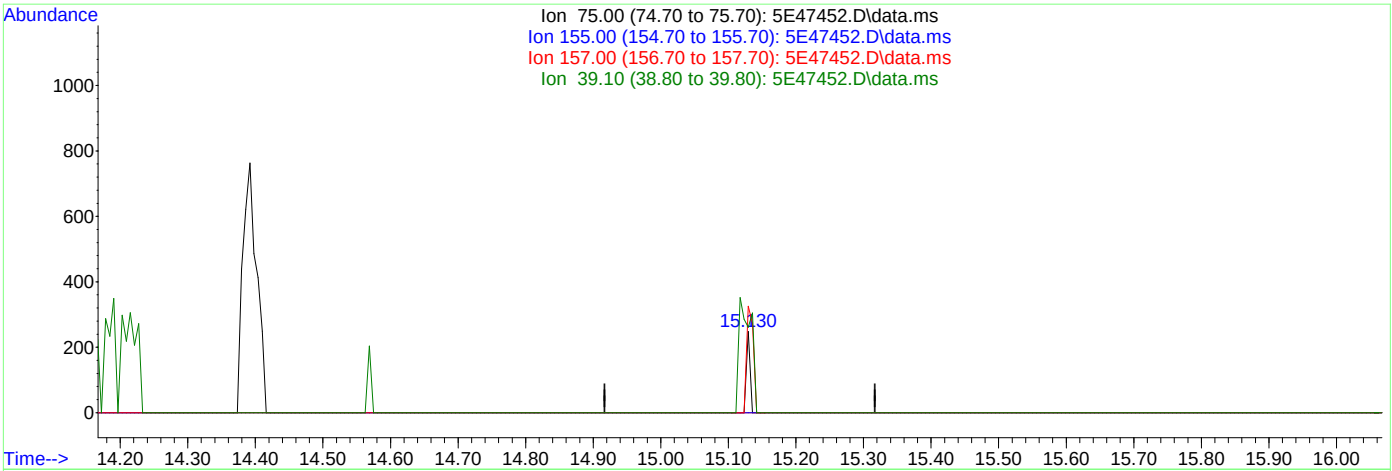
response 0

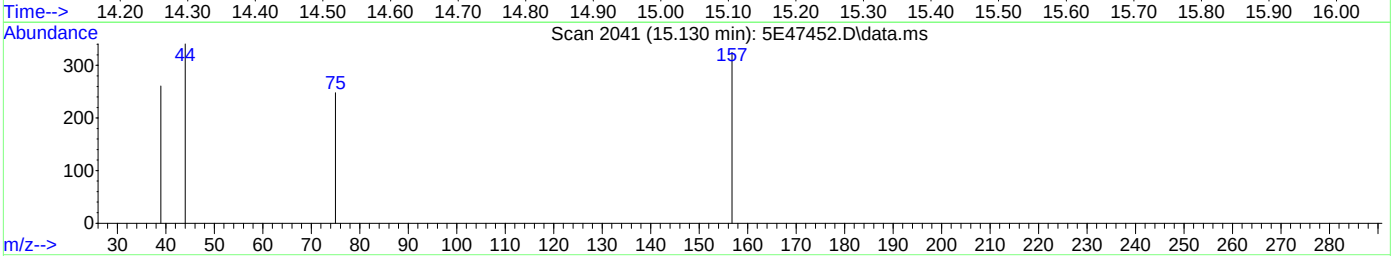
Ion	Exp%	Act%
75.00	100	0.00
155.00	105.70	0.00#
157.00	132.70	0.00#
39.10	93.90	0.00#

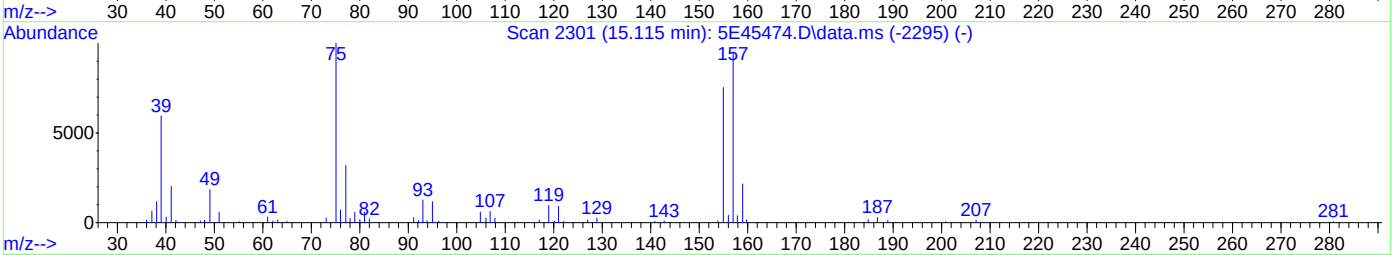
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.130min (+0.012) 0.43ug/L m

response 91

Ion	Exp%	Act%
75.00	100	100
155.00	105.70	0.00#
157.00	132.70	131.05
39.10	93.90	105.24

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	377470	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	245163	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	120377	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	96313	47.36	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.72%				
49) 1,2-Dichloroethane-d4	8.180	65	109007	50.13	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.26%				
62) Toluene-d8	10.033	98	354445	54.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.82%				
86) 4-Bromofluorobenzene	12.807	95	103322	53.87	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	5708	4.49	ug/L		95
3) Chloromethane	3.132	50	9542	5.10	ug/L		94
4) Vinyl Chloride	3.266	62	11666	5.06	ug/L		90
5) 1,3-Butadiene	3.296	39	21371	8.24	ug/L		99
6) Bromomethane	3.772	94	7185	4.16	ug/L		89
7) Chloroethane	3.949	64	7700	4.92	ug/L		94
8) Trichlorofluoromethane	4.162	101	10615	4.49	ug/L		95
9) Ethyl Ether	4.583	59	5017	4.96	ug/L		95
10) Ethanol	4.772	45	165m	11.89	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	5416	4.96	ug/L		85
12) 1,1-Dichloroethene	4.863	61	9093	4.84	ug/L		89
13) Freon 113	4.906	101	5764	4.47	ug/L		92
14) Carbon Disulfide	4.924	76	18266	4.65	ug/L		98
15) Iodomethane	5.064	142	4344	2.07	ug/L		86
16) Acrolein	5.302	56	6380	24.51	ug/L		97
17) Allyl chloride	5.461	41	12342	5.83	ug/L		93
18) Methylene Chloride	5.589	49	15003	7.12	ug/L		86
19) Acetone	5.656	43	15835	26.46	ug/L		95
20) Methyl acetate	5.784	43	32433	19.93	ug/L		94
21) trans-1,2-Dichloroethene	5.790	61	8725	3.96	ug/L		91
22) Hexane	5.875	56	5834	5.28	ug/L	#	88
23) Methyl Tert Butyl Ether	5.894	73	16666	4.67	ug/L		95
24) Acetonitrile	6.217	41	12424	52.42	ug/L		95
25) Di-isopropyl ether	6.320	45	22875	5.29	ug/L		97
26) Chloroprene	6.491	53	9102	5.39	ug/L		89
27) 1,1-Dichloroethane	6.521	63	11797	4.92	ug/L		99
28) Acrylonitrile	6.582	53	19371	30.89	ug/L		90
29) ETBE	6.741	59	17238	4.67	ug/L		96
30) Tert Butyl Alcohol	5.973	59	11383	47.21	ug/L		70
31) Vinyl acetate	6.771	43	79611	21.83	ug/L		97
32) cis-1,2-Dichloroethene	7.131	96	6751	4.69	ug/L		91
33) 2,2-Dichloropropane	7.247	77	7767	4.63	ug/L		97
34) Bromochloromethane	7.357	128	3131	4.74	ug/L		86
35) Cyclohexane	7.363	56	11206	4.99	ug/L		89
36) Chloroform	7.412	83	11025	4.74	ug/L		92
37) Ethyl acetate	7.503	43	53813	28.70	ug/L		97
38) Tetrahydrofuran	7.601	42	4806	6.84	ug/L		90
40) Carbon Tetrachloride	7.588	117	6215	4.61	ug/L		93
41) 1,1,1-Trichloroethane	7.655	97	8174	4.52	ug/L		95
42) 2-Butanone	7.735	43	25222	28.08	ug/L		99
43) 1,1-Dichloropropene	7.783	75	7671	4.47	ug/L		97
44) tert-Butyl formate	7.875	59	11807	39.99	ug/L	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	16259	61.82	ug/L		87
46)	Methacrylonitrile	8.070	41	70791	60.91	ug/L		98
47)	Benzene	8.046	78	26538	4.70	ug/L		96
48)	TAME	8.119	73	16457	4.47	ug/L		88
50)	1,2-Dichloroethane	8.253	62	7992	4.85	ug/L		90
51)	tert Amyl alcohol	8.283	59	7732	45.86	ug/L		86
52)	Trichloroethene	8.643	95	6929	4.81	ug/L		96
53)	Methylcyclohexane	8.637	83	10381	3.56	ug/L		95
54)	Dibromomethane	9.088	93	3732	3.70	ug/L		87
55)	1,2-Dichloropropane	9.173	63	6410	5.05	ug/L		96
56)	Bromodichloromethane	9.222	83	6799	3.62	ug/L		95
57)	Methyl methacrylate	9.332	41	7237	4.83	ug/L	#	85
58)	1,4-Dioxane	9.411	88	1300	73.90	ug/L	#	76
59)	2-Chloroethyl vinyl ether	9.753	63	13103	23.52	ug/L		92
60)	cis-1,3-Dichloropropene	9.850	75	7253	3.28	ug/L		97
63)	Toluene	10.088	91	26166	5.08	ug/L		98
64)	Isobutyl alcohol	8.174	43	9436m	116.20	ug/L		
65)	2-Nitropropane	10.313	41	5742	31.72	ug/L		92
66)	4-Methyl-2-pentanone	10.423	43	55295	29.64	ug/L		95
67)	trans-1,3-Dichloropropene	10.490	75	6074	3.47	ug/L		94
68)	Tetrachloroethene	10.490	166	6206	4.57	ug/L		97
69)	Ethyl methacrylate	10.600	69	7477	4.55	ug/L		91
70)	1,1,2-Trichloroethane	10.655	83	4866	5.41	ug/L		89
71)	Dibromochloromethane	10.844	129	4285	3.76	ug/L		96
72)	1,3-Dichloropropane	10.935	76	8971	5.57	ug/L		85
73)	1,2-Dibromoethane	11.118	107	4747	4.87	ug/L		99
74)	3,3-Dimethyl-1-butanol	11.191	57	18499	292.02	ug/L		96
75)	2-hexanone	11.252	43	33711	27.09	ug/L		97
76)	1-Chlorohexane	11.545	91	7281	4.82	ug/L		88
77)	Ethylbenzene	11.606	91	29965	4.99	ug/L		92
78)	Chlorobenzene	11.612	112	16262	4.90	ug/L		87
79)	1,1,1,2-Tetrachloroethane	11.661	131	4309	4.44	ug/L		91
80)	m,p-Xylene	11.746	91	41597	9.50	ug/L		99
81)	o-Xylene	12.191	91	19764	4.80	ug/L		98
82)	Styrene	12.246	104	12750	4.64	ug/L		95
83)	Bromoform	12.307	173	2379	2.86	ug/L		81
84)	Isopropylbenzene	12.490	105	24252	5.05	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.856	53	1207	3.05	ug/L	#	52
88)	n-Propylbenzene	12.917	91	30015	5.65	ug/L		96
89)	Bromobenzene	12.941	156	5599	5.44	ug/L		86
90)	1,1,2,2-Tetrachloroethane	12.977	83	7595	5.60	ug/L		91
91)	1,3,5-Trimethylbenzene	13.087	105	17700	5.23	ug/L		94
92)	2-Chlorotoluene	13.106	91	19230	5.61	ug/L		96
93)	trans-1,4-Dichloro-2-B...	13.179	53	685	2.01	ug/L	#	35
94)	1,2,3-Trichloropropane	13.148	110	1799	5.40	ug/L		93
95)	Cyclohexanone	13.227	55	1048	23.58	ug/L	#	86
96)	4-Chlorotoluene	13.276	91	16725	5.68	ug/L		93
98)	tert-Butylbenzene	13.435	91	10999	5.89	ug/L		95
99)	1,2,4-Trimethylbenzene	13.502	105	16936	5.20	ug/L		95
100)	Pentachloroethane	13.490	167	2531	5.29	ug/L		87
101)	sec-Butylbenzene	13.618	105	24060	5.62	ug/L		97
102)	4-Isopropyltoluene	13.746	119	17173	5.16	ug/L		96
103)	1,3-Dichlorobenzene	13.892	146	10536	5.40	ug/L		95
104)	1,2,3-Trimethylbenzene	13.959	105	18816	5.06	ug/L		85
105)	1,4-Dichlorobenzene	13.971	146	11939	5.31	ug/L		90
106)	n-Butylbenzene	14.172	92	8442	5.10	ug/L		93
107)	Benzyl Chloride	14.203	126	978	2.20	ug/L	#	77
108)	1,2-Dichlorobenzene	14.392	146	8881	4.99	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

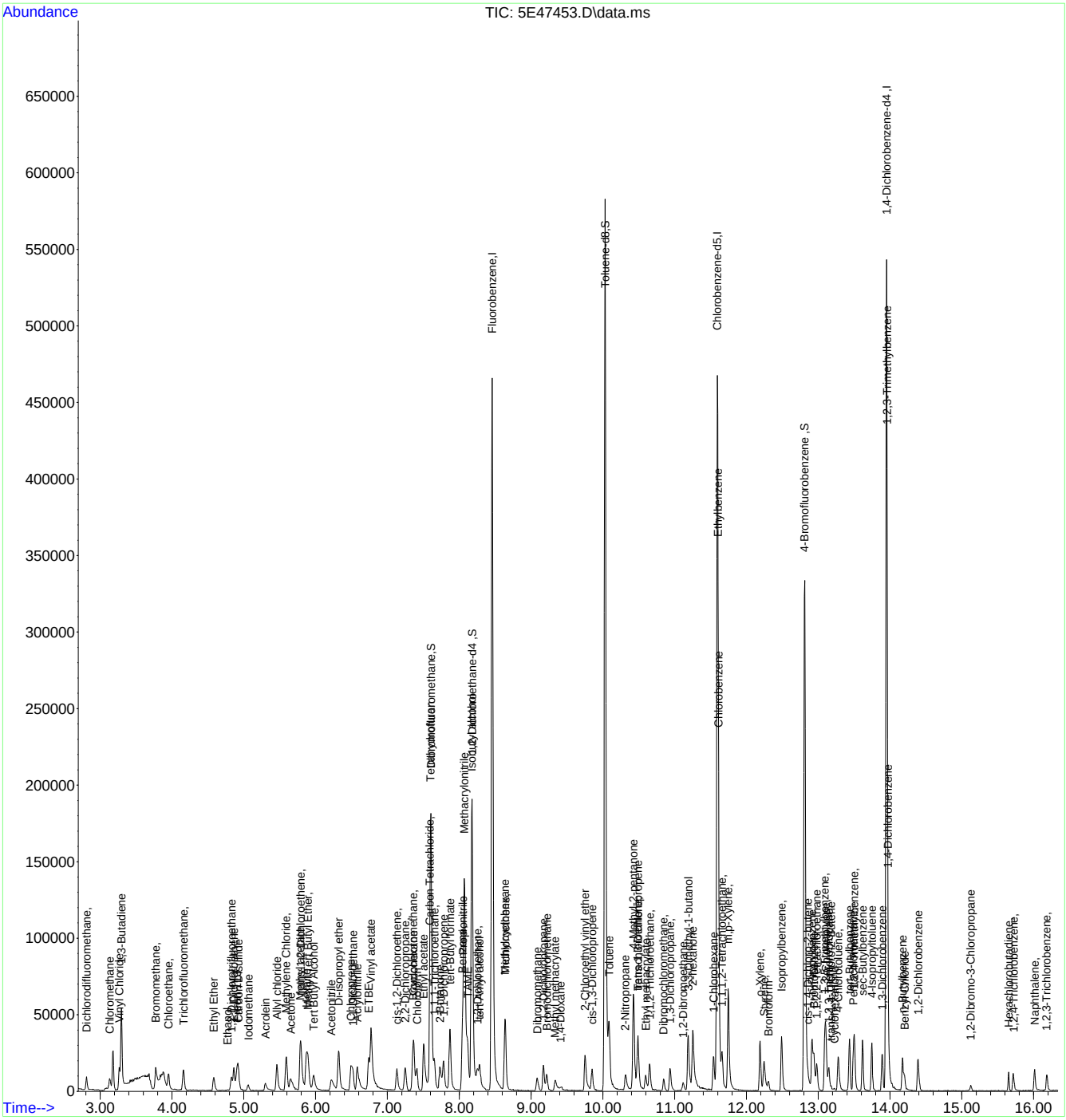
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	753	3.52	ug/L #	65
110) Hexachlorobutadiene	15.654	225	2036	5.50	ug/L	87
111) 1,2,4-Trichlorobenzene	15.721	180	4613	5.10	ug/L	92
112) Naphthalene	16.013	128	12788	5.14	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	4425	5.38	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47453.D
Injection Time: 06/25/24 13:34

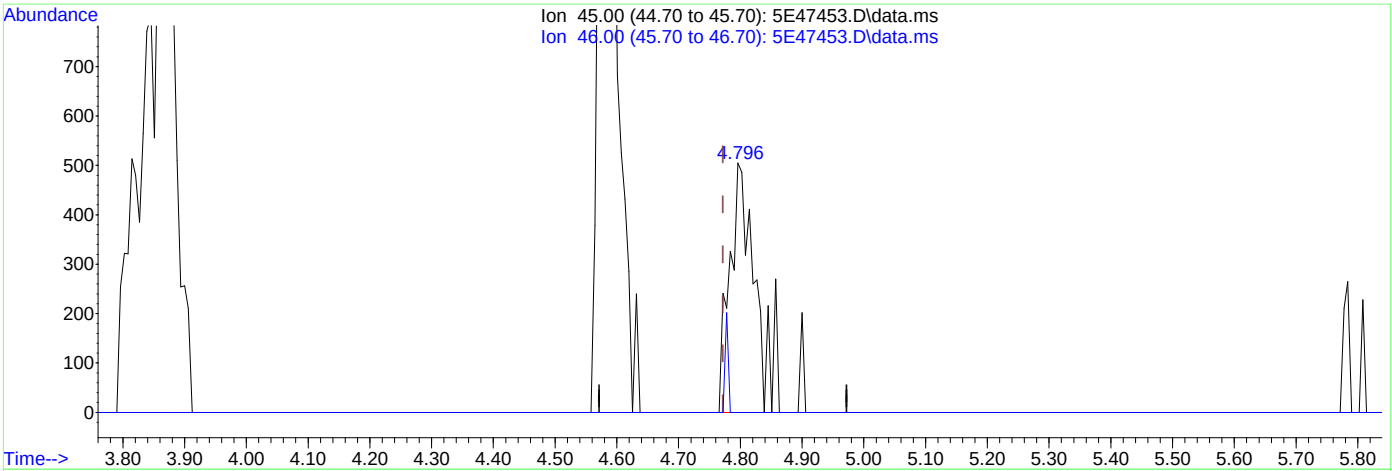
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

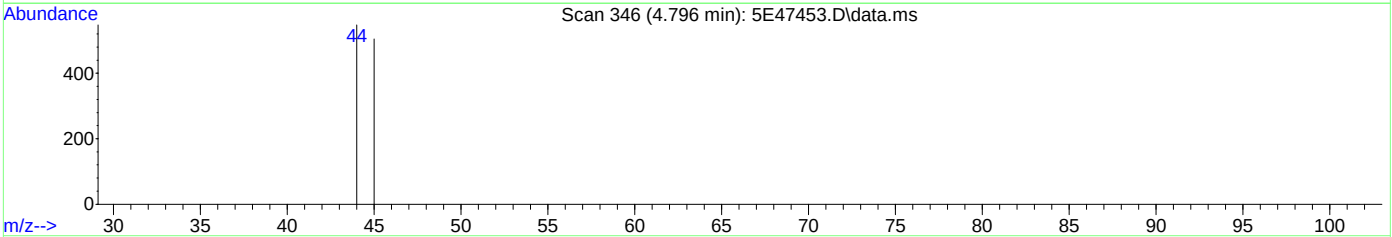
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.77	Missed peak
Isobutyl Alcohol	78-83-1		8.17	Missed peak

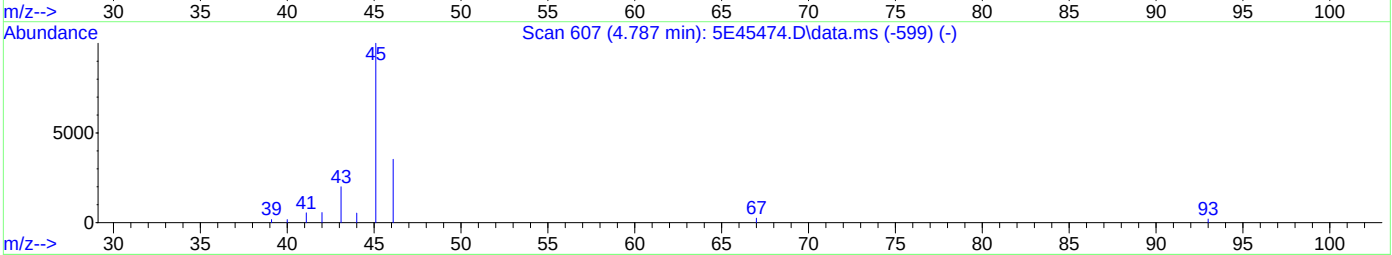
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.796min (+0.024) 90.31ug/L

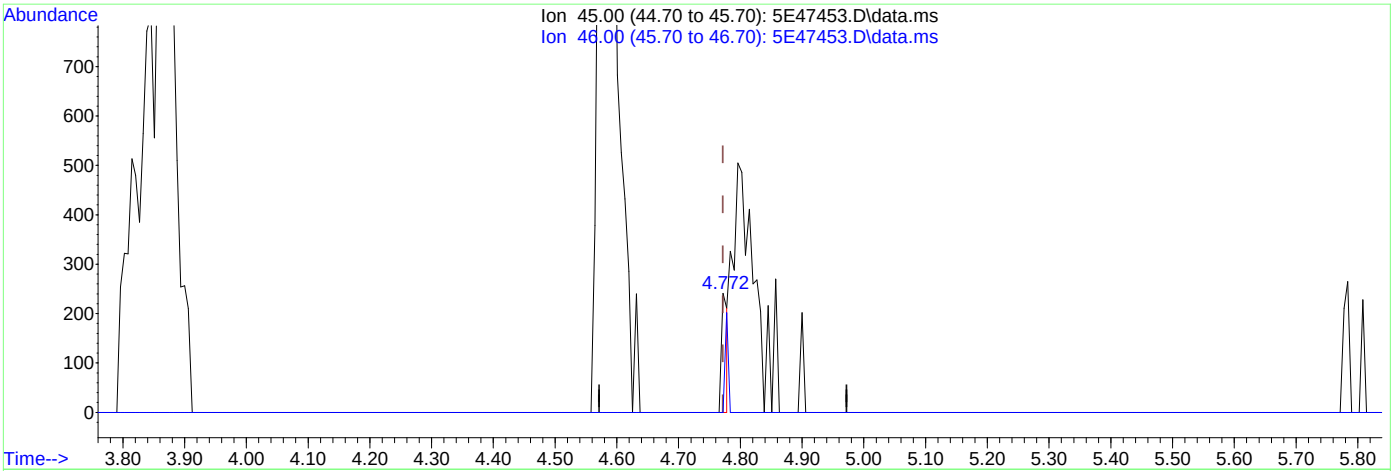
response 1287

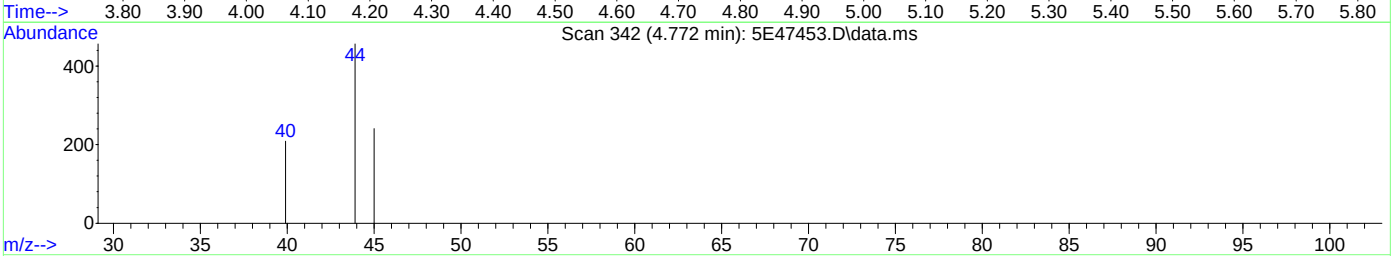
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

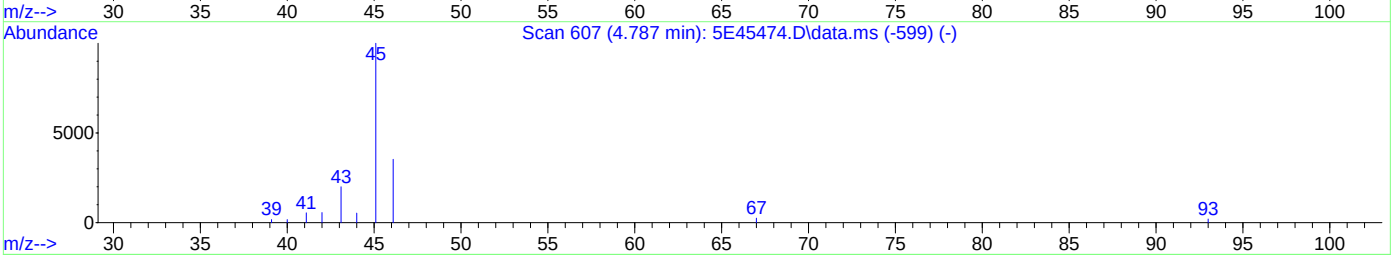
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.772min (-0.000) 11.89ug/L m

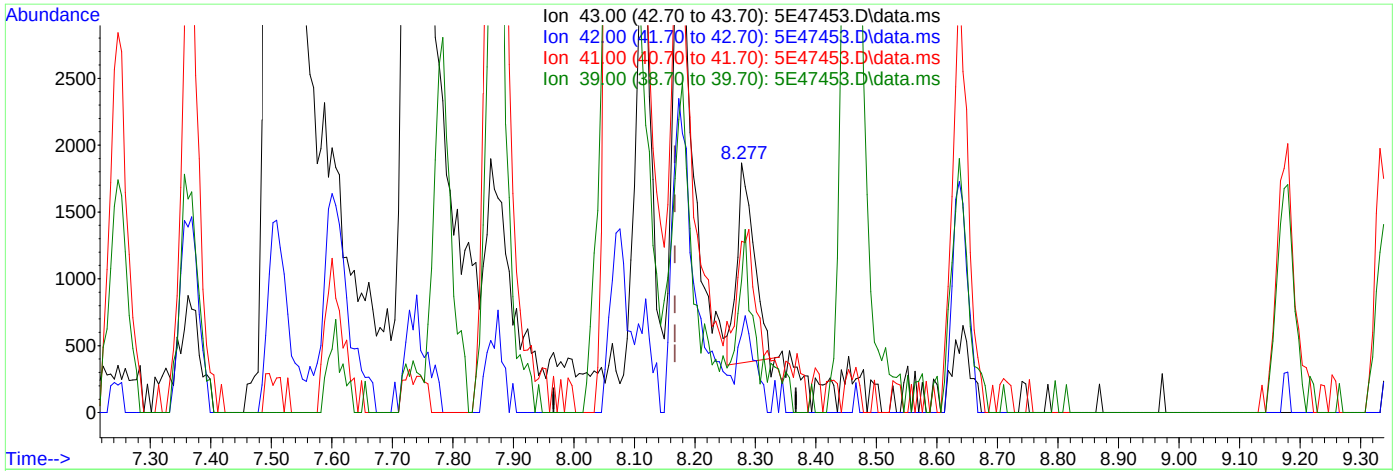
response 165

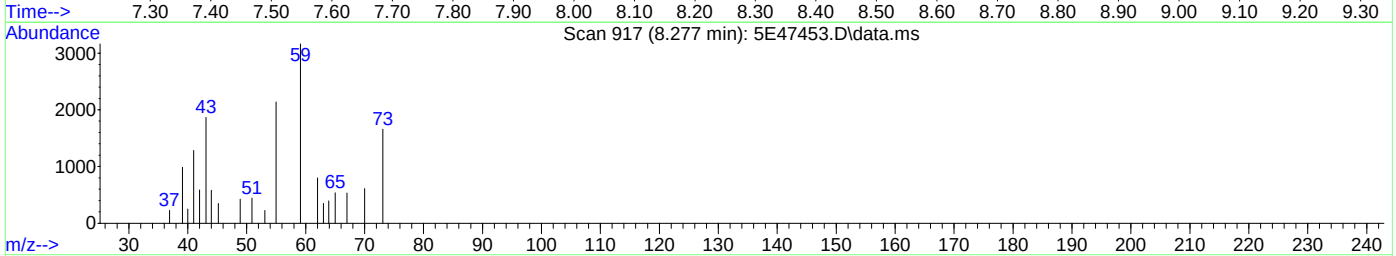
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

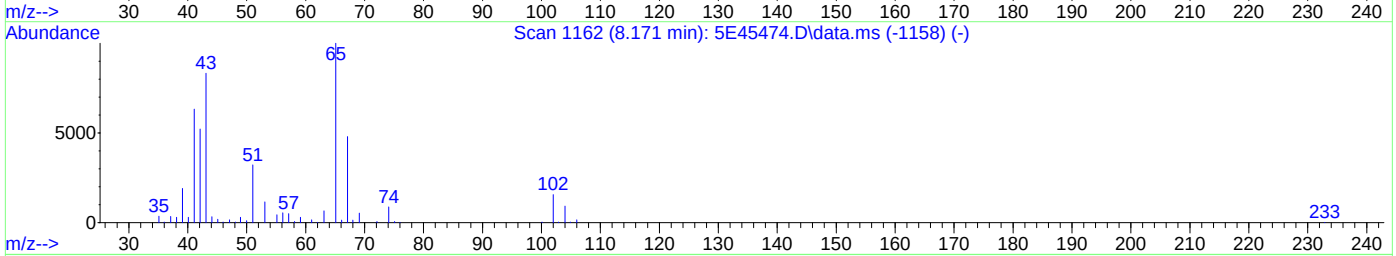
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.277min (+0.110) 35.73ug/L

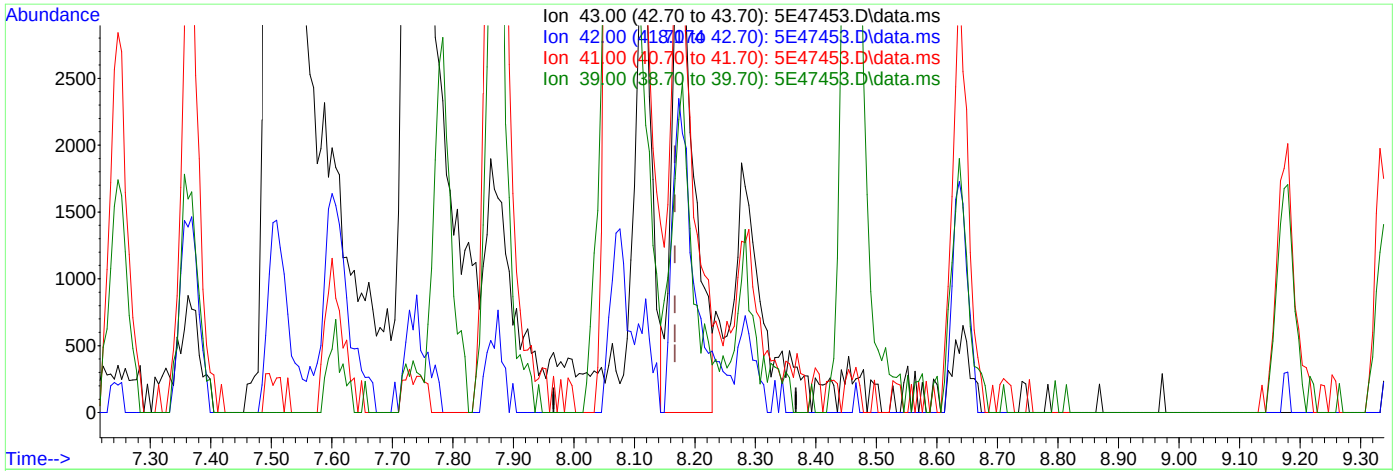
response 2901

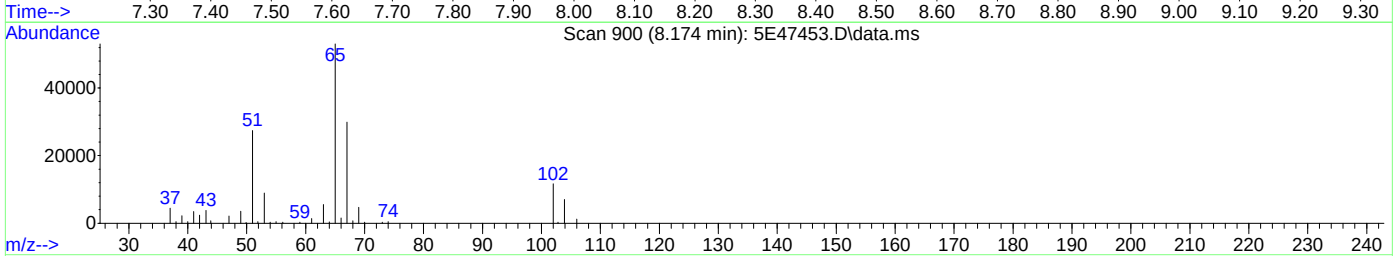
Ion	Exp%	Act%
43.00	100	100
42.00	59.60	40.26
41.00	72.00	66.69
39.00	30.20	45.63

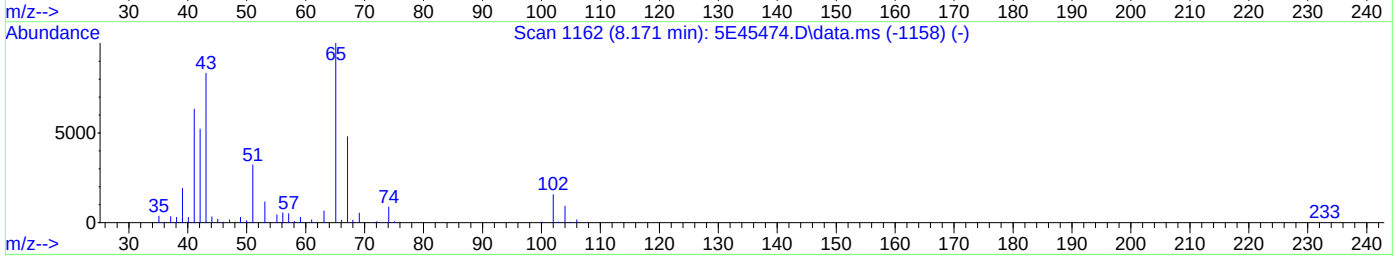
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.174min (+0.007) 116.20ug/L m

response 9436

Ion	Exp%	Act%
43.00	100	100
42.00	59.60	62.75
41.00	72.00	91.61
39.00	30.20	58.52#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	379829	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	241895	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	124924	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	97578	48.06	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.12%				
49) 1,2-Dichloroethane-d4	8.180	65	112652	51.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.36%				
62) Toluene-d8	10.033	98	355667	54.88	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.76%				
86) 4-Bromofluorobenzene	12.813	95	107132	53.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	11705	8.78	ug/L		94
3) Chloromethane	3.138	50	19195	9.43	ug/L		100
4) Vinyl Chloride	3.266	62	24199	9.68	ug/L		93
5) 1,3-Butadiene	3.297	39	37209	13.87	ug/L		94
6) Bromomethane	3.772	94	15436	8.59	ug/L		94
7) Chloroethane	3.949	64	17288	9.96	ug/L		97
8) Trichlorofluoromethane	4.162	101	21177	8.41	ug/L		99
9) Ethyl Ether	4.583	59	12210	10.97	ug/L		95
10) Ethanol	4.784	45	1275m	90.91	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	11893	9.82	ug/L		90
12) 1,1-Dichloroethene	4.863	61	20694	9.98	ug/L		93
13) Freon 113	4.906	101	14287	10.10	ug/L		91
14) Carbon Disulfide	4.924	76	39363	9.28	ug/L		94
15) Iodomethane	5.064	142	13212	6.25	ug/L		96
16) Acrolein	5.296	56	12383	44.28	ug/L		83
17) Allyl chloride	5.461	41	20883	9.26	ug/L		97
18) Methylene Chloride	5.595	49	28851	13.43	ug/L		92
19) Acetone	5.644	43	31834	48.80	ug/L		97
20) Methyl acetate	5.784	43	78174	47.24	ug/L		96
21) trans-1,2-Dichloroethene	5.796	61	20388	9.09	ug/L		97
22) Hexane	5.875	56	13075	10.58	ug/L	#	84
23) Methyl Tert Butyl Ether	5.894	73	39046	10.02	ug/L		95
24) Acetonitrile	6.217	41	24353	100.93	ug/L		99
25) Di-isopropyl ether	6.320	45	55161	11.32	ug/L		96
26) Chloroprene	6.491	53	16198	9.07	ug/L		87
27) 1,1-Dichloroethane	6.521	63	28538	10.75	ug/L		96
28) Acrylonitrile	6.576	53	31019	43.77	ug/L		94
29) ETBE	6.741	59	43087	10.65	ug/L		92
30) Tert Butyl Alcohol	5.973	59	27324	105.16	ug/L		89
31) Vinyl acetate	6.771	43	159644	42.96	ug/L		100
32) cis-1,2-Dichloroethene	7.125	96	16012	10.18	ug/L		92
33) 2,2-Dichloropropane	7.253	77	17396	9.58	ug/L		96
34) Bromochloromethane	7.351	128	7320	10.36	ug/L	#	73
35) Cyclohexane	7.369	56	25916	10.45	ug/L		92
36) Chloroform	7.412	83	25943	10.23	ug/L		94
37) Ethyl acetate	7.503	43	103526	48.69	ug/L		96
38) Tetrahydrofuran	7.601	42	10617	13.07	ug/L		80
40) Carbon Tetrachloride	7.588	117	14626	10.00	ug/L		93
41) 1,1,1-Trichloroethane	7.649	97	19725	10.02	ug/L		95
42) 2-Butanone	7.729	43	55149	56.13	ug/L		98
43) 1,1-Dichloropropene	7.783	75	18602	10.02	ug/L		95
44) tert-Butyl formate	7.875	59	31553	98.87	ug/L	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	32278	110.38	ug/L		90
46)	Methacrylonitrile	8.070	41	141465	109.75	ug/L		98
47)	Benzene	8.046	78	60515	9.76	ug/L		98
48)	TAME	8.113	73	39757	9.96	ug/L		95
50)	1,2-Dichloroethane	8.253	62	19339	10.65	ug/L		92
51)	tert Amyl alcohol	8.283	59	19707	108.39	ug/L		90
52)	Trichloroethene	8.643	95	14999	9.56	ug/L		98
53)	Methylcyclohexane	8.637	83	24377	8.24	ug/L		98
54)	Dibromomethane	9.082	93	9327	9.10	ug/L		93
55)	1,2-Dichloropropane	9.173	63	15169	10.73	ug/L		94
56)	Bromodichloromethane	9.222	83	16685	8.75	ug/L		96
57)	Methyl methacrylate	9.332	41	14788	9.69	ug/L		97
58)	1,4-Dioxane	9.417	88	3141	187.21	ug/L		96
59)	2-Chloroethyl vinyl ether	9.753	63	33010	55.20	ug/L		97
60)	cis-1,3-Dichloropropene	9.850	75	19302	8.61	ug/L		96
63)	Toluene	10.088	91	60234	10.69	ug/L		100
64)	Isobutyl alcohol	8.174	43	18482	211.37	ug/L		94
65)	2-Nitropropane	10.313	41	13158	65.81	ug/L		91
66)	4-Methyl-2-pentanone	10.423	43	109816	53.53	ug/L		94
67)	trans-1,3-Dichloropropene	10.484	75	16762	9.62	ug/L		92
68)	Tetrachloroethene	10.490	166	13965	9.58	ug/L		90
69)	Ethyl methacrylate	10.588	69	16104	9.82	ug/L		95
70)	1,1,2-Trichloroethane	10.655	83	11417	11.52	ug/L		96
71)	Dibromochloromethane	10.844	129	10265	9.04	ug/L		96
72)	1,3-Dichloropropane	10.935	76	21905	12.39	ug/L		93
73)	1,2-Dibromoethane	11.118	107	12531	11.91	ug/L		86
74)	3,3-Dimethyl-1-butanol	11.185	57	45855	626.28	ug/L		93
75)	2-hexanone	11.252	43	74293	55.16	ug/L		99
76)	1-Chlorohexane	11.539	91	17746	10.88	ug/L		90
77)	Ethylbenzene	11.606	91	65821	10.09	ug/L		95
78)	Chlorobenzene	11.612	112	37393	10.37	ug/L		92
79)	1,1,1,2-Tetrachloroethane	11.661	131	10833	10.41	ug/L		92
80)	m,p-Xylene	11.746	91	96519	20.35	ug/L		99
81)	o-Xylene	12.191	91	48072	10.79	ug/L		97
82)	Styrene	12.240	104	32311	11.01	ug/L		97
83)	Bromoform	12.307	173	5939	7.18	ug/L		96
84)	Isopropylbenzene	12.490	105	54904	10.53	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.856	53	2513	6.62	ug/L		86
88)	n-Propylbenzene	12.911	91	70594	11.36	ug/L		96
89)	Bromobenzene	12.941	156	13495	11.32	ug/L		86
90)	1,1,2,2-Tetrachloroethane	12.978	83	20094	12.76	ug/L		96
91)	1,3,5-Trimethylbenzene	13.093	105	43384	11.13	ug/L		99
92)	2-Chlorotoluene	13.106	91	45863	11.44	ug/L		96
93)	trans-1,4-Dichloro-2-B...	13.173	53	2309	6.62	ug/L	#	52
94)	1,2,3-Trichloropropane	13.142	110	4936	12.66	ug/L		93
95)	Cyclohexanone	13.221	55	2225	47.05	ug/L	#	81
96)	4-Chlorotoluene	13.276	91	38976	11.44	ug/L		99
98)	tert-Butylbenzene	13.435	91	23429	10.65	ug/L		94
99)	1,2,4-Trimethylbenzene	13.502	105	42604	11.31	ug/L		99
100)	Pentachloroethane	13.490	167	5475	10.43	ug/L	#	78
101)	sec-Butylbenzene	13.618	105	53766	10.72	ug/L		96
102)	4-Isopropyltoluene	13.746	119	41702	10.96	ug/L		97
103)	1,3-Dichlorobenzene	13.886	146	24339	10.83	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	46792	10.89	ug/L		95
105)	1,4-Dichlorobenzene	13.971	146	28517	11.04	ug/L		95
106)	n-Butylbenzene	14.172	92	21209	11.01	ug/L		95
107)	Benzyl Chloride	14.197	126	2982	6.42	ug/L	#	52
108)	1,2-Dichlorobenzene	14.392	146	23024	11.30	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

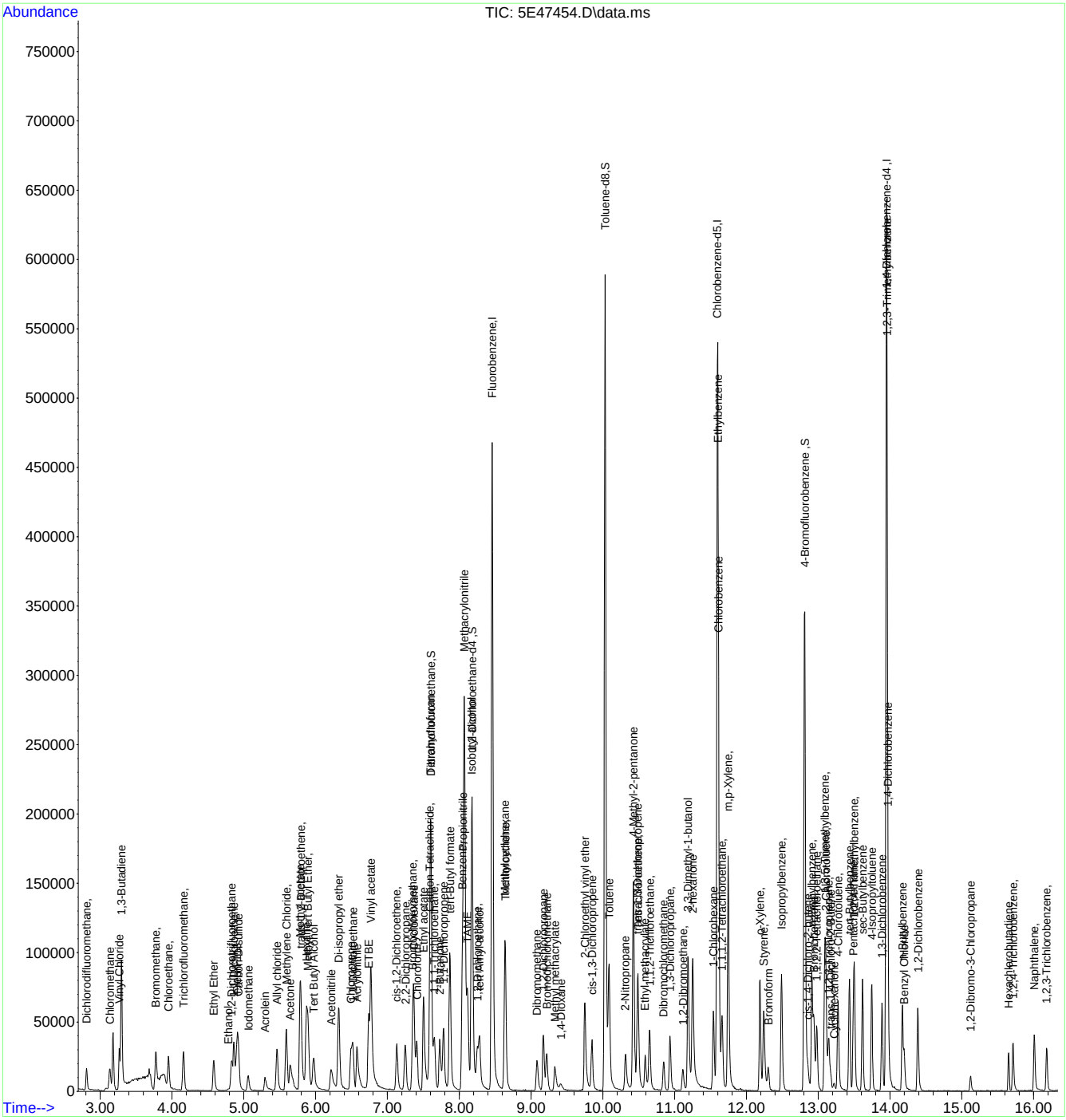
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	2106	9.38	ug/L	82
110) Hexachlorobutadiene	15.654	225	4184	9.61	ug/L	92
111) 1,2,4-Trichlorobenzene	15.715	180	11197	10.74	ug/L	97
112) Naphthalene	16.007	128	32879	11.62	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	9997	10.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47454.D
Injection Time: 06/25/24 13:57

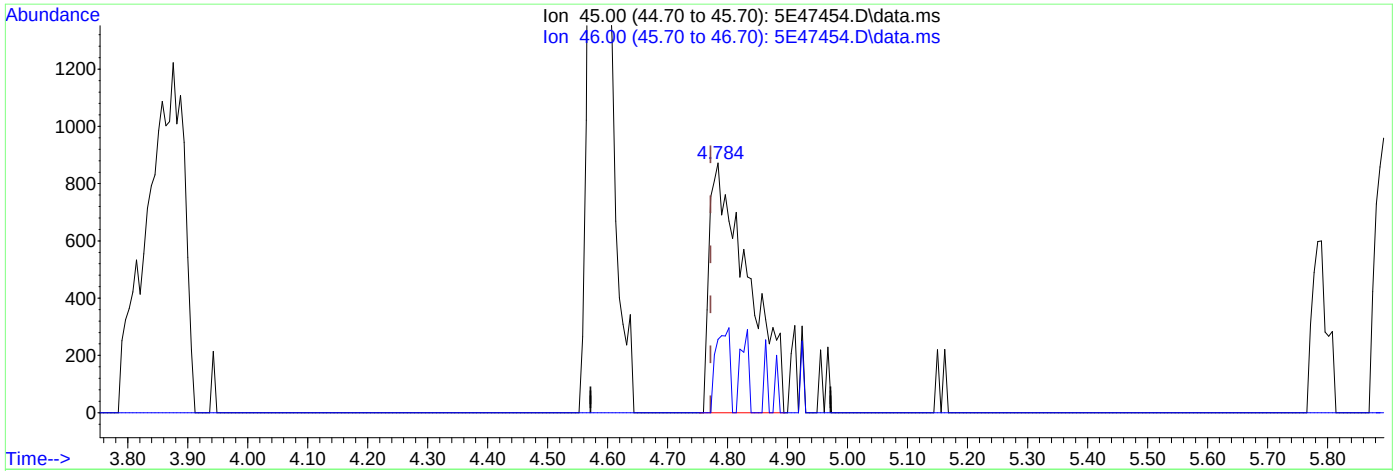
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

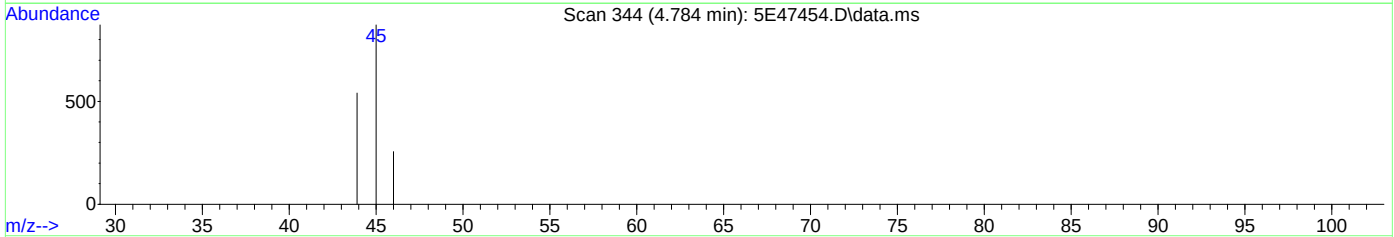
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.78	Missed peak

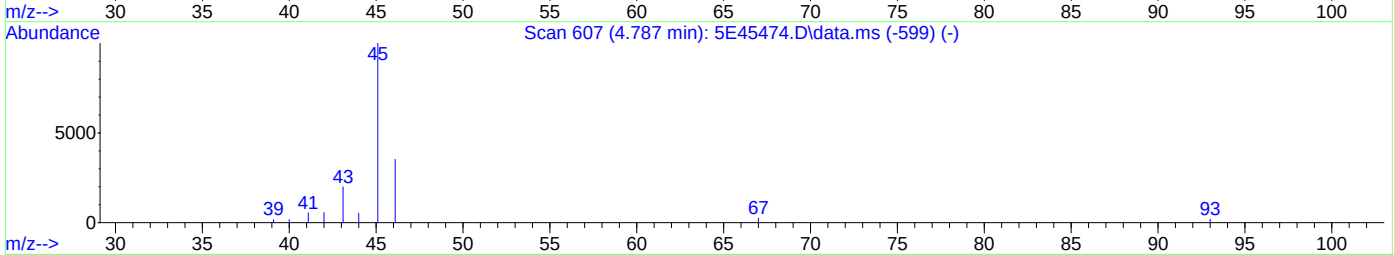
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 262.03ug/L

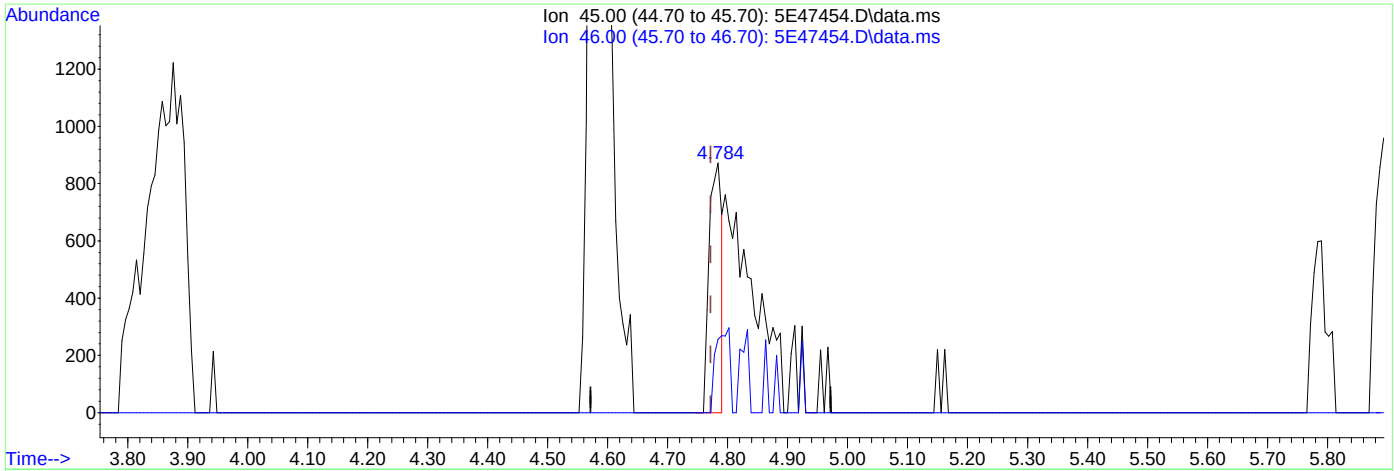
response 3896

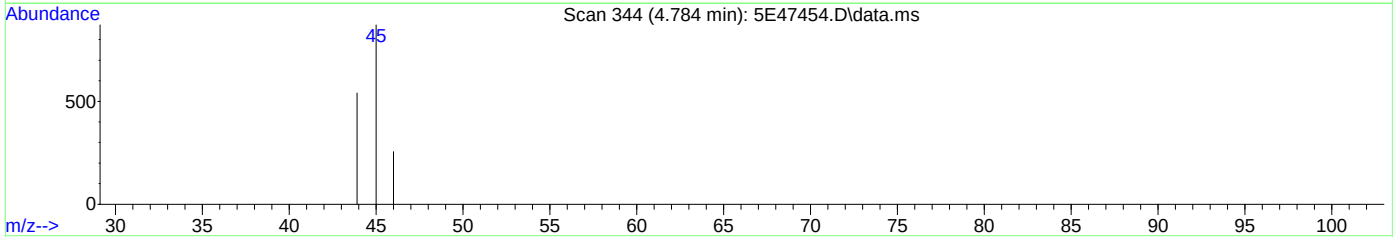
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

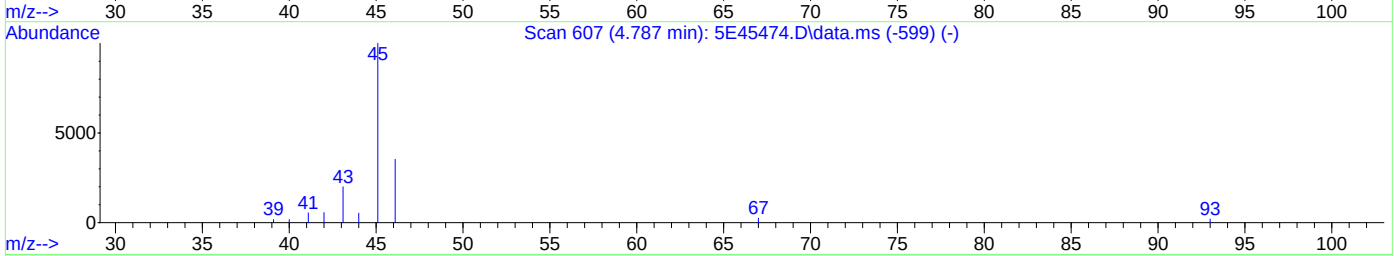
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 90.91ug/L m

response 1275

Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	401373	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	261821	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	136803	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.601	113	102756	48.14	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.28%				
49) 1,2-Dichloroethane-d4	8.180	65	124516	53.04	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.08%				
62) Toluene-d8	10.033	98	373330	52.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.52%				
86) 4-Bromofluorobenzene	12.807	95	114004	51.89	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	28935	21.14	ug/L		98
3) Chloromethane	3.132	50	46452	21.79	ug/L		97
4) Vinyl Chloride	3.266	62	58821	22.41	ug/L		100
5) 1,3-Butadiene	3.296	39	82402	29.39	ug/L		98
6) Bromomethane	3.772	94	37197	19.86	ug/L		98
7) Chloroethane	3.949	64	52286	28.46	ug/L		96
8) Trichlorofluoromethane	4.156	101	55171	21.06	ug/L		98
9) Ethyl Ether	4.583	59	28449	23.54	ug/L		98
10) Ethanol	4.772	45	11571	699.73	ug/L		97
11) 1,2-Dichlorotrifluoroe...	4.833	67	30132	23.31	ug/L		93
12) 1,1-Dichloroethene	4.863	61	48127	21.70	ug/L		97
13) Freon 113	4.900	101	33330	22.04	ug/L		93
14) Carbon Disulfide	4.924	76	91709	20.37	ug/L		97
15) Iodomethane	5.058	142	36119	16.31	ug/L		96
16) Acrolein	5.290	56	38340	132.20	ug/L		98
17) Allyl chloride	5.461	41	54119	22.79	ug/L		95
18) Methylene Chloride	5.589	49	54175	23.55	ug/L		91
19) Acetone	5.644	43	88953	128.77	ug/L		98
20) Methyl acetate	5.778	43	201586	114.36	ug/L		97
21) trans-1,2-Dichloroethene	5.790	61	47746	20.06	ug/L		96
22) Hexane	5.875	56	30253	22.78	ug/L	#	90
23) Methyl Tert Butyl Ether	5.894	73	95651	22.93	ug/L		93
24) Acetonitrile	6.211	41	65035	254.23	ug/L		96
25) Di-isopropyl ether	6.320	45	127355	23.97	ug/L		96
26) Chloroprene	6.491	53	44528	23.76	ug/L		94
27) 1,1-Dichloroethane	6.515	63	65875	23.00	ug/L		96
28) Acrylonitrile	6.570	53	97594	131.25	ug/L		96
29) ETBE	6.741	59	101826	23.30	ug/L		95
30) Tert Butyl Alcohol	5.973	59	70699	254.70	ug/L		95
31) Vinyl acetate	6.765	43	501239	127.35	ug/L		99
32) cis-1,2-Dichloroethene	7.125	96	37886	22.66	ug/L		92
33) 2,2-Dichloropropane	7.247	77	43143	22.39	ug/L		96
34) Bromochloromethane	7.351	128	16872	22.50	ug/L	#	81
35) Cyclohexane	7.363	56	62219	23.34	ug/L		93
36) Chloroform	7.405	83	63591	23.47	ug/L		98
37) Ethyl acetate	7.497	43	304269	134.09	ug/L		98
38) Tetrahydrofuran	7.601	42	22433	24.77	ug/L		86
40) Carbon Tetrachloride	7.588	117	36028	21.97	ug/L		94
41) 1,1,1-Trichloroethane	7.655	97	46562	22.12	ug/L		95
42) 2-Butanone	7.722	43	164639	158.01	ug/L		94
43) 1,1-Dichloropropene	7.777	75	45722	23.03	ug/L		95
44) tert-Butyl formate	7.869	59	85524	232.66	ug/L		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	88740	264.82	ug/L		93
46) Methacrylonitrile	8.070	41	383620	259.36	ug/L		99
47) Benzene	8.046	78	144322	21.74	ug/L		96
48) TAME	8.113	73	100009	23.44	ug/L		89
50) 1,2-Dichloroethane	8.253	62	46593	23.76	ug/L		94
51) tert Amyl alcohol	8.283	59	51992	265.73	ug/L		94
52) Trichloroethene	8.637	95	35731	21.38	ug/L		92
53) Methylcyclohexane	8.637	83	58415	18.63	ug/L		94
54) Dibromomethane	9.082	93	22429	20.69	ug/L		91
55) 1,2-Dichloropropane	9.173	63	36281	23.82	ug/L		99
56) Bromodichloromethane	9.216	83	40704	20.14	ug/L		99
57) Methyl methacrylate	9.326	41	39604	24.49	ug/L		90
58) 1,4-Dioxane	9.417	88	9242	497.54	ug/L		88
59) 2-Chloroethyl vinyl ether	9.746	63	88253	137.03	ug/L		94
60) cis-1,3-Dichloropropene	9.844	75	48632	20.45	ug/L		97
63) Toluene	10.088	91	138665	22.28	ug/L		98
64) Isobutyl alcohol	8.174	43	55959	580.19	ug/L		94
65) 2-Nitropropane	10.313	41	38815	158.39	ug/L		98
66) 4-Methyl-2-pentanone	10.423	43	332968	148.23	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	43541	22.92	ug/L		93
68) Tetrachloroethene	10.484	166	35579	22.53	ug/L		95
69) Ethyl methacrylate	10.588	69	45271	25.48	ug/L		95
70) 1,1,2-Trichloroethane	10.649	83	28358	25.92	ug/L		97
71) Dibromochloromethane	10.844	129	27738	22.47	ug/L		99
72) 1,3-Dichloropropane	10.935	76	52225	26.37	ug/L		95
73) 1,2-Dibromoethane	11.112	107	31270	26.83	ug/L		93
74) 3,3-Dimethyl-1-butanol	11.185	57	156635	1556.32	ug/L		97
75) 2-hexanone	11.246	43	232836	157.96	ug/L		96
76) 1-Chlorohexane	11.539	91	45239	25.20	ug/L		92
77) Ethylbenzene	11.606	91	163735	22.74	ug/L		97
78) Chlorobenzene	11.612	112	93797	23.63	ug/L		92
79) 1,1,1,2-Tetrachloroethane	11.661	131	27846	24.32	ug/L		90
80) m,p-Xylene	11.746	91	237154	45.35	ug/L		99
81) o-Xylene	12.185	91	116904	23.80	ug/L		100
82) Styrene	12.240	104	83685	25.97	ug/L		95
83) Bromoform	12.301	173	17901	19.95	ug/L		93
84) Isopropylbenzene	12.490	105	133987	23.38	ug/L		96
87) cis-1,4-Dichloro-2-butene	12.849	53	8439	21.19	ug/L	#	87
88) n-Propylbenzene	12.910	91	169454	24.23	ug/L		99
89) Bromobenzene	12.941	156	32991	24.70	ug/L		89
90) 1,1,2,2-Tetrachloroethane	12.977	83	48578	26.95	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	105541	24.09	ug/L		97
92) 2-Chlorotoluene	13.106	91	108721	23.98	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.160	53	8723	22.98	ug/L	#	73
94) 1,2,3-Trichloropropane	13.142	110	12160	27.51	ug/L		93
95) Cyclohexanone	13.221	55	7176	141.92	ug/L		91
96) 4-Chlorotoluene	13.276	91	94673	24.57	ug/L		97
98) tert-Butylbenzene	13.435	91	59051	23.99	ug/L		92
99) 1,2,4-Trimethylbenzene	13.502	105	105137	24.80	ug/L		99
100) Pentachloroethane	13.490	167	15683	27.10	ug/L		94
101) sec-Butylbenzene	13.618	105	132915	23.70	ug/L		99
102) 4-Isopropyltoluene	13.746	119	103155	24.26	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	59573	23.73	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	116624	24.21	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	69710	24.08	ug/L		97
106) n-Butylbenzene	14.166	92	55833	25.89	ug/L		99
107) Benzyl Chloride	14.197	126	10555	20.77	ug/L		94
108) 1,2-Dichlorobenzene	14.386	146	56380	24.81	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

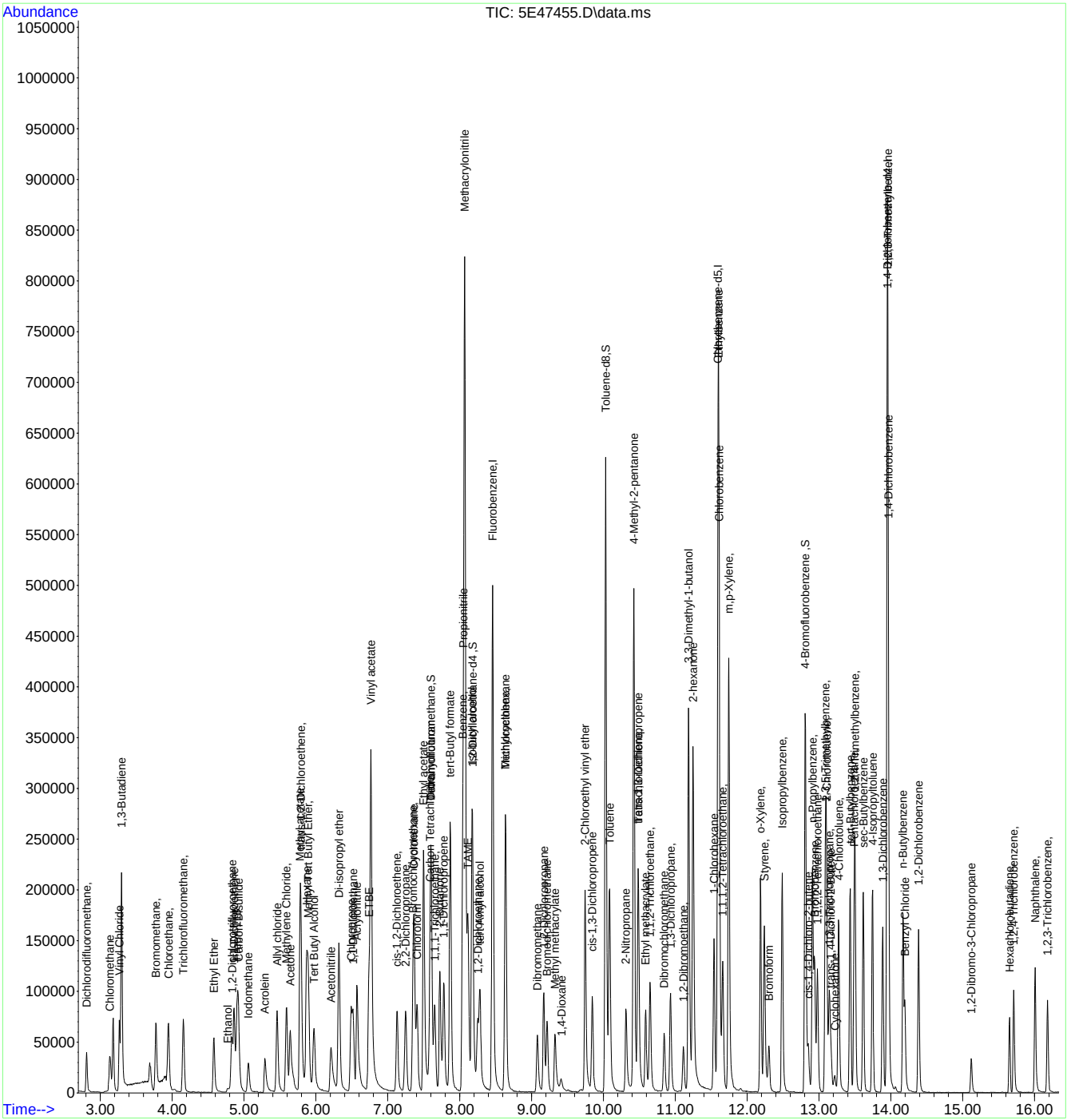
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6202	25.01	ug/L	90
110) Hexachlorobutadiene	15.654	225	10884	22.82	ug/L	91
111) 1,2,4-Trichlorobenzene	15.709	180	28091	24.28	ug/L	90
112) Naphthalene	16.007	128	86540	27.42	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	25611	24.59	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	422604	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	286059	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	149134	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	109528	48.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.48%			
49) 1,2-Dichloroethane-d4	8.180	65	128218	51.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.74%			
62) Toluene-d8	10.033	98	392942	50.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.66%			
86) 4-Bromofluorobenzene	12.807	95	121723	50.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	53380	37.05	ug/L	97
3) Chloromethane	3.132	50	79991	35.64	ug/L	99
4) Vinyl Chloride	3.266	62	104212	37.71	ug/L	97
5) 1,3-Butadiene	3.296	39	136914	48.44	ug/L	97
6) Bromomethane	3.772	94	67930	34.45	ug/L	97
7) Chloroethane	3.949	64	72073	37.26	ug/L	97
8) Trichlorofluoromethane	4.150	101	104194	37.78	ug/L	100
9) Ethyl Ether	4.583	59	51150	40.20	ug/L	97
10) Ethanol	4.772	45	20641	1041.81	ug/L	94
11) 1,2-Dichlorotrifluoroe...	4.827	67	54486	40.04	ug/L	95
12) 1,1-Dichloroethene	4.857	61	91299	39.10	ug/L	91
13) Freon 113	4.906	101	62115	39.02	ug/L	95
14) Carbon Disulfide	4.918	76	169823	35.82	ug/L	94
15) Iodomethane	5.058	142	66148	28.36	ug/L	94
16) Acrolein	5.290	56	68702	224.99	ug/L	100
17) Allyl chloride	5.461	41	97318	38.92	ug/L	98
18) Methylene Chloride	5.589	49	93207	38.48	ug/L	91
19) Acetone	5.643	43	142592	196.06	ug/L	99
20) Methyl acetate	5.778	43	355115	191.34	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	88863	35.45	ug/L	98
22) Hexane	5.869	56	57426	41.07	ug/L	92
23) Methyl Tert Butyl Ether	5.893	73	173600	39.52	ug/L	98
24) Acetonitrile	6.210	41	110420	409.96	ug/L	97
25) Di-isopropyl ether	6.320	45	225458	40.30	ug/L	97
26) Chloroprene	6.491	53	81838	41.47	ug/L	92
27) 1,1-Dichloroethane	6.515	63	118352	39.24	ug/L	99
28) Acrylonitrile	6.570	53	172270	220.04	ug/L	98
29) ETBE	6.741	59	186400	40.52	ug/L	96
30) Tert Butyl Alcohol	5.973	59	123917	424.00	ug/L	95
31) Vinyl acetate	6.765	43	920471	222.12	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	67187	38.16	ug/L	91
33) 2,2-Dichloropropane	7.247	77	79793	39.33	ug/L	99
34) Bromochloromethane	7.350	128	29766	37.69	ug/L	89
35) Cyclohexane	7.363	56	118104	42.07	ug/L	95
36) Chloroform	7.405	83	113009	39.62	ug/L	97
37) Ethyl acetate	7.497	43	537807	225.10	ug/L	98
38) Tetrahydrofuran	7.594	42	37527	39.35	ug/L	93
40) Carbon Tetrachloride	7.582	117	70066	38.18	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	85976	38.79	ug/L	98
42) 2-Butanone	7.722	43	260485	237.43	ug/L	95
43) 1,1-Dichloropropene	7.777	75	85373	40.83	ug/L	96
44) tert-Butyl formate	7.869	59	165624	390.55	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	155752	414.59	ug/L		99
46)	Methacrylonitrile	8.070	41	709301	426.30	ug/L		99
47)	Benzene	8.045	78	266557	38.14	ug/L		96
48)	TAME	8.112	73	181128	40.32	ug/L		95
50)	1,2-Dichloroethane	8.247	62	84206	40.78	ug/L		95
51)	tert Amyl alcohol	8.283	59	94038	456.48	ug/L		95
52)	Trichloroethene	8.637	95	65552	37.26	ug/L		97
53)	Methylcyclohexane	8.637	83	116515	35.30	ug/L		95
54)	Dibromomethane	9.082	93	40681	35.64	ug/L		91
55)	1,2-Dichloropropane	9.173	63	65204	40.65	ug/L		94
56)	Bromodichloromethane	9.216	83	75148	35.32	ug/L		98
57)	Methyl methacrylate	9.326	41	68864	40.44	ug/L		93
58)	1,4-Dioxane	9.411	88	17751	839.73	ug/L		94
59)	2-Chloroethyl vinyl ether	9.746	63	150909	222.54	ug/L		96
60)	cis-1,3-Dichloropropene	9.844	75	90139	36.01	ug/L		98
63)	Toluene	10.088	91	251915	37.05	ug/L		97
64)	Isobutyl alcohol	8.173	43	101798	966.03	ug/L		96
65)	2-Nitropropane	10.313	41	75897	266.53	ug/L		99
66)	4-Methyl-2-pentanone	10.423	43	534603	217.83	ug/L		97
67)	trans-1,3-Dichloropropene	10.484	75	83115	40.05	ug/L		94
68)	Tetrachloroethene	10.490	166	67186	38.94	ug/L		97
69)	Ethyl methacrylate	10.588	69	83934	43.24	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	50765	42.46	ug/L		97
71)	Dibromochloromethane	10.844	129	52405	38.85	ug/L		92
72)	1,3-Dichloropropane	10.935	76	92971	42.97	ug/L		96
73)	1,2-Dibromoethane	11.112	107	56418	44.30	ug/L		98
74)	3,3-Dimethyl-1-butanol	11.185	57	310140	2430.75	ug/L		95
75)	2-hexanone	11.246	43	382641	237.60	ug/L		97
76)	1-Chlorohexane	11.539	91	87414	44.57	ug/L		91
77)	Ethylbenzene	11.606	91	302357	38.44	ug/L		97
78)	Chlorobenzene	11.612	112	169426	39.06	ug/L		93
79)	1,1,1,2-Tetrachloroethane	11.661	131	52260	41.78	ug/L		98
80)	m,p-Xylene	11.746	91	450477	78.85	ug/L		98
81)	o-Xylene	12.185	91	212028	39.52	ug/L		100
82)	Styrene	12.240	104	152871	43.42	ug/L		98
83)	Bromoform	12.301	173	35158	35.87	ug/L		93
84)	Isopropylbenzene	12.490	105	251967	40.25	ug/L		97
87)	cis-1,4-Dichloro-2-butene	12.849	53	16268	37.47	ug/L		91
88)	n-Propylbenzene	12.910	91	319180	41.86	ug/L		100
89)	Bromobenzene	12.941	156	59709	41.01	ug/L		89
90)	1,1,2,2-Tetrachloroethane	12.977	83	88587	45.09	ug/L		96
91)	1,3,5-Trimethylbenzene	13.087	105	203846	42.67	ug/L		96
92)	2-Chlorotoluene	13.105	91	206408	41.75	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.160	53	16641	40.21	ug/L		93
94)	1,2,3-Trichloropropane	13.142	110	21733	45.10	ug/L		91
95)	Cyclohexanone	13.215	55	14244	258.40	ug/L		92
96)	4-Chlorotoluene	13.270	91	175140	41.70	ug/L		96
98)	tert-Butylbenzene	13.435	91	112031	41.75	ug/L		95
99)	1,2,4-Trimethylbenzene	13.502	105	196260	42.47	ug/L		99
100)	Pentachloroethane	13.489	167	31879	50.53	ug/L		97
101)	sec-Butylbenzene	13.617	105	257989	42.20	ug/L		98
102)	4-Isopropyltoluene	13.746	119	202363	43.66	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	111307	40.67	ug/L		99
104)	1,2,3-Trimethylbenzene	13.959	105	224865	42.81	ug/L		100
105)	1,4-Dichlorobenzene	13.965	146	129420	41.02	ug/L		98
106)	n-Butylbenzene	14.166	92	111240	47.31	ug/L		99
107)	Benzyl Chloride	14.197	126	20566	37.12	ug/L	#	69
108)	1,2-Dichlorobenzene	14.386	146	104587	42.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

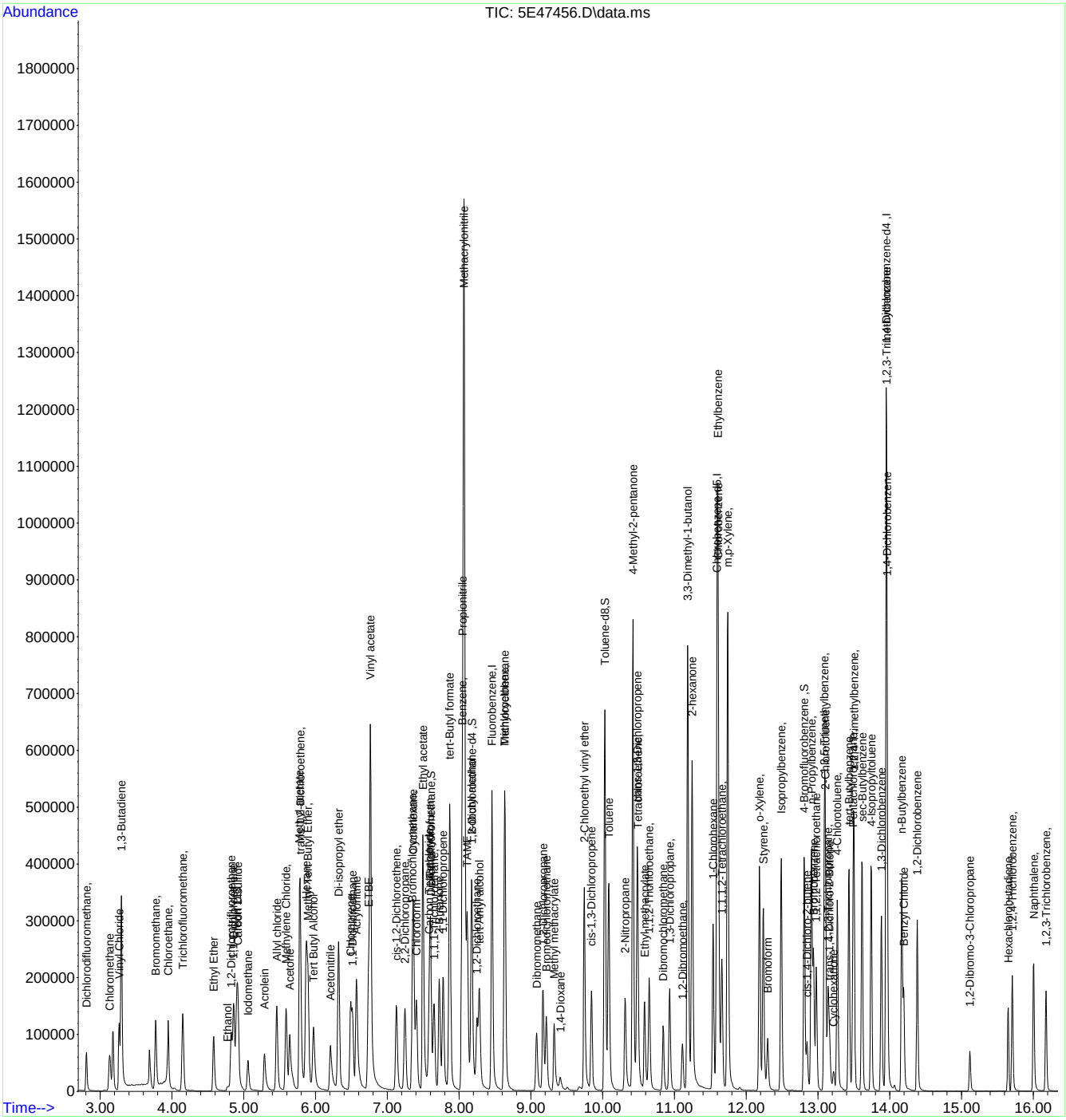
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11787	43.61	ug/L	86
110) Hexachlorobutadiene	15.654	225	20287	39.02	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	55154	43.73	ug/L	100
112) Naphthalene	16.007	128	161318	46.88	ug/L	98
113) 1,2,3-Trichlorobenzene	16.178	180	48397	42.63	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	438665	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	314556	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	173521	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.600	113	117210	50.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.50%			
49) 1,2-Dichloroethane-d4	8.180	65	141413	55.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.24%			
62) Toluene-d8	10.033	98	412112	48.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.96%			
86) 4-Bromofluorobenzene	12.807	95	132293	47.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	97653	65.30	ug/L	100
3) Chloromethane	3.138	50	148177	63.61	ug/L	99
4) Vinyl Chloride	3.266	62	187649	65.41	ug/L	96
5) 1,3-Butadiene	3.296	39	229839	83.16	ug/L	98
6) Bromomethane	3.772	94	135811	66.35	ug/L	97
7) Chloroethane	3.943	64	73982	36.85	ug/L	96
8) Trichlorofluoromethane	4.144	101	198306	69.26	ug/L	98
9) Ethyl Ether	4.583	59	95692	72.46	ug/L	97
10) Ethanol	4.784	45	40574	1631.77	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	100091	70.86	ug/L	96
12) 1,1-Dichloroethene	4.857	61	172137	71.03	ug/L	92
13) Freon 113	4.900	101	115343	69.80	ug/L	96
14) Carbon Disulfide	4.918	76	321716	65.37	ug/L	96
15) Iodomethane	5.058	142	127640	52.73	ug/L	96
16) Acrolein	5.290	56	134965	425.81	ug/L	99
17) Allyl chloride	5.461	41	185166	71.35	ug/L	97
18) Methylene Chloride	5.589	49	168158	66.87	ug/L	93
19) Acetone	5.643	43	280185	371.13	ug/L	100
20) Methyl acetate	5.778	43	719431	373.45	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	173263	66.60	ug/L	96
22) Hexane	5.869	56	105178	72.46	ug/L	93
23) Methyl Tert Butyl Ether	5.893	73	334981	73.47	ug/L	99
24) Acetonitrile	6.210	41	226297	809.42	ug/L	97
25) Di-isopropyl ether	6.320	45	422578	72.76	ug/L	95
26) Chloroprene	6.485	53	160019	78.12	ug/L	92
27) 1,1-Dichloroethane	6.515	63	223395	71.36	ug/L	99
28) Acrylonitrile	6.570	53	341050	419.66	ug/L	98
29) ETBE	6.741	59	367126	76.88	ug/L	96
30) Tert Butyl Alcohol	5.979	59	256441	845.31	ug/L	97
31) Vinyl acetate	6.765	43	1874131	435.68	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	122652	67.11	ug/L	87
33) 2,2-Dichloropropane	7.247	77	147974	70.27	ug/L	98
34) Bromochloromethane	7.350	128	55189	67.33	ug/L #	84
35) Cyclohexane	7.363	56	222672	76.41	ug/L	95
36) Chloroform	7.405	83	214322	72.38	ug/L	97
37) Ethyl acetate	7.497	43	1054131	425.05	ug/L	99
38) Tetrahydrofuran	7.594	42	73083	73.83	ug/L	91
40) Carbon Tetrachloride	7.582	117	136861	65.35	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	161954	70.40	ug/L	98
42) 2-Butanone	7.722	43	515390	452.58	ug/L	93
43) 1,1-Dichloropropene	7.777	75	158980	73.25	ug/L	98
44) tert-Butyl formate	7.869	59	371320	715.12	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.052	54	334843	754.46	ug/L	90
46) Methacrylonitrile	8.070	41	1500798	768.23	ug/L	99
47) Benzene	8.045	78	517984	71.41	ug/L	97
48) TAME	8.112	73	348044	74.65	ug/L	92
50) 1,2-Dichloroethane	8.247	62	159489	74.41	ug/L	96
51) tert Amyl alcohol	8.283	59	191603	896.02	ug/L	96
52) Trichloroethene	8.637	95	129378	70.84	ug/L	94
53) Methylcyclohexane	8.637	83	218830	63.87	ug/L	95
54) Dibromomethane	9.082	93	79392	67.00	ug/L	90
55) 1,2-Dichloropropane	9.167	63	120400	72.32	ug/L	97
56) Bromodichloromethane	9.216	83	148432	67.21	ug/L	99
57) Methyl methacrylate	9.326	41	133995	75.80	ug/L	93
58) 1,4-Dioxane	9.411	88	36097	1451.16	ug/L	97
59) 2-Chloroethyl vinyl ether	9.746	63	308893	438.84	ug/L	97
60) cis-1,3-Dichloropropene	9.844	75	174919	67.31	ug/L	98
63) Toluene	10.082	91	477716	63.89	ug/L	99
64) Isobutyl alcohol	8.173	43	218281	1883.75	ug/L	97
65) 2-Nitropropane	10.313	41	170482	485.65	ug/L	92
66) 4-Methyl-2-pentanone	10.423	43	1096147	406.17	ug/L	97
67) trans-1,3-Dichloropropene	10.484	75	172880	75.76	ug/L	95
68) Tetrachloroethene	10.484	166	131391	69.25	ug/L	98
69) Ethyl methacrylate	10.582	69	165734	77.65	ug/L	93
70) 1,1,2-Trichloroethane	10.649	83	98111	74.63	ug/L	97
71) Dibromochloromethane	10.844	129	104625	70.54	ug/L	98
72) 1,3-Dichloropropane	10.935	76	177729	74.70	ug/L	97
73) 1,2-Dibromoethane	11.112	107	112167	80.10	ug/L	99
74) 3,3-Dimethyl-1-butanol	11.185	57	810598	4404.22	ug/L	97
75) 2-hexanone	11.246	43	802941	453.42	ug/L	99
76) 1-Chlorohexane	11.539	91	167240	77.55	ug/L	90
77) Ethylbenzene	11.606	91	601164	69.50	ug/L	97
78) Chlorobenzene	11.612	112	333753	69.98	ug/L	94
79) 1,1,1,2-Tetrachloroethane	11.661	131	102346	74.41	ug/L	97
80) m,p-Xylene	11.746	91	909849	144.83	ug/L	99
81) o-Xylene	12.185	91	408248	69.19	ug/L	99
82) Styrene	12.240	104	304110	78.55	ug/L	98
83) Bromoform	12.301	173	74850	69.45	ug/L	96
84) Isopropylbenzene	12.490	105	492106	71.49	ug/L	98
87) cis-1,4-Dichloro-2-butene	12.849	53	34585	68.46	ug/L	94
88) n-Propylbenzene	12.910	91	621427	70.04	ug/L	99
89) Bromobenzene	12.941	156	119201	70.37	ug/L	94
90) 1,1,2,2-Tetrachloroethane	12.977	83	175127	76.61	ug/L	99
91) 1,3,5-Trimethylbenzene	13.087	105	413007	74.31	ug/L	95
92) 2-Chlorotoluene	13.105	91	405413	70.49	ug/L	98
93) trans-1,4-Dichloro-2-B...	13.160	53	37242	77.34	ug/L	92
94) 1,2,3-Trichloropropane	13.142	110	44462	79.30	ug/L	93
95) Cyclohexanone	13.221	55	30314	472.64	ug/L	95
96) 4-Chlorotoluene	13.270	91	343938	70.39	ug/L	95
98) tert-Butylbenzene	13.435	91	223203	71.49	ug/L	94
99) 1,2,4-Trimethylbenzene	13.502	105	395062	73.47	ug/L	99
100) Pentachloroethane	13.489	167	67128	91.44	ug/L	99
101) sec-Butylbenzene	13.618	105	499955	70.28	ug/L	98
102) 4-Isopropyltoluene	13.746	119	400260	74.22	ug/L	98
103) 1,3-Dichlorobenzene	13.886	146	221713	69.63	ug/L	97
104) 1,2,3-Trimethylbenzene	13.959	105	460622	75.38	ug/L	99
105) 1,4-Dichlorobenzene	13.965	146	261049	71.10	ug/L	98
106) n-Butylbenzene	14.166	92	222250	81.24	ug/L	97
107) Benzyl Chloride	14.197	126	46380	71.95	ug/L	93
108) 1,2-Dichlorobenzene	14.386	146	207203	71.89	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	25933	82.46	ug/L	88
110) Hexachlorobutadiene	15.654	225	41637	68.84	ug/L	96
111) 1,2,4-Trichlorobenzene	15.709	180	111560	76.02	ug/L	97
112) Naphthalene	16.007	128	332543	83.06	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	97217	73.60	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

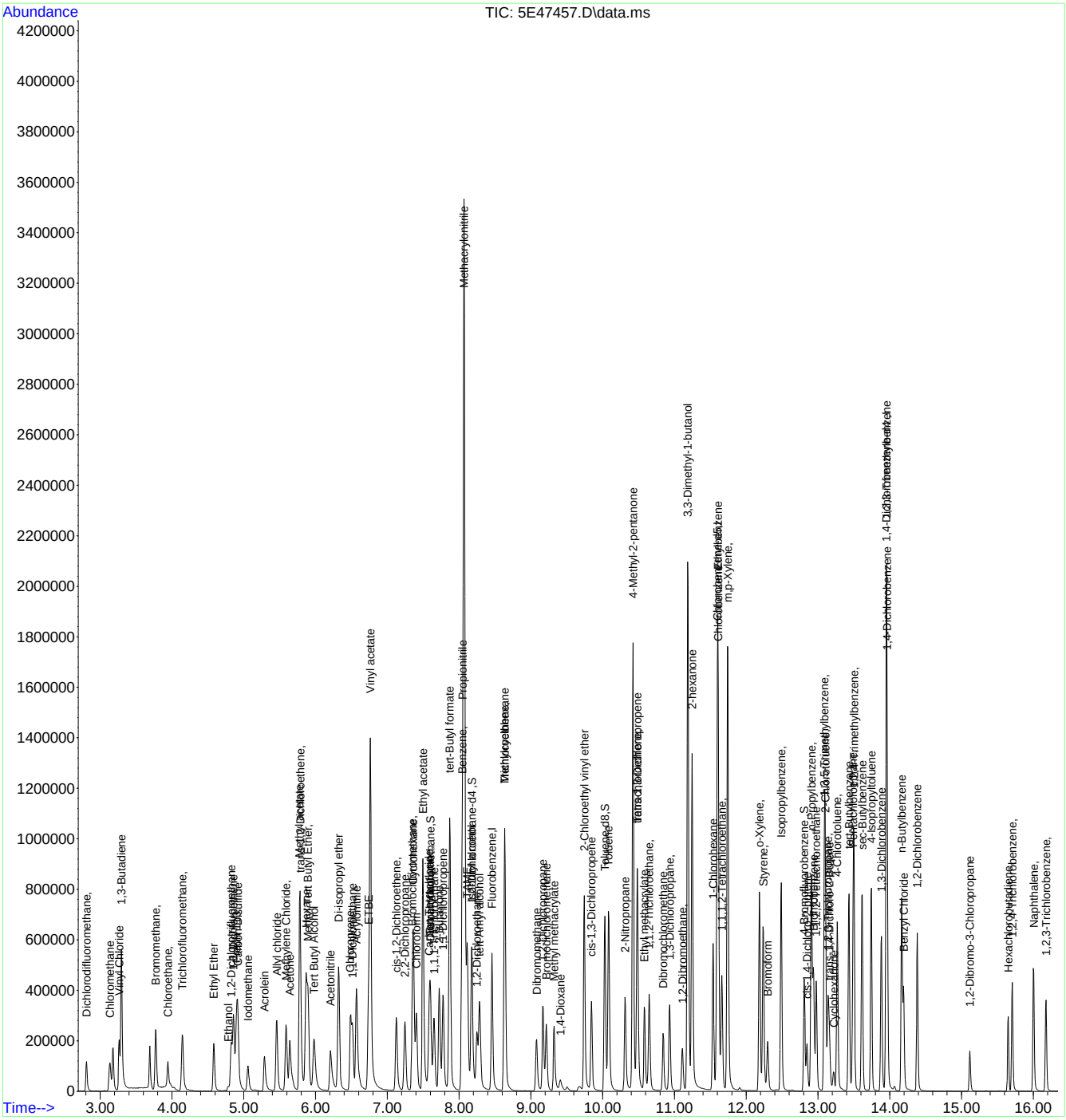
7.6.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	459709	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	348733	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	198638	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	124396	50.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.78%			
49) 1,2-Dichloroethane-d4	8.180	65	151204	56.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.48%			
62) Toluene-d8	10.033	98	425830	45.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 90.36%			
86) 4-Bromofluorobenzene	12.807	95	139058	43.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	148915	95.01	ug/L	98
3) Chloromethane	3.138	50	226826	92.91	ug/L	99
4) Vinyl Chloride	3.266	62	267443	88.96	ug/L	97
5) 1,3-Butadiene	3.297	39	336485	123.92	ug/L	97
6) Bromomethane	3.772	94	216343	100.86	ug/L	98
7) Chloroethane	3.943	64	102718	48.82	ug/L	96
8) Trichlorofluoromethane	4.144	101	340922	113.62	ug/L	98
9) Ethyl Ether	4.589	59	151498	109.47	ug/L	99
10) Ethanol	4.790	45	64176	2142.29	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	160532	108.44	ug/L	94
12) 1,1-Dichloroethene	4.857	61	275413	108.44	ug/L	93
13) Freon 113	4.900	101	180976	104.50	ug/L	96
14) Carbon Disulfide	4.918	76	515584	99.97	ug/L	99
15) Iodomethane	5.058	142	202188	79.70	ug/L	96
16) Acrolein	5.290	56	205839	619.69	ug/L	96
17) Allyl chloride	5.461	41	284608	104.64	ug/L	99
18) Methylene Chloride	5.589	49	261769	99.34	ug/L	93
19) Acetone	5.644	43	430367	543.97	ug/L	99
20) Methyl acetate	5.778	43	1141635	565.49	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	283345	103.92	ug/L	96
22) Hexane	5.869	56	165708	108.93	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	527364	110.37	ug/L	98
24) Acetonitrile	6.211	41	348533	1189.57	ug/L	98
25) Di-isopropyl ether	6.320	45	663473	109.01	ug/L	96
26) Chloroprene	6.485	53	257369	119.89	ug/L	91
27) 1,1-Dichloroethane	6.515	63	358298	109.21	ug/L	100
28) Acrylonitrile	6.570	53	529225	621.40	ug/L	98
29) ETBE	6.741	59	596173	119.12	ug/L	95
30) Tert Butyl Alcohol	5.985	59	395496	1244.01	ug/L	99
31) Vinyl acetate	6.765	43	2998408	665.14	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	198632	103.71	ug/L	89
33) 2,2-Dichloropropane	7.247	77	237759	107.73	ug/L	98
34) Bromochloromethane	7.351	128	88346	102.85	ug/L	88
35) Cyclohexane	7.363	56	352764	115.52	ug/L	95
36) Chloroform	7.405	83	341777	110.14	ug/L	96
37) Ethyl acetate	7.497	43	1630023	627.17	ug/L	99
38) Tetrahydrofuran	7.594	42	108220	104.32	ug/L	94
40) Carbon Tetrachloride	7.582	117	223074	93.07	ug/L	99
41) 1,1,1-Trichloroethane	7.655	97	262342	108.81	ug/L	98
42) 2-Butanone	7.722	43	784577	657.42	ug/L	95
43) 1,1-Dichloropropene	7.777	75	253171	111.32	ug/L	96
44) tert-Butyl formate	7.875	59	607296	989.01	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	543921	1055.83	ug/L		86
46) Methacrylonitrile	8.070	41	2419345	1071.53	ug/L		98
47) Benzene	8.046	78	839025	110.37	ug/L		99
48) TAME	8.113	73	562104	115.04	ug/L		95
50) 1,2-Dichloroethane	8.247	62	251750	112.07	ug/L		96
51) tert Amyl alcohol	8.289	59	300573	1341.27	ug/L		97
52) Trichloroethene	8.637	95	209376	109.39	ug/L		95
53) Methylcyclohexane	8.637	83	354787	98.81	ug/L		96
54) Dibromomethane	9.076	93	122422	98.59	ug/L		89
55) 1,2-Dichloropropane	9.167	63	191399	109.70	ug/L		97
56) Bromodichloromethane	9.216	83	236883	102.35	ug/L		98
57) Methyl methacrylate	9.326	41	204321	110.29	ug/L		95
58) 1,4-Dioxane	9.411	88	56923	1981.20	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	450256	610.39	ug/L		96
60) cis-1,3-Dichloropropene	9.844	75	277076	101.74	ug/L		98
63) Toluene	10.088	91	766274	92.44	ug/L		98
64) Isobutyl alcohol	8.180	43	341637	2659.36	ug/L		97
65) 2-Nitropropane	10.313	41	283634	668.53	ug/L		94
66) 4-Methyl-2-pentanone	10.423	43	1747046	583.91	ug/L		98
67) trans-1,3-Dichloropropene	10.484	75	284105	112.30	ug/L		98
68) Tetrachloroethene	10.484	166	215910	102.64	ug/L		99
69) Ethyl methacrylate	10.582	69	257864	108.98	ug/L		93
70) 1,1,2-Trichloroethane	10.649	83	152471	104.62	ug/L		97
71) Dibromochloromethane	10.844	129	171404	104.24	ug/L		95
72) 1,3-Dichloropropane	10.935	76	276581	104.85	ug/L		96
73) 1,2-Dibromoethane	11.112	107	172812	111.31	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.191	57	1429008	5921.30	ug/L		99
75) 2-hexanone	11.246	43	1271566	647.68	ug/L		97
76) 1-Chlorohexane	11.539	91	270143	112.99	ug/L		91
77) Ethylbenzene	11.606	91	1010558	105.38	ug/L		97
78) Chlorobenzene	11.612	112	556587	105.27	ug/L		94
79) 1,1,1,2-Tetrachloroethane	11.661	131	166934	109.48	ug/L		97
80) m,p-Xylene	11.740	91	1556179	223.44	ug/L		96
81) o-Xylene	12.185	91	668062	102.13	ug/L		97
82) Styrene	12.234	104	501634	116.87	ug/L		96
83) Bromoform	12.301	173	125369	104.92	ug/L		97
84) Isopropylbenzene	12.490	105	813734	106.62	ug/L		97
87) cis-1,4-Dichloro-2-butene	12.850	53	58165	100.58	ug/L		95
88) n-Propylbenzene	12.910	91	1024488	100.87	ug/L		100
89) Bromobenzene	12.935	156	191755	98.89	ug/L		83
90) 1,1,2,2-Tetrachloroethane	12.978	83	273049	104.34	ug/L		98
91) 1,3,5-Trimethylbenzene	13.087	105	707266	111.16	ug/L		95
92) 2-Chlorotoluene	13.099	91	691788	105.07	ug/L		93
93) trans-1,4-Dichloro-2-B...	13.160	53	60598	109.92	ug/L		90
94) 1,2,3-Trichloropropane	13.142	110	69302	107.97	ug/L		91
95) Cyclohexanone	13.215	55	47039	640.67	ug/L		97
96) 4-Chlorotoluene	13.270	91	568609	101.65	ug/L		96
98) tert-Butylbenzene	13.435	91	374540	104.80	ug/L		94
99) 1,2,4-Trimethylbenzene	13.502	105	672479	109.25	ug/L		99
100) Pentachloroethane	13.490	167	112623	134.02	ug/L		95
101) sec-Butylbenzene	13.612	105	829119	101.82	ug/L		96
102) 4-Isopropyltoluene	13.746	119	672694	108.97	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	365891	100.38	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	793887	113.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	446539	106.25	ug/L		99
106) n-Butylbenzene	14.166	92	365821	116.81	ug/L		99
107) Benzyl Chloride	14.191	126	78438	106.30	ug/L	#	78
108) 1,2-Dichlorobenzene	14.386	146	337660	102.34	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

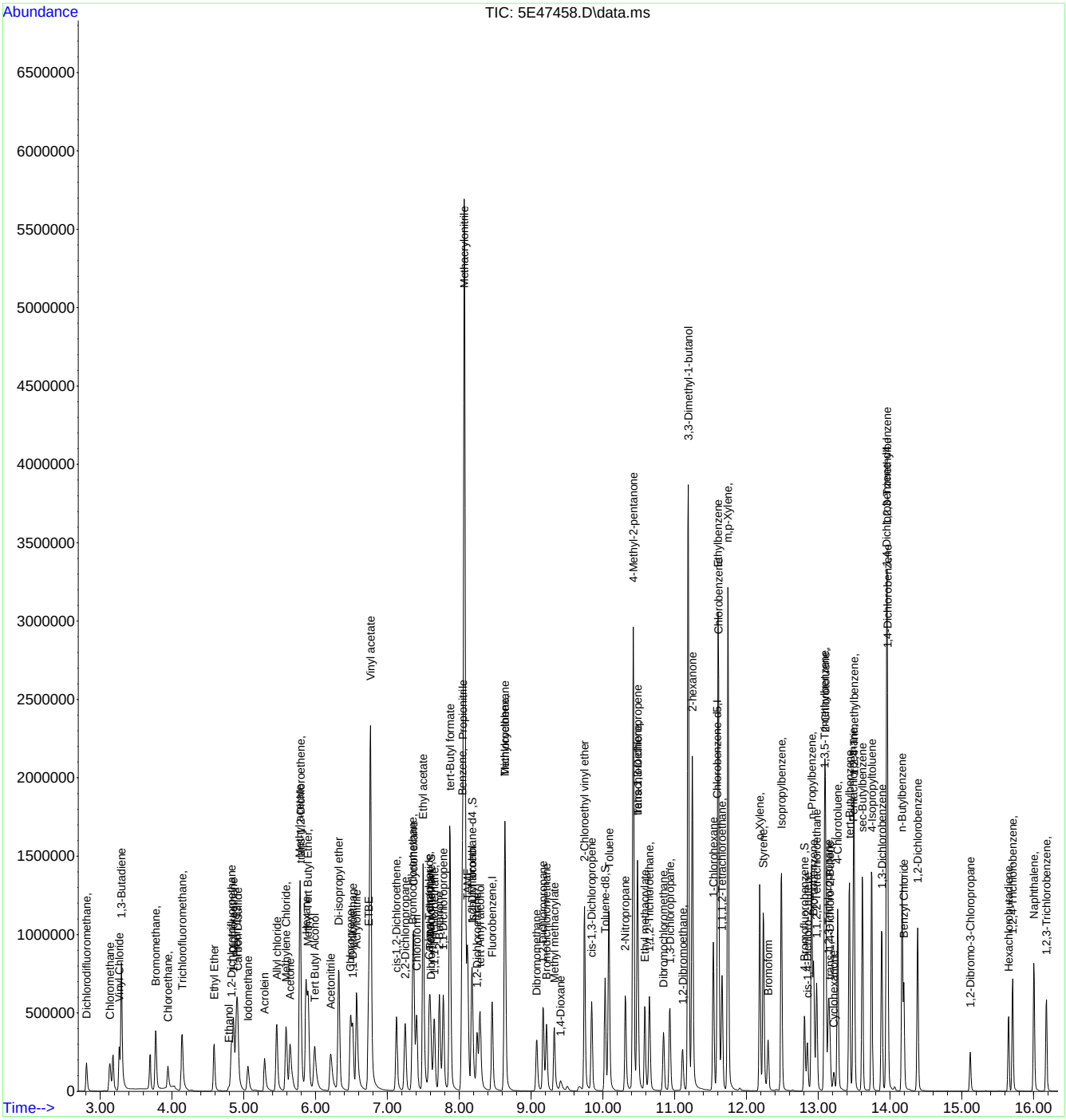
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	42049	116.79	ug/L	91
110) Hexachlorobutadiene	15.654	225	65837	95.08	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	179650	106.94	ug/L	99
112) Naphthalene	16.001	128	524837	114.52	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	153751	101.68	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	448133	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	302796	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	162149	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	119111	51.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.50%			
49) 1,2-Dichloroethane-d4	8.180	65	146738	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
62) Toluene-d8	10.033	98	420439	49.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.42%			
86) 4-Bromofluorobenzene	12.807	95	131859	49.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	66036	47.14	ug/L	99
3) Chloromethane	3.132	50	91079	41.81	ug/L	99
4) Vinyl Chloride	3.266	62	116632	40.70	ug/L	98
5) 1,3-Butadiene	3.297	39	143318	40.96	ug/L	95
6) Bromomethane	3.772	94	76785	39.11	ug/L	99
7) Chloroethane	3.943	64	93577	44.92	ug/L	99
8) Trichlorofluoromethane	4.156	101	111030	39.97	ug/L	98
9) Ethyl Ether	4.583	59	51900	38.62	ug/L	97
10) Ethanol	4.772	45	21354	759.84	ug/L	99
11) 1,2-Dichlorotrifluoroe...	4.827	67	82631	58.21	ug/L	99
12) 1,1-Dichloroethene	4.863	61	97472	40.76	ug/L	97
13) Freon 113	4.900	101	65217	38.75	ug/L	95
14) Carbon Disulfide	4.924	76	155466	33.02	ug/L	96
15) Iodomethane	5.058	142	61521	33.75	ug/L	99
16) Acrolein	5.290	56	86003	226.46	ug/L	99
17) Allyl chloride	5.461	41	107119	40.05	ug/L	94
18) Methylene Chloride	5.589	49	102012	39.18	ug/L	97
19) Acetone	5.644	43	165552	209.40	ug/L	97
20) Methyl acetate	5.778	43	394898	191.92	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	97178	40.80	ug/L	98
22) Hexane	5.869	56	55649	36.07	ug/L	98
23) Methyl Tert Butyl Ether	5.894	73	186057	41.21	ug/L	98
24) Acetonitrile	6.205	41	121913	409.03	ug/L	98
25) Di-isopropyl ether	6.320	45	230519	38.14	ug/L	96
26) Chloroprene	6.485	53	92615	44.66	ug/L	96
27) 1,1-Dichloroethane	6.515	63	125370	39.71	ug/L	99
28) Acrylonitrile	6.570	53	171018	195.22	ug/L	99
29) ETBE	6.741	59	194147	40.11	ug/L	97
30) Tert Butyl Alcohol	5.973	59	130044	360.93	ug/L	98
31) Vinyl acetate	6.765	43	980800	185.43	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	71619	40.73	ug/L	98
33) 2,2-Dichloropropane	7.247	77	91333	44.91	ug/L	99
34) Bromochloromethane	7.351	128	32006	42.48	ug/L	96
35) Cyclohexane	7.363	56	122515	41.66	ug/L	99
36) Chloroform	7.406	83	124734	42.60	ug/L	97
37) Ethyl acetate	7.497	43	551902	201.54	ug/L	100
38) Tetrahydrofuran	7.594	42	39534	37.26	ug/L	99
40) Carbon Tetrachloride	7.582	117	78288	39.51	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	92474	41.13	ug/L	96
42) 2-Butanone	7.723	43	265817	180.86	ug/L	100
43) 1,1-Dichloropropene	7.777	75	93480	43.51	ug/L	98
44) tert-Butyl formate	7.869	59	188199	423.89	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	171637	404.33	ug/L		99
46) Methacrylonitrile	8.070	41	755769	399.82	ug/L		99
47) Benzene	8.046	78	289343	40.32	ug/L		99
48) TAME	8.113	73	184137	39.94	ug/L		97
50) 1,2-Dichloroethane	8.247	62	90676	41.76	ug/L		96
51) tert Amyl alcohol	8.283	59	104499	386.59	ug/L		95
52) Trichloroethene	8.637	95	71145	40.37	ug/L		95
53) Methylcyclohexane	8.637	83	121266	38.00	ug/L		98
54) Dibromomethane	9.082	93	44715	39.45	ug/L		95
55) 1,2-Dichloropropane	9.173	63	72146	42.78	ug/L		96
56) Bromodichloromethane	9.216	83	79931	41.63	ug/L		97
57) Methyl methacrylate	9.326	41	72487	38.12	ug/L		99
58) 1,4-Dioxane	9.411	88	18070	717.11	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	160280	188.31	ug/L		97
60) cis-1,3-Dichloropropene	9.844	75	100026	39.84	ug/L		97
63) Toluene	10.088	91	273368	38.06	ug/L		97
64) Isobutyl alcohol	8.168	43	111391	878.94	ug/L		94
65) 2-Nitropropane	10.313	41	82673	208.22	ug/L		97
66) 4-Methyl-2-pentanone	10.423	43	599818	211.22	ug/L		100
67) trans-1,3-Dichloropropene	10.484	75	86390	37.43	ug/L		99
68) Tetrachloroethene	10.490	166	72124	41.61	ug/L		97
69) Ethyl methacrylate	10.588	69	89055	40.48	ug/L		97
70) 1,1,2-Trichloroethane	10.649	83	54233	41.96	ug/L		97
71) Dibromochloromethane	10.844	129	57003	40.25	ug/L		99
72) 1,3-Dichloropropane	10.935	76	104765	44.35	ug/L		98
73) 1,2-Dibromoethane	11.112	107	59238	39.57	ug/L		96
74) 3,3-Dimethyl-1-butanol	11.185	57	341686	2039.78	ug/L		97
75) 2-hexanone	11.246	43	438915	205.00	ug/L		99
76) 1-Chlorohexane	11.539	91	92249	44.57	ug/L		99
77) Ethylbenzene	11.606	91	326400	38.93	ug/L		98
78) Chlorobenzene	11.612	112	182346	40.27	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	55741	43.11	ug/L		96
80) m,p-Xylene	11.746	91	479406	79.03	ug/L		100
81) o-Xylene	12.185	91	222070	38.96	ug/L		99
82) Styrene	12.240	104	166416	40.02	ug/L		97
83) Bromoform	12.301	173	37084	41.71	ug/L		96
84) Isopropylbenzene	12.490	105	268615	40.97	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	18855	43.85	ug/L		89
88) n-Propylbenzene	12.911	91	339177	39.40	ug/L		99
89) Bromobenzene	12.935	156	66606	41.92	ug/L		94
90) 1,1,2,2-Tetrachloroethane	12.978	83	93918	41.28	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	222048	41.69	ug/L		99
92) 2-Chlorotoluene	13.106	91	219540	39.11	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.160	53	19846	42.70	ug/L		93
94) 1,2,3-Trichloropropane	13.142	110	24821	42.84	ug/L		95
95) Cyclohexanone	13.215	55	23173	306.62	ug/L		91
96) 4-Chlorotoluene	13.270	91	185702	39.20	ug/L		97
98) tert-Butylbenzene	13.435	91	120143	39.78	ug/L		96
99) 1,2,4-Trimethylbenzene	13.502	105	214351	41.30	ug/L		99
100) Pentachloroethane	13.490	167	33875	39.01	ug/L		98
101) sec-Butylbenzene	13.618	105	260837	38.14	ug/L		99
102) 4-Isopropyltoluene	13.746	119	213410	41.74	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	117226	39.12	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	238982	40.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	139562	40.06	ug/L		97
106) n-Butylbenzene	14.166	92	122700	41.96	ug/L		99
107) Benzyl Chloride	14.197	126	22417	42.74	ug/L	#	89
108) 1,2-Dichlorobenzene	14.386	146	111316	40.90	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

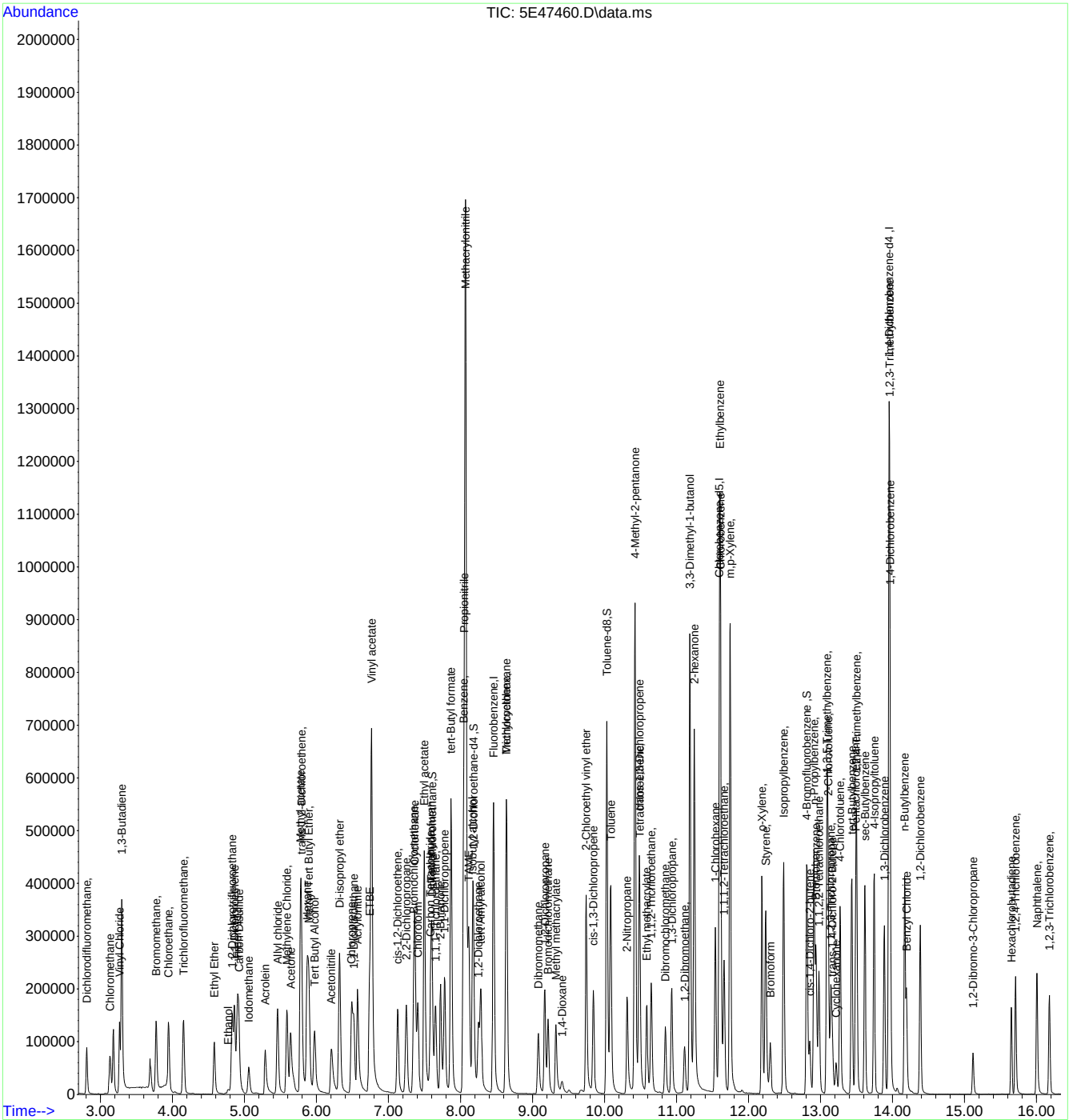
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	13936	42.52	ug/L	95
110) Hexachlorobutadiene	15.654	225	23429	42.03	ug/L	99
111) 1,2,4-Trichlorobenzene	15.709	180	58524	42.61	ug/L	98
112) Naphthalene	16.007	128	169150	39.39	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	51034	41.23	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47491.D
Acq On : 27 Jun 2024 7:38 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2117,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 07:55:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	397479	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	267975	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	141838	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.601	113	102455	49.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	99.42%		
49) 1,2-Dichloroethane-d4	8.180	65	124420	51.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	102.92%		
62) Toluene-d8	10.033	98	368662	49.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.50%		
86) 4-Bromofluorobenzene	12.813	95	113993	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	97.50%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	50201	40.41	ug/L	97
3) Chloromethane	3.132	50	80168	41.49	ug/L	99
4) Vinyl Chloride	3.266	62	102404	40.29	ug/L	100
5) 1,3-Butadiene	3.297	39	139358	44.90	ug/L	96
6) Bromomethane	3.772	94	75897	43.58	ug/L	98
7) Chloroethane	3.943	64	102172	55.30	ug/L	99
8) Trichlorofluoromethane	4.156	101	102299	41.52	ug/L	98
9) Ethyl Ether	4.577	59	50499	42.37	ug/L	95
10) Ethanol	4.778	45	16698	669.88	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	80597	64.01	ug/L	95
12) 1,1-Dichloroethene	4.857	61	92707	43.71	ug/L	94
13) Freon 113	4.900	101	63761	42.72	ug/L	96
14) Carbon Disulfide	4.918	76	185195	44.35	ug/L	96
15) Iodomethane	5.058	142	62679	38.77	ug/L	96
16) Acrolein	5.284	56	68278	202.70	ug/L	100
17) Allyl chloride	5.461	41	104260	43.95	ug/L	99
18) Methylene Chloride	5.589	49	92829	40.19	ug/L	99
19) Acetone	5.638	43	135698	193.51	ug/L	99
20) Methyl acetate	5.778	43	354397	194.18	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	90366	42.78	ug/L	98
22) Hexane	5.869	56	59716	43.63	ug/L	98
23) Methyl Tert Butyl Ether	5.894	73	165980	41.44	ug/L	97
24) Acetonitrile	6.204	41	116294	439.90	ug/L	98
25) Di-isopropyl ether	6.320	45	224253	41.83	ug/L	99
26) Chloroprene	6.485	53	84318	45.84	ug/L	98
27) 1,1-Dichloroethane	6.515	63	121023	43.21	ug/L	99
28) Acrylonitrile	6.570	53	169014	217.52	ug/L	98
29) ETBE	6.741	59	180778	42.10	ug/L	99
30) Tert Butyl Alcohol	5.973	59	112253	351.26	ug/L	98
31) Vinyl acetate	6.765	43	919056	195.90	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	66460	42.61	ug/L	98
33) 2,2-Dichloropropane	7.247	77	80997	44.90	ug/L	97
34) Bromochloromethane	7.351	128	30151	45.11	ug/L	96
35) Cyclohexane	7.363	56	121829	46.70	ug/L	99
36) Chloroform	7.405	83	111387	42.89	ug/L	98
37) Ethyl acetate	7.497	43	526456	216.75	ug/L	99
38) Tetrahydrofuran	7.594	42	36533	38.82	ug/L	96
40) Carbon Tetrachloride	7.582	117	70405	40.06	ug/L	96
41) 1,1,1-Trichloroethane	7.649	97	84540	42.39	ug/L	99
42) 2-Butanone	7.722	43	257171	197.27	ug/L	99
43) 1,1-Dichloropropene	7.777	75	83948	44.05	ug/L	96
44) tert-Butyl formate	7.869	59	172684	435.41	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47491.D
Acq On : 27 Jun 2024 7:38 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2117,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 07:55:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.046	54	161888	425.99	ug/L		85
46) Methacrylonitrile	8.070	41	725764	427.72	ug/L		99
47) Benzene	8.046	78	270335	42.47	ug/L		99
48) TAME	8.113	73	174404	42.65	ug/L		98
50) 1,2-Dichloroethane	8.247	62	80928	42.02	ug/L		98
51) tert Amyl alcohol	8.283	59	88313	368.34	ug/L		98
52) Trichloroethene	8.637	95	65754	42.07	ug/L		97
53) Methylcyclohexane	8.637	83	116580	41.19	ug/L		95
54) Dibromomethane	9.082	93	39648	39.44	ug/L		97
55) 1,2-Dichloropropane	9.173	63	65167	43.57	ug/L		95
56) Bromodichloromethane	9.216	83	74443	43.72	ug/L		98
57) Methyl methacrylate	9.326	41	70303	41.68	ug/L		96
58) 1,4-Dioxane	9.411	88	14610	653.68	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	166374	220.38	ug/L		97
60) cis-1,3-Dichloropropene	9.844	75	89616	40.24	ug/L		97
63) Toluene	10.088	91	254139	39.98	ug/L		96
64) Isobutyl alcohol	8.168	43	100472	895.80	ug/L		98
65) 2-Nitropropane	10.313	41	91943	251.65	ug/L		91
66) 4-Methyl-2-pentanone	10.423	43	525744	209.20	ug/L		99
67) trans-1,3-Dichloropropene	10.484	75	83038	40.65	ug/L		99
68) Tetrachloroethene	10.490	166	66509	43.36	ug/L		98
69) Ethyl methacrylate	10.582	69	83253	42.76	ug/L		95
70) 1,1,2-Trichloroethane	10.649	83	49503	43.27	ug/L		97
71) Dibromochloromethane	10.844	129	51669	41.22	ug/L		94
72) 1,3-Dichloropropane	10.935	76	90239	43.17	ug/L		97
73) 1,2-Dibromoethane	11.112	107	54390	41.05	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.185	57	277810	1915.47	ug/L		99
75) 2-hexanone	11.246	43	374393	197.59	ug/L		99
76) 1-Chlorohexane	11.539	91	88626	48.38	ug/L		100
77) Ethylbenzene	11.606	91	300211	40.45	ug/L		98
78) Chlorobenzene	11.612	112	168157	41.96	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	51262	44.79	ug/L		97
80) m,p-Xylene	11.746	91	446903	83.25	ug/L		99
81) o-Xylene	12.185	91	208347	41.30	ug/L		96
82) Styrene	12.240	104	151806	41.25	ug/L		98
83) Bromoform	12.301	173	33786	42.75	ug/L		94
84) Isopropylbenzene	12.490	105	252325	43.49	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	17295	45.80	ug/L		93
88) n-Propylbenzene	12.910	91	316815	42.07	ug/L		99
89) Bromobenzene	12.941	156	58373	42.00	ug/L		97
90) 1,1,2,2-Tetrachloroethane	12.978	83	85214	42.82	ug/L		99
91) 1,3,5-Trimethylbenzene	13.093	105	200125	42.95	ug/L		98
92) 2-Chlorotoluene	13.106	91	201304	40.99	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.167	53	17662	43.44	ug/L	#	67
94) 1,2,3-Trichloropropane	13.142	110	20895	41.23	ug/L		97
95) Cyclohexanone	13.221	55	11943	180.66	ug/L		91
96) 4-Chlorotoluene	13.270	91	170443	41.13	ug/L		97
98) tert-Butylbenzene	13.435	91	107783	40.79	ug/L		98
99) 1,2,4-Trimethylbenzene	13.502	105	192073	42.31	ug/L		98
100) Pentachloroethane	13.490	167	32176	42.36	ug/L		95
101) sec-Butylbenzene	13.618	105	253541	42.38	ug/L		99
102) 4-Isopropyltoluene	13.746	119	198845	44.46	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	108792	41.50	ug/L		99
104) 1,2,3-Trimethylbenzene	13.959	105	217125	42.06	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	124774	40.94	ug/L		97
106) n-Butylbenzene	14.166	92	109665	42.87	ug/L		96
107) Benzyl Chloride	14.197	126	23402	49.49	ug/L	#	79
108) 1,2-Dichlorobenzene	14.386	146	100210	42.09	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47491.D
Acq On : 27 Jun 2024 7:38 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2117,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 07:55:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

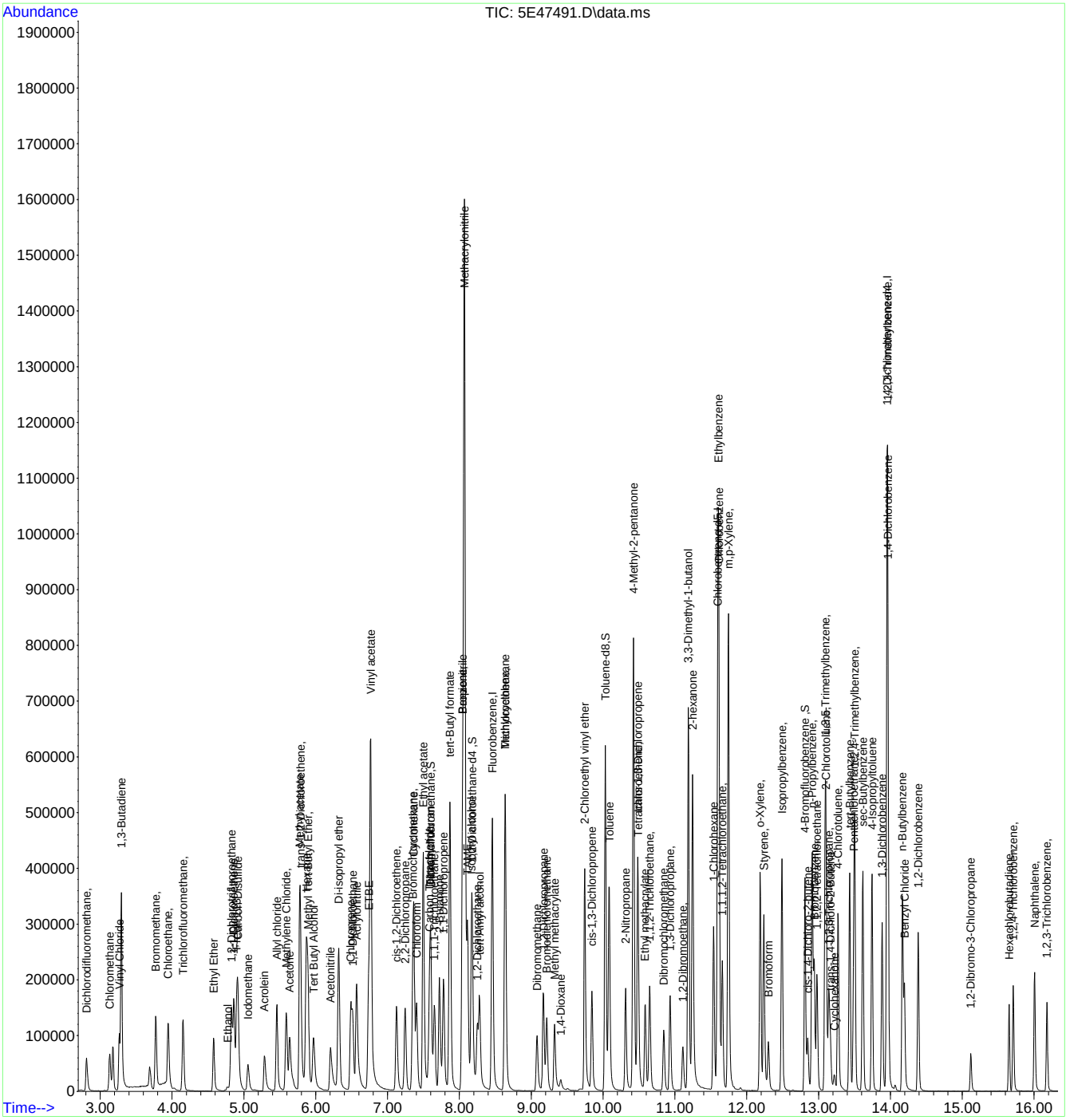
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11389	39.72	ug/L	93
110) Hexachlorobutadiene	15.654	225	20583	42.21	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	50013	41.63	ug/L	94
112) Naphthalene	16.007	128	147553	39.28	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	43284	39.98	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-27-2024\
Data File : 5E47491.D
Acq On : 27 Jun 2024 7:38 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2117,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 07:55:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47518.d
Acq On : 27 Jun 2024 6:18 pm
Operator : lianatr
Sample : ECC2111-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 28 06:26:29 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	379581	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	258779	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	133682	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	96426	48.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.98%			
49) 1,2-Dichloroethane-d4	8.180	65	120835	52.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.66%			
62) Toluene-d8	10.033	98	354111	48.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.98%			
86) 4-Bromofluorobenzene	12.807	95	110886	50.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	49532	41.7479	ug/L	97
3) Chloromethane	3.132	50	79718	43.1998	ug/L	97
4) Vinyl Chloride	3.266	62	99745	41.0910	ug/L	98
5) 1,3-Butadiene	3.296	39	134451	45.3602	ug/L	94
6) Bromomethane	3.772	94	68272	41.0514	ug/L	96
7) Chloroethane	3.949	64	67963	38.5157	ug/L	99
8) Trichlorofluoromethane	4.150	101	94629	40.2200	ug/L	98
9) Ethyl Ether	4.583	59	50396	44.2752	ug/L	97
10) Ethanol	4.772	45	25056	1052.5820	ug/L	95
11) 1,2-Dichlorotrifluoroe...	4.827	67	77568	64.5106	ug/L	97
12) 1,1-Dichloroethene	4.857	61	91199	45.0245	ug/L	99
13) Freon 113	4.900	101	58060	40.7298	ug/L	97
14) Carbon Disulfide	4.924	76	165920	41.6106	ug/L	94
15) Iodomethane	5.058	142	65205	42.2343	ug/L	98
16) Acrolein	5.290	56	63816	198.3823	ug/L	100
17) Allyl chloride	5.461	41	97845	43.1886	ug/L	94
18) Methylene Chloride	5.589	49	89988	40.8013	ug/L	98
19) Acetone	5.643	43	137427	205.2138	ug/L	99
20) Methyl acetate	5.778	43	356862	204.7533	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	86072	42.6647	ug/L	97
22) Hexane	5.869	56	52899	40.4749	ug/L	95
23) Methyl Tert Butyl Ether	5.893	73	164003	42.8814	ug/L	97
24) Acetonitrile	6.210	41	118327	468.6918	ug/L	98
25) Di-isopropyl ether	6.320	45	223742	43.7047	ug/L	100
26) Chloroprene	6.491	53	80679	45.9285	ug/L	97
27) 1,1-Dichloroethane	6.515	63	114616	42.8562	ug/L	98
28) Acrylonitrile	6.570	53	166341	224.1739	ug/L	99
29) ETBE	6.741	59	179464	43.7682	ug/L	99
30) Tert Butyl Alcohol	5.973	59	121696	398.7616	ug/L	97
31) Vinyl acetate	6.765	43	886581	197.8895	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	62603	42.0336	ug/L	97
33) 2,2-Dichloropropane	7.247	77	69088	40.1059	ug/L	98
34) Bromochloromethane	7.350	128	28256	44.2707	ug/L	91
35) Cyclohexane	7.363	56	116054	46.5855	ug/L	98
36) Chloroform	7.405	83	104635	42.1906	ug/L	97
37) Ethyl acetate	7.497	43	522662	225.3351	ug/L	99
38) Tetrahydrofuran	7.594	42	37271	41.4735	ug/L	97
40) Carbon Tetrachloride	7.582	117	65665	39.1217	ug/L	97
41) 1,1,1-Trichloroethane	7.649	97	79067	41.5137	ug/L	98
42) 2-Butanone	7.722	43	256394	205.9514	ug/L	98
43) 1,1-Dichloropropene	7.777	75	80612	44.2955	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47518.d
Acq On : 27 Jun 2024 6:18 pm
Operator : lianatr
Sample : ECC2111-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 28 06:26:29 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	7.869	59	153918	412.2522	ug/L		94
45) Propionitrile	8.051	54	160703	440.1434	ug/L		95
46) Methacrylonitrile	8.070	41	721240	442.3345	ug/L		99
47) Benzene	8.045	78	257208	42.3171	ug/L		99
48) TAME	8.112	73	172941	44.2879	ug/L		97
50) 1,2-Dichloroethane	8.253	62	78698	42.7911	ug/L		97
51) tert Amyl alcohol	8.283	59	92524	404.1037	ug/L		97
52) Trichloroethene	8.637	95	63256	42.3751	ug/L		94
53) Methylcyclohexane	8.637	83	110792	40.9900	ug/L		97
54) Dibromomethane	9.082	93	38474	40.0791	ug/L		96
55) 1,2-Dichloropropane	9.173	63	63338	44.3424	ug/L		97
56) Bromodichloromethane	9.216	83	71802	44.1523	ug/L		98
57) Methyl methacrylate	9.326	41	66716	41.4201	ug/L		97
58) 1,4-Dioxane	9.411	88	17982	842.4918	ug/L		94
59) 2-Chloroethyl vinyl ether	9.746	63	154467	214.2584	ug/L		98
60) cis-1,3-Dichloropropene	9.844	75	85155	40.0403	ug/L		95
63) Toluene	10.088	91	241269	39.3075	ug/L		98
64) Isobutyl alcohol	8.173	43	112962	1042.9520	ug/L		97
65) 2-Nitropropane	10.313	41	74678	218.1002	ug/L		94
66) 4-Methyl-2-pentanone	10.423	43	528533	217.7801	ug/L		100
67) trans-1,3-Dichloropropene	10.484	75	78410	39.7499	ug/L		98
68) Tetrachloroethene	10.490	166	66486	44.8853	ug/L		97
69) Ethyl methacrylate	10.588	69	83534	44.4313	ug/L		94
70) 1,1,2-Trichloroethane	10.649	83	47616	43.1027	ug/L		94
71) Dibromochloromethane	10.844	129	48762	40.2840	ug/L		90
72) 1,3-Dichloropropane	10.935	76	89075	44.1238	ug/L		98
73) 1,2-Dibromoethane	11.112	107	52845	41.3042	ug/L		94
74) 3,3-Dimethyl-1-butanol	11.185	57	343180	2295.0480	ug/L		98
75) 2-hexanone	11.246	43	382604	209.0958	ug/L		98
76) 1-Chlorohexane	11.539	91	82716	46.7596	ug/L		98
77) Ethylbenzene	11.606	91	289744	40.4317	ug/L		99
78) Chlorobenzene	11.612	112	161518	41.7367	ug/L		99
79) 1,1,1,2-Tetrachloroethane	11.661	131	48904	44.2522	ug/L		93
80) m,p-Xylene	11.746	91	426673	82.3052	ug/L		99
81) o-Xylene	12.185	91	202910	41.6503	ug/L		97
82) Styrene	12.240	104	146911	41.3365	ug/L		97
83) Bromoform	12.301	173	32419	42.5201	ug/L		94
84) Isopropylbenzene	12.490	105	241321	43.0688	ug/L		100
87) cis-1,4-Dichloro-2-butene	12.849	53	15800	44.5092	ug/L		94
88) n-Propylbenzene	12.910	91	304593	42.9126	ug/L		99
89) Bromobenzene	12.941	156	56279	42.9658	ug/L		96
90) 1,1,2,2-Tetrachloroethane	12.977	83	83430	44.4834	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	194048	44.1892	ug/L		98
92) 2-Chlorotoluene	13.105	91	192508	41.5920	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.166	53	16344	42.6535	ug/L	#	71
94) 1,2,3-Trichloropropane	13.142	110	20647	43.2289	ug/L		92
95) Cyclohexanone	13.215	55	14739	236.5537	ug/L		96
96) 4-Chlorotoluene	13.270	91	165565	42.3873	ug/L		99
98) tert-Butylbenzene	13.435	91	108691	43.6485	ug/L		97
99) 1,2,4-Trimethylbenzene	13.502	105	188677	44.0935	ug/L		100
100) Pentachloroethane	13.489	167	27561	38.4939	ug/L		96
101) sec-Butylbenzene	13.617	105	248248	44.0280	ug/L		100
102) 4-Isopropyltoluene	13.746	119	191919	45.5286	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	107564	43.5376	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	217964	44.7956	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	122634	42.6970	ug/L		99
106) n-Butylbenzene	14.166	92	103239	42.8237	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47518.d
Acq On : 27 Jun 2024 6:18 pm
Operator : lianatr
Sample : ECC2111-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 28 06:26:29 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06
... 252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

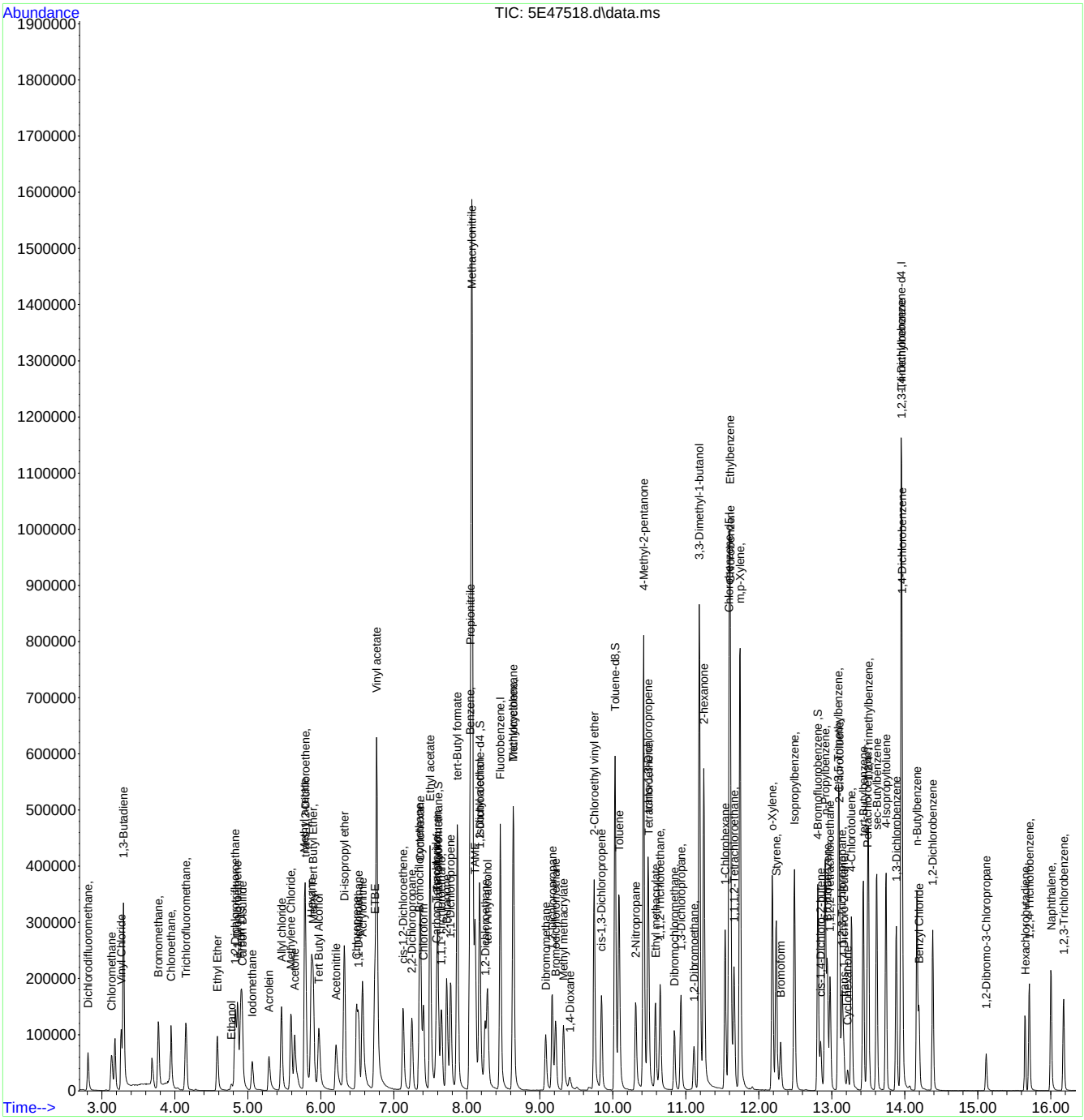
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) Benzyl Chloride	14.197	126	17255	40.3452	ug/L #	89
108) 1,2-Dichlorobenzene	14.386	146	95928	42.7505	ug/L	97
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11180	41.3749	ug/L	95
110) Hexachlorobutadiene	15.654	225	18979	41.2943	ug/L	94
111) 1,2,4-Trichlorobenzene	15.709	180	50322	44.4423	ug/L	99
112) Naphthalene	16.007	128	151412	42.7678	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	44212	43.3264	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\V5E2115-16-17\
Data File : 5E47518.d
Acq On : 27 Jun 2024 6:18 pm
Operator : lianatr
Sample : ECC2111-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2117,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 28 06:26:29 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V5E2115-16-17\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA17-1A
Date:	06/25/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.4 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V2A1910_06252024.M
Calibration Date:	06/25/2024
Acq. Method:	VA_8260.M
EM Voltage:	1576V
Run ID:	**V2A1910**

BFB:	VS4022
ICAL/CC:	VS4004, VS4045, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4022

pH Paper Lot#:	230320A/211623A
KI Paper Lot#:	14-860 03/13/23
AFA Lot#:	VS3860
Data processed by:	Jenifer W
Sample ID Ver. by:	Jenifer W
Date Verified:	06/25/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
2A56264	BFB	-	-	Water	51	-	-	-	-	Autofind Tune Passed✓
2A56266	IC1910-1	-	-	Water	52	-	-	-	-	1uL→100mL OP#40 PBL#76,77 MP#15,59,87,94,95,104,106,108
2A56268	IC1910-8	-	-	Water	53	-	-	-	-	2uL→100mL OP#40 PBL#76,77 MP#36,59,94,104,106,108
2A56270	IC1910-2	-	-	Water	54	-	-	-	-	5uL→100mL OP#40 PBL#10,76,77
2A56272	IC1910-3	-	-	Water	55	-	-	-	-	10uL→100mL OP#40 PBL#10,76,77
2A56274	IC1910-4	-	-	Water	56	-	-	-	-	25uL→100mL OP#40 PBL #76,77
2A56276	ICC1910-5	-	-	Water	57	-	-	-	-	40uL→100mL OP#40 PBL #76,77
2A56278	IC1910-6	-	-	Water	58	-	-	-	-	70uL→100mL OP#40 PBL #76,77
2A56280	IC1910-7	-	-	Water	59	-	-	-	-	100uL→100mL OP#40 PBL #76,77
2A56282	rinse	-	-	Water	60	-	-	-	-	
2A56284	ICV1910-5	-	-	Water	61	-	-	-	-	40uL→100mL OP#40 PBL #76,77
2A56286	BS	-	-	Water	62	-	-	-	-	25uL→100mL OP#40 PBL #76,77
2A56287	rinse	-	-	Water	63	-	-	-	-	
2A56288	MB	-	-	Water	64	-	-	-	-	AFA, ND✓
2A56290	FC16589-2	-	12	Water	65	MS56910	1	N	-	DCFM only; PBL#77 ✓
2A56291	FC16485-13	-	5	Water	66	MS56910	1	N	-	TCFM only ✓
2A56292	FC16447-2	-	2	Water	67	MS56910	1	N	-	✓
2A56293	FC16447-23	-	3	Water	68	MS56910	1	N	-	CH only ✓
2A56294	FC16443-6	-	1	Water	69	MS56910	1	N	-	✓
2A56295	FC16589-2MS	-	1	Water	70	MS56910	1	N	-	spike 10uL→40mL OP#40,76,77 ✓
2A56296	FC16589-2MSD	-	14	Water	71	MS56910	1	N	-	spike 10uL→40mL OP#40,76,77 ✓
2A56297	ECC1910-4	-	-	Water	72	-	-	-	-	25uL→100mL OP#40,76,77 ✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA17-1A
Date:	06/26/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.4 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V2A1910_06252024.M
Calibration Date:	06/25/2024
Acq. Method:	VA_8260.M
EM Voltage:	1576V
Run ID:	**V2A1911**

BFB:	VS4022
ICAL/CC:	VS4004, VS4045, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4054, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4022

pH Paper Lot#:	230320A/211623A
KI Paper Lot#:	14-860 03/13/23
AFA Lot#:	VS3860
Data processed by:	Jenifer W/LotusA
Sample ID Ver. by:	Jenifer W
Date Verified:	06/26/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
2A56300	BFB	-	-	Water	1	-	-	-	-	Autofind Tune Passed✓
2A56301	CC1910-4	-	-	Water	2	-	-	-	-	25uL→100mL PBL#10 OP#40,76,77 ✓
2A56302	BS	-	-	Water	3	-	-	-	-	25uL→100mL PBL#10 OP#40,76,77 ✓
2A56303	rinse	-	-	Water	4	-	-	-	-	
2A56304	MB	-	-	Water	5	-	-	-	-	AFA, ND✓
2A56305	FC16561-14	-	2	Water	6	MS56912	1	N	-	ND ✓
2A56306	FC16561-5	-	9	Water	7	MS56912	1	N	-	✓
2A56307	FC16561-12	2x	1	Water	8	MS56912	1	N		25mL→50mL ✓
2A56308	FC16561-1	-	1	Water	9	MS56912	1	N	-	ND ✓
2A56309	**FC16561-2**	**-**	**4**	**Water**	**10**	**MS56912**	1	N	**2X**	**✓ CIS12 O/R**
2A56310	FC16561-3	-	4	Water	11	MS56912	1	N	-	✓
2A56311	FC16561-4	2.5x	4	Water	12	MS56912	1	N	-	20mL→50mL ✓
2A56312	FC16561-6	-	4	Water	13	MS56912	1	N	-	AFA, ND✓
2A56313	**FC16561-7**	**-**	**4**	**Water**	**14**	**MS56912**	1	N	**2X**	**✓ CIS12 O/R**
2A56314	FC16561-8	-	4	Water	15	MS56912	1	N	1x	AFA; possible c/o
2A56315	**FC16561-9**	**-**	**1**	**Water**	**16**	**MS56912**	1	N	**2X**	**✓ CIS12 O/R**
2A56316	FC16561-10	-	1	Water	17	MS56912	1	N	-	✓
2A56317	FC16561-11	-	1	Water	18	MS56912	1	N	-	✓
2A56318	FC16561-13	-	4	Water	19	MS56912	1	N	-	ND ✓
2A56319	FC16561-15	-	4	Water	20	MS56912	1	N	-	✓
2A56320	FC16561-12	10X	5	Water	21	MS56912	1	N		10mL→50mL Ecombine C12DCE ✓
2A56321	FC16680-7	-	6	Water	22	MS56912	12	N	-	CE only ✓
2A56322	FC16485-4	-	5	Water	23	MS56912	1	N	-	✓
2A56323	FC16680-4	10x	6	Water	24	MS56912	7	N	-	5mL→50mL ✓
2A56324	FC16680-8	-	2	Water	25	MS56912	7	N	-	✓
2A56325	FC16561-5MS	-	10	Water	26	MS56912	1	N	-	10uL→40mL PBL#10 OP#40,76,77 ✓
2A56326	FC16561-5MSD	-	11	Water	27	MS56912	1	N	-	10uL→40mL PBL#10 OP#40,76,77 ✓
2A56327	FC16561-12MS	10X	1,2	Water	28	MS56912	1	N	-	10mL→100mL spike 25uL→100mL PBL#10 OP#40,76,77 ✓
2A56328	FC16561-12MSD	10X	1,2	Water	29	MS56912	1	N	-	10mL→100mL spike 25uL→100mL PBL#10 OP#40,76,77 ✓
2A56329	ECC1910-4	-	-	Water	30	-	-	-	-	25uL→100mL PBL#10 OP#40,76,77 ✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA20-5E
Date:	6/25/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2113**

BFB:	VS4048
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4048

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/2022
AFA Lot#:	VS3511
Data processed by:	Liana T
Sample ID Ver. by:	Liana T
Date Verified:	6/25/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47450	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47451	IC2113-1	-	-	Water	2	-	-	-	-	1uL(-)100mL✓
5E47452	IC2113-8	-	-	Water	3	-	-	-	-	2uL(-)100mL✓
5E47453	IC2113-2	-	-	Water	4	-	-	-	-	5uL(-)100mL✓
5E47454	IC2113-3	-	-	Water	5	-	-	-	-	5uL(-)50mL✓
5E47455	IC2113-4	-	-	Water	6	-	-	-	-	12.5uL(-)50mL✓
5E47456	ICC2113-5	-	-	Water	7	-	-	-	-	20uL(-)50mL✓
5E47457	IC2113-6	-	-	Water	8	-	-	-	-	35uL(-)50mL✓
5E47458	IC2113-7	-	-	Water	9	-	-	-	-	50uL(-)50mL✓
5E47459	BLANK	-	-	Water	10	-	-	-	-	-
5E47460	ICV2113-5	-	-	Water	11	-	-	-	-	20uL(-)50mL✓
5E47461	ICV2113-4	-	-	Water	12	-	-	-	-	12.5uL(-)50mL

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA20-5E
Date:	6/27/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2115-16-17**

BFB:	VS3987
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS3987

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/202
AFA Lot#:	VS3511
Data processed by:	iana T/ Jh
Sample ID Ver. by:	Liana
Date Verified:	6/27/2(

Run Sequence: V5E2117

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47490	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47491	CC2111-5	-	-	Water	2	-	-	-	-	40uL(-)100mL✓
5E47492	BS	-	-	Water	3	-	-	-	-	25uL(-)100mL✓
5E47493	BLANK	-	-	Water	4	-	-	-	-	-
5E47494	MB	-	-	Water	5	-	-	-	-	AFA✓
5E47495	OP3828-LB	10X	-	TCLP	6	MS56920	-	-	-	5mL(-)50mL✓
5E47496	LB3527-1	5000X	-	TCLP	7	MS56920	-	-	-	10uL(-)50mL; ND✓
5E47497	LB3528-1	5000X	-	TCLP	8	MS56920	-	-	-	10uL(-)50mL; ND✓
5E47498	FC16639-1L	10X	-	TCLP	9	MS56920	-	-	-	5mL(-)50mL✓
5E47499	FC16657-1L	10X	-	TCLP	10	MS56920	-	-	-	5mL(-)50mL; ND✓
5E47500	FC16659-1L	10X	-	TCLP	11	MS56920	-	-	-	5mL(-)50mL; ND✓
5E47501	OP3956-LB	10X	-	TCLP	12	MS56921	-	-	-	5mL(-)50mL✓
5E47502	FC16313-1L	10X	-	TCLP	13	MS56921	-	-	-	AFA, 5mL(-)50mL; ND✓
5E47503	FC16313-2L	10X	-	TCLP	14	MS56921	-	-	-	5mL(-)50mL; ND✓
5E47504	FC16509-1L	10X	-	TCLP	15	MS56921	-	-	-	AFA, 5mL(-)50mL✓
5E47505	FC16615-1	10X	-	TCLP	16	MS56921	-	-	-	5mL(-)50mL; ND✓
5E47506	FC16639-2	10X	-	TCLP	17	MS56921	-	-	-	5mL(-)50mL; ND✓
5E47507	FC16649-1L	10X	-	TCLP	18	MS56921	-	-	-	5mL(-)50mL; ND✓
5E47508	FC16561-2	5X	7	Water	19	MS56925	1	N	-	10mL(-)50mL;✓
5E47509	FC16561-7	5X	7	Water	20	MS56925	1	N	-	10mL(-)50mL;✓
5E47510	FC16561-8	1X	7	Water	21	MS56925	1	N	-	✓
5E47511	FC16561-9	5X	2	Water	22	MS56925	1	N	-	10mL(-)50mL; ✓
5E47512	FC16561-2MS	5X	7	Water	23	MS56925	1	N	-	20mL(-)100mL; Spiked 25uL(-)100mL✓
5E47513	FC16561-2MSD	5X	7	Water	24	MS56925	1	N	-	20mL(-)100mL; Spiked 25uL(-)100mL✓
5E47514	FC16639-1LMS	10X	-	TCLP	25	MS56920	-	-	-	10mL(-)100mL; Spiked 25uL(-)100mL✓
5E47515	FC16639-1LMSD	10X	-	TCLP	26	MS56920	-	-	-	10mL(-)100mL; Spiked 25uL(-)100mL✓
5E47516	FC16313-2LMS	10X	-	TCLP	27	MS56921	-	-	-	10mL(-)100mL; Spiked 25uL(-)100mL✓
5E47517	FC16313-2LMSD	10X	-	TCLP	28	MS56921	-	-	-	10mL(-)100mL; Spiked 25uL(-)100mL✓
5E47518	ECC2111-5	-	-	Water	29	-	-	-	-	40uL(-)100mL✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3143-MB	LL90254.D	1	06/26/24	JR	n/a	n/a	GLL3143

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-14

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3144-MB	LL90284.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-5, FC16561-6, FC16561-7, FC16561-13, FC16561-15

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3145-MB	LL90316.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-8, FC16561-15

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3143-BS	LL90252.D	1	06/26/24	JR	n/a	n/a	GLL3143
GLL3143-BSD	LL90253.D	1	06/26/24	JR	n/a	n/a	GLL3143

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	108	100	109	101	1	62-139/30
74-84-0	Ethane	219	218	100	222	101	2	67-141/30
74-85-1	Ethene	290	299	103	304	105	2	68-141/30

8.2.1

8

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3144-BS	LL90280.D	1	06/27/24	JR	n/a	n/a	GLL3144
GLL3144-BSD	LL90281.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-5, FC16561-6, FC16561-7, FC16561-13, FC16561-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	106	98	109	101	3	62-139/30
74-84-0	Ethane	219	215	98	221	101	3	67-141/30
74-85-1	Ethene	290	296	102	303	104	2	68-141/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3145-BS	LL90312.D	1	06/28/24	JR	n/a	n/a	GLL3145
GLL3145-BSD	LL90313.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-8, FC16561-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	102	94	110	102	8	62-139/30

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16559-3MS	LL90259.D	20	06/26/24	JR	n/a	n/a	GLL3143
FC16559-3	LL90255.D	1	06/26/24	JR	n/a	n/a	GLL3143
FC16559-3	LL90256.D	20	06/26/24	JR	n/a	n/a	GLL3143

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-14

CAS No.	Compound	FC16559-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	7020 [a]		2160	9350	108	62-139
74-84-0	Ethane	6.0		4380	4140	95	67-141
74-85-1	Ethene	9.7		5800	5800	100	68-141

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5MS	LL90287.D	1	06/27/24	JR	n/a	n/a	GLL3144
FC16561-5	LL90285.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-5, FC16561-6, FC16561-7, FC16561-13, FC16561-15

CAS No.	Compound	FC16561-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.50 U		108	105	97	62-139
74-84-0	Ethane	1.0 U		219	214	98	67-141
74-85-1	Ethene	1.0 U		290	295	102	68-141

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16768-1MS	LL90321.D	1	06/28/24	JR	n/a	n/a	GLL3145
FC16768-1	LL90317.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-8, FC16561-15

CAS No.	Compound	FC16768-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	2.2		108	103	93	62-139

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16559-3DUP	LL90257.D	20	06/26/24	JR	n/a	n/a	GLL3143
FC16559-3	LL90255.D	1	06/26/24	JR	n/a	n/a	GLL3143
FC16559-3	LL90256.D	20	06/26/24	JR	n/a	n/a	GLL3143

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7, FC16561-8, FC16561-14

CAS No.	Compound	FC16559-3 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	7020 [a]		8010		13	30
74-84-0	Ethane	6.0		ND		0	30
74-85-1	Ethene	9.7		ND		0	30

(a) Result is from Run #2.

8.4.1

8

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5DUP	LL90286.D	1	06/27/24	JR	n/a	n/a	GLL3144
FC16561-5	LL90285.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-2, FC16561-5, FC16561-6, FC16561-7, FC16561-13, FC16561-15

CAS No.	Compound	FC16561-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.50 U		0.20	J	200*	30
74-84-0	Ethane	1.0 U		ND		nc	30
74-85-1	Ethene	1.0 U		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16768-6DUP	LL90324.D	1	06/28/24	JR	n/a	n/a	GLL3145
FC16768-6 [a]	LL90319.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16561-8, FC16561-15

CAS No.	Compound	FC16768-6 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.50 U		0.27	J	200*	30

(a) Associated DUP RPD outside DOD QSM control limits due to ND J-value result.

* = Outside of Control Limits.

Initial Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3025-ICC3025
Lab FileID: LL87265.D

Response Factor Report FID4-LL

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Initial Calibration

Calibration Files
1 =LL87261.D 2 =LL87262.D 3 =LL87263.D 4 =LL87264.D
5 =LL87265.D 6 =LL87266.D 7 =LL87267.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane	8.943	6.012	6.518	6.828	6.925	7.025	6.881	7.019 E5	13.04

---- Linear regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 691014.23613 *A

2) Acetylene	1.389	1.402	1.513	1.637	1.670	1.629	1.617	1.551 E6	7.54
3) Ethylene	1.120	1.229	1.113	1.186	1.193	1.242	1.213	1.185 E6	4.27
4) Ethane	1.171	1.253	1.166	1.260	1.253	1.315	1.261	1.240 E6	4.30
5) Propane	1.059	1.278	1.467	1.652	1.667	1.766	1.713	1.515 E6	17.26

---- Linear regr., Force(0,0) ---- Coefficient = 0.9998
Response Ratio = 0.00000 + 1722955.23426 *A

(#) = Out of Range

RSK01102024.M Thu Jan 11 07:59:25 2024

8.5.1

8

Initial Calibration Verification

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3025-ICV3025
Lab FileID: LL87269.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	944.620	5.5	94	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	970.589	2.9	90	0.00	0.29- 0.89
3	Ethylene	1000.000	968.908	3.1	96	0.00	0.35- 1.15
4	Ethane	1000.000	952.404	4.8	94	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	930.516	6.9	96	0.00	0.00- 6.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Thu Jan 11 07:57:59 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3143-CC3025
Lab FileID: LL90251.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062624\LL90251.d Vial: 2
Acq On : 26-Jun-24, 09:45:58 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24883,gll3143,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1032.428	-3.2	103	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1092.480	-9.2	101	0.00	0.28- 0.88
3	Ethylene	1000.000	1029.626	-3.0	102	0.00	0.35- 1.15
4	Ethane	1000.000	1032.394	-3.2	102	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	966.369	3.4	100	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Thu Jun 27 08:15:51 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3143-CC3025
Lab FileID: LL90262.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062624\LL90262.d Vial: 13
Acq On : 26-Jun-24, 11:44:14 Operator: jennr
Sample : cc3025-4 Inst : HP G1530A
Misc : gc24883,gll3143,38,21,250,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
		Amount	Calc.	%Drift			
1	Methane	500.000	521.146	-4.2	105	0.00	0.02- 0.55
		Amount	Calc.	%Drift			
2	Acetylene	500.000	549.616	-9.9	104	0.00	0.28- 0.88
3	Ethylene	500.000	520.816	-4.2	104	0.00	0.35- 1.15
4	Ethane	500.000	524.155	-4.8	103	0.00	0.56- 1.36
		Amount	Calc.	%Drift			
5	Propane	500.000	488.925	2.2	102	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87264.D RSK01102024.M Thu Jun 27 08:33:17 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3143-CC3025
Lab FileID: LL90273.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062624\LL90273.d Vial: 24
Acq On : 26-Jun-24, 13:50:38 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24883,gll3143,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1005.112	-0.5	100	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1063.265	-6.3	99	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.335	-0.3	100	0.00	0.35- 1.15
4	Ethane	1000.000	1008.301	-0.8	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	948.474	5.2	98	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Thu Jun 27 08:16:14 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3143-ECC3025
Lab FileID: LL90277.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062624\LL90277.d Vial: 28
Acq On : 26-Jun-24, 14:21:21 Operator: jennr
Sample : ecc3025-5 Inst : HP G1530A
Misc : gc24883,gll3143,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	995.804	0.4	99	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1054.242	-5.4	98	0.00	0.28- 0.88
3	Ethylene	1000.000	993.649	0.6	99	0.00	0.35- 1.15
4	Ethane	1000.000	998.461	0.2	99	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	935.446	6.5	97	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Thu Jun 27 08:15:54 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90279.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90279.d Vial: 2
Acq On : 27-Jun-24, 08:44:56 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1007.802	-0.8	101	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1065.223	-6.5	99	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.962	-0.4	100	0.00	0.35- 1.15
4	Ethane	1000.000	1007.205	-0.7	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	940.056	6.0	97	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Fri Jun 28 09:08:37 2024

8.5.7

8

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90290.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90290.d Vial: 13
Acq On : 27-Jun-24, 11:11:47 Operator: jennr
Sample : cc3025-4 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,250,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	500.000	523.932	-4.8	106	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	500.000	553.185	-10.6	105	0.00	0.28- 0.88
3	Ethylene	500.000	525.041	-5.0	105	0.00	0.35- 1.15
4	Ethane	500.000	530.393	-6.1	104	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	500.000	497.354	0.5	104	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87264.D RSK01102024.M Fri Jun 28 09:09:02 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90301.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90301.d Vial: 24
Acq On : 27-Jun-24, 12:50:13 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	987.292	1.3	99	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1049.883	-5.0	97	0.00	0.28- 0.88
3	Ethylene	1000.000	991.180	0.9	98	0.00	0.35- 1.15
4	Ethane	1000.000	996.381	0.4	99	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	934.175	6.6	97	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Fri Jun 28 09:08:40 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-ECC3025
Lab FileID: LL90309.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90309.d Vial: 32
Acq On : 27-Jun-24, 14:19:04 Operator: jennr
Sample : ecc3025-5 Inst : HP G1530A
Misc : gc24883,gll3144,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	995.189	0.5	99	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1063.999	-6.4	99	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.318	-0.3	100	0.00	0.35- 1.15
4	Ethane	1000.000	1010.133	-1.0	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	955.006	4.5	99	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Fri Jun 28 09:08:42 2024

8.5.10

8

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90311.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90311.d Vial: 2
Acq On : 28-Jun-24, 09:16:24 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methane	1000.000	1001.887	-0.2	100	0.00	0.02- 0.55
2	Acetylene	1000.000	1059.730	-6.0	98	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.894	-0.4	100	0.00	0.35- 1.15
4	Ethane	1000.000	1007.497	-0.7	100	0.00	0.56- 1.36
5	Propane	1000.000	932.678	6.7	96	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Tue Jul 02 07:51:07 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90322.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90322.d Vial: 13
Acq On : 28-Jun-24, 11:33:12 Operator: jennr
Sample : cc3025-4 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,250,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	500.000	538.117	-7.6	109	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	500.000	567.405	-13.5	108	0.00	0.28- 0.88
3	Ethylene	500.000	539.768	-8.0	108	0.00	0.35- 1.15
4	Ethane	500.000	545.069	-9.0	107	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	500.000	507.283	-1.5	106	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87264.D RSK01102024.M Tue Jul 02 07:51:33 2024

Continuing Calibration Summary

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90333.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90333.d Vial: 24
Acq On : 28-Jun-24, 13:05:46 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methane	1000.000	1014.850	-1.5	101	0.00	0.02- 0.55
2	Acetylene	1000.000	1077.297	-7.7	100	0.00	0.28- 0.88
3	Ethylene	1000.000	1018.469	-1.8	101	0.00	0.35- 1.15
4	Ethane	1000.000	1024.572	-2.5	101	0.00	0.56- 1.36
5	Propane	1000.000	962.593	3.7	100	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Tue Jul 02 07:51:09 2024

8.5.13

8

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3025 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3025-IC3025	LL87261.D	01/10/24 12:04	n/a	Initial cal 1
GLL3025-IC3025	LL87262.D	01/10/24 12:12	n/a	Initial cal 2
GLL3025-IC3025	LL87263.D	01/10/24 12:21	n/a	Initial cal 3
GLL3025-IC3025	LL87264.D	01/10/24 12:30	n/a	Initial cal 4
GLL3025-ICC3025	LL87265.D	01/10/24 12:39	n/a	Initial cal 5
GLL3025-IC3025	LL87266.D	01/10/24 12:49	n/a	Initial cal 6
GLL3025-IC3025	LL87267.D	01/10/24 12:57	n/a	Initial cal 7
GLL3025-ICV3025	LL87269.D	01/10/24 13:14	n/a	Initial cal verification 5
GLL3025-CC3025	LL87269A.D	01/10/24 13:14	n/a	Continuing cal 5
GLL3025-BS	LL87270.D	01/10/24 13:32	n/a	Blank Spike
GLL3025-BSD	LL87271.D	01/10/24 13:42	n/a	Blank Spike Duplicate
GLL3025-MB	LL87272.D	01/10/24 13:49	n/a	Method Blank
FC12419-1B	LL87273.D	01/10/24 13:56	n/a	(used for QC only; not part of job FC16561)
ZZZZZZ	LL87274.D	01/10/24 14:04	n/a	(unrelated sample)
ZZZZZZ	LL87275.D	01/10/24 14:11	n/a	(unrelated sample)
ZZZZZZ	LL87276.D	01/10/24 14:18	n/a	(unrelated sample)
FC12419-1BMS	LL87277.D	01/10/24 14:26	n/a	Matrix Spike
FC12419-6B	LL87278.D	01/10/24 14:34	n/a	(used for QC only; not part of job FC16561)
FC12419-6BDUP	LL87279.D	01/10/24 14:41	n/a	Duplicate
GLL3025-ECC3025	LL87280.D	01/10/24 14:48	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3143 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3143-CC3025	LL90251.D	06/26/24 09:45	n/a	Continuing cal 5
GLL3143-BS	LL90252.D	06/26/24 09:57	n/a	Blank Spike
GLL3143-BSD	LL90253.D	06/26/24 10:07	n/a	Blank Spike Duplicate
GLL3143-MB	LL90254.D	06/26/24 10:17	n/a	Method Blank
FC16559-3	LL90255.D	06/26/24 10:27	n/a	(used for QC only; not part of job FC16561)
FC16559-3	LL90256.D	06/26/24 10:36	n/a	(used for QC only; not part of job FC16561)
FC16559-3DUP	LL90257.D	06/26/24 10:45	n/a	Duplicate
ZZZZZZ	LL90258.D	06/26/24 10:52	n/a	(unrelated sample)
FC16559-3MS	LL90259.D	06/26/24 11:10	n/a	Matrix Spike
ZZZZZZ	LL90260.D	06/26/24 11:21	n/a	(unrelated sample)
ZZZZZZ	LL90261.D	06/26/24 11:31	n/a	(unrelated sample)
GLL3143-CC3025	LL90262.D	06/26/24 11:44	n/a	Continuing cal 4
ZZZZZZ	LL90264.D	06/26/24 12:00	n/a	(unrelated sample)
ZZZZZZ	LL90265.D	06/26/24 12:13	n/a	(unrelated sample)
ZZZZZZ	LL90266.D	06/26/24 12:24	n/a	(unrelated sample)
ZZZZZZ	LL90267.D	06/26/24 12:40	n/a	(unrelated sample)
FC16561-2	LL90268.D	06/26/24 12:53	n/a	SEAD-AL-PT-17-20240618
FC16561-3	LL90269.D	06/26/24 13:01	n/a	SEAD-AL-MWT-26-20240618
FC16561-4	LL90270.D	06/26/24 13:08	n/a	SEAD-AL-MWT-7-20240618
FC16561-6	LL90271.D	06/26/24 13:25	n/a	SEAD-AL-MWT-27-20240618
FC16561-7	LL90272.D	06/26/24 13:38	n/a	SEAD-AL-MWT-29-20240618
GLL3143-CC3025	LL90273.D	06/26/24 13:50	n/a	Continuing cal 5
FC16561-8	LL90275.D	06/26/24 14:05	n/a	SEAD-AL-DUP-01-20240618
FC16561-14	LL90276.D	06/26/24 14:14	n/a	TRIP BLANK
GLL3143-ECC3025	LL90277.D	06/26/24 14:21	n/a	Ending cal 5

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3144 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3144-CC3025	LL90279.D	06/27/24 08:44	n/a	Continuing cal 5
GLL3144-BS	LL90280.D	06/27/24 08:55	n/a	Blank Spike
GLL3144-BSD	LL90281.D	06/27/24 09:03	n/a	Blank Spike Duplicate
GLL3144-MB	LL90284.D	06/27/24 10:14	n/a	Method Blank
FC16561-5	LL90285.D	06/27/24 10:26	n/a	SEAD-AL-PT-24-20240618
FC16561-5DUP	LL90286.D	06/27/24 10:34	n/a	Duplicate
FC16561-5MS	LL90287.D	06/27/24 10:43	n/a	Matrix Spike
FC16561-13	LL90288.D	06/27/24 10:51	n/a	SEAD-AL-MW-40-20240618
FC16561-15	LL90289.D	06/27/24 10:58	n/a	SEAD-AL-MWT-23-20240618
GLL3144-CC3025	LL90290.D	06/27/24 11:11	n/a	Continuing cal 4
ZZZZZZ	LL90292.D	06/27/24 11:26	n/a	(unrelated sample)
ZZZZZZ	LL90293.D	06/27/24 11:33	n/a	(unrelated sample)
ZZZZZZ	LL90294.D	06/27/24 11:43	n/a	(unrelated sample)
ZZZZZZ	LL90295.D	06/27/24 11:53	n/a	(unrelated sample)
ZZZZZZ	LL90296.D	06/27/24 12:01	n/a	(unrelated sample)
ZZZZZZ	LL90297.D	06/27/24 12:09	n/a	(unrelated sample)
ZZZZZZ	LL90298.D	06/27/24 12:16	n/a	(unrelated sample)
ZZZZZZ	LL90299.D	06/27/24 12:25	n/a	(unrelated sample)
ZZZZZZ	LL90300.D	06/27/24 12:32	n/a	(unrelated sample)
GLL3144-CC3025	LL90301.D	06/27/24 12:50	n/a	Continuing cal 5
ZZZZZZ	LL90303.D	06/27/24 13:05	n/a	(unrelated sample)
ZZZZZZ	LL90304.D	06/27/24 13:21	n/a	(unrelated sample)
ZZZZZZ	LL90305.D	06/27/24 13:48	n/a	(unrelated sample)
FC16561-2	LL90306.D	06/27/24 13:55	n/a	SEAD-AL-PT-17-20240618
FC16561-6	LL90307.D	06/27/24 14:04	n/a	SEAD-AL-MWT-27-20240618
FC16561-7	LL90308.D	06/27/24 14:11	n/a	SEAD-AL-MWT-29-20240618
GLL3144-ECC3025	LL90309.D	06/27/24 14:19	n/a	Ending cal 5

Run Sequence Report

Job Number: FC16561
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3145 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3145-CC3025	LL90311.D	06/28/24 09:16	n/a	Continuing cal 5
GLL3145-BS	LL90312.D	06/28/24 09:25	n/a	Blank Spike
GLL3145-BSD	LL90313.D	06/28/24 09:36	n/a	Blank Spike Duplicate
GLL3145-MB	LL90316.D	06/28/24 10:41	n/a	Method Blank
FC16768-1	LL90317.D	06/28/24 10:56	n/a	(used for QC only; not part of job FC16561)
ZZZZZZ	LL90318.D	06/28/24 11:03	n/a	(unrelated sample)
FC16768-6	LL90319.D	06/28/24 11:11	n/a	(used for QC only; not part of job FC16561)
ZZZZZZ	LL90320.D	06/28/24 11:18	n/a	(unrelated sample)
FC16768-1MS	LL90321.D	06/28/24 11:25	n/a	Matrix Spike
GLL3145-CC3025	LL90322.D	06/28/24 11:33	n/a	Continuing cal 4
FC16768-6DUP	LL90324.D	06/28/24 11:48	n/a	Duplicate
FC16561-8	LL90325.D	06/28/24 11:56	n/a	SEAD-AL-DUP-01-20240618
FC16561-15	LL90326.D	06/28/24 12:03	n/a	SEAD-AL-MWT-23-20240618
ZZZZZZ	LL90327.D	06/28/24 12:15	n/a	(unrelated sample)
ZZZZZZ	LL90328.D	06/28/24 12:25	n/a	(unrelated sample)
ZZZZZZ	LL90329.D	06/28/24 12:34	n/a	(unrelated sample)
ZZZZZZ	LL90330.D	06/28/24 12:43	n/a	(unrelated sample)
ZZZZZZ	LL90331.D	06/28/24 12:50	n/a	(unrelated sample)
ZZZZZZ	LL90332.D	06/28/24 12:57	n/a	(unrelated sample)
GLL3145-CC3025	LL90333.D	06/28/24 13:05	n/a	Continuing cal 5
ZZZZZZ	LL90335.D	06/28/24 13:21	n/a	(unrelated sample)
ZZZZZZ	LL90336.D	06/28/24 13:28	n/a	(unrelated sample)
ZZZZZZ	LL90337.D	06/28/24 13:38	n/a	(unrelated sample)
ZZZZZZ	LL90338.D	06/28/24 13:45	n/a	(unrelated sample)
ZZZZZZ	LL90339.D	06/28/24 13:53	n/a	(unrelated sample)
ZZZZZZ	LL90340.D	06/28/24 14:00	n/a	(unrelated sample)
GLL3145-ECC3025	LL90341.D	06/28/24 14:08	n/a	Ending cal 5

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90268.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 12:53:34
Operator : jennr
Sample : fc16561-2
Misc : gc24883,gll3143,39,21,500,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:02:15 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.252	7920195234	11461.696	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv d
3)	Ethylene	0.749	3892698	3.284	ppmv
4)	Ethane	0.961	7435272	5.997	ppmv
5)	Propane	0.000	0	N.D.	ppmv d

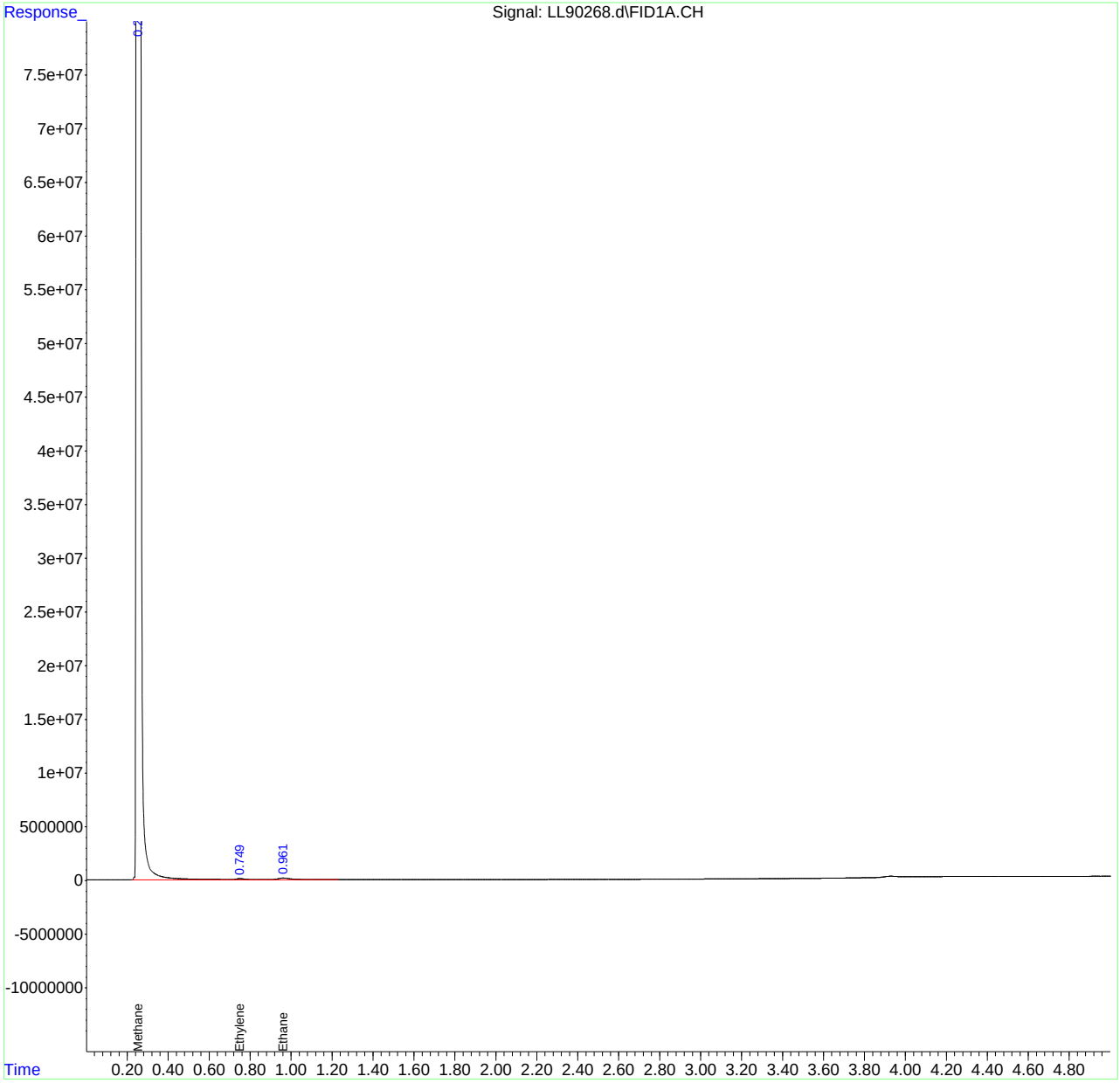
(f)=RT Delta > 1/2 Window (m)=manual int.

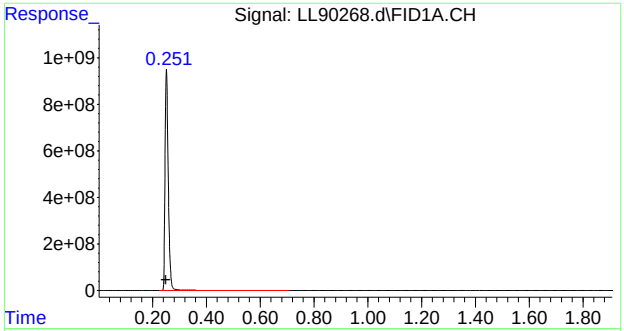
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90268.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 12:53:34
Operator : jennr
Sample : fc16561-2
Misc : gc24883,gll3143,39,21,500,5,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:02:15 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

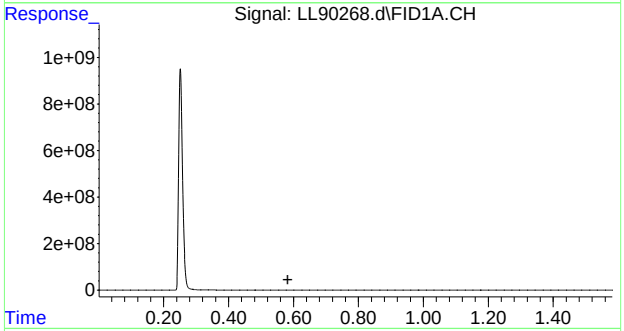
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





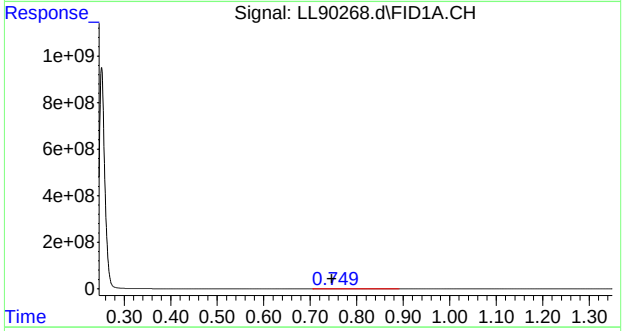
#1 Methane

R.T.: 0.252 min
Delta R.T.: 0.003 min
Response: 7920195234
Conc: 11461.70 ppmv



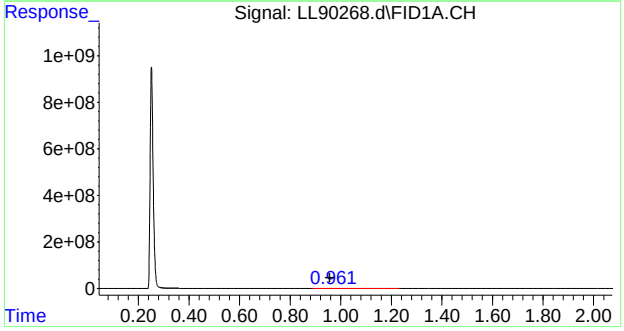
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



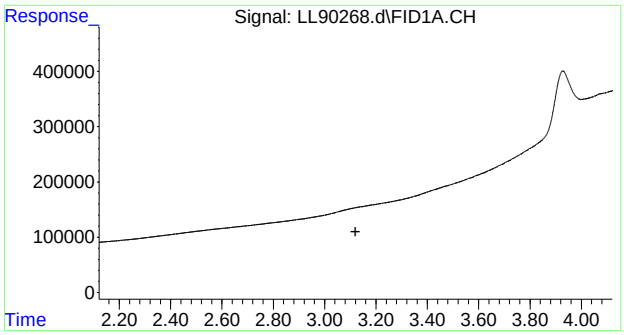
#3 Ethylene

R.T.: 0.749 min
Delta R.T.: 0.003 min
Response: 3892698
Conc: 3.28 ppmv



#4 Ethane

R.T.: 0.961 min
Delta R.T.: 0.005 min
Response: 7435272
Conc: 6.00 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-2	**Sample Volume:**	39.0 ml
Lab FileID:	LL90268.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 12:53	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	11461.7	38340	1240	ug/l
Ethane	74-84-0	30	6	27080	1.3	ug/l
Ethene	74-85-1	28	3.28	10440	0.98	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90306.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 13:55:45
Operator : jennr
Sample : fc16561-2, 2x
Misc : gc24883,gll3144,39,21,250,5,1
ALS Vial : 29 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:01:59 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.250	4012880042	5807.232	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.747	1882109	1.588	ppmv	m
4)	Ethane	0.959	4435458	3.578	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	d

(f)=RT Delta > 1/2 Window (m)=manual int.

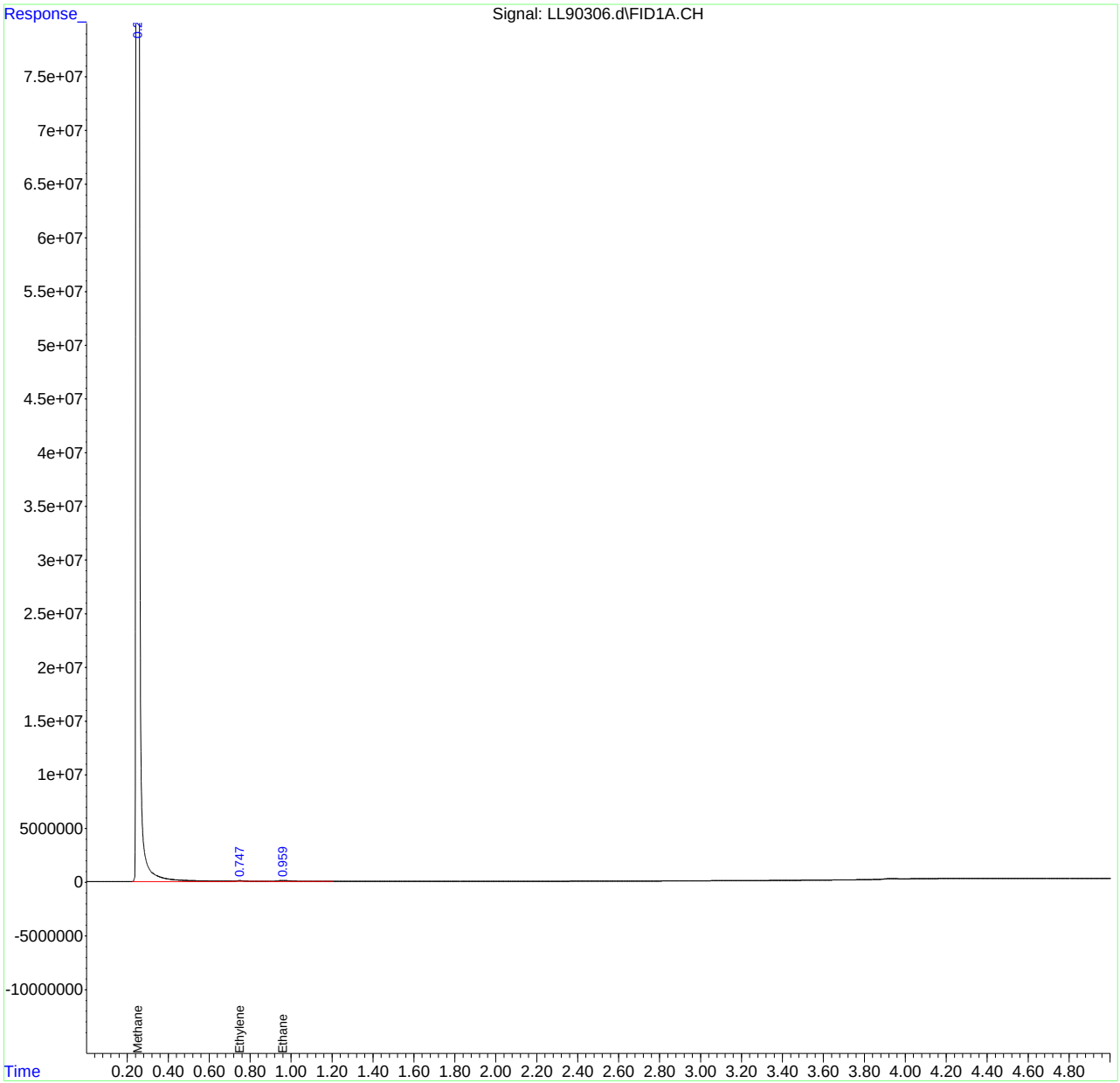
9.1.2

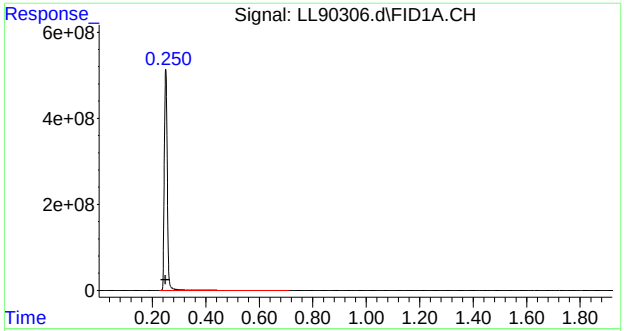
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90306.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 13:55:45
Operator : jennr
Sample : fc16561-2, 2x
Misc : gc24883,gll3144,39,21,250,5,1
ALS Vial : 29 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:01:59 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

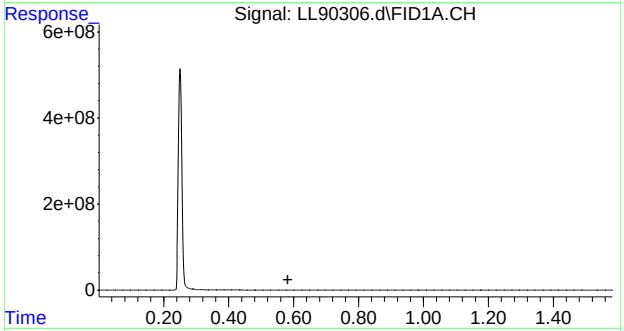
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





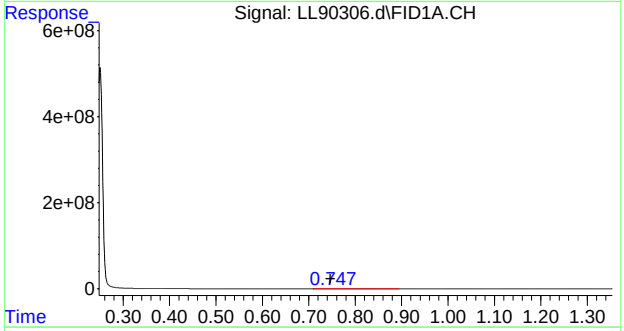
#1 Methane

R.T.: 0.250 min
Delta R.T.: 0.002 min
Response: 4012880042
Conc: 5807.23 ppmv



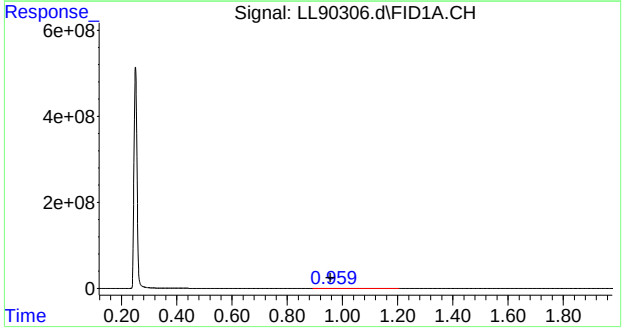
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



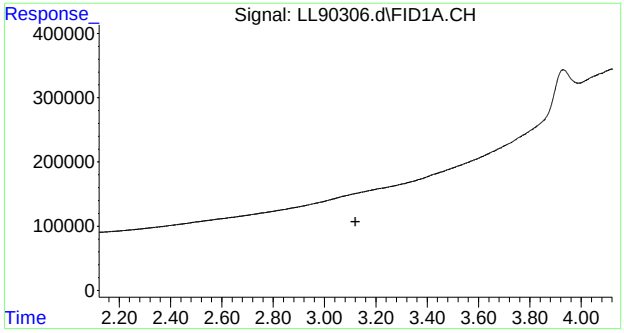
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.000 min
Response: 1882109
Conc: 1.59 ppmv m



#4 Ethane

R.T.: 0.959 min
Delta R.T.: 0.003 min
Response: 4435458
Conc: 3.58 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-2
Lab FileID: LL90306.D
Injection Time: 06/27/24 13:55
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:19 Jennifer Rich
Supervisor approved: 06/28/24 12:23 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethene	74-85-1	1	0.75	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-2	**Sample Volume:**	39.0 ml
Lab FileID:	LL90306.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 13:55	**Volume Injected:**	250 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	5807.23	38340	1260	ug/l
Ethane	74-84-0	30	3.58	27080	1.6	ug/l
Ethene	74-85-1	28	1.59	10440	0.95	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

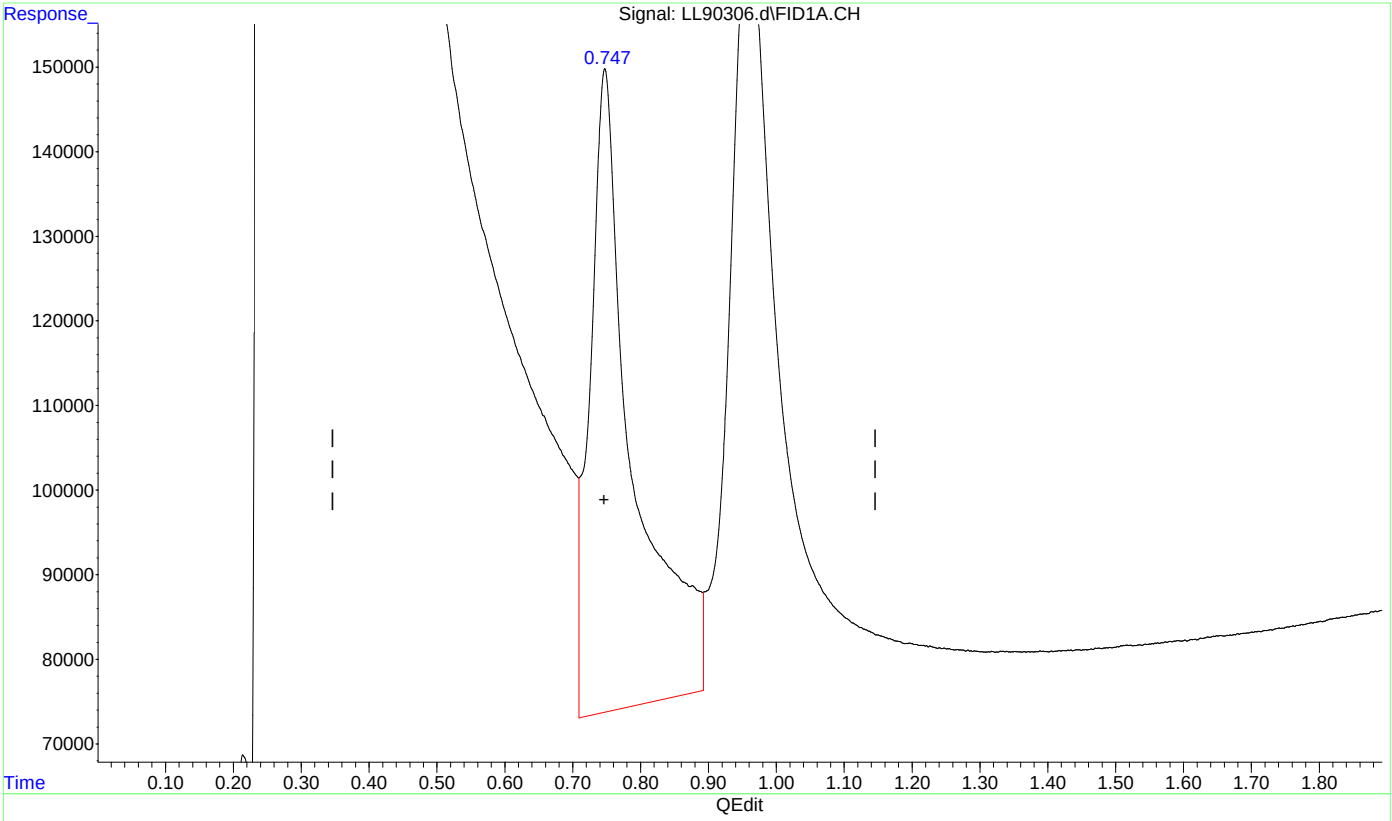
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90306.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 13:55:45
Operator : jennr
Sample : fc16561-2, 2x
Misc : gc24883,gll3144,38,21,250,5,1
ALS Vial : 29 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:01:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.747min 2.806 ppmv

response 3326033

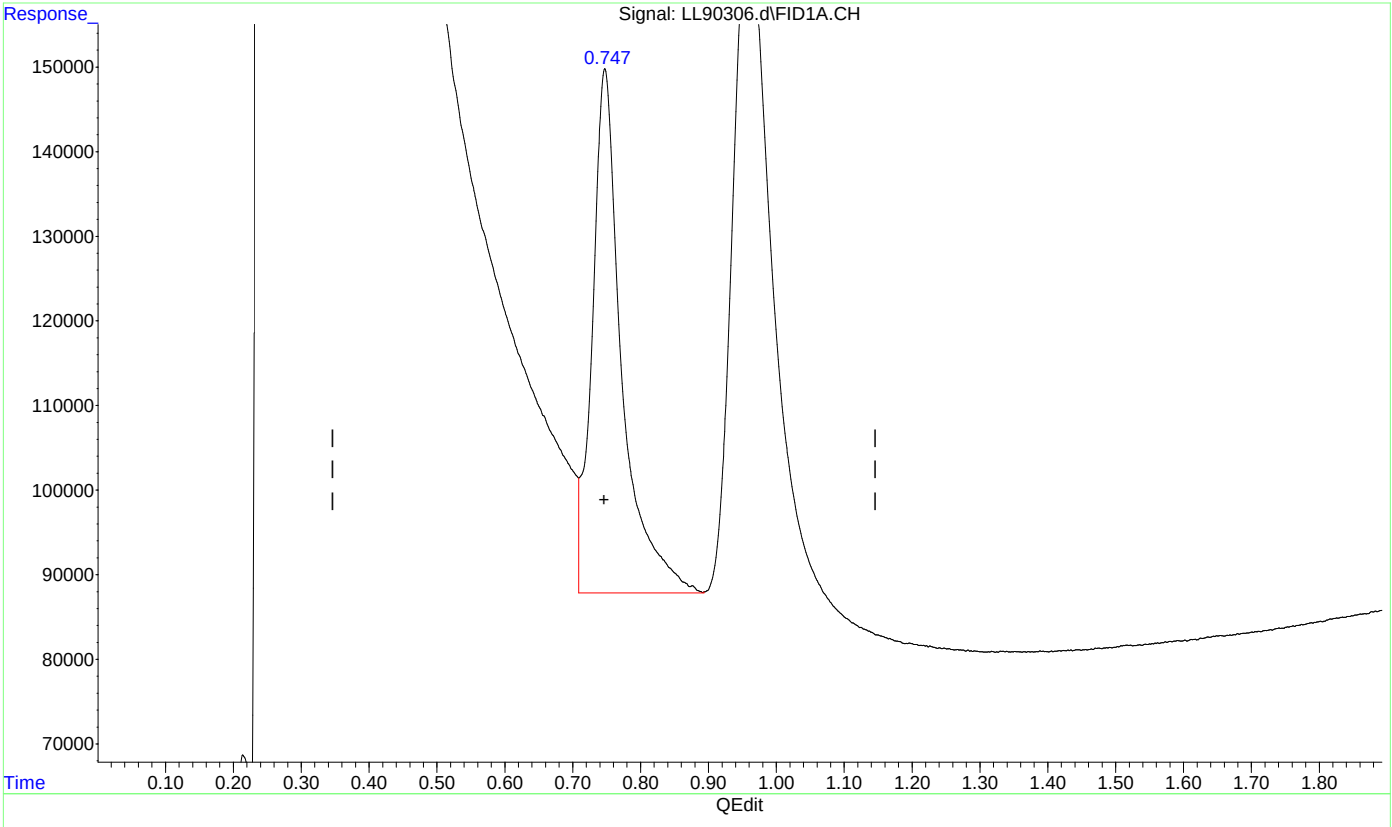
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 14:01:45 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90306.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 13:55:45
Operator : jennr
Sample : fc16561-2, 2x
Misc : gc24883,gll3144,38,21,250,5,1
ALS Vial : 29 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:01:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.747min 1.588 ppmv m

response 1882109

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 14:01:53 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90269.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:01:18
Operator : jennr
Sample : fc16561-3
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:06:47 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.253	138928377	201.050	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.961	1851555	1.493	ppmv
5)	Propane	0.000	0	N.D.	ppmv d

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.3

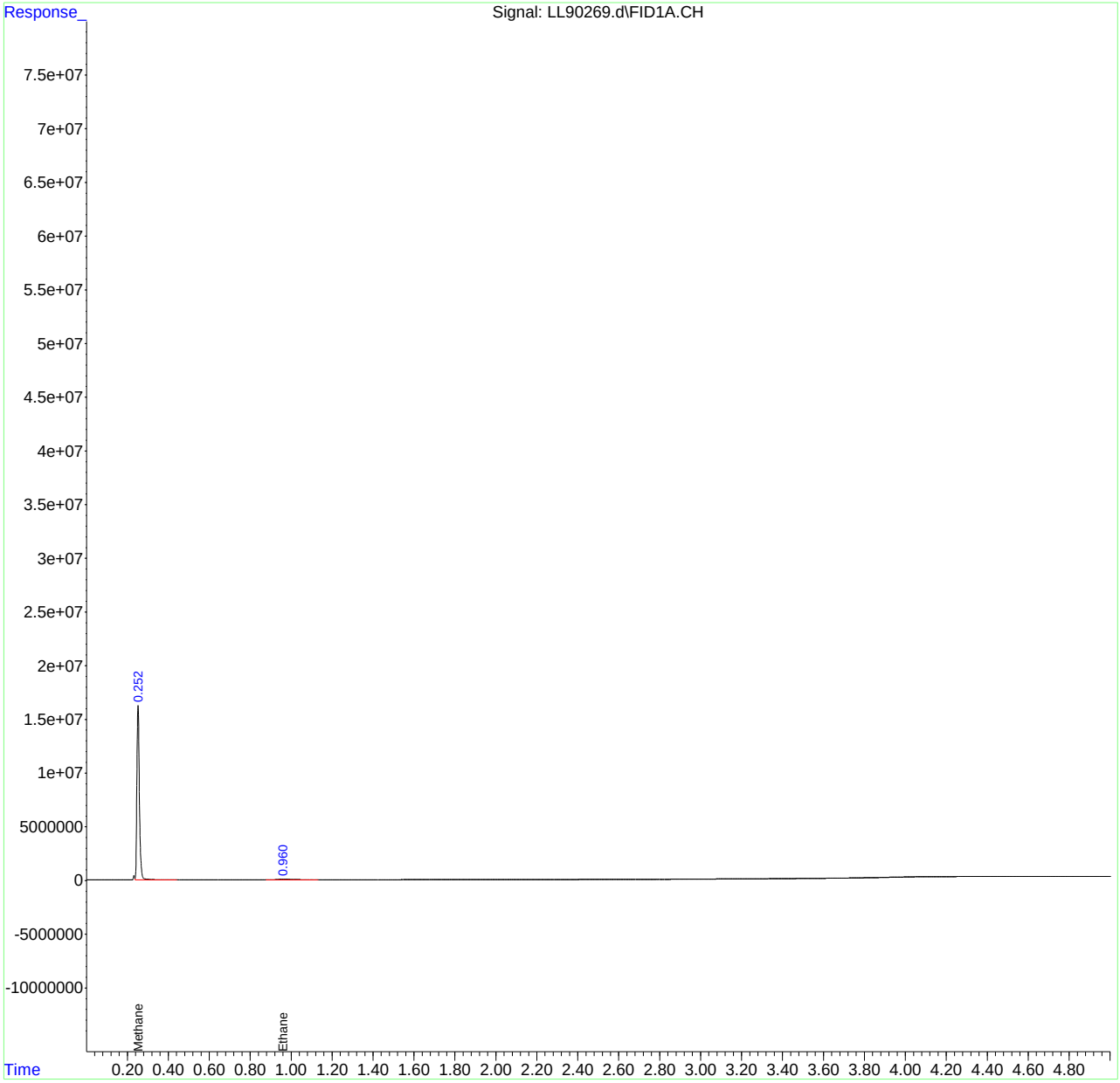
9

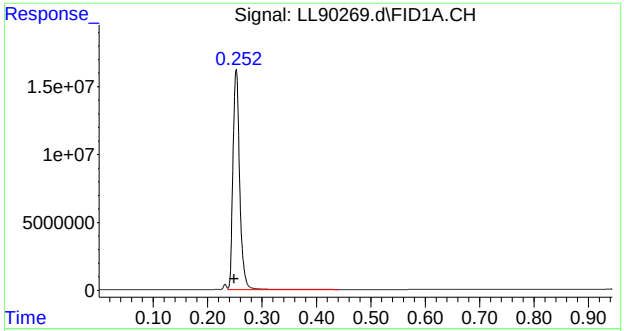
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90269.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:01:18
Operator : jennr
Sample : fc16561-3
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 20 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:06:47 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

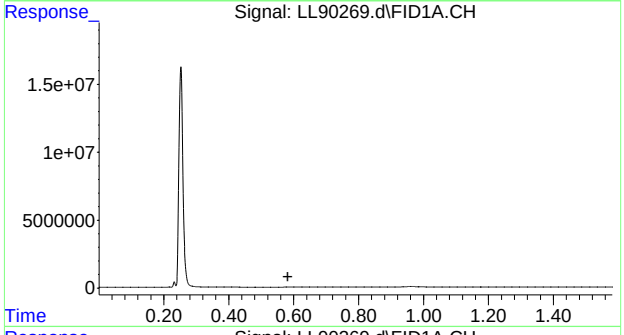
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





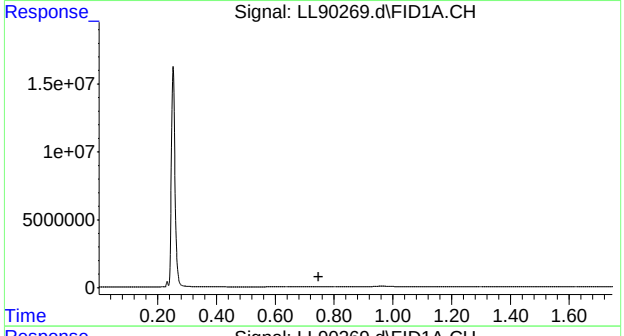
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 138928377
Conc: 201.05 ppmv



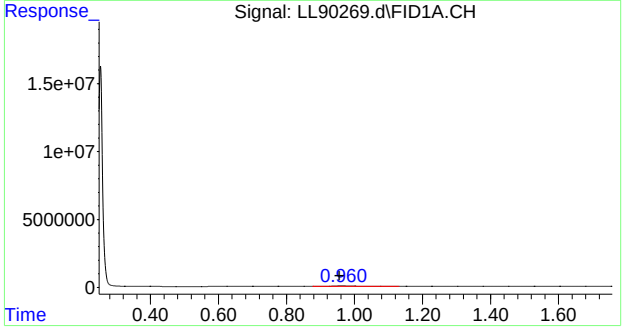
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.

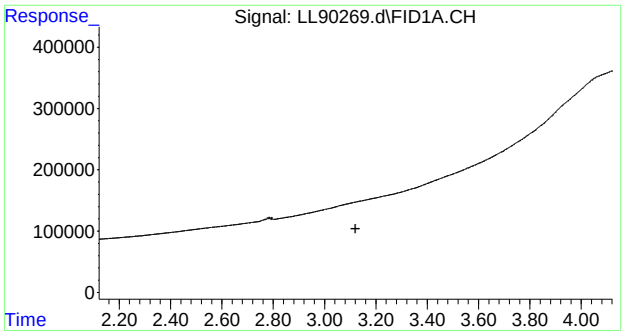


#4 Ethane

R.T.: 0.961 min
Delta R.T.: 0.005 min
Response: 1851555
Conc: 1.49 ppmv

9.1.3

9



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-3	**Sample Volume:**	38.5 ml
Lab FileID:	LL90269.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 13:01	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	201.05	38340	22.0	ug/l
Ethane	74-84-0	30	1.49	27080	0.33	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90270.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:08:25
Operator : jennr
Sample : fc16561-4
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:14:42 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.247	1126188	1.630	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.4

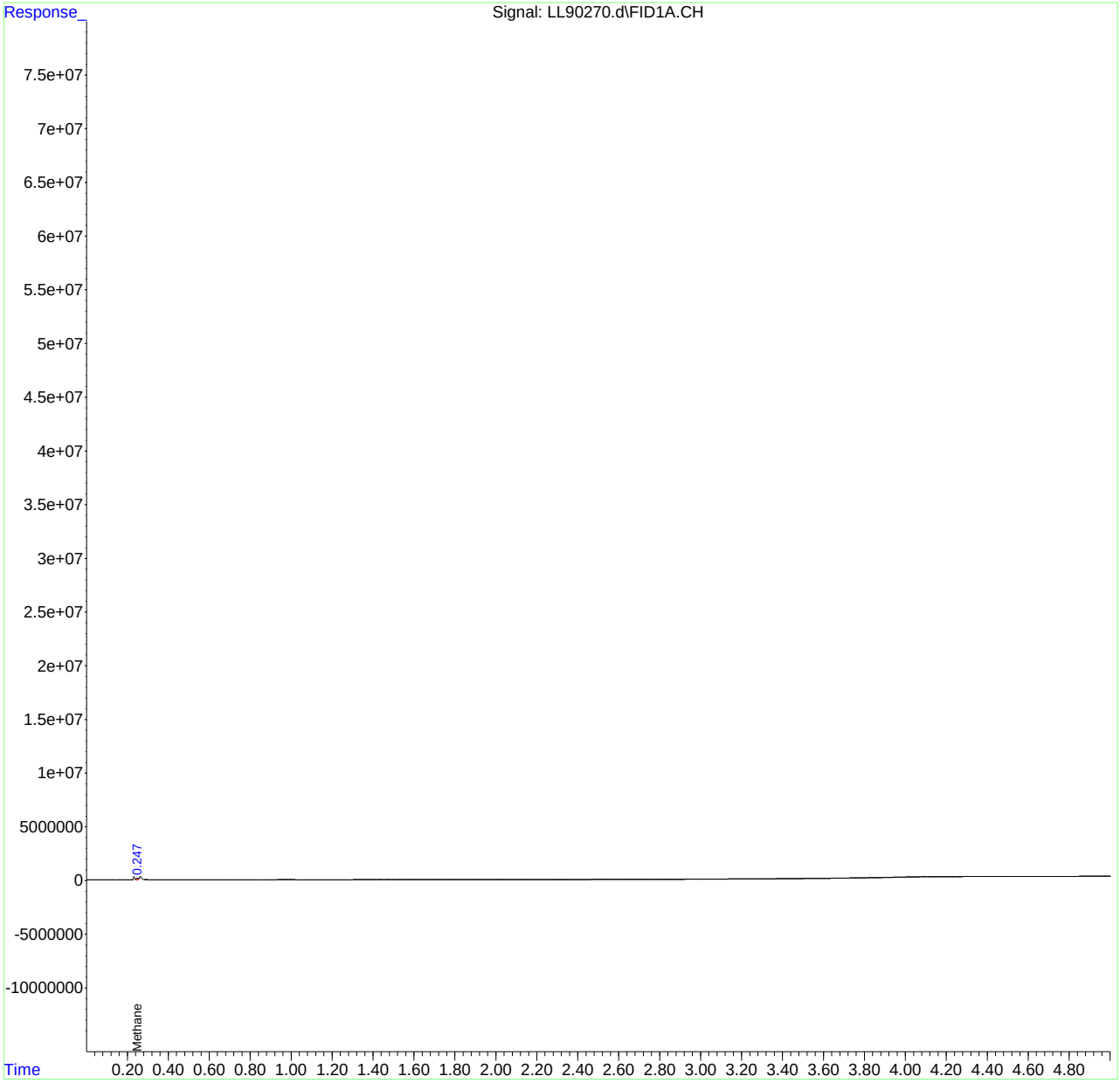
9

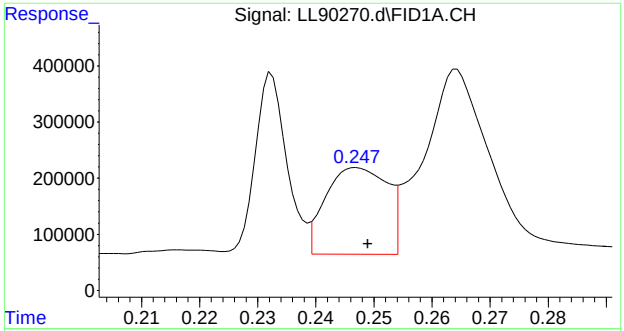
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90270.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:08:25
Operator : jennr
Sample : fc16561-4
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:14:42 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

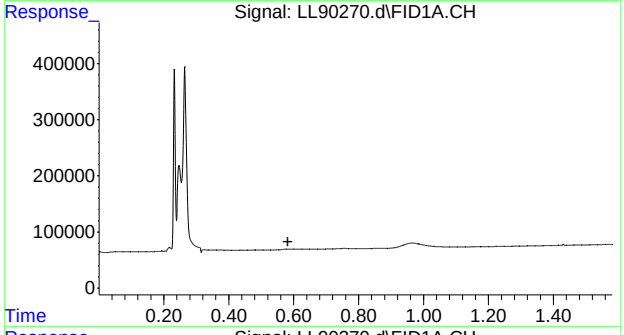
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





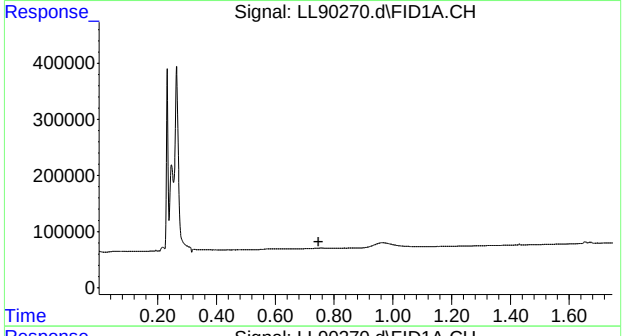
#1 Methane

R.T.: 0.247 min
Delta R.T.: -0.002 min
Response: 1126188
Conc: 1.63 ppmv



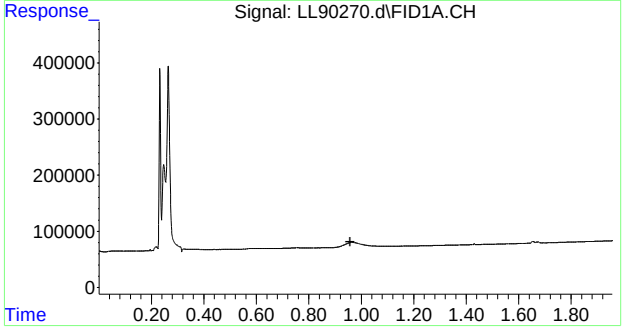
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



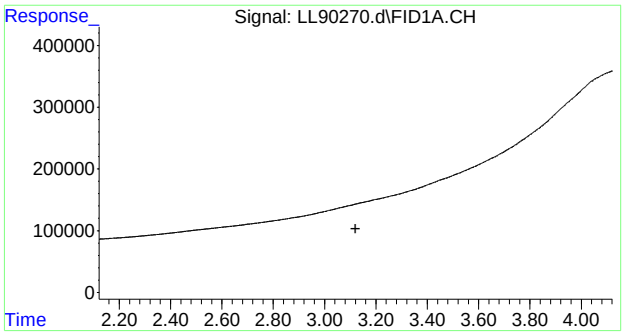
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-4	**Sample Volume:**	38.5 ml
Lab FileID:	LL90270.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 13:08	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.63	38340	0.18	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90285.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:26:43
Operator : jennr
Sample : fc16561-5
Misc : gc24887,gll3144,39,21,500,4.9,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:32:59 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.249	970006	1.404	ppmv	m
2)	Acetylene	0.000	0	N.D.	ppmv	
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.000	0	N.D.	ppmv	d
5)	Propane	0.000	0	N.D.	ppmv	

(f)=RT Delta > 1/2 Window (m)=manual int.

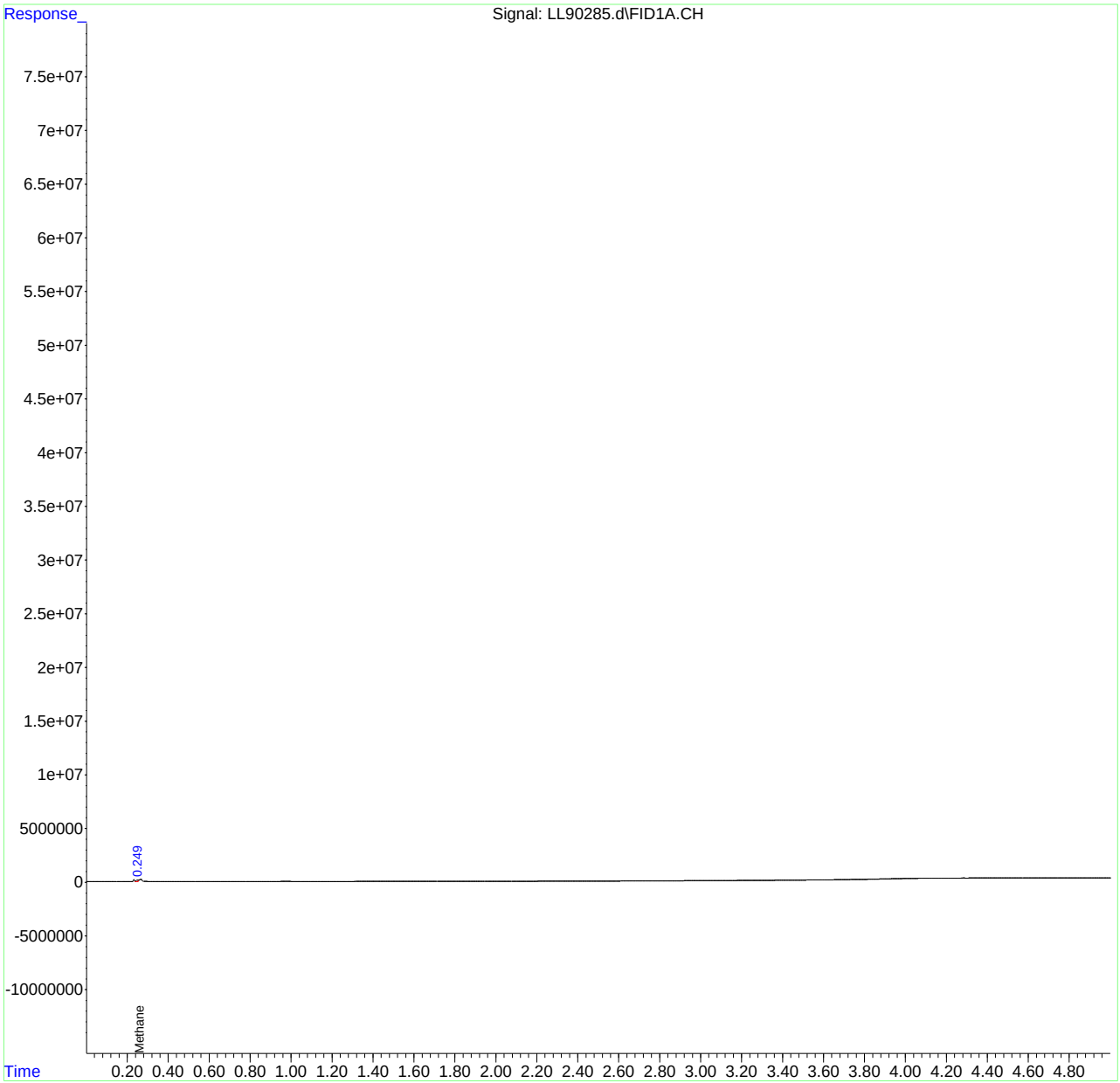
9.15
9

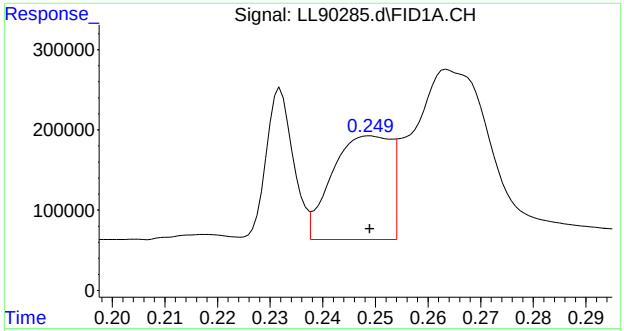
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90285.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:26:43
Operator : jennr
Sample : fc16561-5
Misc : gc24887,gll3144,39,21,500,4.9,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:32:59 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

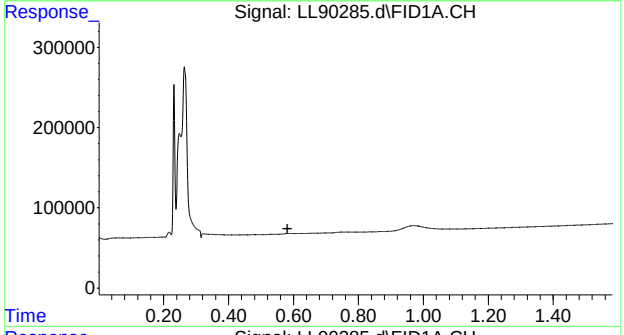
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





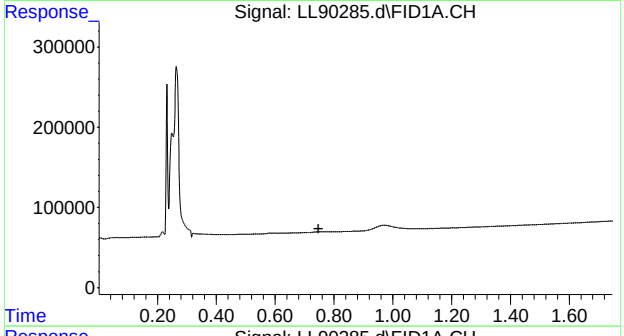
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.000 min
Response: 970006
Conc: 1.40 ppmv m



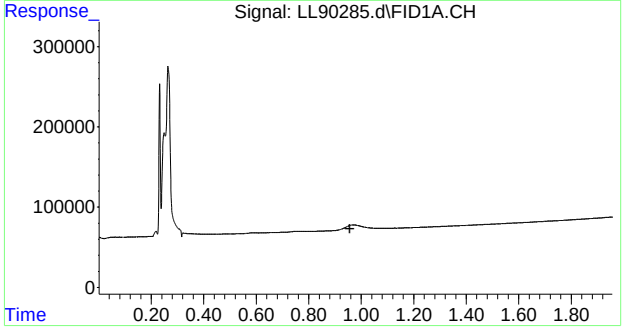
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



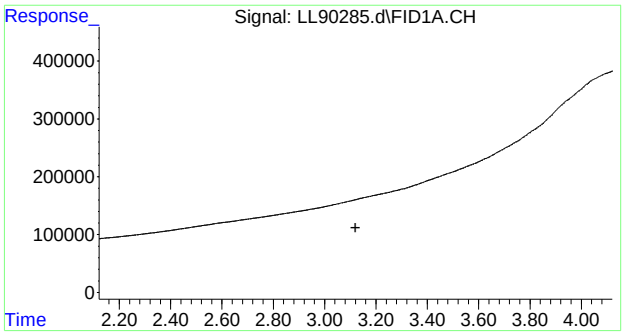
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-5
Lab FileID: LL90285.D
Injection Time: 06/27/24 10:26
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-5	**Sample Volume:**	39.0 ml
Lab FileID:	LL90285.D	**Headspace:**	4.9 ml
Injection Time:	06/27/24 10:26	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.4	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

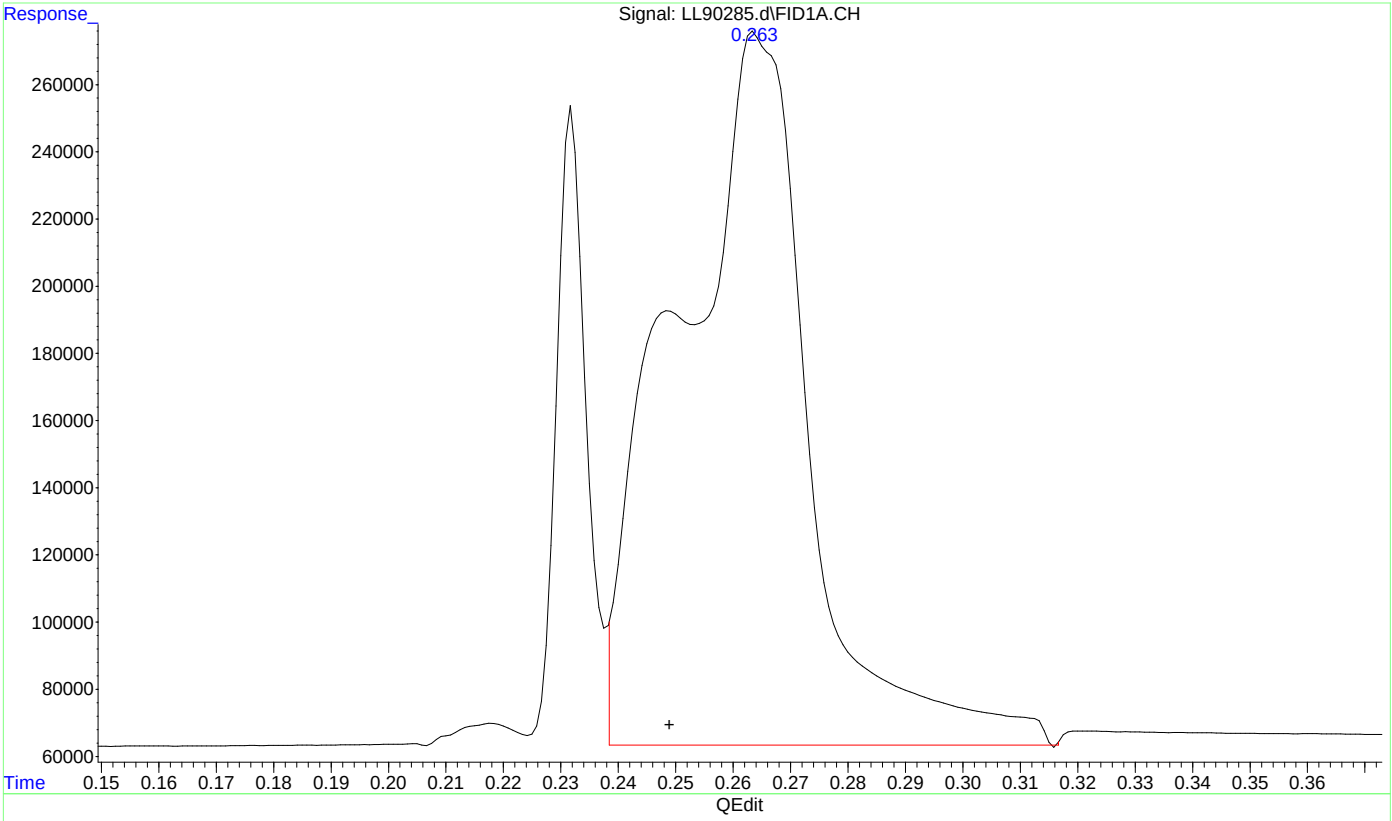
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90285.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:26:43
Operator : jennr
Sample : fc16561-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:32:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.265min 4.966 ppmv

response 3431914

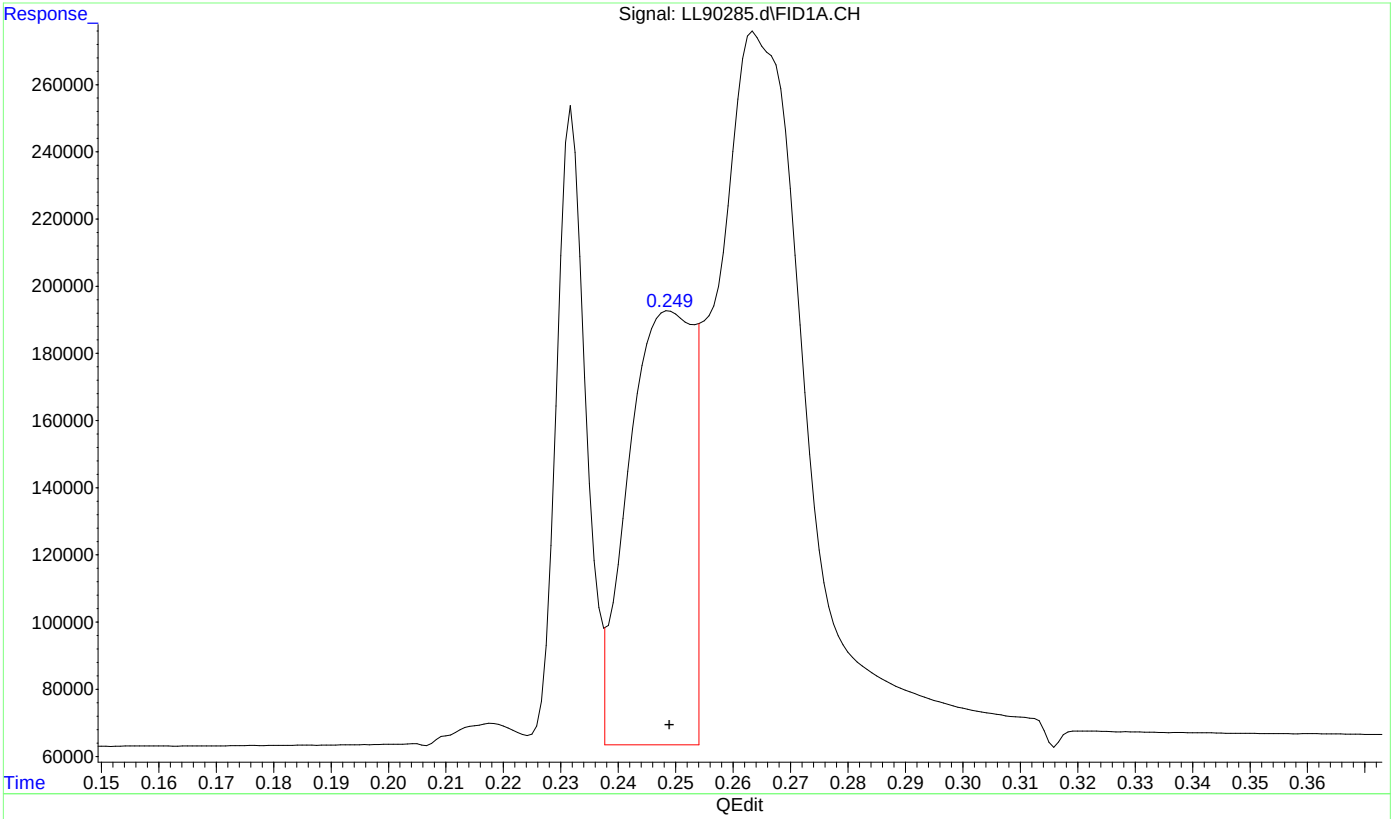
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:32:37 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90285.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:26:43
Operator : jennr
Sample : fc16561-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:32:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.249min 1.404 ppmv m

response 970006

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:32:55 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90271.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:25:15
Operator : jennr
Sample : fc16561-6
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:48:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.247	22266736704	32223.268	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	
3)	Ethylene	0.722	3018092	2.546	ppmv	m
4)	Ethane	0.956	11607309	9.362	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	d

(f)=RT Delta > 1/2 Window (m)=manual int.

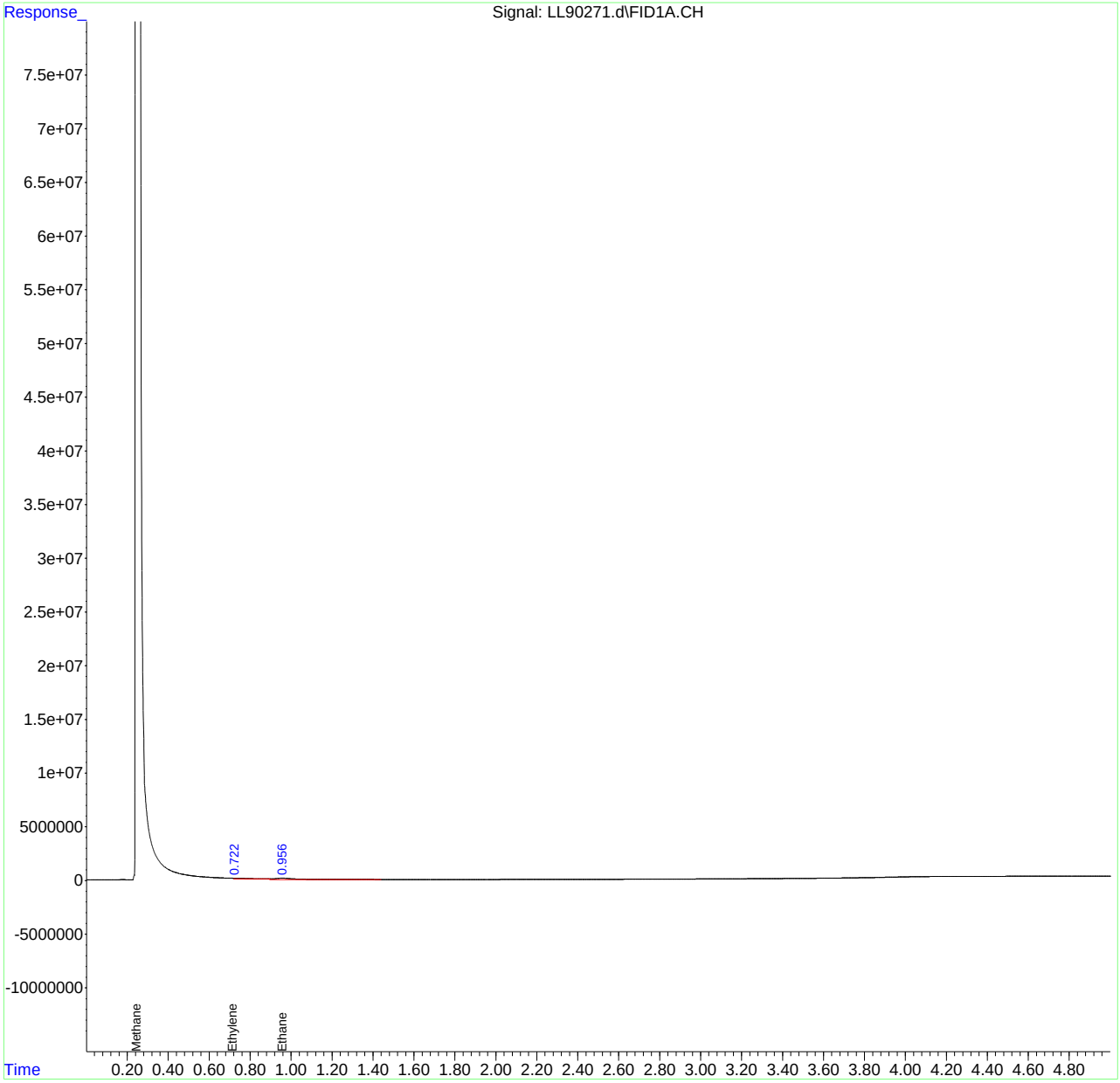
9.1.6

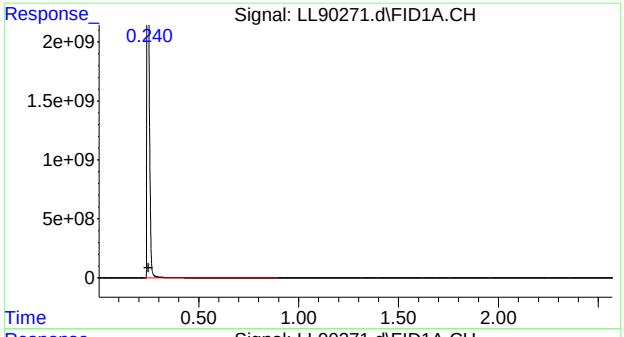
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90271.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:25:15
Operator : jennr
Sample : fc16561-6
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:48:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

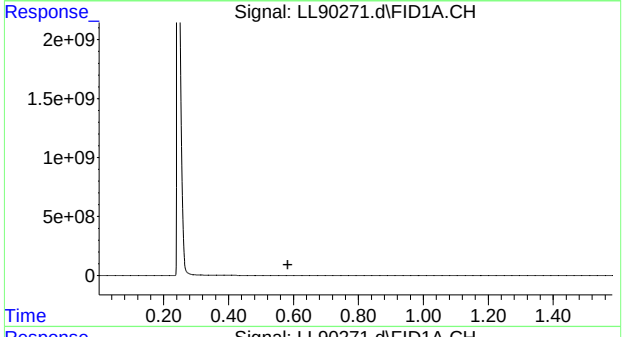
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





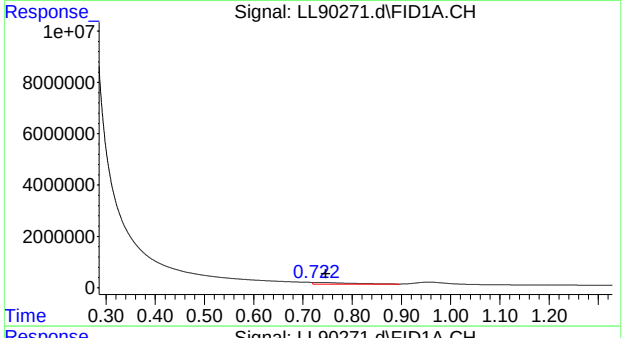
#1 Methane

R.T.: 0.247 min
Delta R.T.: -0.002 min
Response: 22266736704
Conc: 32223.27 ppmv



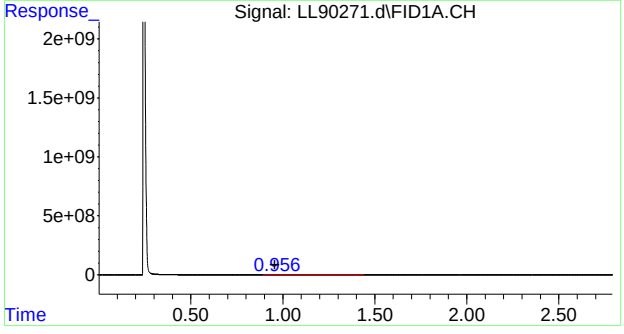
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



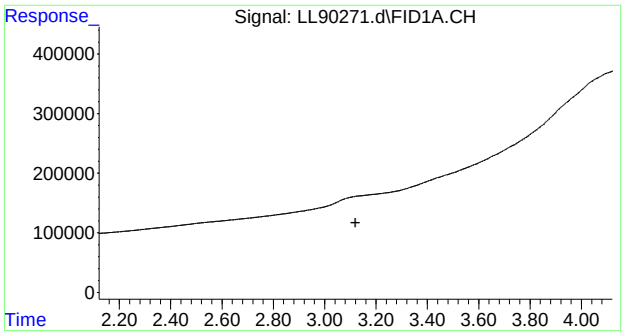
#3 Ethylene

R.T.: 0.722 min
Delta R.T.: -0.024 min
Response: 3018092
Conc: 2.55 ppmv m



#4 Ethane

R.T.: 0.956 min
Delta R.T.: 0.000 min
Response: 11607309
Conc: 9.36 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-6
Lab FileID: LL90271.D
Injection Time: 06/26/24 13:25
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:20 Jennifer Rich
Supervisor approved: 06/28/24 12:23 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethene	74-85-1	1	0.72	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-6	**Sample Volume:**	38.0 ml
Lab FileID:	LL90271.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 13:25	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	32223.27	38340	3560	ug/l
Ethane	74-84-0	30	9.36	27080	2.1	ug/l
Ethene	74-85-1	28	2.55	10440	0.77	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

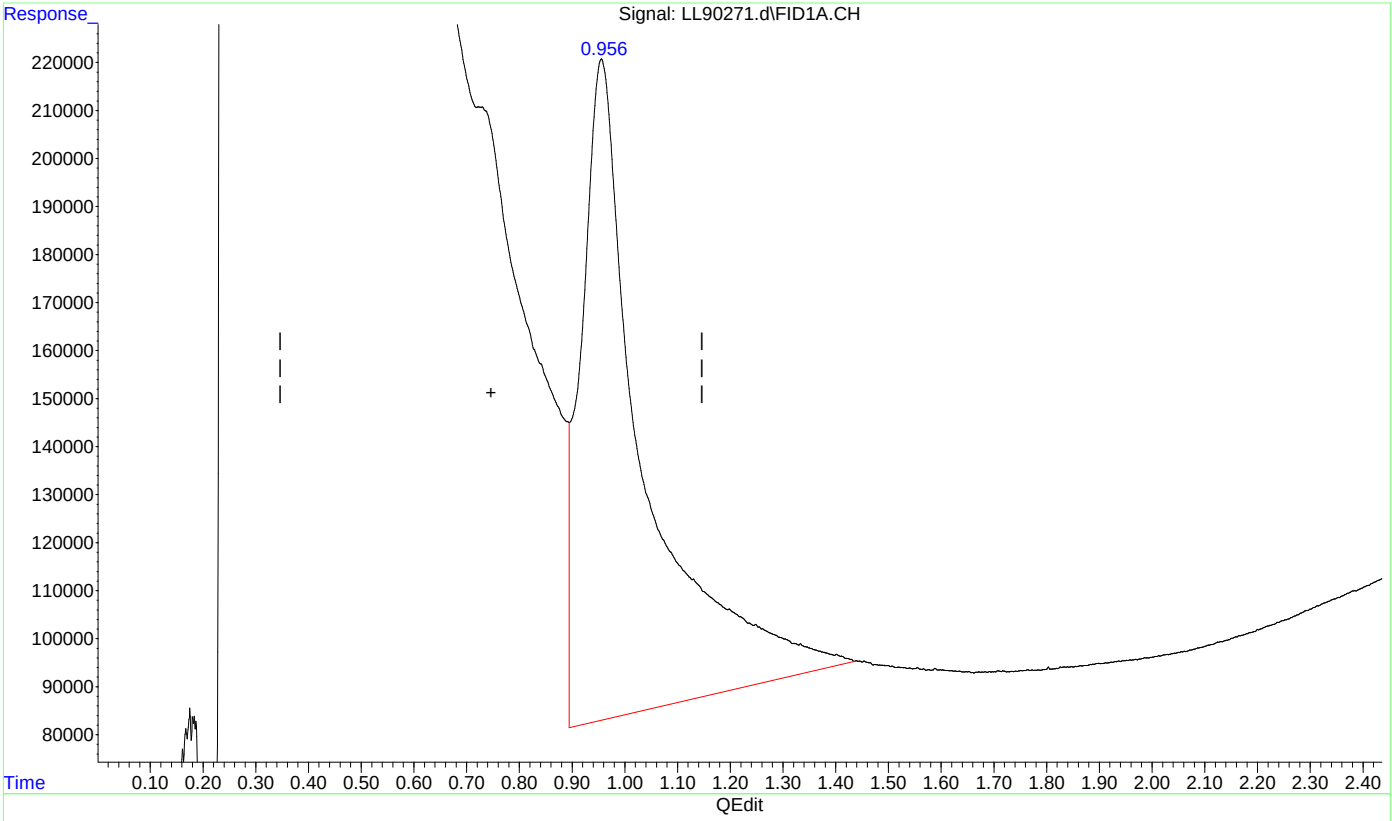
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90271.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:25:15
Operator : jennr
Sample : fc16561-6
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:46:21 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.956min 9.793 ppmv

response 11607309

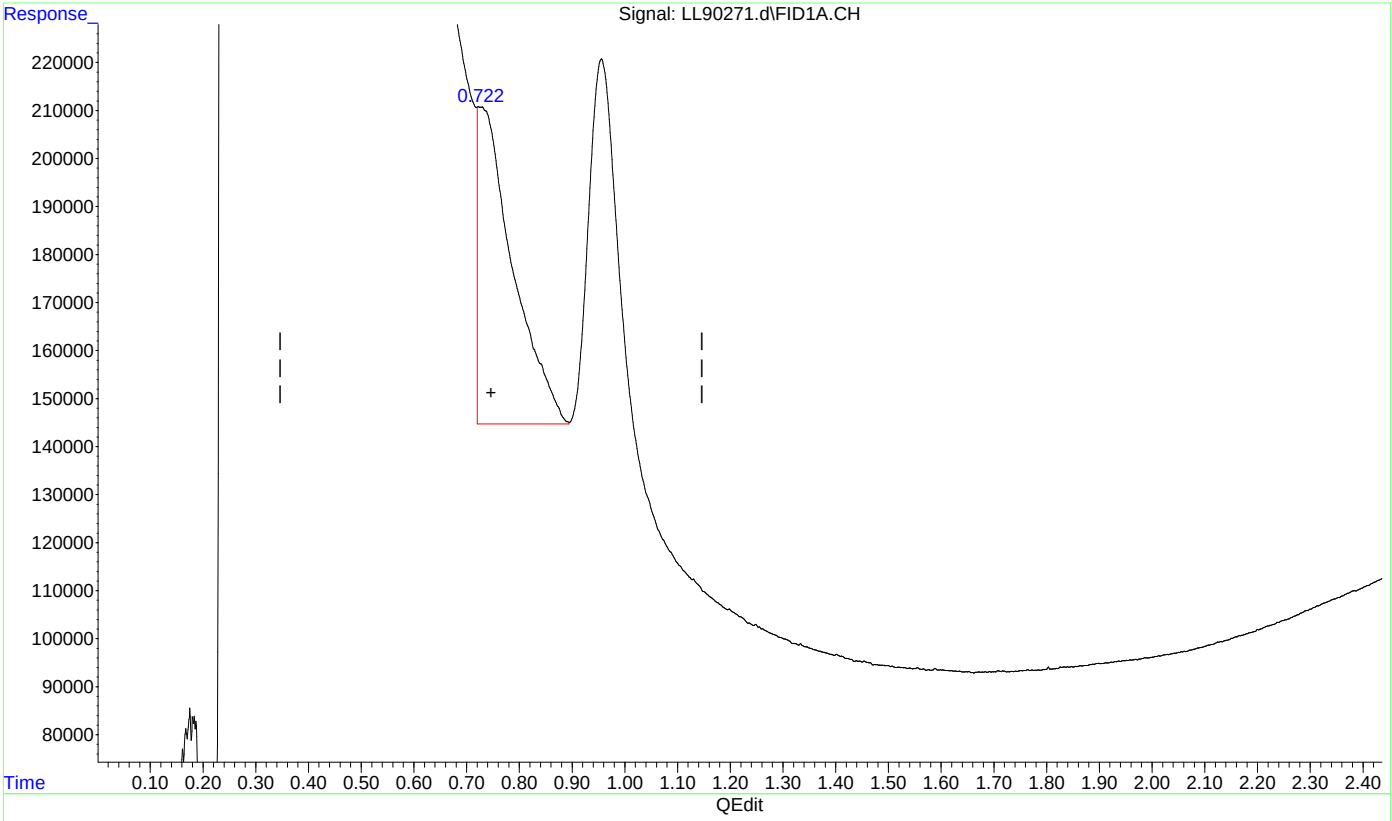
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 13:46:46 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90271.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:25:15
Operator : jennr
Sample : fc16561-6
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:46:21 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.722min 2.546 ppmv m

response 3018092

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 13:47:48 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90307.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:04:13
Operator : jennr
Sample : fc16561-6, 10x
Misc : gc24883,gll3144,38.5,21,500,5,10
ALS Vial : 30 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:09:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.252	2792660759	4041.394	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.000	0	N.D.	ppmv	d
5)	Propane	0.000	0	N.D.	ppmv	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.7

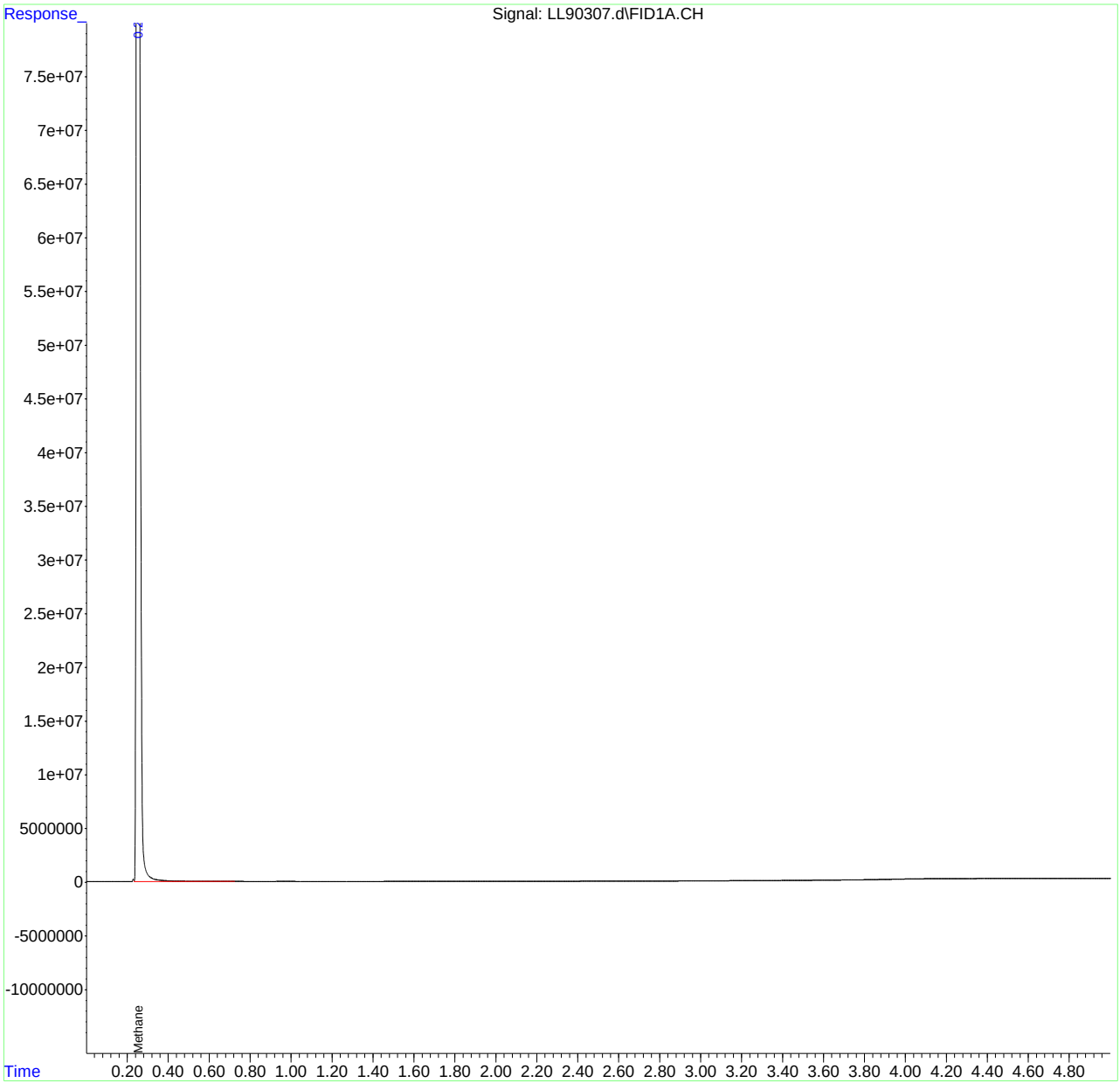
9

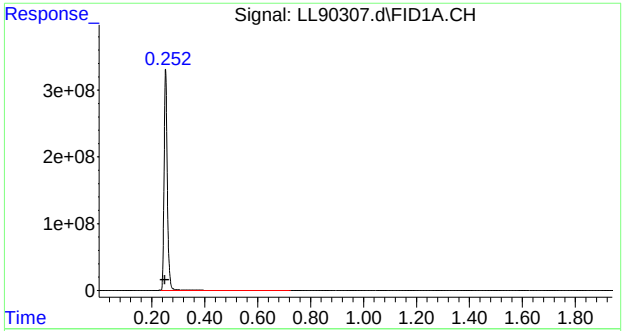
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90307.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:04:13
Operator : jennr
Sample : fc16561-6, 10x
Misc : gc24883,gll3144,38.5,21,500,5,10
ALS Vial : 30 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:09:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

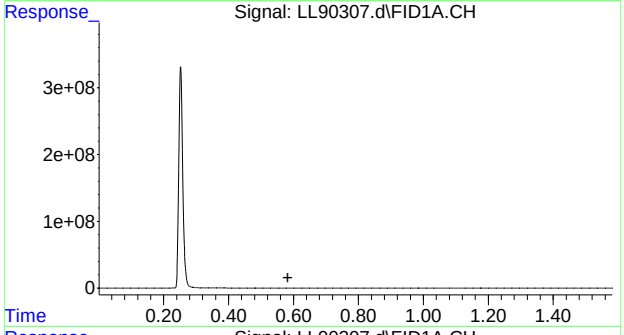
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





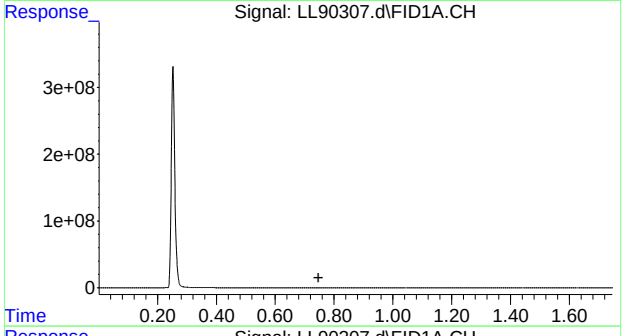
#1 Methane

R.T.: 0.252 min
Delta R.T.: 0.004 min
Response: 2792660759
Conc: 4041.39 ppmv



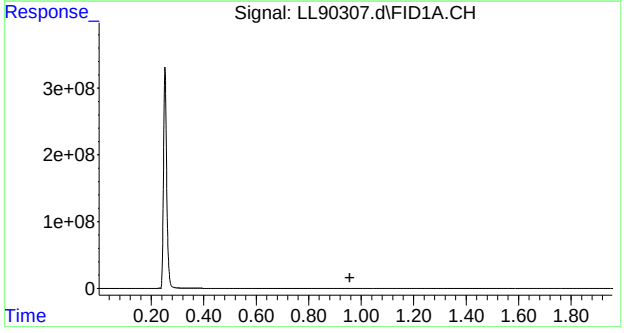
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



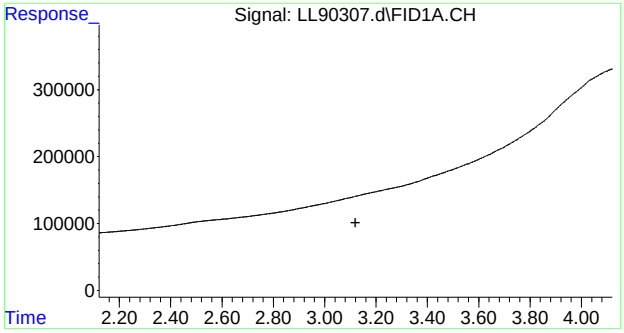
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.: 0.000 min
Exp R.T. : 3.120 min
Response: 0
Conc: N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-6	**Sample Volume:**	38.5 ml
Lab FileID:	LL90307.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 14:04	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	4041.39	38340	4420	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90272.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:38:10
Operator : jennr
Sample : fc16561-7
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 23 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:49:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.249	13762762601	19916.757	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv d
3)	Ethylene	0.746	40394156	34.079	ppmv
4)	Ethane	0.958	26895179	21.694	ppmv
5)	Propane	0.000	0	N.D.	ppmv d

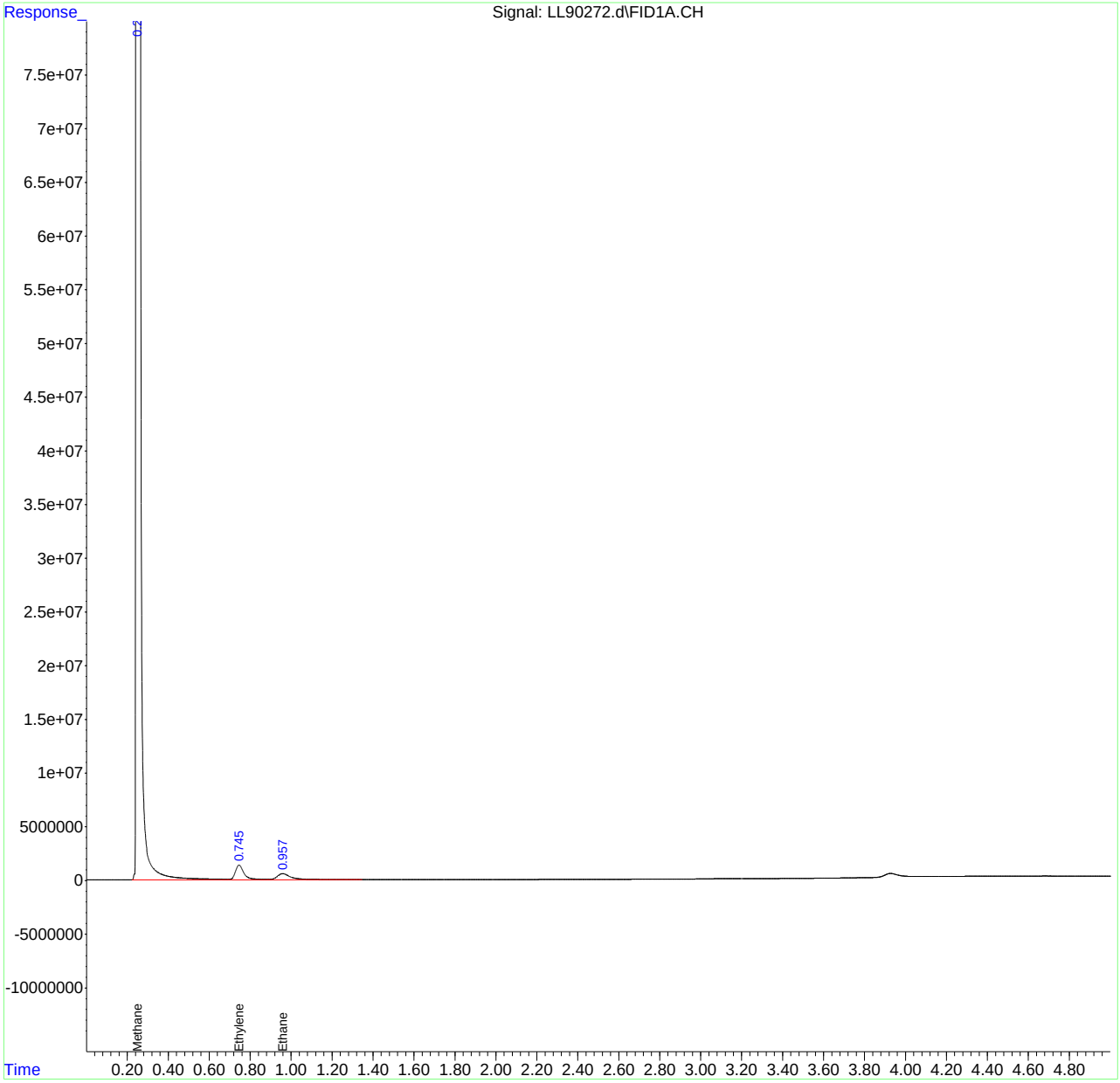
(f)=RT Delta > 1/2 Window (m)=manual int.

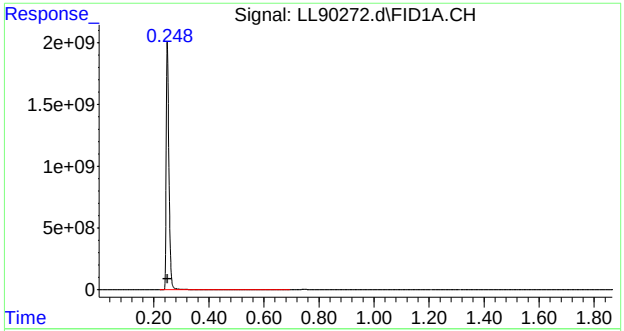
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90272.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:38:10
Operator : jennr
Sample : fc16561-7
Misc : gc24883,gll3143,38.5,21,500,5,1
ALS Vial : 23 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:49:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

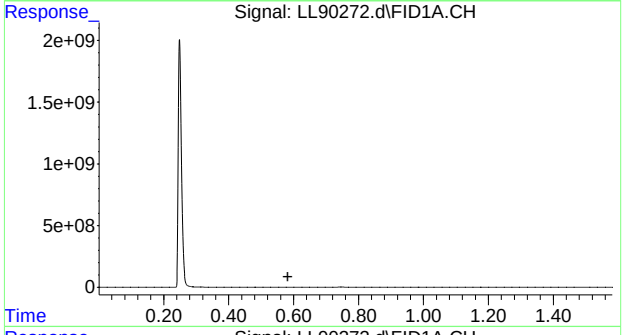
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





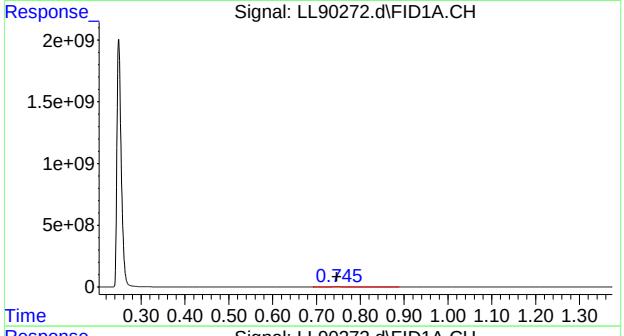
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.000 min
Response: 13762762601
Conc: 19916.76 ppmv



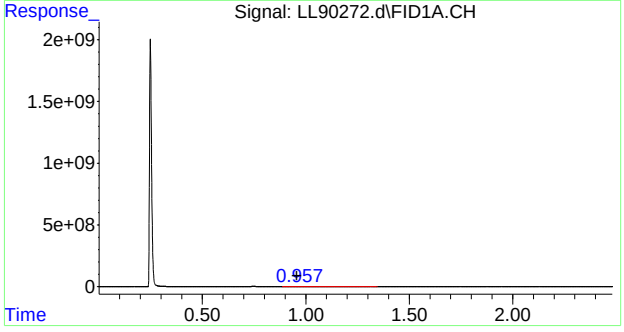
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



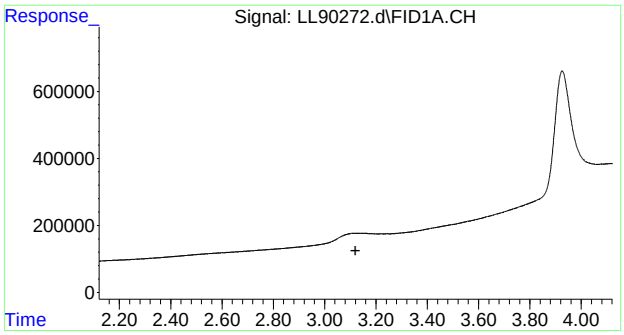
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 40394156
Conc: 34.08 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.001 min
Response: 26895179
Conc: 21.69 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-7	**Sample Volume:**	38.5 ml
Lab FileID:	LL90272.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 13:38	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	19916.76	38340	2180	ug/l
Ethane	74-84-0	30	21.69	27080	4.8	ug/l
Ethene	74-85-1	28	34.08	10440	10.2	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90308.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:11:35
Operator : jennr
Sample : fc16561-7, 10x
Misc : gc24883,gll3144,38,21,500,5,10
ALS Vial : 31 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:17:39 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.252	1349725301	1953.253	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.750	3167920	2.673	ppmv	
4)	Ethane	0.962	2335309	1.884	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	

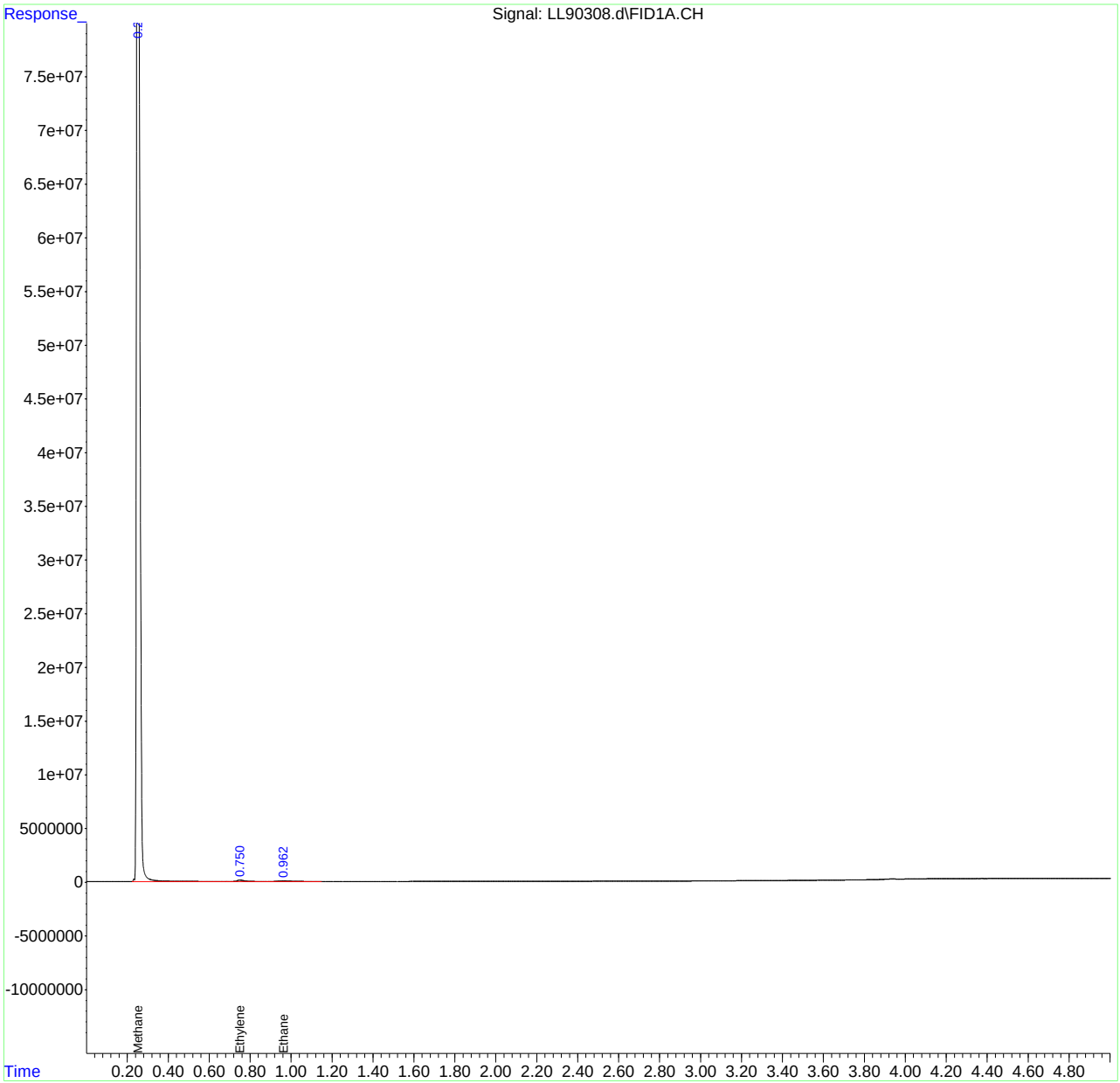
(f)=RT Delta > 1/2 Window (m)=manual int.

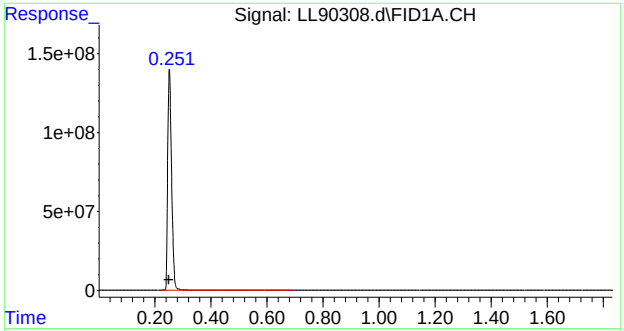
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90308.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:11:35
Operator : jennr
Sample : fc16561-7, 10x
Misc : gc24883,gll3144,38,21,500,5,10
ALS Vial : 31 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:17:39 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

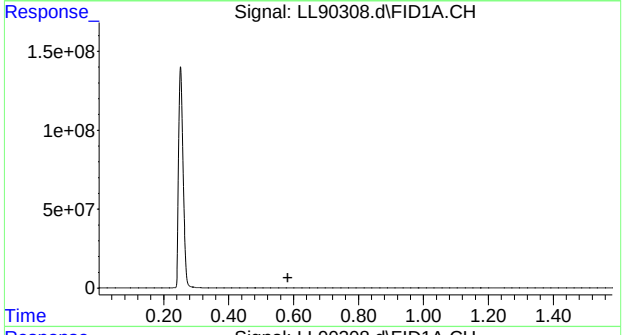
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





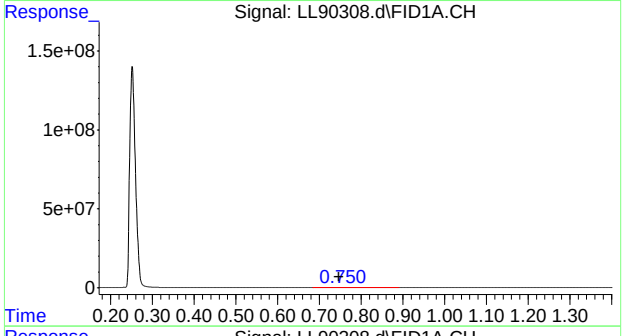
#1 Methane

R.T.: 0.252 min
Delta R.T.: 0.003 min
Response: 1349725301
Conc: 1953.25 ppmv



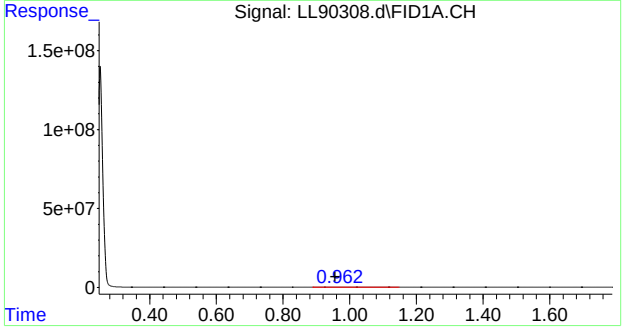
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



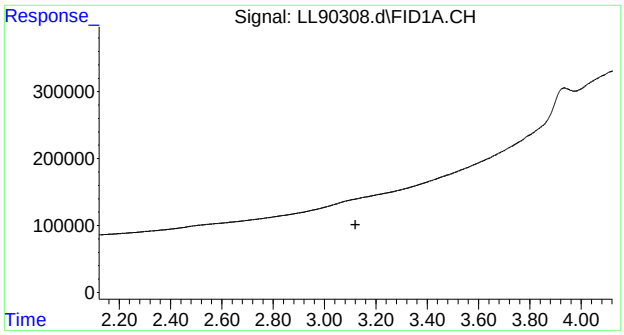
#3 Ethylene

R.T.: 0.750 min
Delta R.T.: 0.004 min
Response: 3167920
Conc: 2.67 ppmv



#4 Ethane

R.T.: 0.962 min
Delta R.T.: 0.005 min
Response: 2335309
Conc: 1.88 ppmv



#5 Propane

R.T.: 0.000 min
Exp R.T. : 3.120 min
Response: 0
Conc: N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-7	**Sample Volume:**	38.0 ml
Lab FileID:	LL90308.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 14:11	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1953.25	38340	2160	ug/l
Ethane	74-84-0	30	1.88	27080	4.2	ug/l
Ethene	74-85-1	28	2.67	10440	8.1	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90275.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:05:43
Operator : jennr
Sample : fc16561-8
Misc : gc24883,gll3143,38,21,500,5.2,1
ALS Vial : 26 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:14:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.248	22164953581	32075.972	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.734	2741205	2.313	ppmv	m
4)	Ethane	0.955	10761282	8.680	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	

(f)=RT Delta > 1/2 Window (m)=manual int.

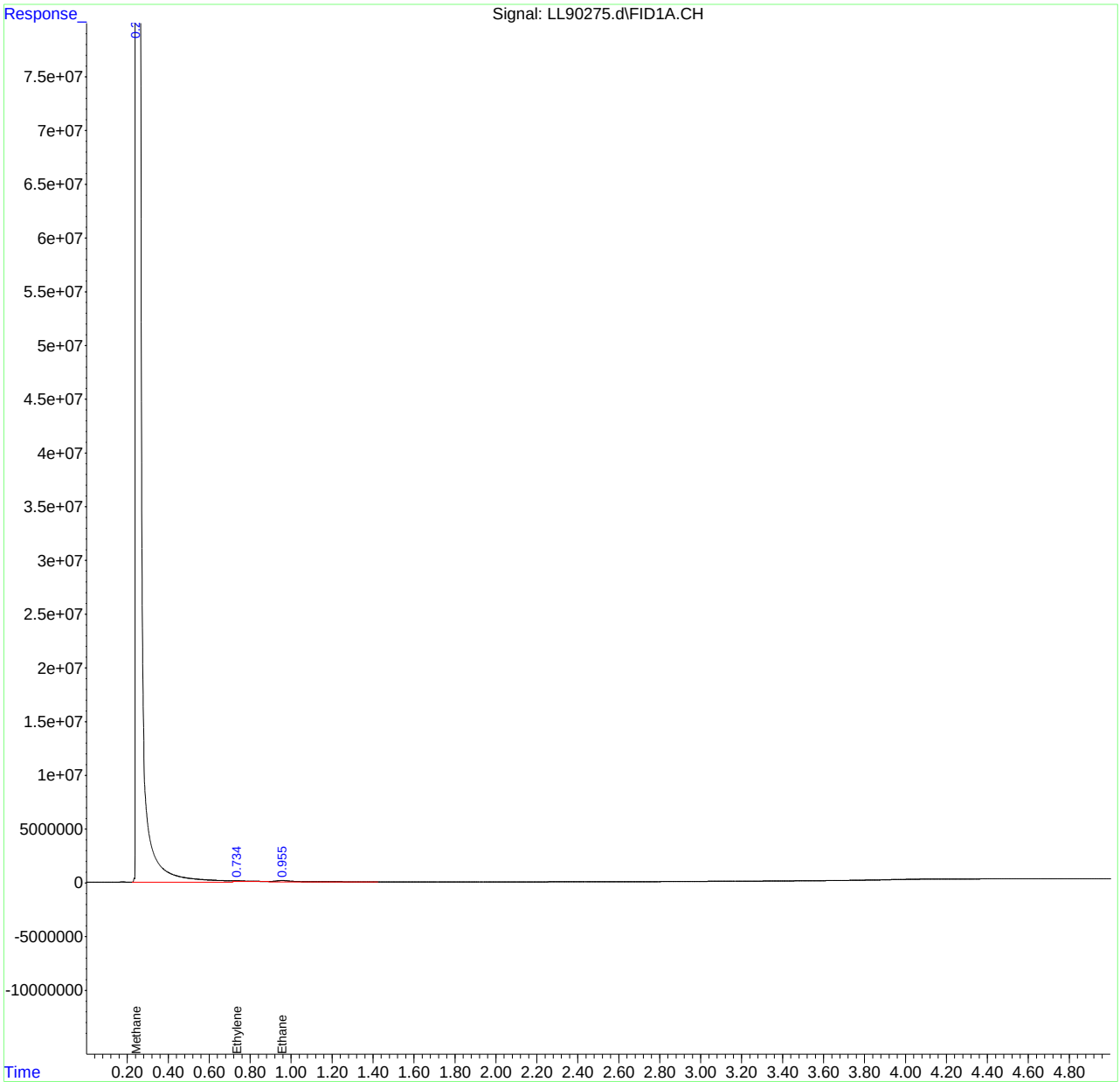
9.1.10
9

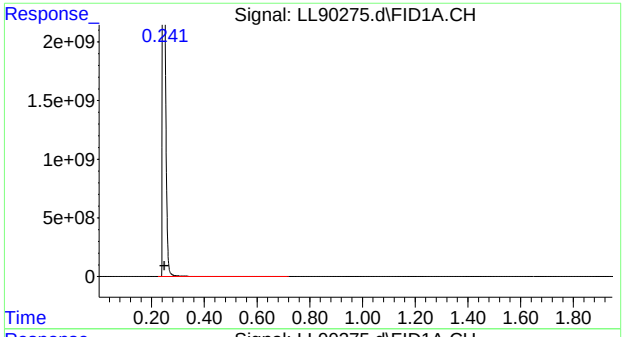
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90275.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:05:43
Operator : jennr
Sample : fc16561-8
Misc : gc24883,gll3143,38,21,500,5.2,1
ALS Vial : 26 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:14:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

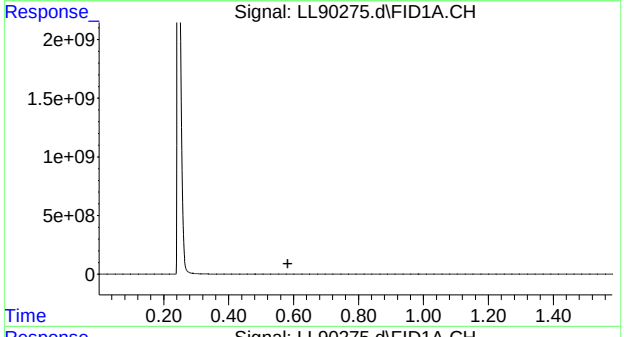
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





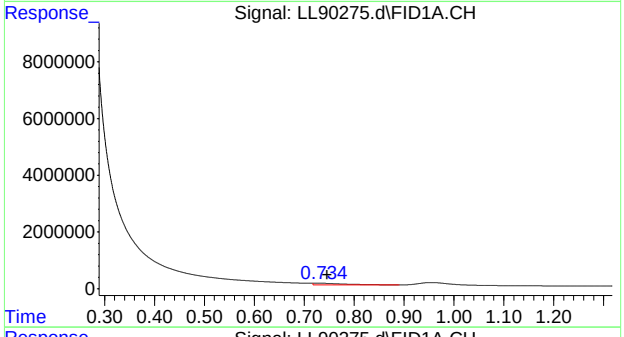
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.000 min
Response: 22164953581
Conc: 32075.97 ppmv



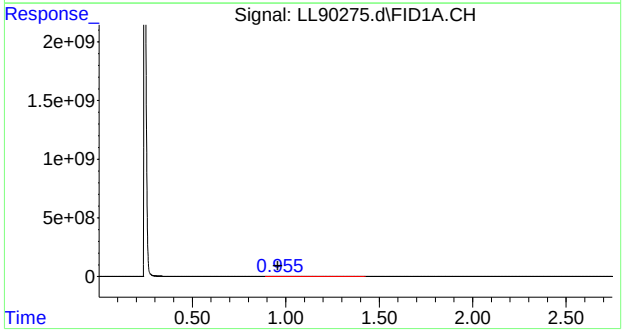
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



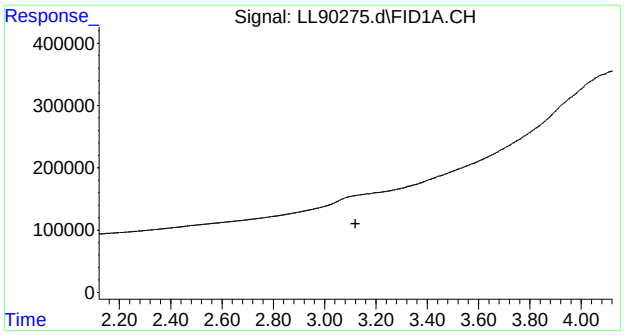
#3 Ethylene

R.T.: 0.734 min
Delta R.T.: -0.012 min
Response: 2741205
Conc: 2.31 ppmv m



#4 Ethane

R.T.: 0.955 min
Delta R.T.: -0.001 min
Response: 10761282
Conc: 8.68 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-8
Lab FileID: LL90275.D
Injection Time: 06/26/24 14:05
Method: RSKSOP-147/175
Analyst approved: 07/02/24 07:58 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethene	74-85-1	1	0.73	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-8	**Sample Volume:**	38.0 ml
Lab FileID:	LL90275.D	**Headspace:**	5.2 ml
Injection Time:	06/26/24 14:05	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	32075.97	38340	3650	ug/l
Ethane	74-84-0	30	8.68	27080	2.0	ug/l
Ethene	74-85-1	28	2.31	10440	0.71	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

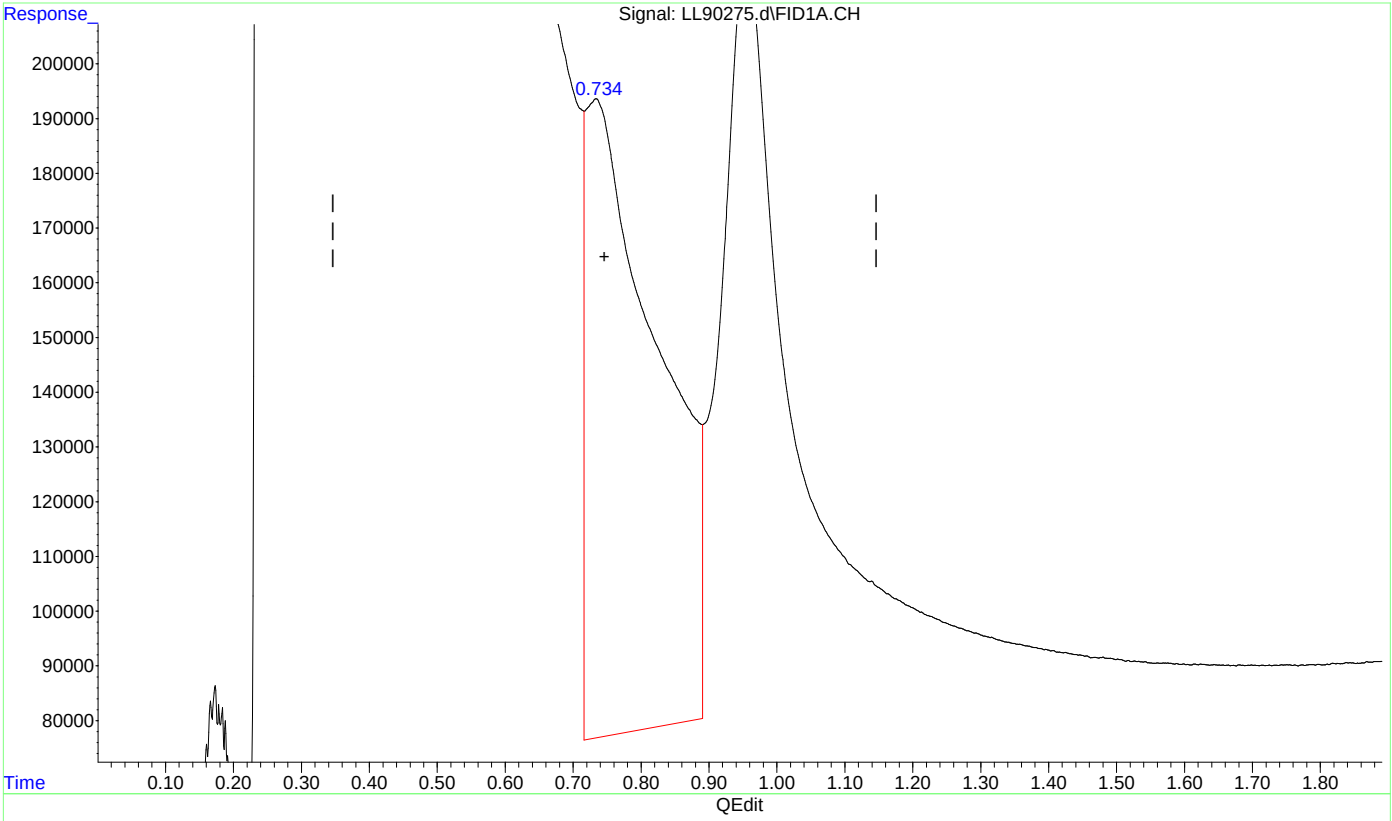
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90275.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:05:43
Operator : jennr
Sample : fc16561-8
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 26 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:12:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.734min 7.225 ppmv

response 8564063

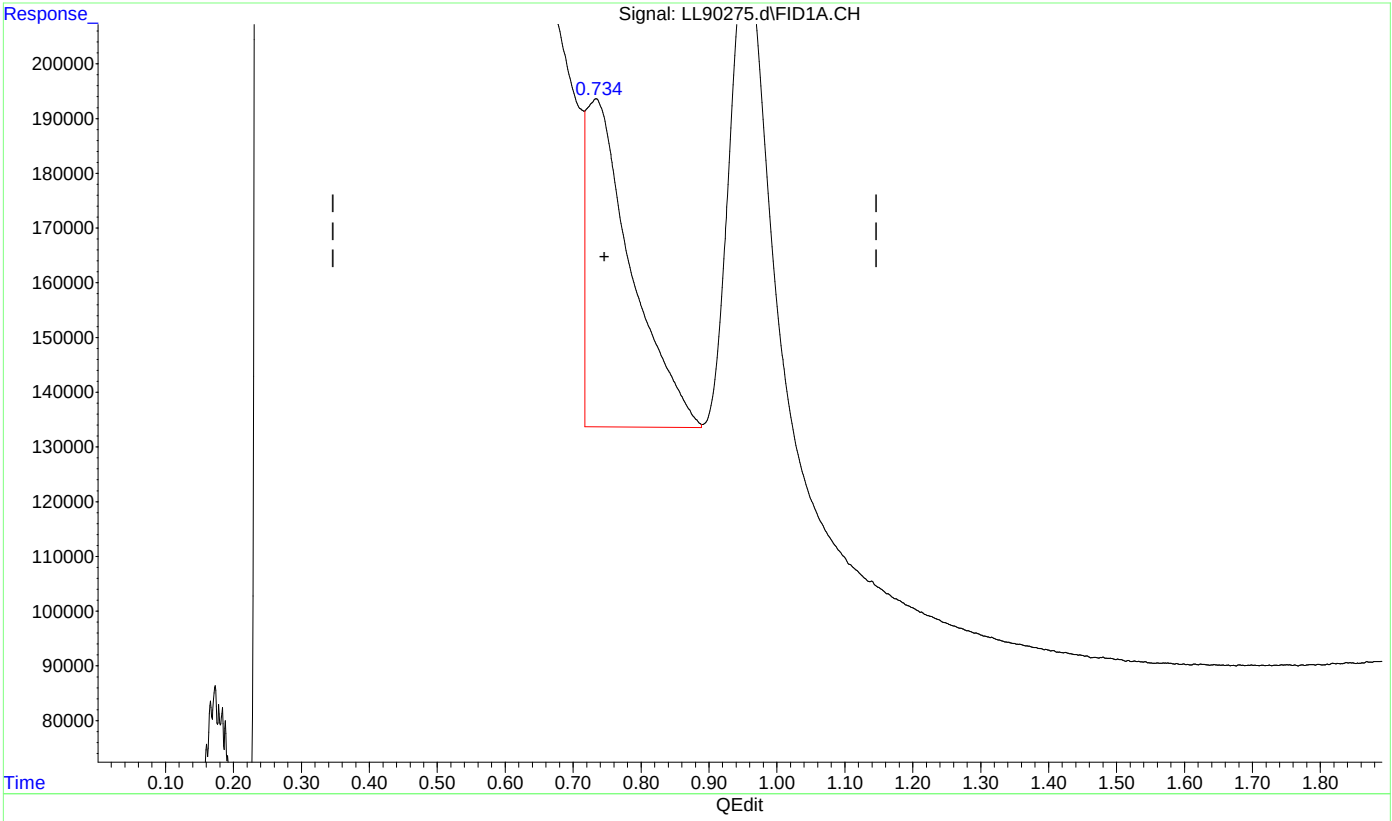
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 14:12:47 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90275.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:05:43
Operator : jennr
Sample : fc16561-8
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 26 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:12:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.734min 2.313 ppmv m

response 2741205

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 14:14:55 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90325.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:56:03
Operator : jennr
Sample : fc16561-8, 10x
Misc : gc24883,gll3145,39,21,500,5,10
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 12:01:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	4557636483	6595.575	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.963	771677	0.622	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.11

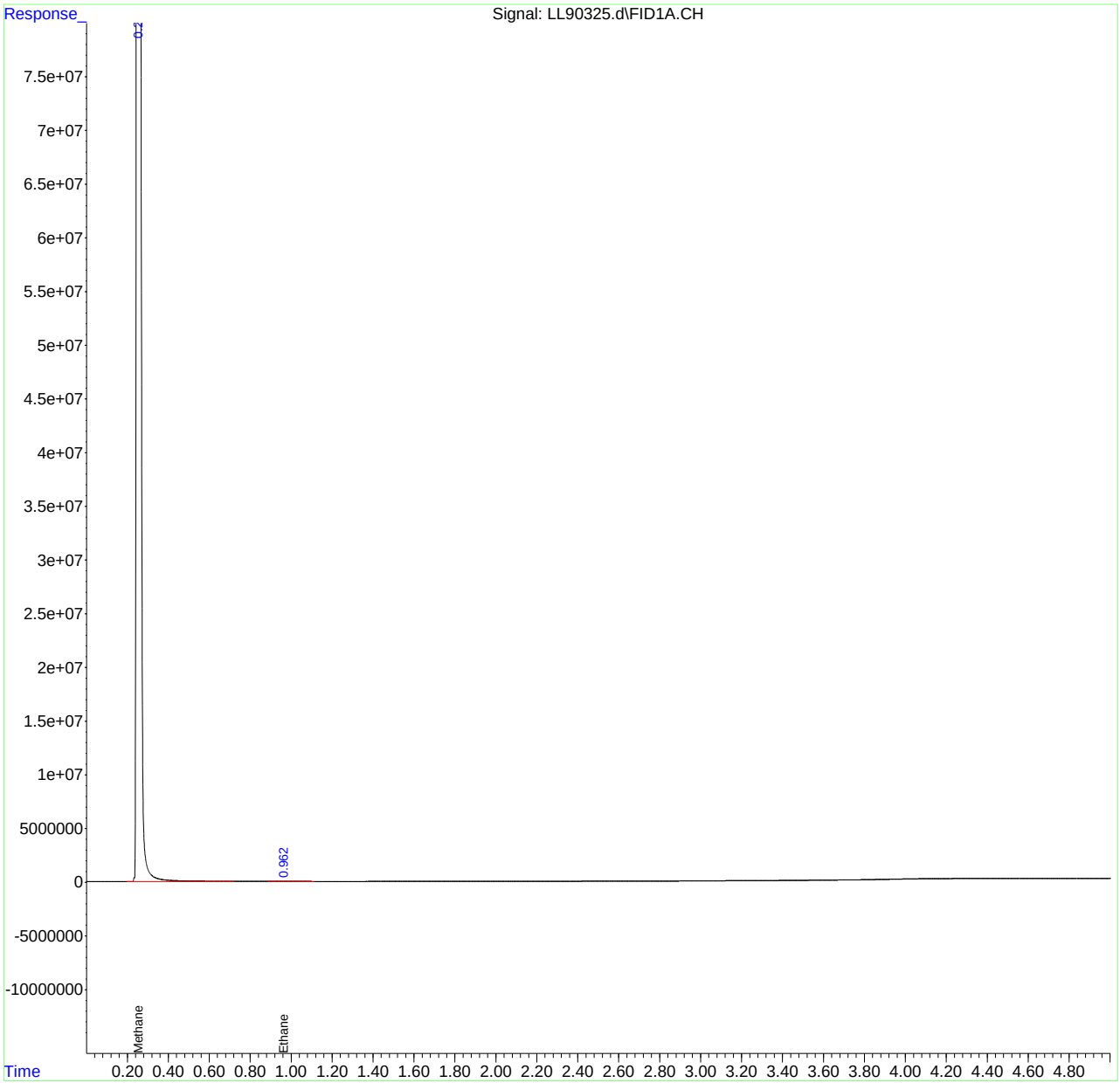
9

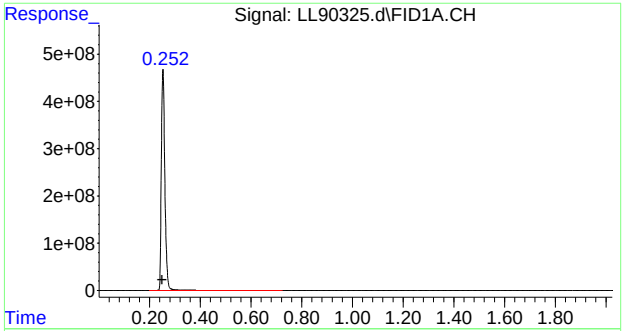
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90325.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:56:03
Operator : jennr
Sample : fc16561-8, 10x
Misc : gc24883,gll3145,39,21,500,5,10
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 12:01:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

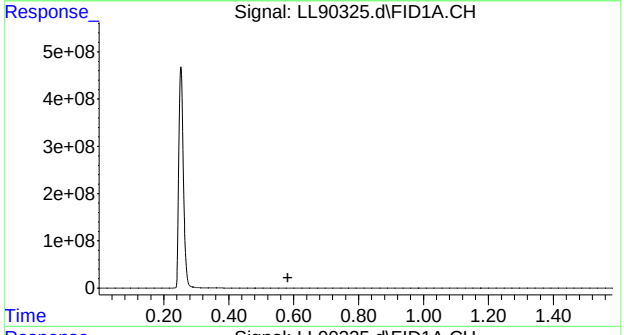
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





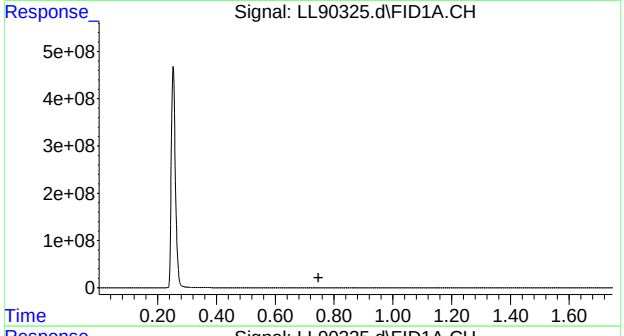
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 4557636483
Conc: 6595.58 ppmv



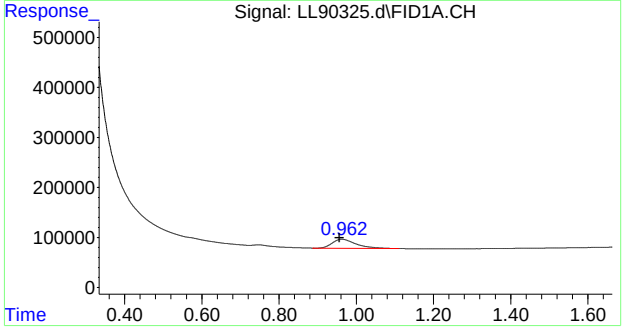
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



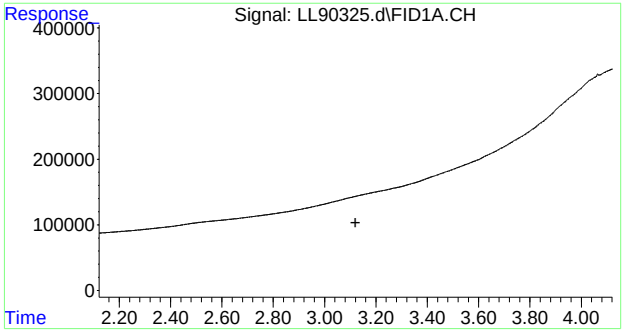
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.963 min
Delta R.T.: 0.006 min
Response: 771677
Conc: 0.62 ppmv



#5 Propane

R.T.: 0.000 min
Exp R.T. : 3.120 min
Response: 0
Conc: N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-8	**Sample Volume:**	39.0 ml
Lab FileID:	LL90325.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 11:56	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	6595.58	38340	7140	ug/l
Ethane	74-84-0	30	0.62	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90288.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:51:29
Operator : jennr
Sample : fc16561-13
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:57:51 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.249	954417	1.381	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.12

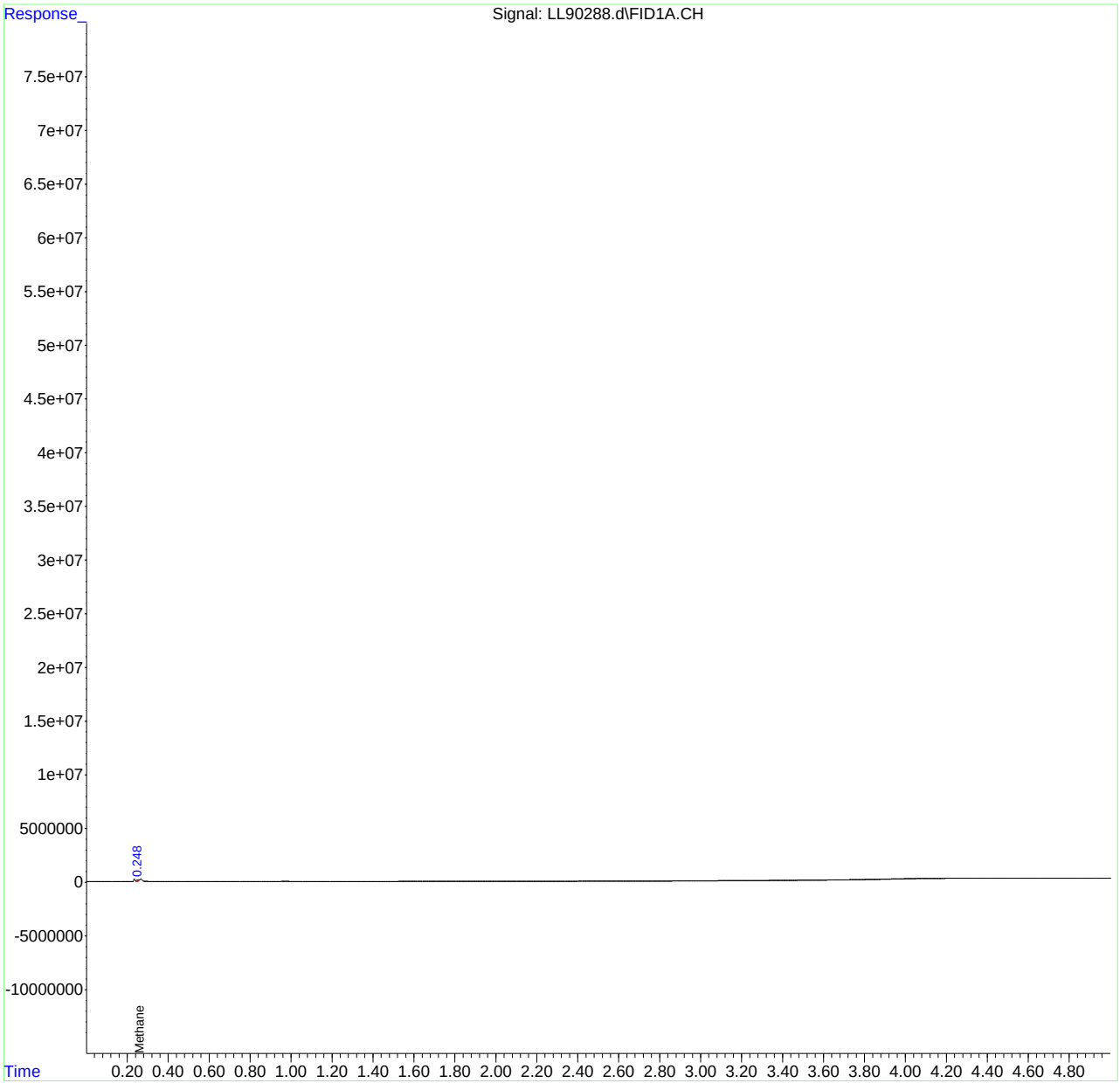
9

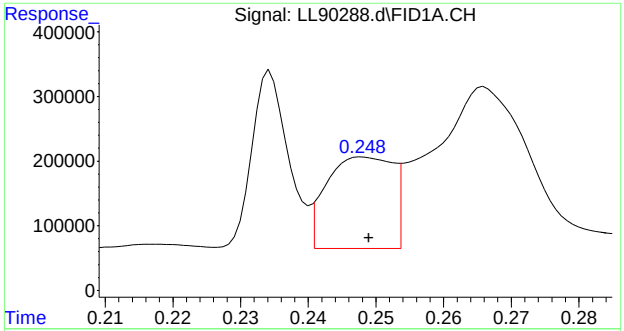
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90288.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:51:29
Operator : jennr
Sample : fc16561-13
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 11 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:57:51 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

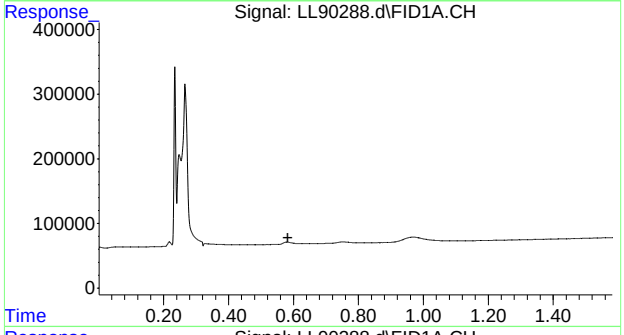
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





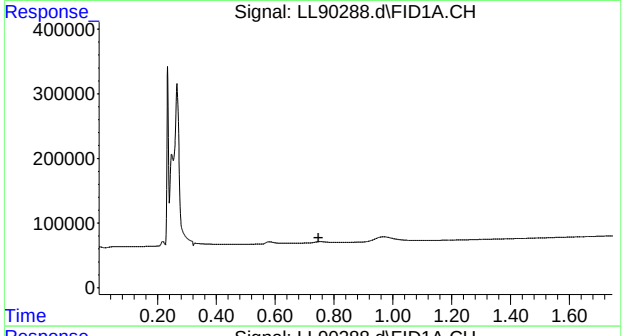
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.000 min
Response: 954417
Conc: 1.38 ppmv



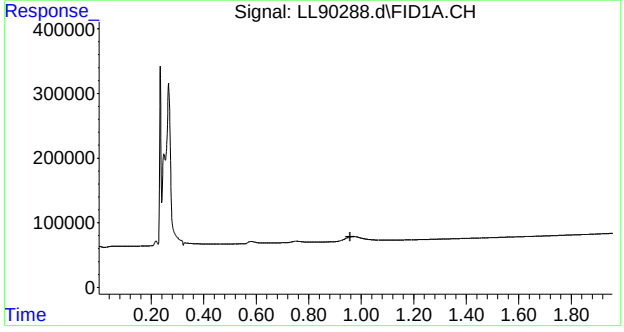
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.

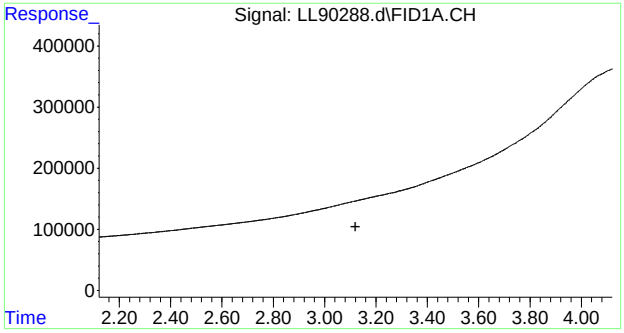


#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.

9.1.12

9



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-13	**Sample Volume:**	39.0 ml
Lab FileID:	LL90288.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:51	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.38	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90276.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:14:01
Operator : jennr
Sample : fc16561-14
Misc : gc24883,gll3143,38.5,21,500,4.9,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:20:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.000	0	N.D.	ppmv d
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.13

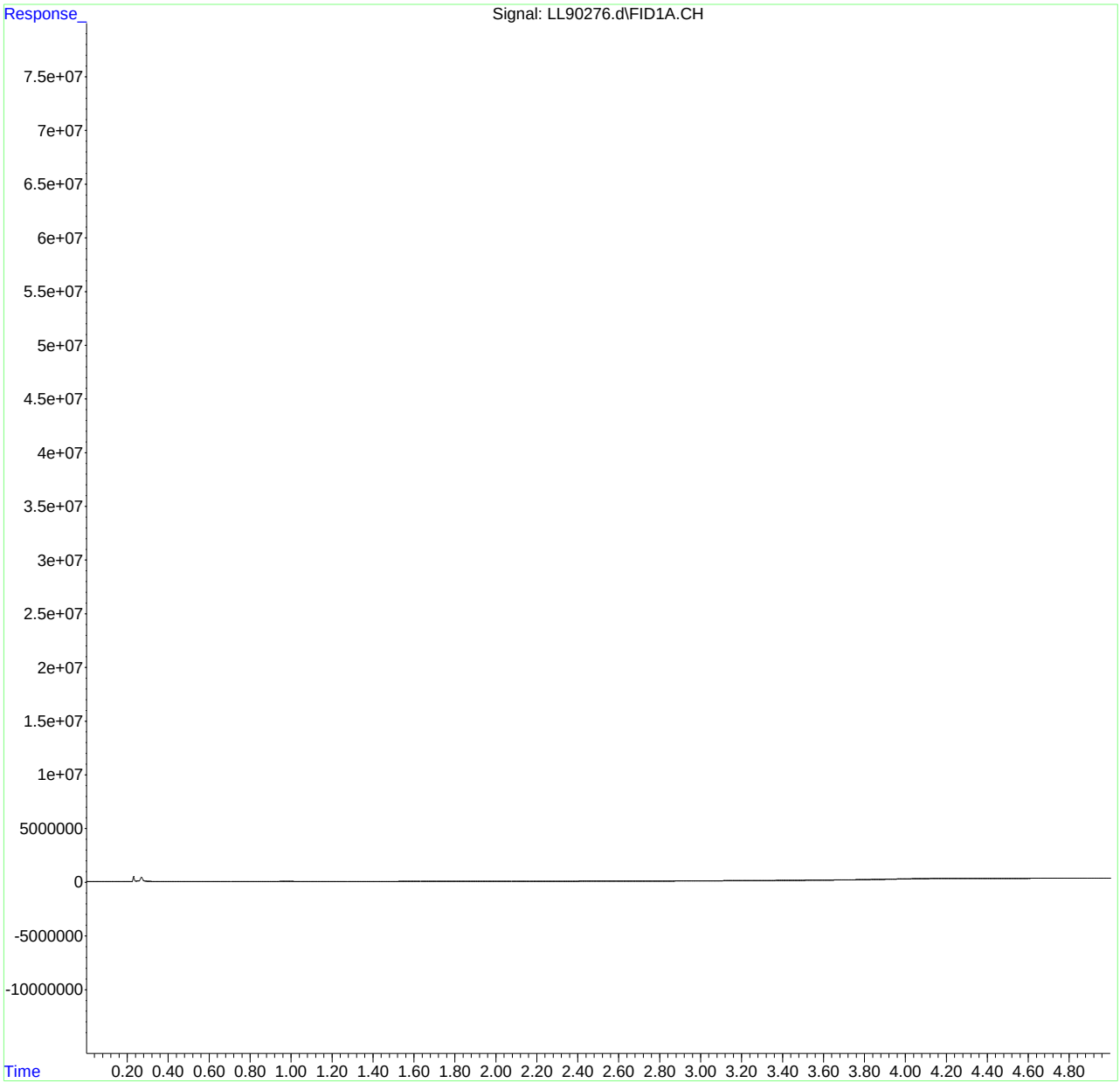
9

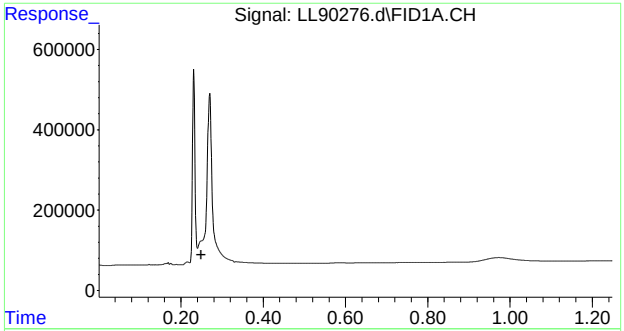
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90276.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:14:01
Operator : jennr
Sample : fc16561-14
Misc : gc24883,gll3143,38.5,21,500,4.9,1
ALS Vial : 27 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:20:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

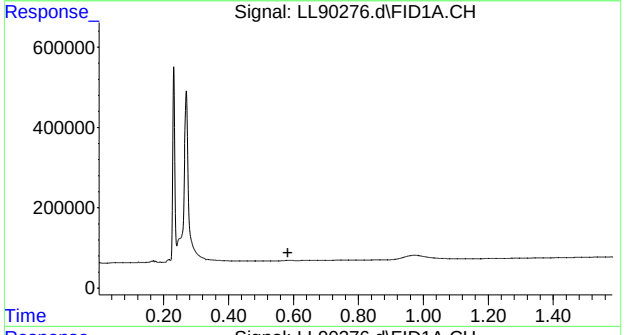
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





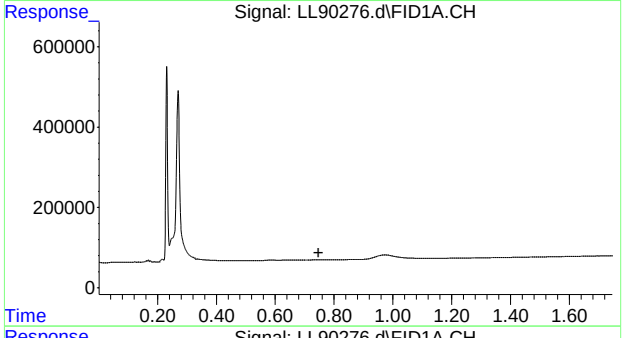
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.249 min
Response: 0
Conc: N.D.



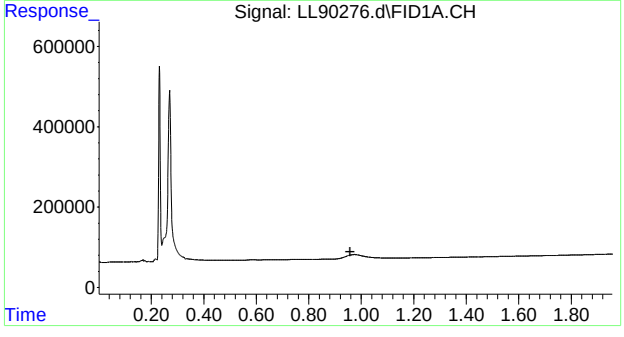
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



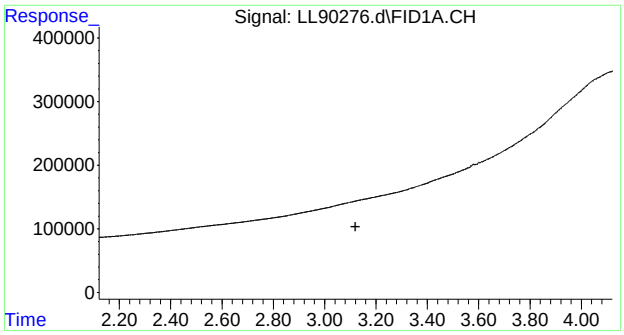
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-14	**Sample Volume:**	38.5 ml
Lab FileID:	LL90276.D	**Headspace:**	4.9 ml
Injection Time:	06/26/24 14:14	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90289.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:58:35
Operator : jennr
Sample : fc16561-15
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:08:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.252	29018626275	41994.252	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.742	4158001	3.508	ppmv	m
4)	Ethane	0.957	20739341	16.728	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	d

(f)=RT Delta > 1/2 Window (m)=manual int.

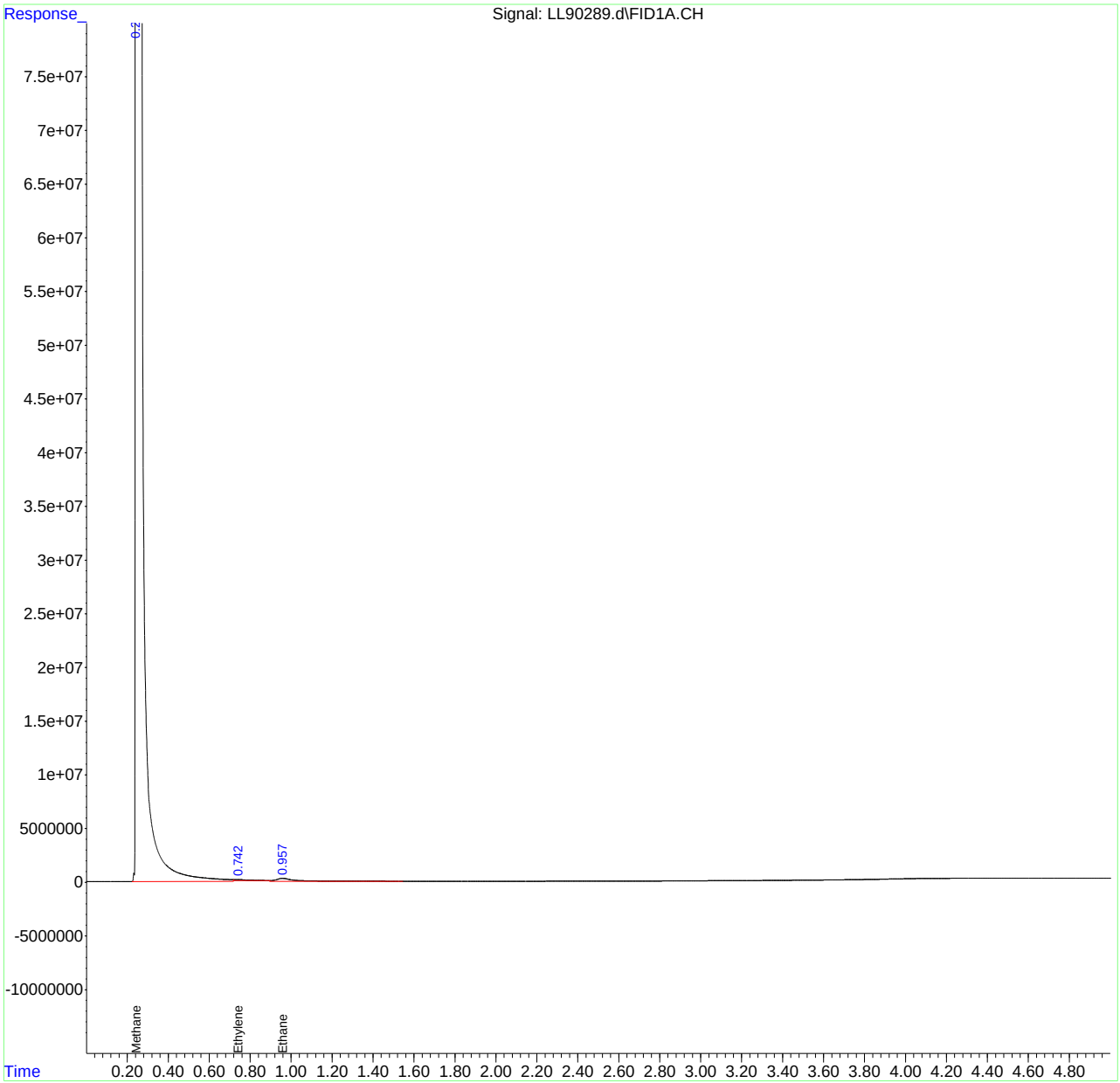
9.1.14
9

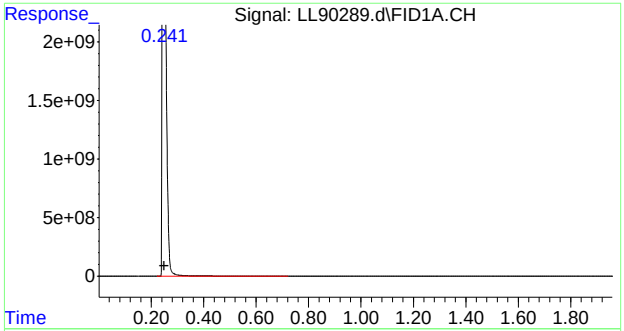
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90289.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:58:35
Operator : jennr
Sample : fc16561-15
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:08:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

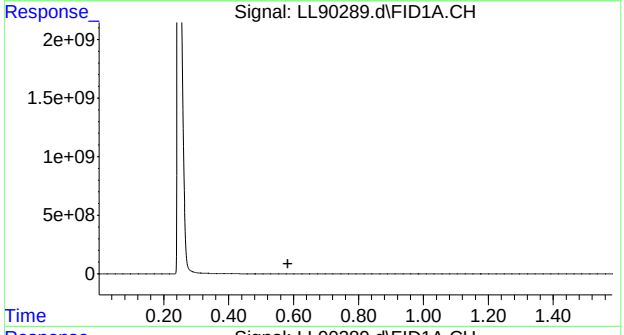
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





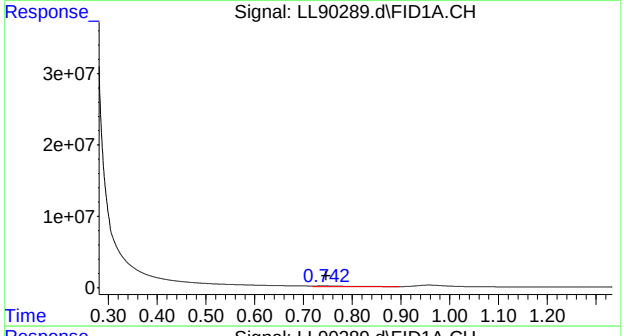
#1 Methane

R.T.: 0.252 min
Delta R.T.: 0.003 min
Response: 29018626275
Conc: 41994.25 ppmv



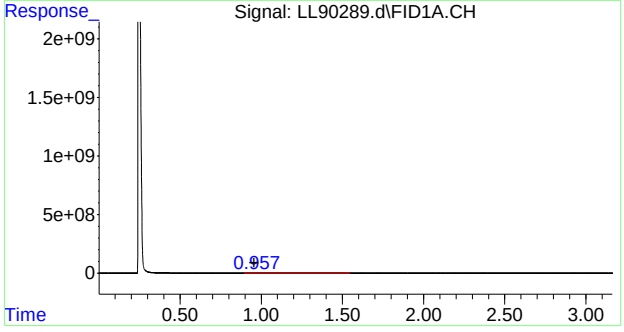
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



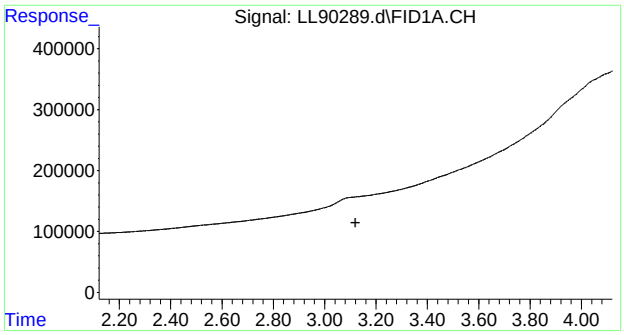
#3 Ethylene

R.T.: 0.742 min
Delta R.T.: -0.004 min
Response: 4158001
Conc: 3.51 ppmv m



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 20739341
Conc: 16.73 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-15
Lab FileID: LL90289.D
Injection Time: 06/27/24 10:58
Method: RSKSOP-147/175
Analyst approved: 07/02/24 07:59 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethene	74-85-1	1	0.74	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-15	**Sample Volume:**	38.0 ml
Lab FileID:	LL90289.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:58	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	41994.25	38340	4640	ug/l
Ethane	74-84-0	30	16.73	27080	3.8	ug/l
Ethene	74-85-1	28	3.51	10440	1.1	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

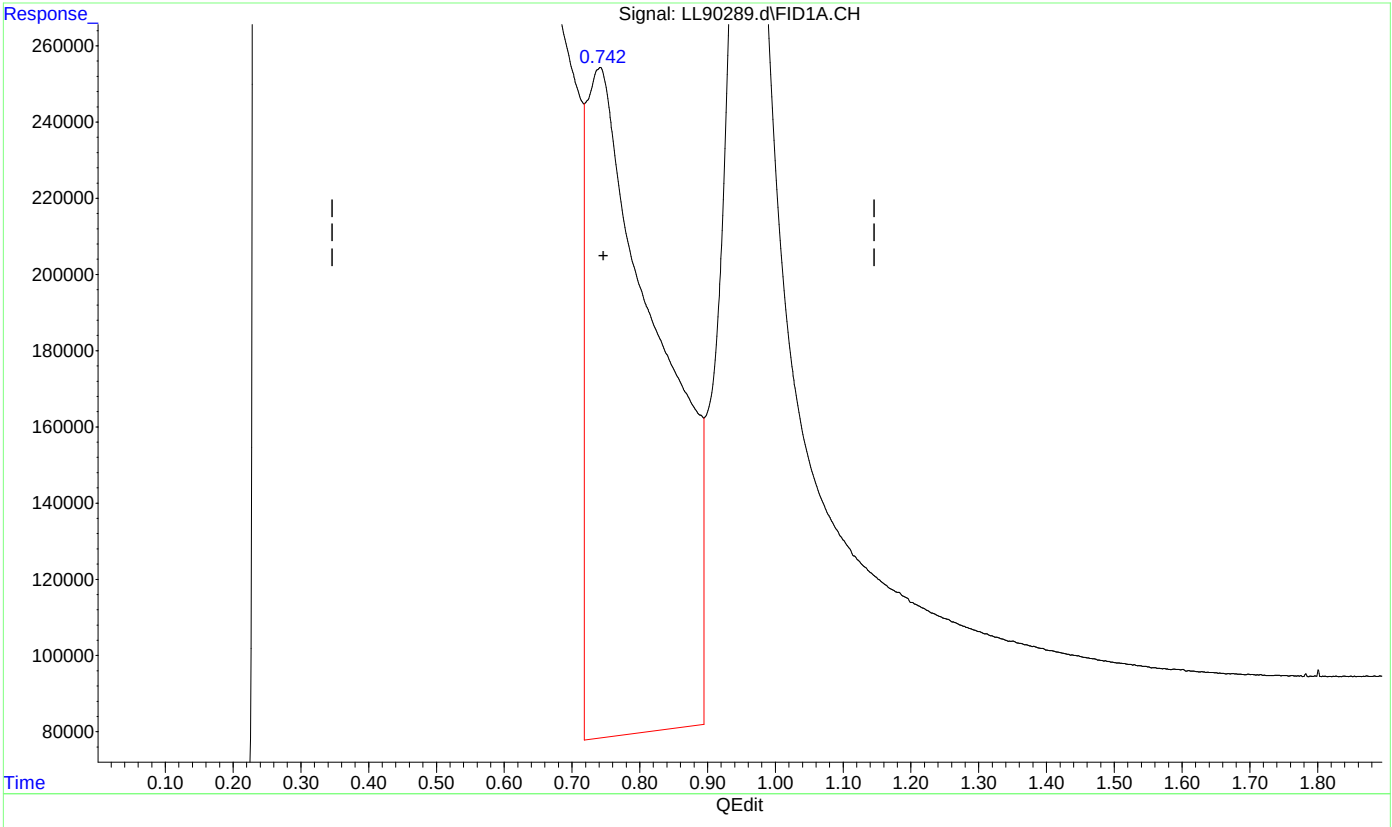
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90289.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:58:35
Operator : jennr
Sample : fc16561-15
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:07:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.742min 10.945 ppmv

response 12973669

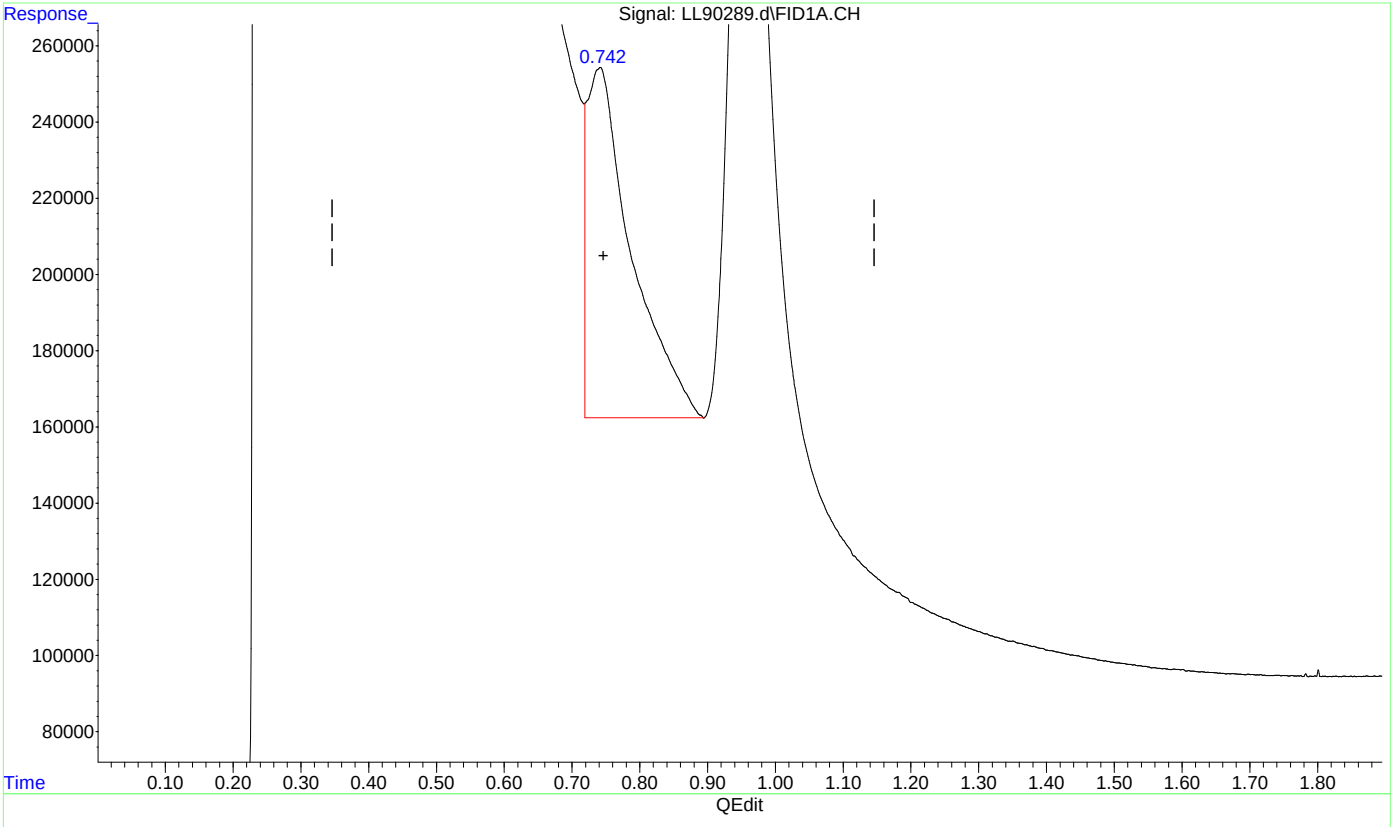
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:08:26 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90289.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:58:35
Operator : jennr
Sample : fc16561-15
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:07:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(3) Ethylene

0.742min 3.508 ppmv m

response 4158001

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:08:35 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90326.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 12:03:25
Operator : jennr
Sample : fc16561-15, 20x
Misc : gc24887,gll3145,38,21,500,5,20
ALS Vial : 17 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 12:14:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.255	2587069649	3743.873	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.000	0	N.D.	ppmv	d
5)	Propane	0.000	0	N.D.	ppmv	

(f)=RT Delta > 1/2 Window (m)=manual int.

9.1.15

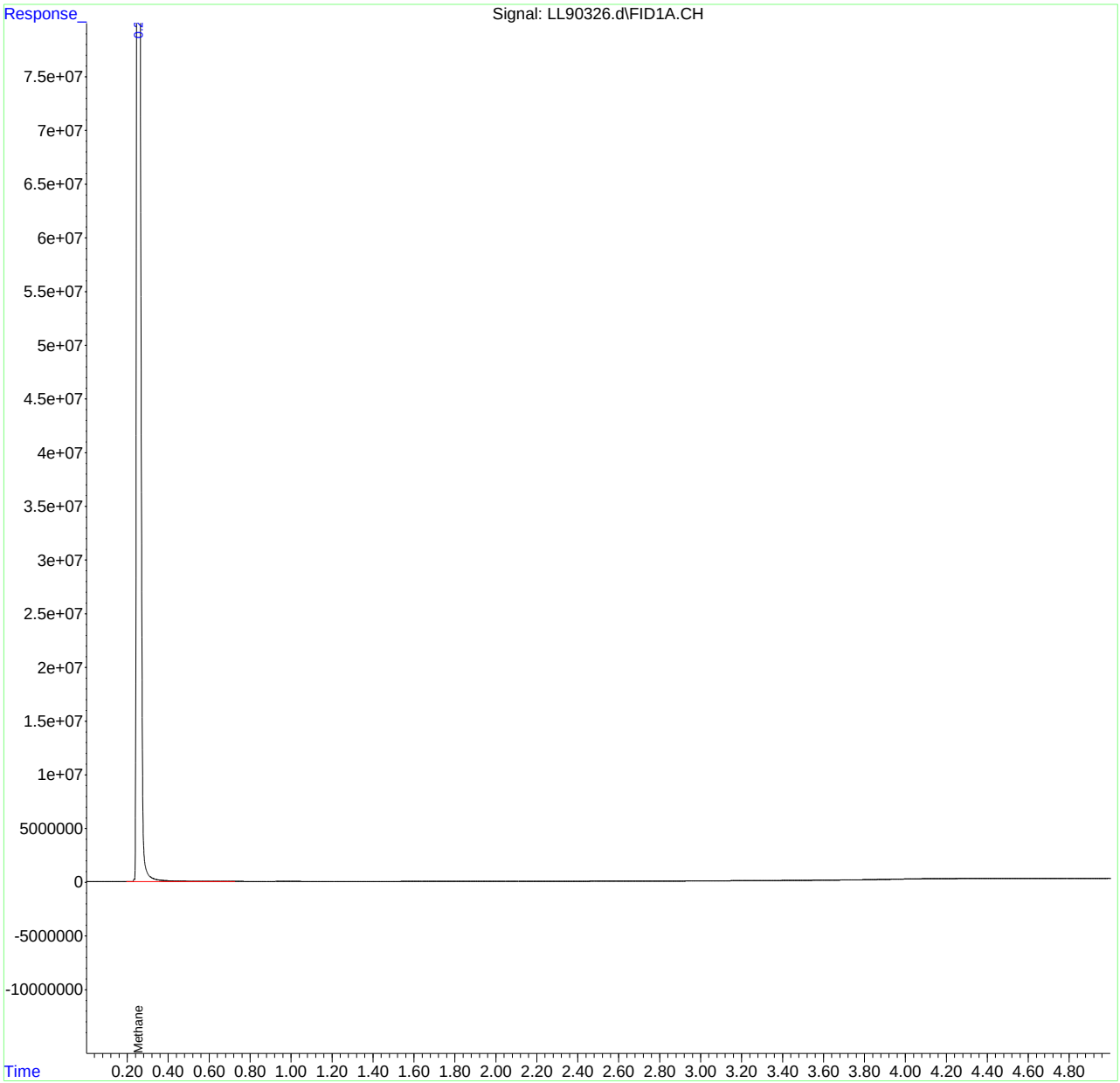
9

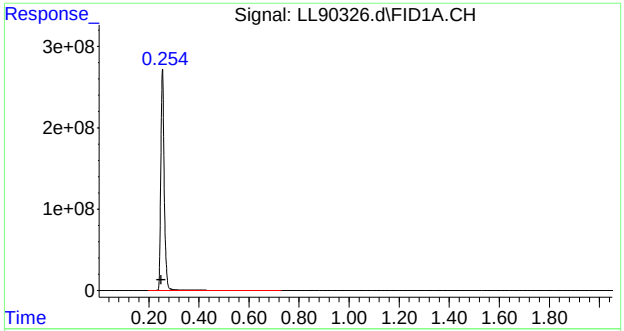
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90326.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 12:03:25
Operator : jennr
Sample : fc16561-15, 20x
Misc : gc24887,gll3145,38,21,500,5,20
ALS Vial : 17 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 12:14:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

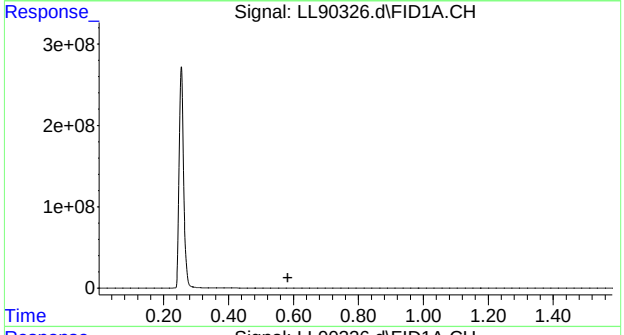
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





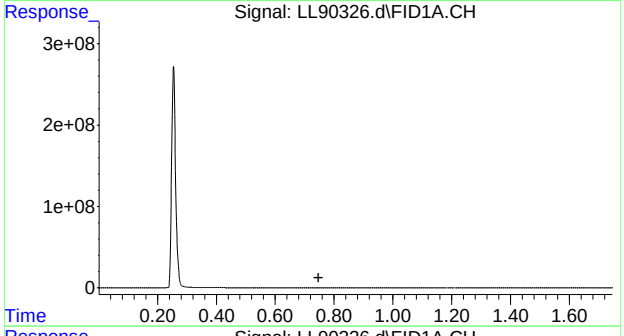
#1 Methane

R.T.: 0.255 min
Delta R.T.: 0.006 min
Response: 2587069649
Conc: 3743.87 ppmv



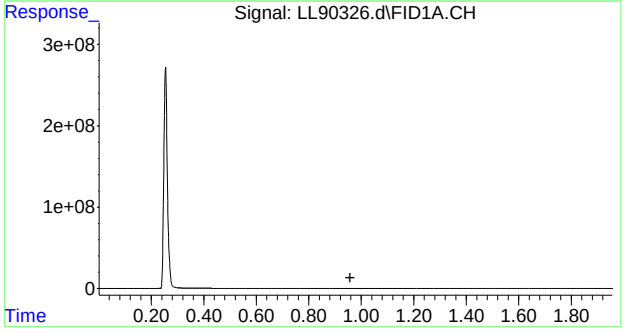
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



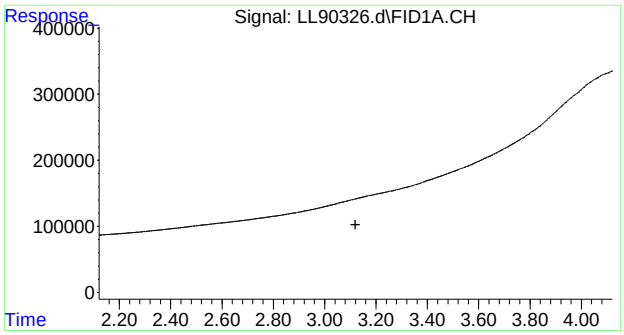
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-15	**Sample Volume:**	38.0 ml
Lab FileID:	LL90326.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 12:03	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	3743.87	38340	8270	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90254.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:17:46
Operator : jennr
Sample : mb
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:24:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.000	0	N.D.	ppmv	d
2)	Acetylene	0.000	0	N.D.	ppmv	
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.000	0	N.D.	ppmv	d
5)	Propane	0.000	0	N.D.	ppmv	

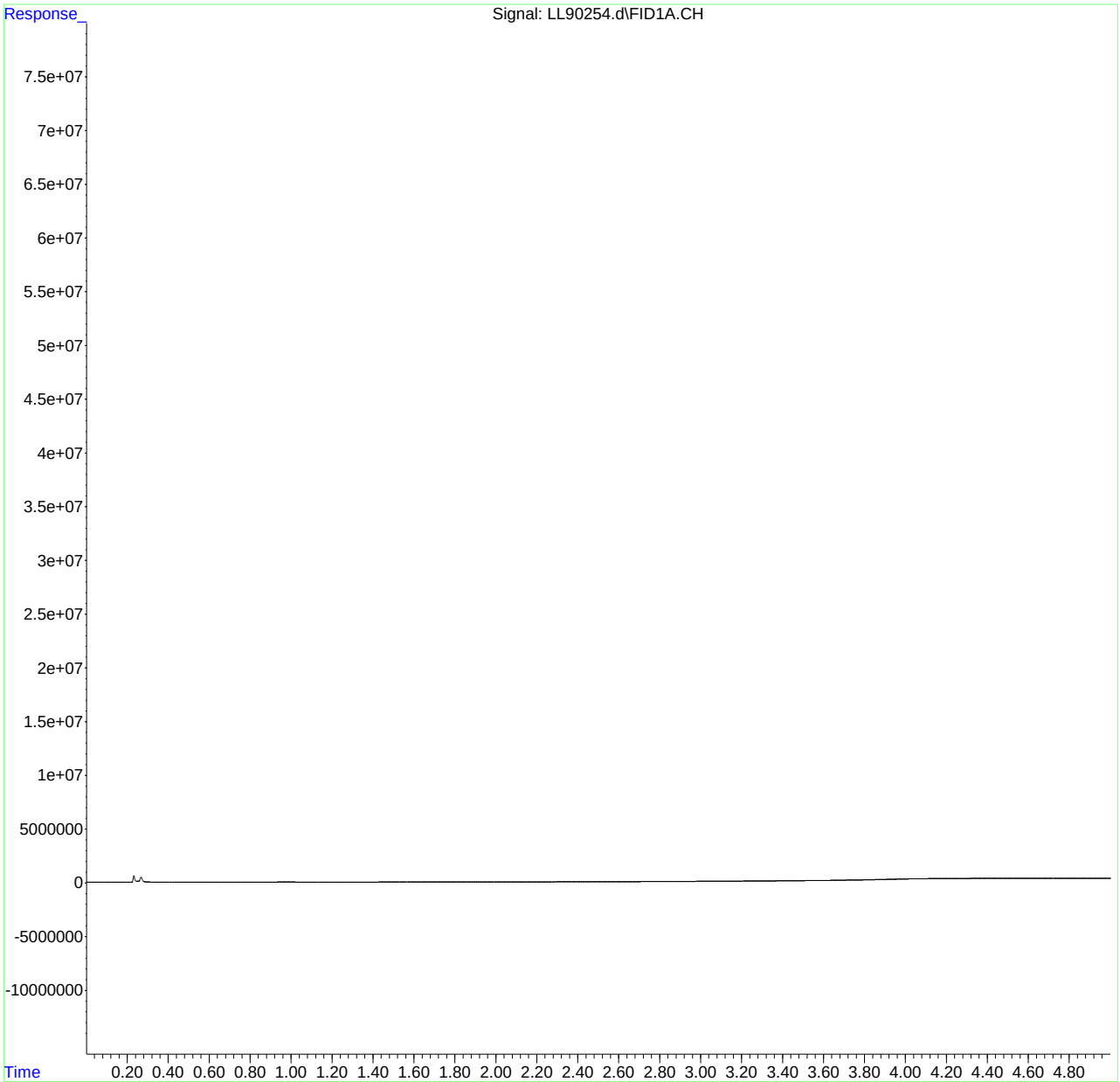
(f)=RT Delta > 1/2 Window (m)=manual int.

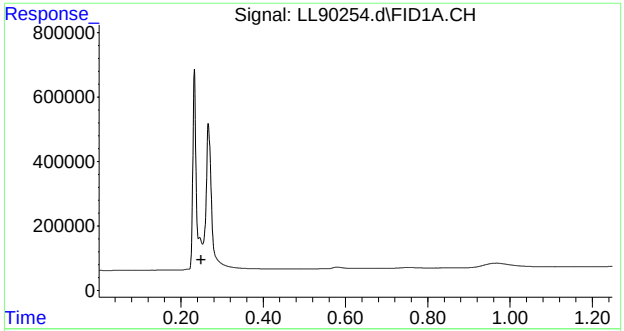
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90254.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:17:46
Operator : jennr
Sample : mb
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:24:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

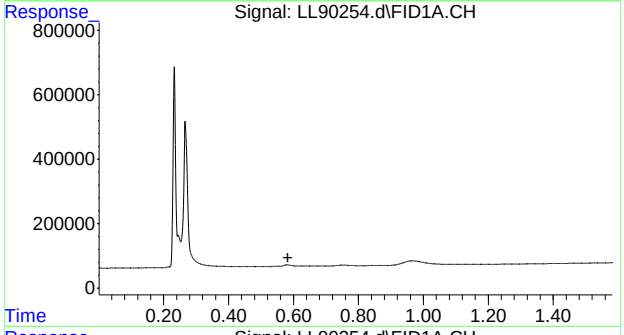
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





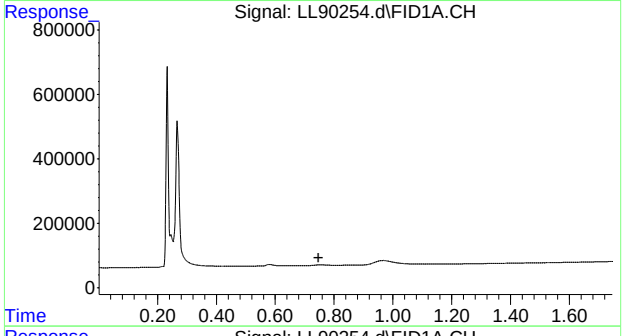
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.249 min
Response: 0
Conc: N.D.



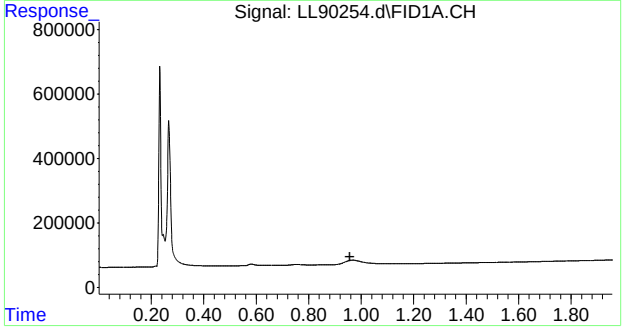
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



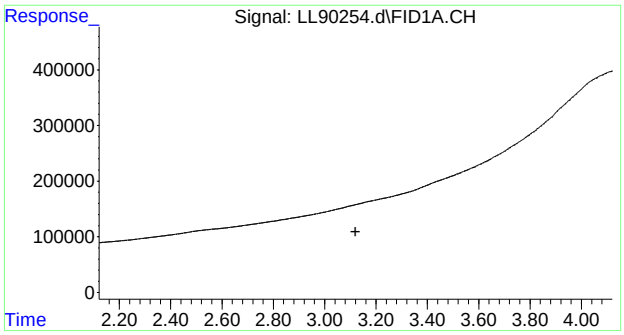
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	GLL3143-MB	**Sample Volume:**	38.0 ml
Lab FileID:	LL90254.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 10:17	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90284.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:14:39
Operator : jennr
Sample : mb
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:20:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.246	649738	0.940	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

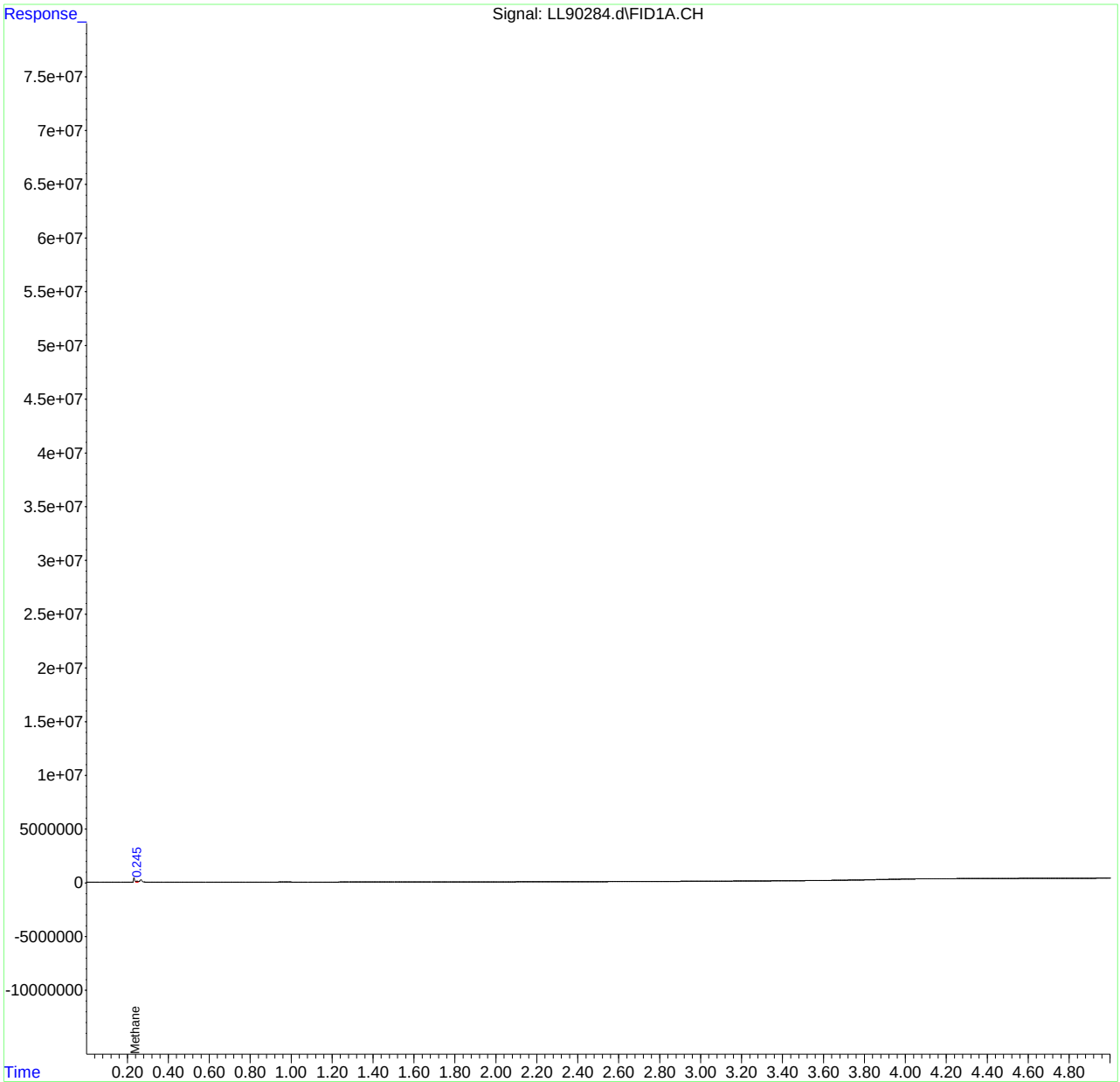
(f)=RT Delta > 1/2 Window (m)=manual int.

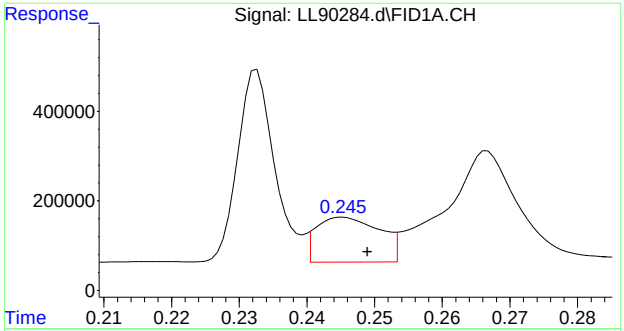
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90284.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:14:39
Operator : jennr
Sample : mb
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:20:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

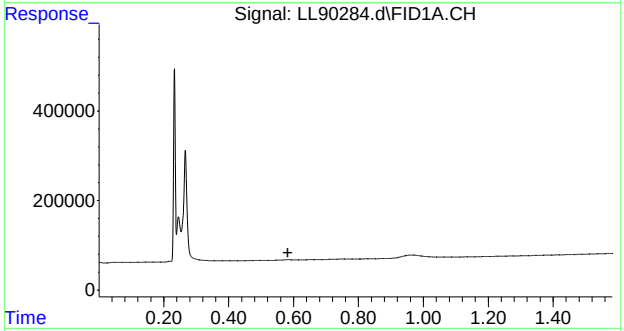
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





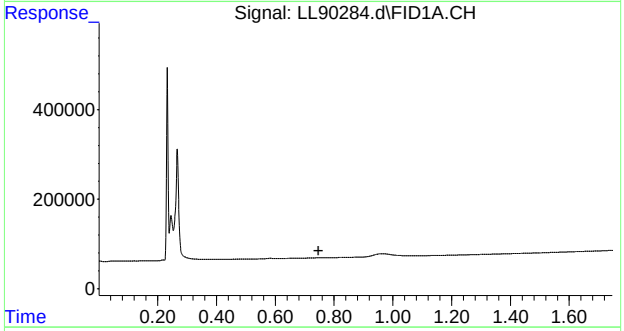
#1 Methane

R.T.:	0.246 min
Delta R.T.:	-0.003 min
Response:	649738
Conc:	0.94 ppmv



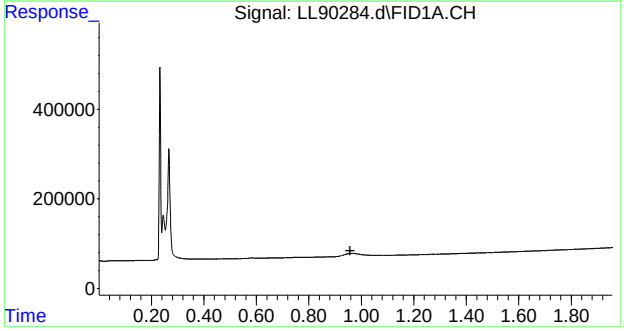
#2 Acetylene

R.T.:	0.000 min
Exp R.T. :	0.582 min
Response:	0
Conc:	N.D.



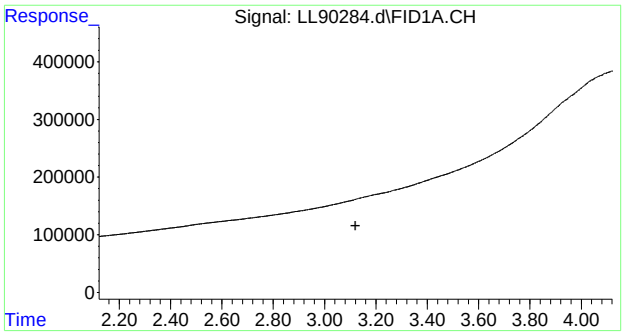
#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	0.746 min
Response:	0
Conc:	N.D.



#4 Ethane

R.T.:	0.000 min
Exp R.T. :	0.956 min
Response:	0
Conc:	N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-MB	**Sample Volume:**	38.0 ml
Lab FileID:	LL90284.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:14	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0.94	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90316.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 10:41:29
Operator : jennr
Sample : mb
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 10:46:53 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.000	0	N.D.	ppmv d
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

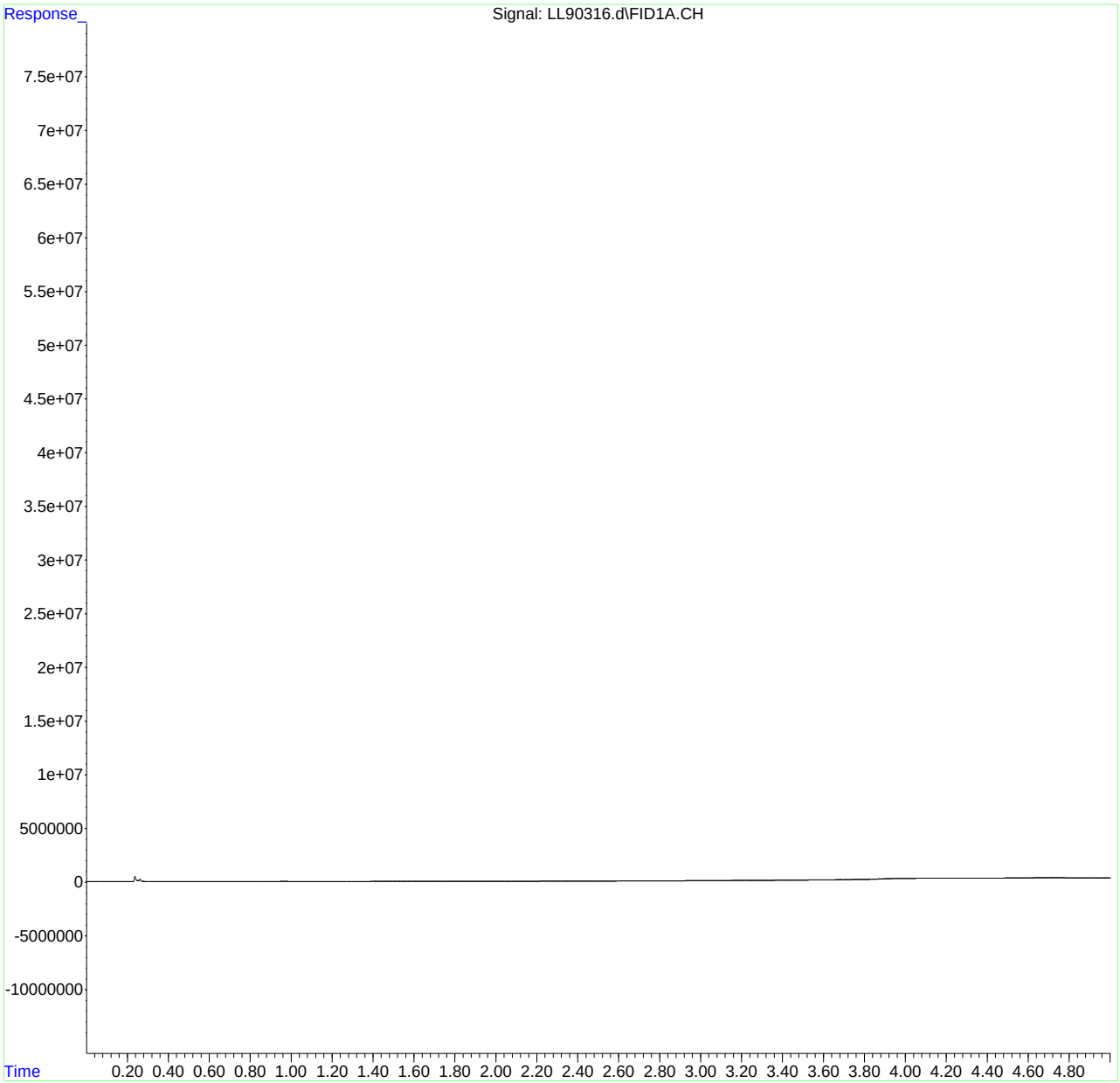
(f)=RT Delta > 1/2 Window (m)=manual int.

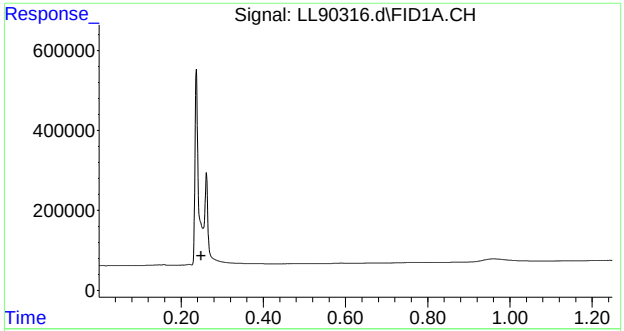
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90316.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 10:41:29
Operator : jennr
Sample : mb
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 10:46:53 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

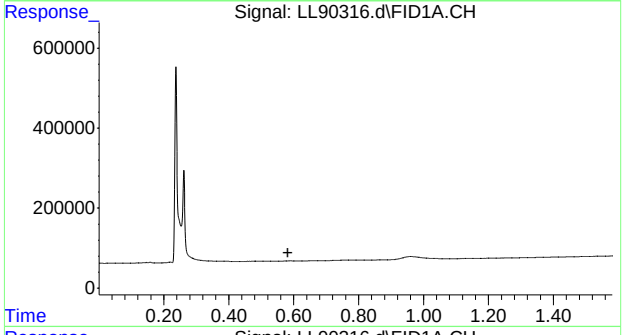
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





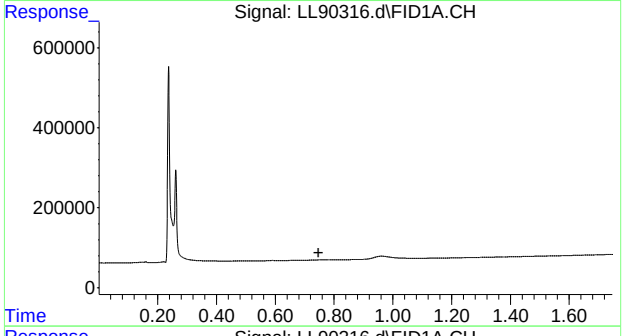
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.249 min
Response: 0
Conc: N.D.



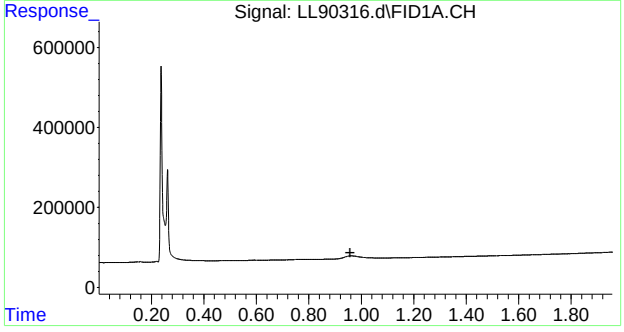
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



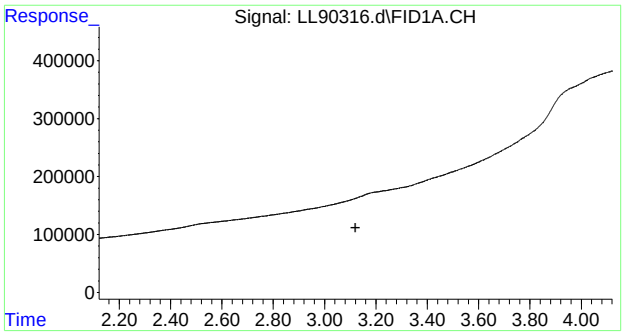
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-MB	**Sample Volume:**	38.0 ml
Lab FileID:	LL90316.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 10:41	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:06:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	673430916	974.554	ppmv	m
2)	Acetylene	0.578	1527794921	985.005	ppmv	
3)	Ethylene	0.747	1175047480	991.352	ppmv	
4)	Ethane	0.957	1202087954	969.605	ppmv	
5)	Propane	3.111	1616554151	938.245	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

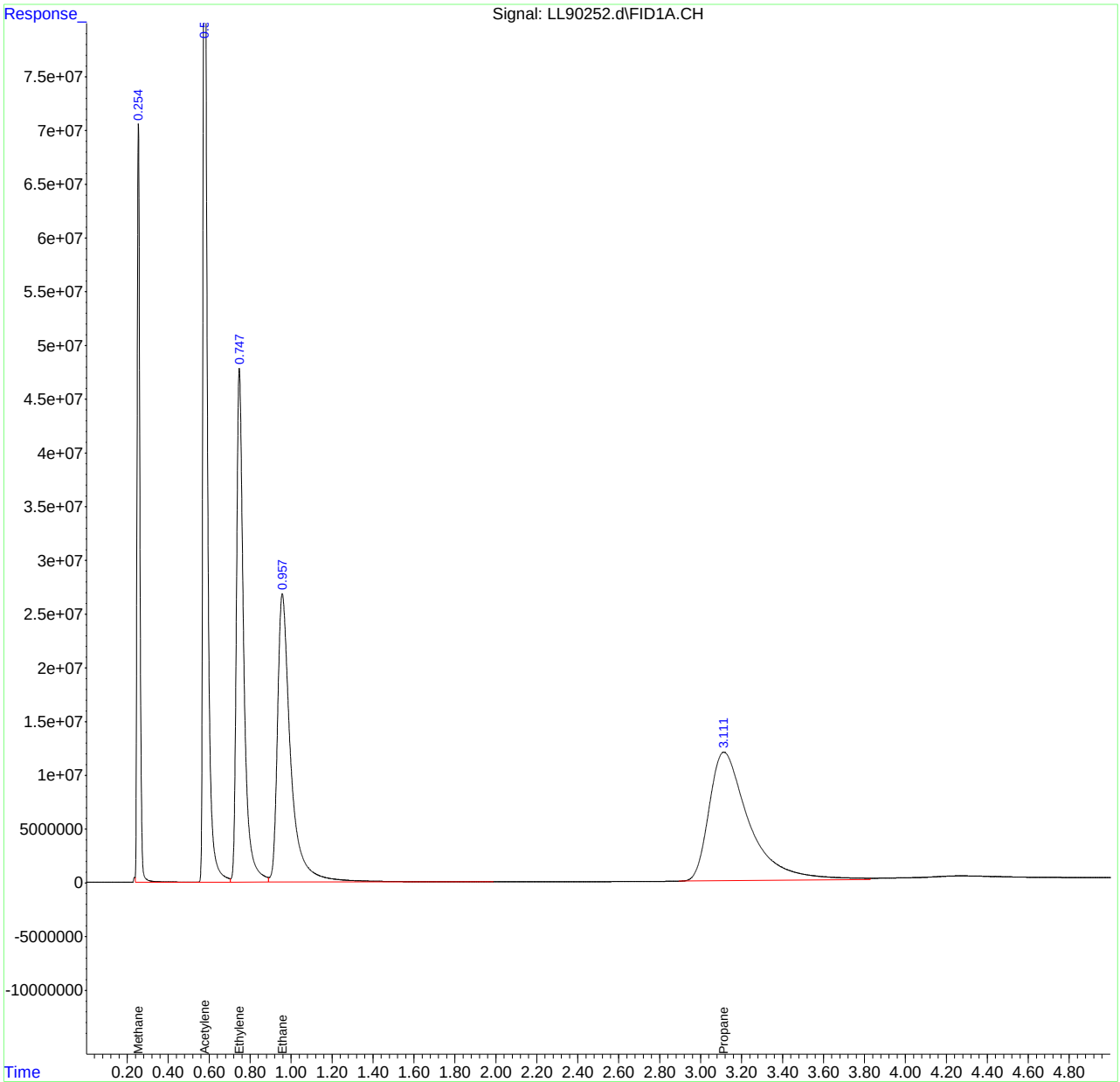
9.3.1
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:06:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3143-BS
Lab FileID: LL90252.D
Injection Time: 06/26/24 09:57
Method: RSKSOP-147/175
Analyst approved: 06/27/24 08:24 Jennifer Rich
Supervisor approved: 06/27/24 10:28 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3143-BS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90252.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 09:57	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	974.55	38340	108	ug/l
Ethane	74-84-0	30	969.6	27080	218	ug/l
Ethene	74-85-1	28	991.35	10440	299	ug/l
Acetylene	74-86-2	26	985.01	12200	256	ug/l
Propane	74-98-6	44	938.25	32552	296	ug/l

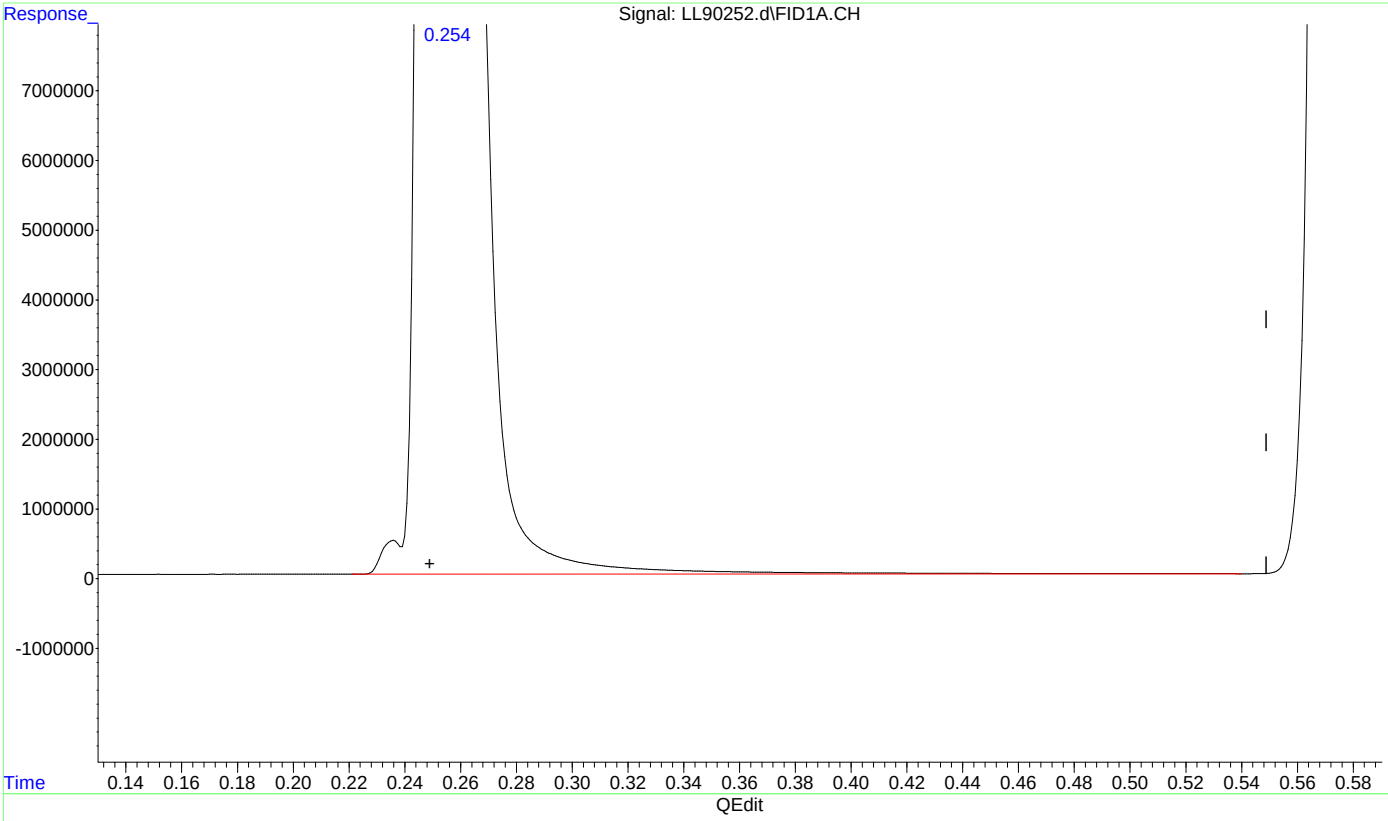
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:05:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.255min 975.988 ppmv

response 674421749

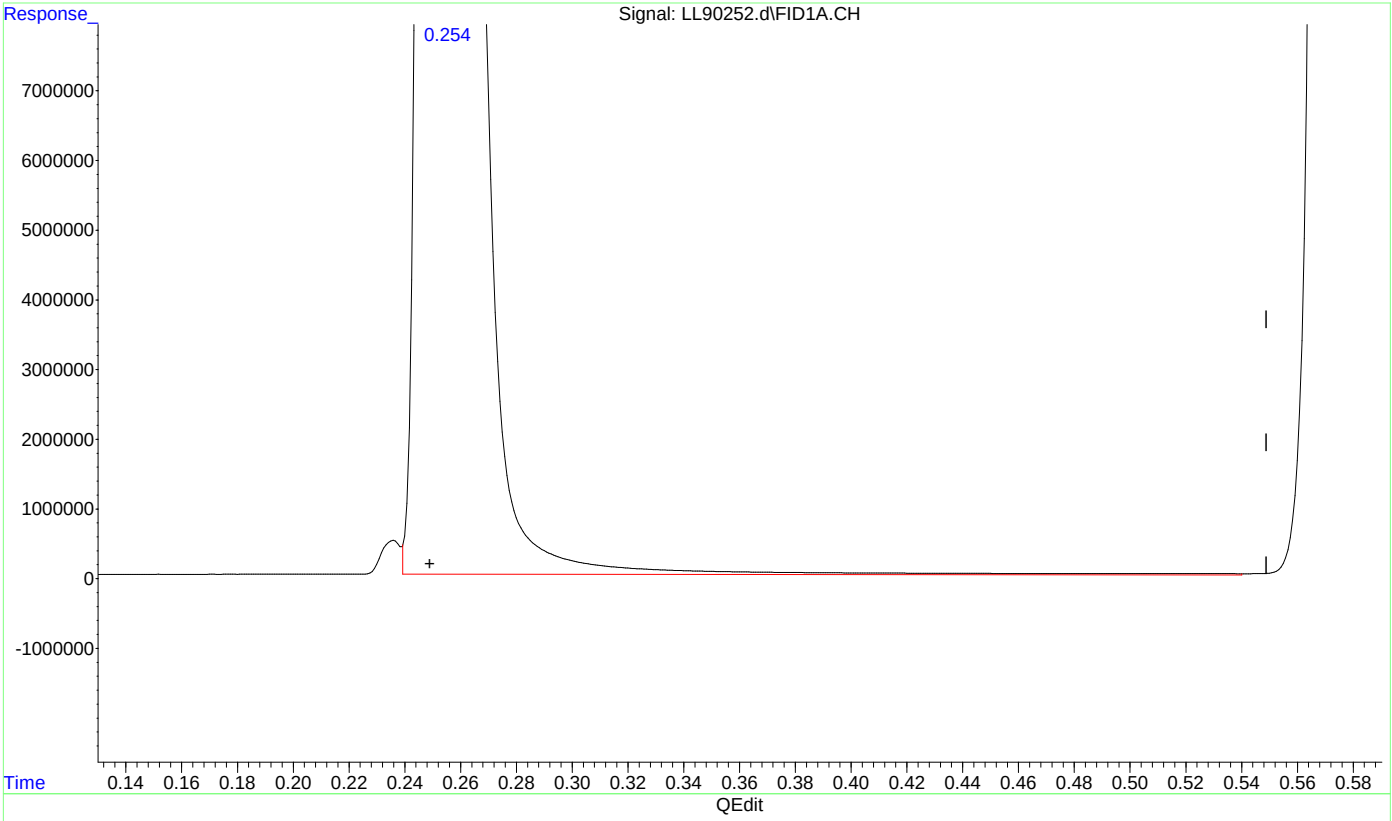
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 10:05:35 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:05:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 974.554 ppmv m

response 673430916

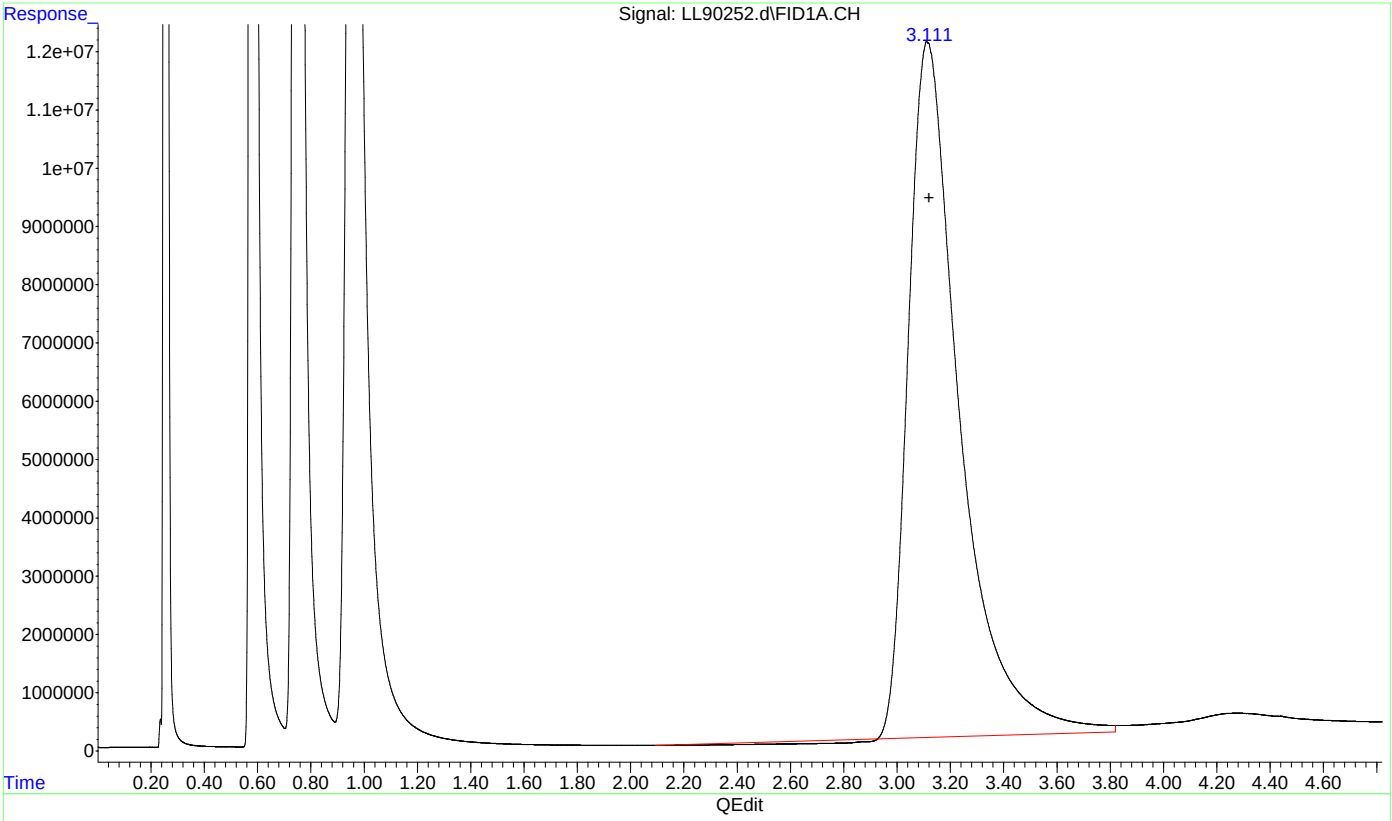
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 10:05:51 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:05:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.111min 921.234 ppmv

response 1587244398

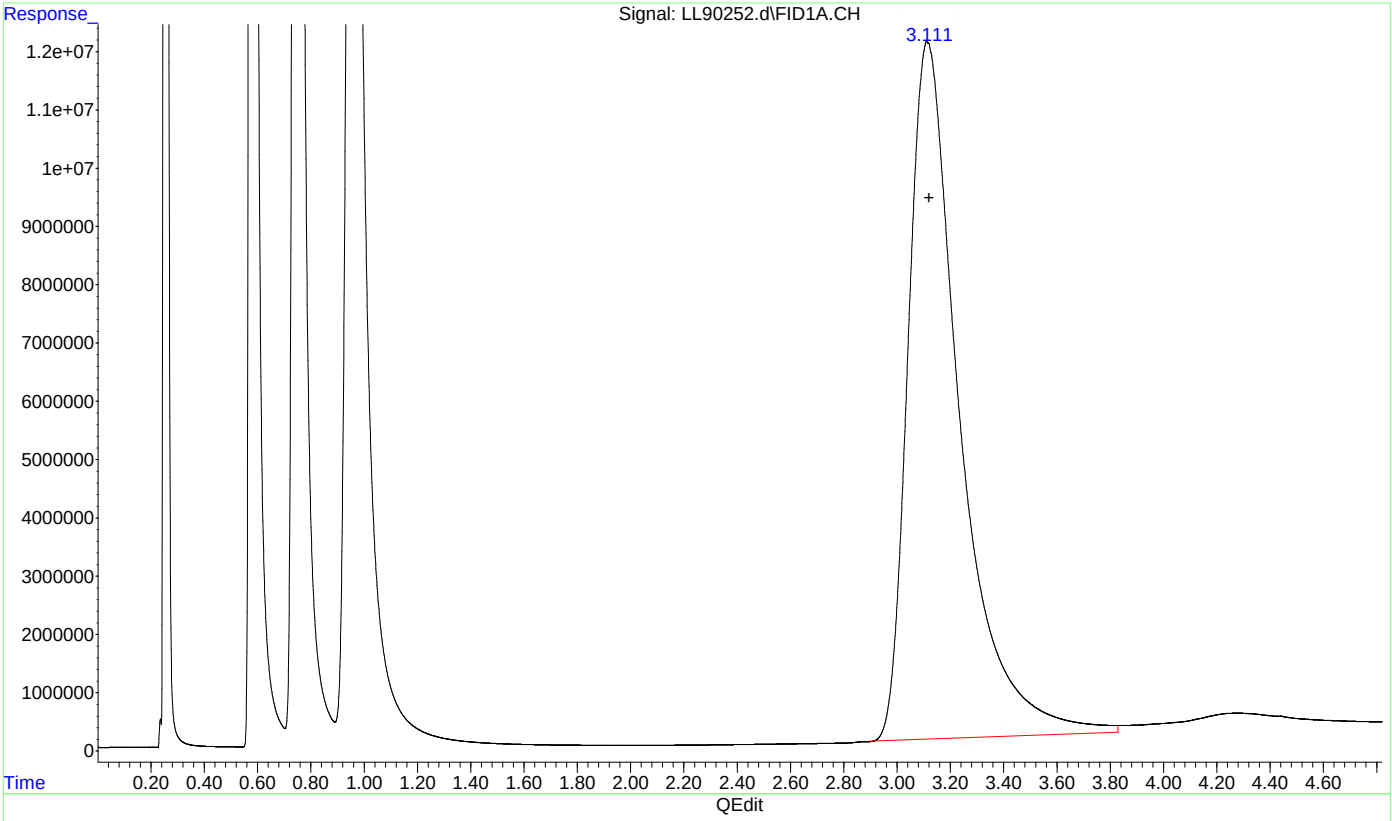
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 10:05:59 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90252.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:57:17
Operator : jennr
Sample : bs
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:05:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.111min 938.245 ppmv m

response 1616554151

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 10:06:04 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90253.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:07:34
Operator : jennr
Sample : bsd
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:17:05 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.254	682727454	988.008	ppmv
2)	Acetylene	0.575	1546668838	997.174	ppmv
3)	Ethylene	0.746	1195193209	1008.349	ppmv
4)	Ethane	0.957	1224911005	988.014	ppmv
5)	Propane	3.116	1643205280	953.713	ppmv

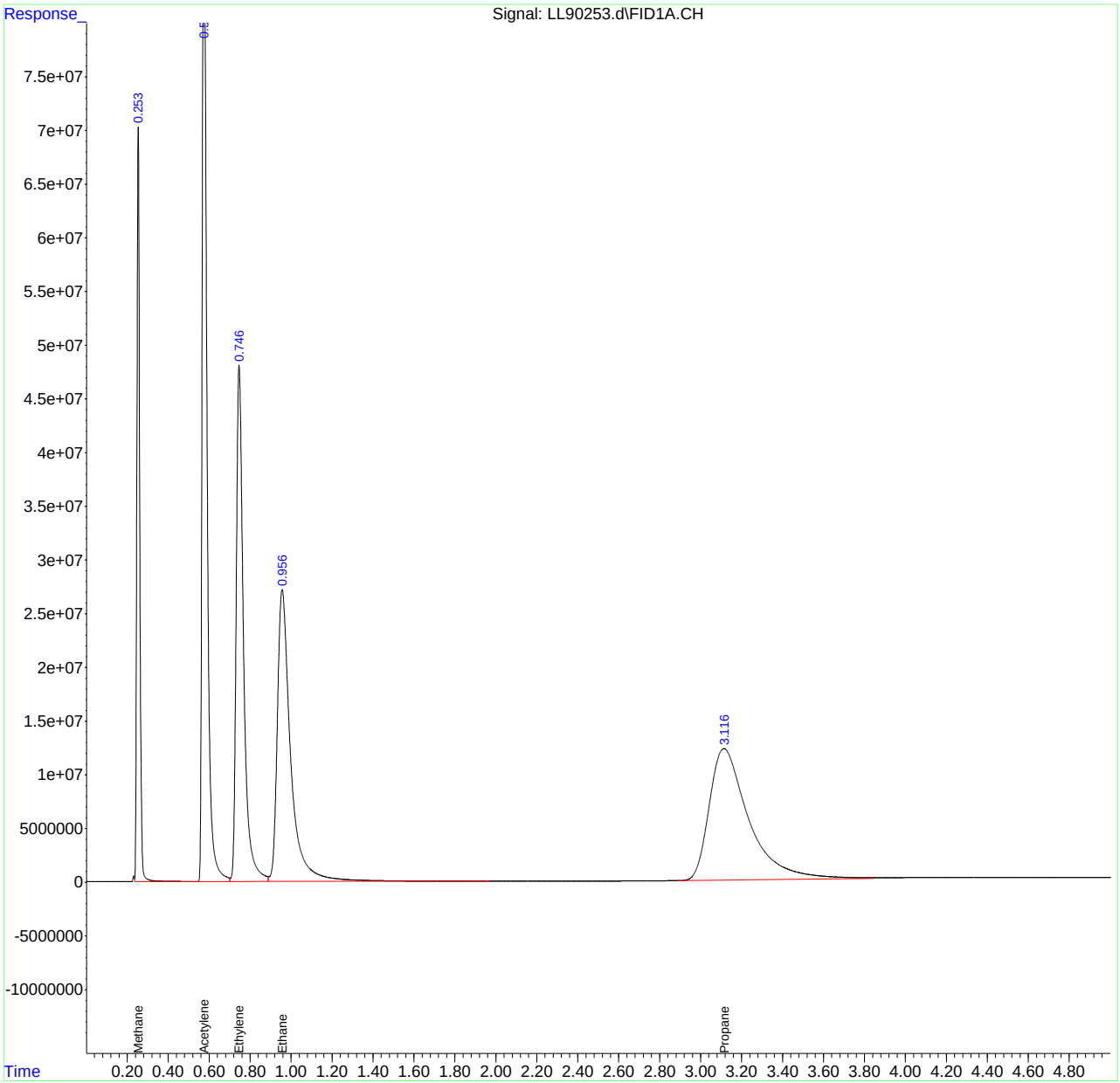
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90253.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:07:34
Operator : jennr
Sample : bsd
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:17:05 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Dissolved Gases Raw Data Summary

Sample Number:	GLL3143-BSD	**Sample Volume:**	38.0 ml
Lab FileID:	LL90253.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 10:07	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	988.01	38340	109	ug/l
Ethane	74-84-0	30	988.01	27080	222	ug/l
Ethene	74-85-1	28	1008.35	10440	304	ug/l
Acetylene	74-86-2	26	997.17	12200	259	ug/l
Propane	74-98-6	44	953.71	32552	300	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:31 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.254	664214917	961.217 ppmv m
2)	Acetylene	0.577	1516797148	977.915 ppmv
3)	Ethylene	0.746	1163062732	981.241 ppmv
4)	Ethane	0.957	1184790268	955.652 ppmv
5)	Propane	3.117	1611412016	935.261 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

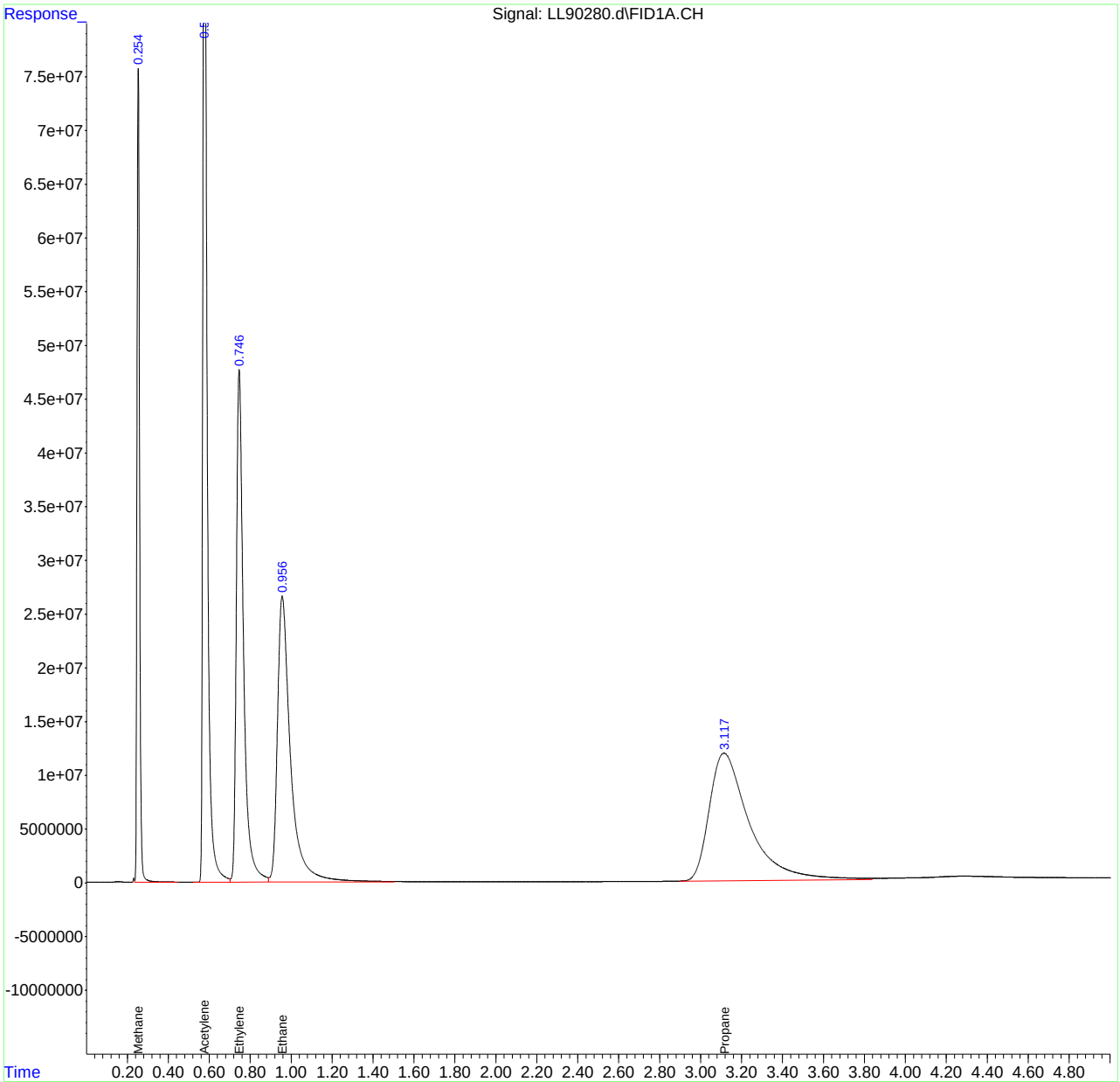
9.3.3

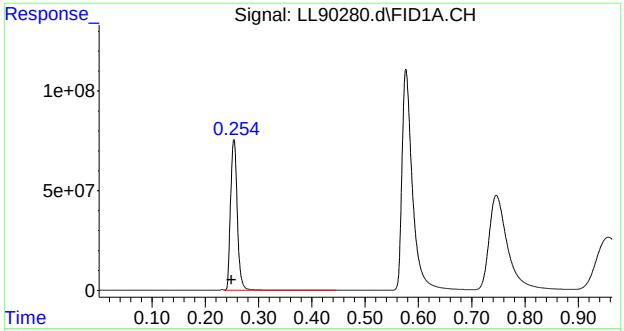
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:31 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

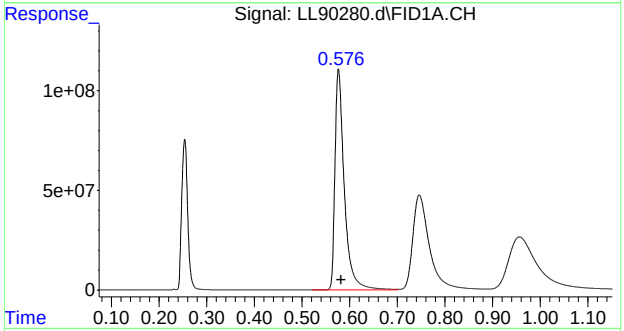
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





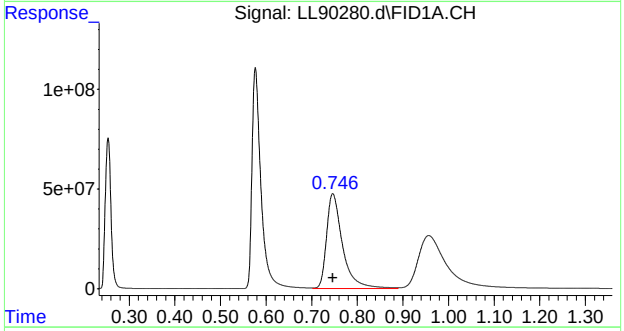
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 664214917
Conc: 961.22 ppmv m



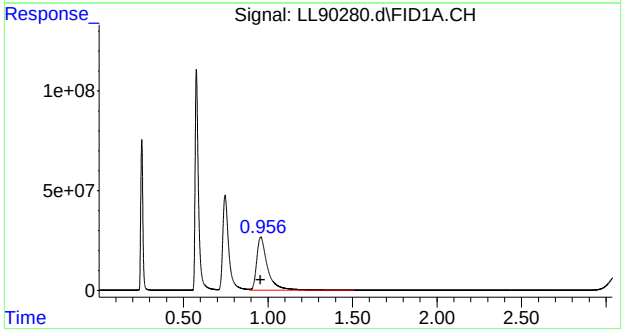
#2 Acetylene

R.T.: 0.577 min
Delta R.T.: -0.005 min
Response: 1516797148
Conc: 977.91 ppmv



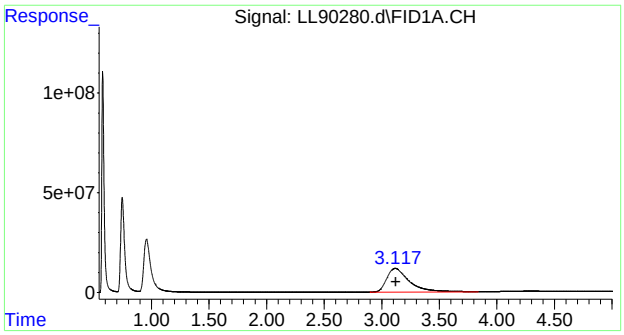
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1163062732
Conc: 981.24 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1184790268
Conc: 955.65 ppmv



#5 Propane

R.T.: 3.117 min
Delta R.T.: -0.004 min
Response: 1611412016
Conc: 935.26 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-BS
Lab FileID: LL90280.D
Injection Time: 06/27/24 08:55
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-BS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90280.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 08:55	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	961.22	38340	106	ug/l
Ethane	74-84-0	30	955.65	27080	215	ug/l
Ethene	74-85-1	28	981.24	10440	296	ug/l
Acetylene	74-86-2	26	977.91	12200	254	ug/l
Propane	74-98-6	44	935.26	32552	295	ug/l

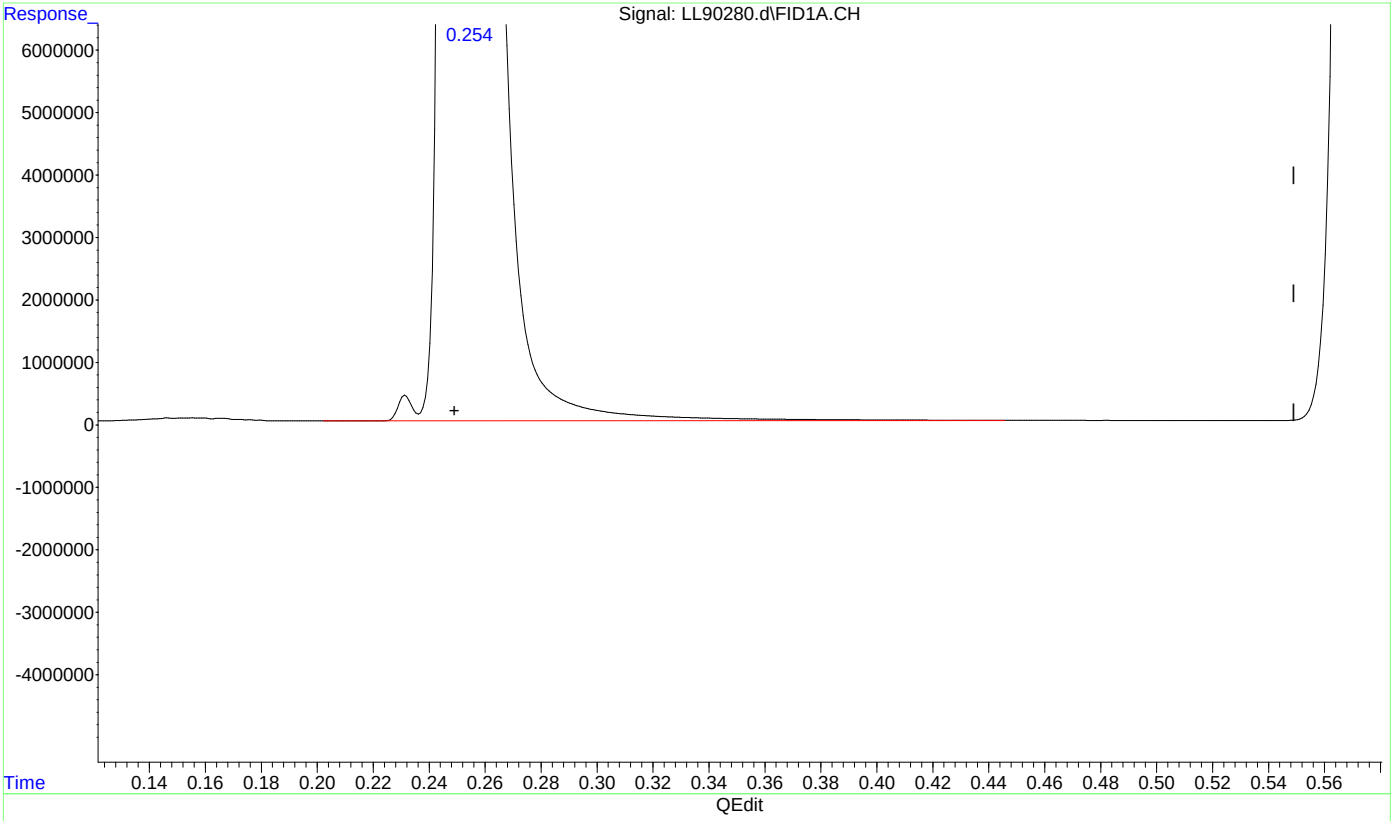
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 963.046 ppmv

response 665478718

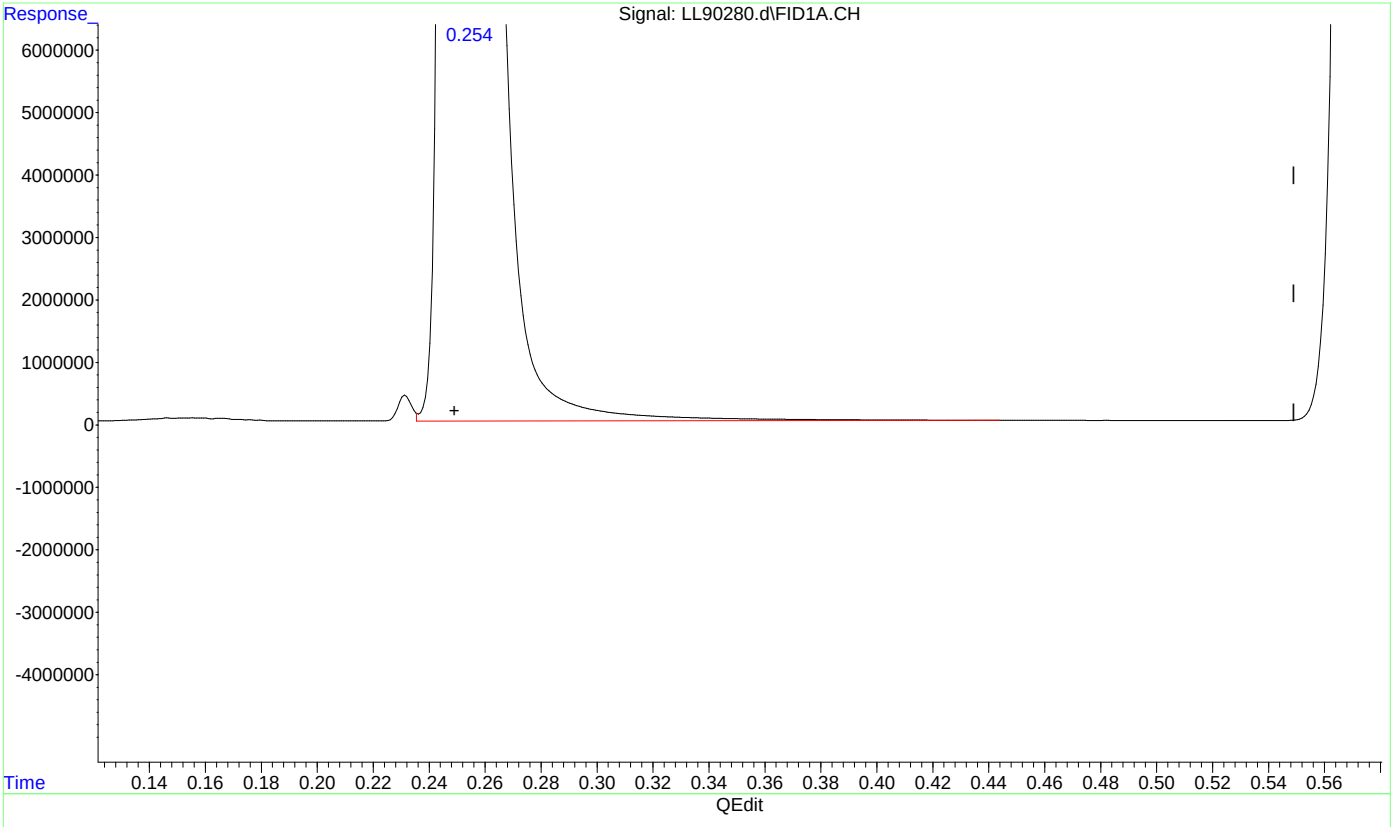
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:10 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 961.217 ppmv m

response 664214917

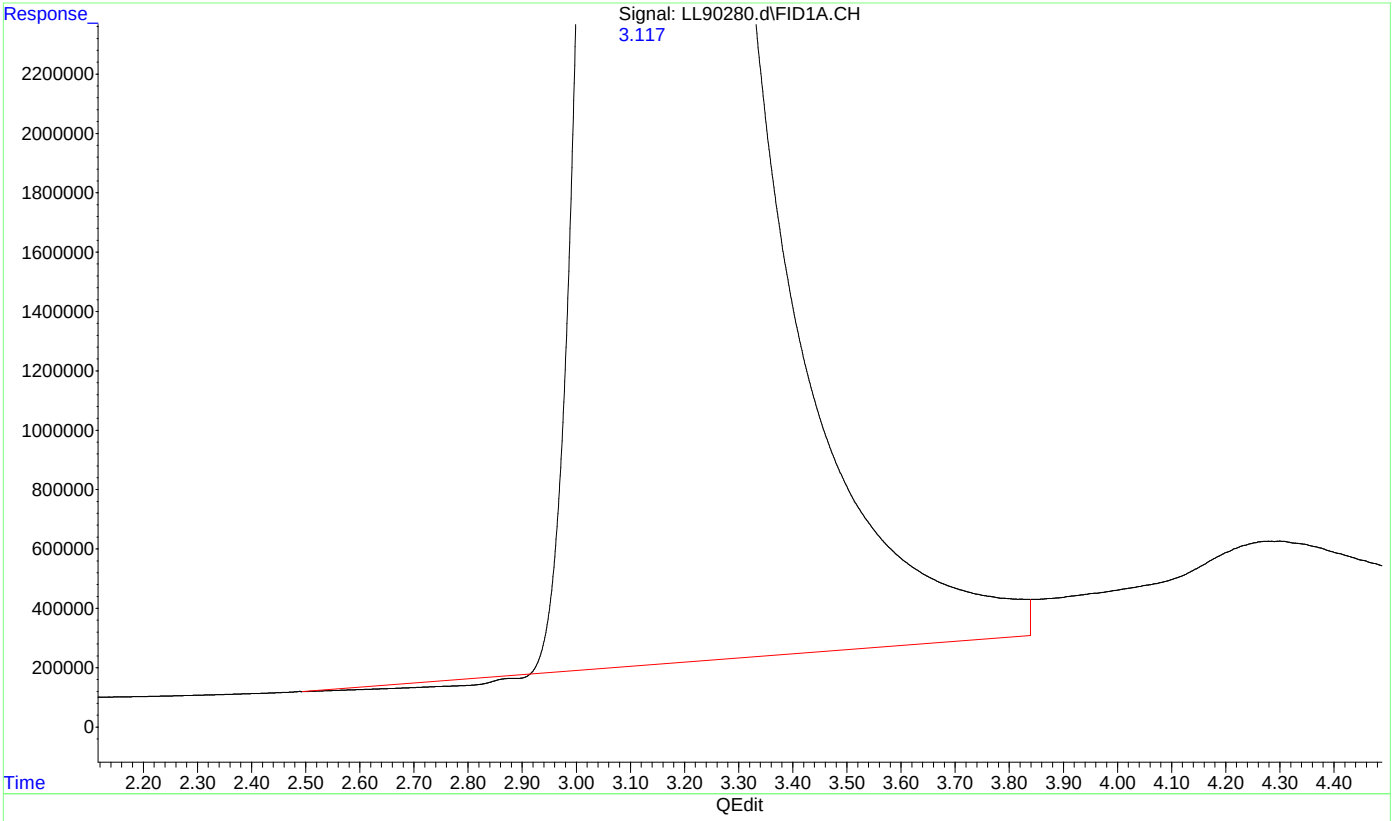
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 931.333 ppmv

response 1604645546

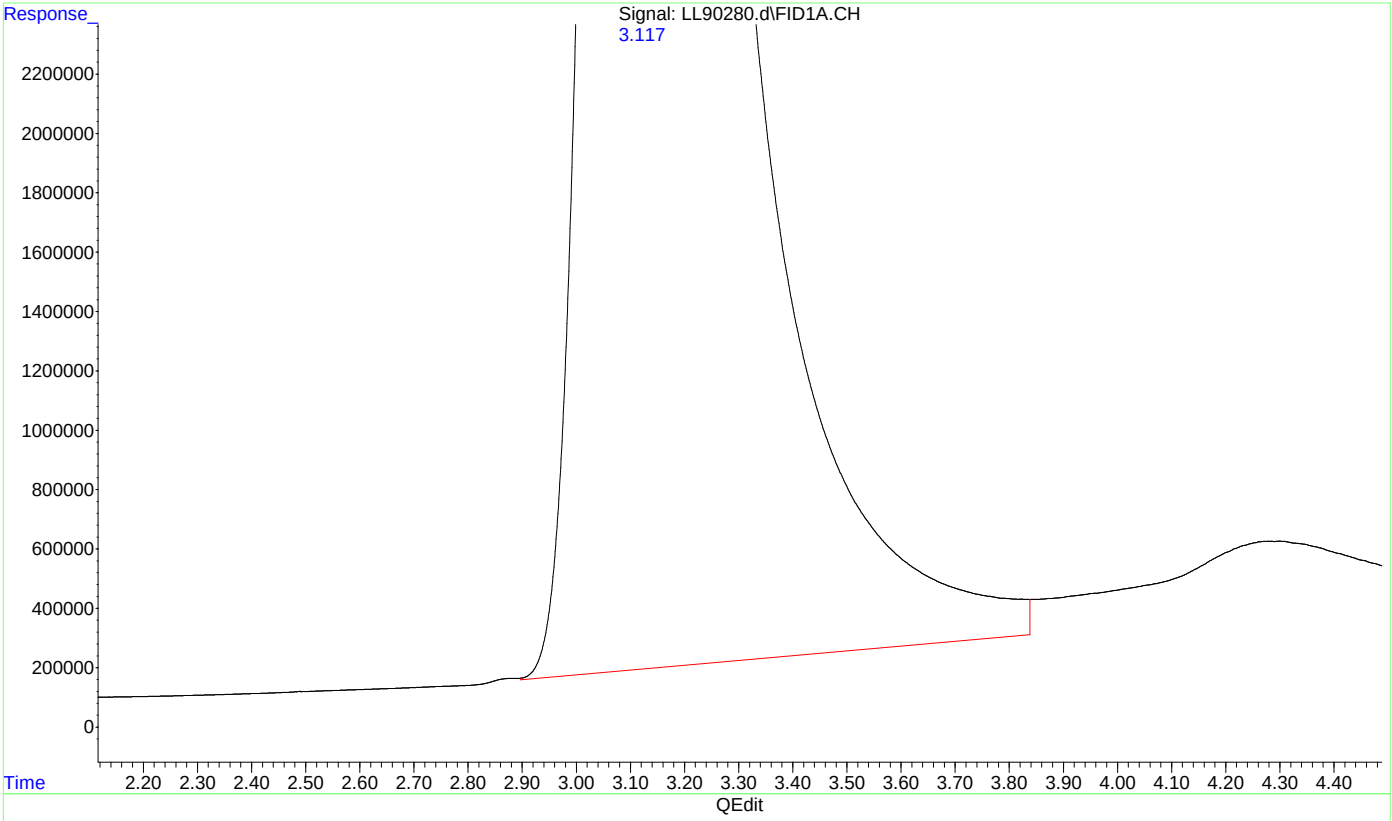
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:27 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 935.261 ppmv m

response 1611412016

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:32 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:13:01 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	680106833	984.215	ppmv	m
2)	Acetylene	0.575	1558353458	1004.707	ppmv	
3)	Ethylene	0.746	1191612344	1005.327	ppmv	
4)	Ethane	0.956	1219192790	983.401	ppmv	
5)	Propane	3.114	1634814449	948.843	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

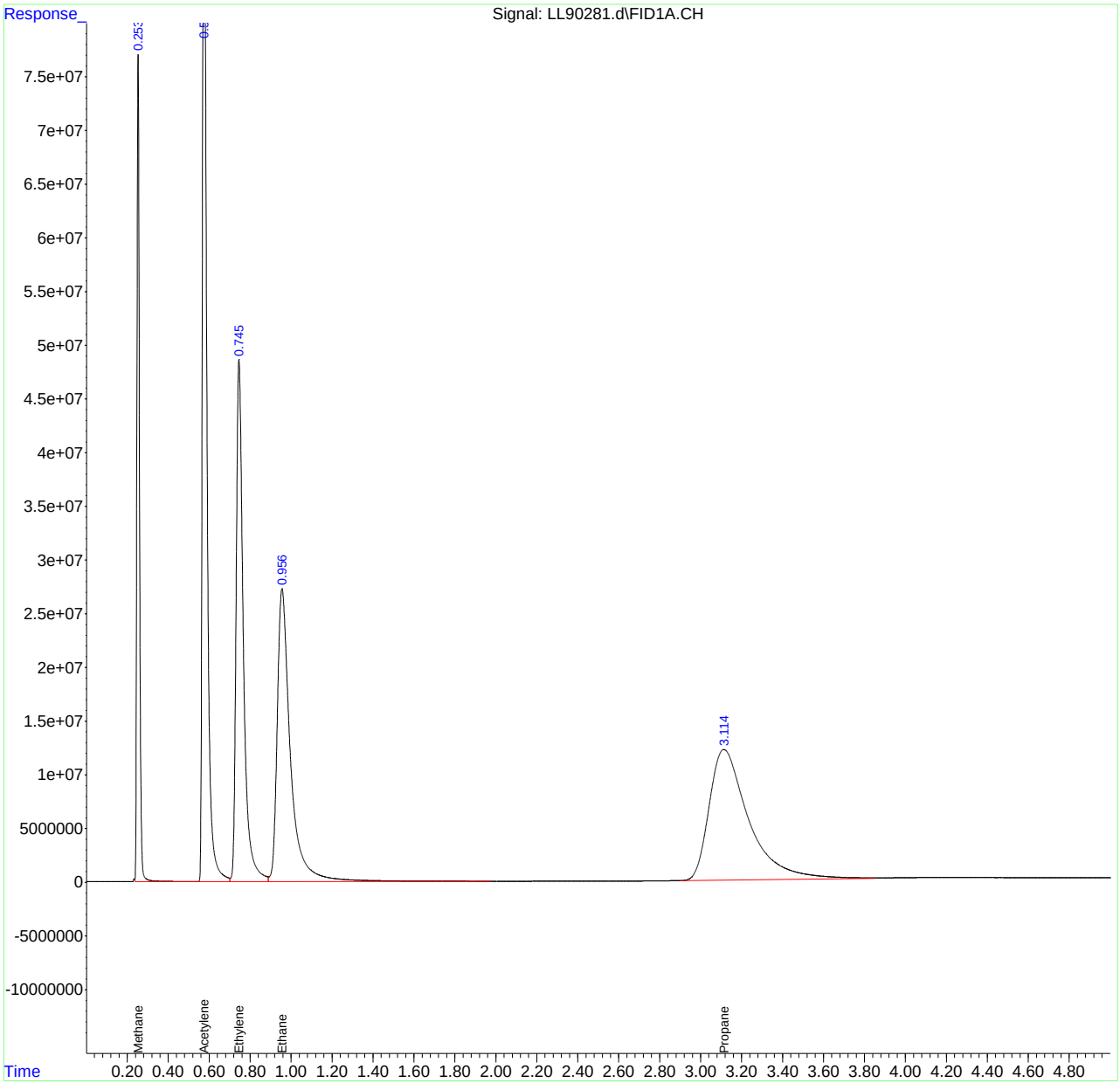
9.3.4
9

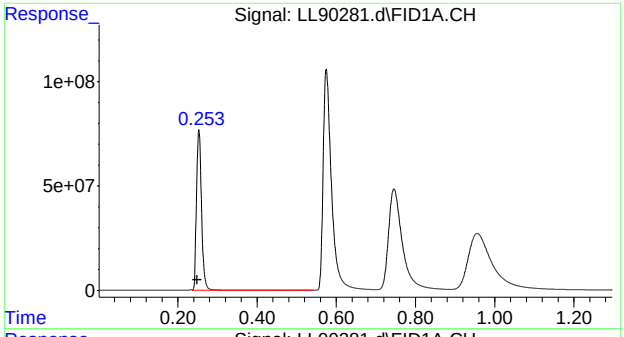
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:13:01 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

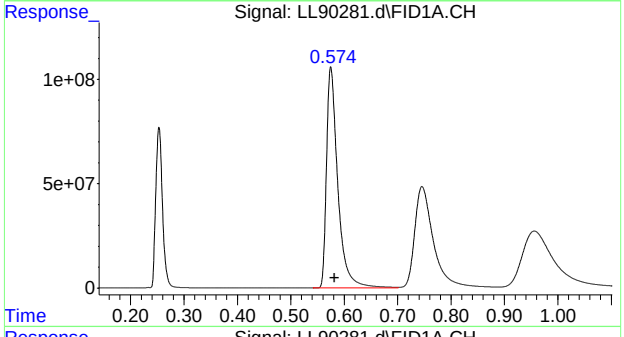
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





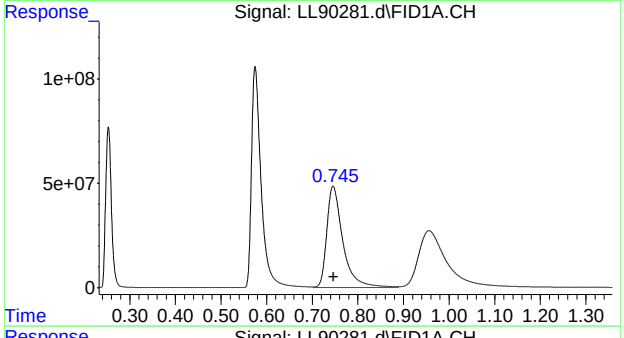
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 680106833
Conc: 984.22 ppmv m



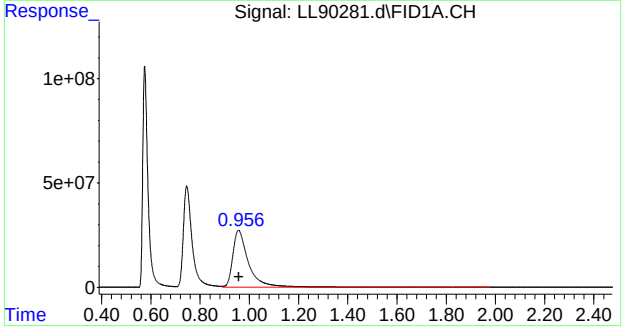
#2 Acetylene

R.T.: 0.575 min
Delta R.T.: -0.007 min
Response: 1558353458
Conc: 1004.71 ppmv



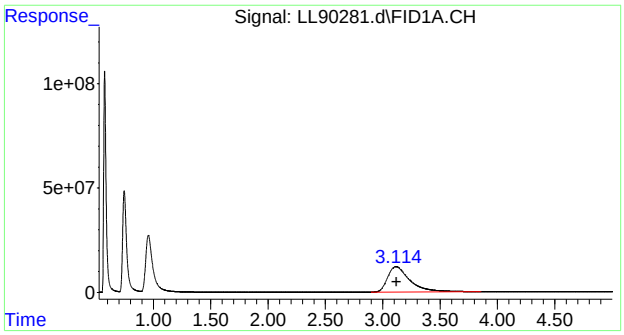
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1191612344
Conc: 1005.33 ppmv



#4 Ethane

R.T.: 0.956 min
Delta R.T.: 0.000 min
Response: 1219192790
Conc: 983.40 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 1634814449
Conc: 948.84 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-BSD
Lab FileID: LL90281.D
Injection Time: 06/27/24 09:03
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-BSD	**Sample Volume:**	38.0 ml
Lab FileID:	LL90281.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 09:03	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	984.22	38340	109	ug/l
Ethane	74-84-0	30	983.4	27080	221	ug/l
Ethene	74-85-1	28	1005.33	10440	303	ug/l
Acetylene	74-86-2	26	1004.71	12200	261	ug/l
Propane	74-98-6	44	948.84	32552	299	ug/l

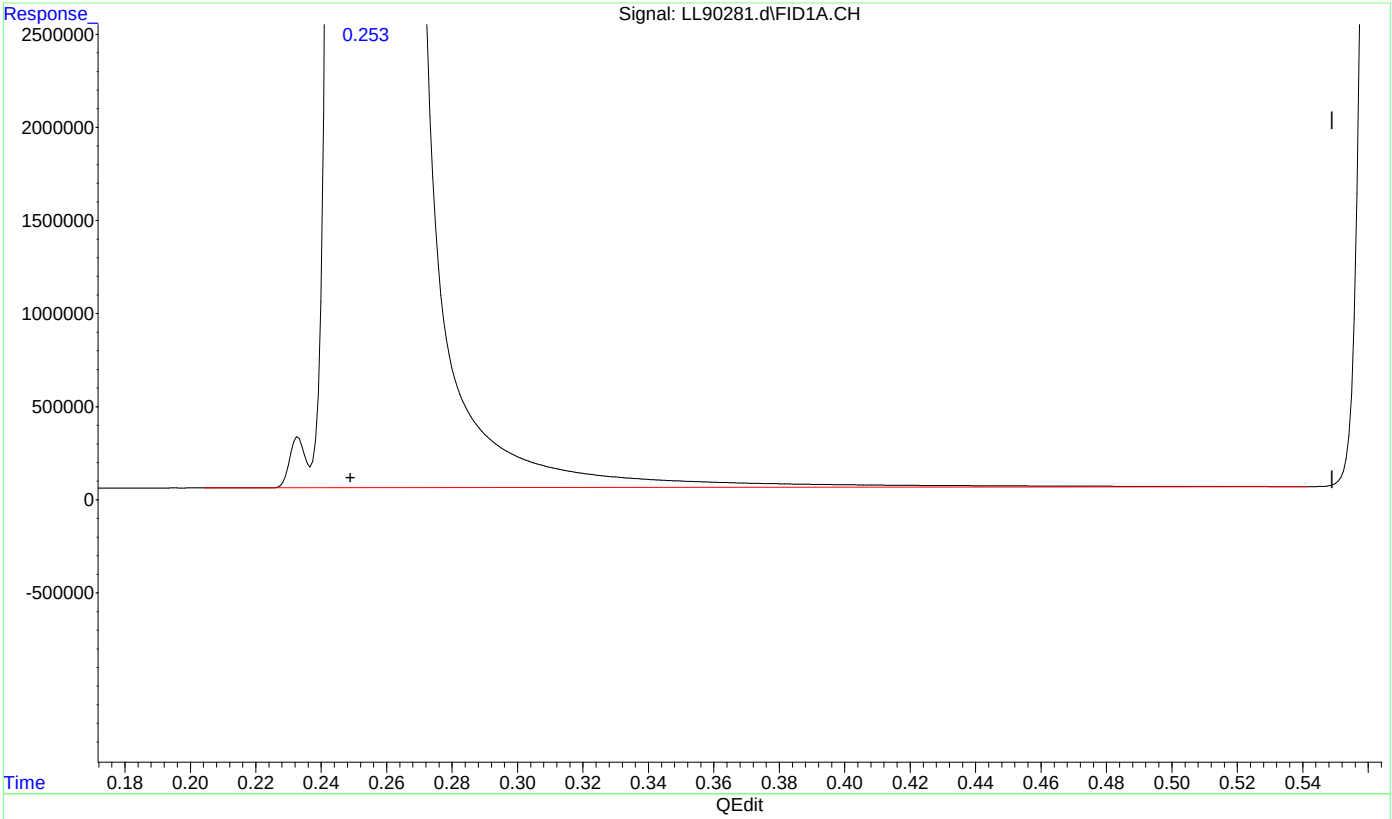
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 984.313 ppmv

response 680174018

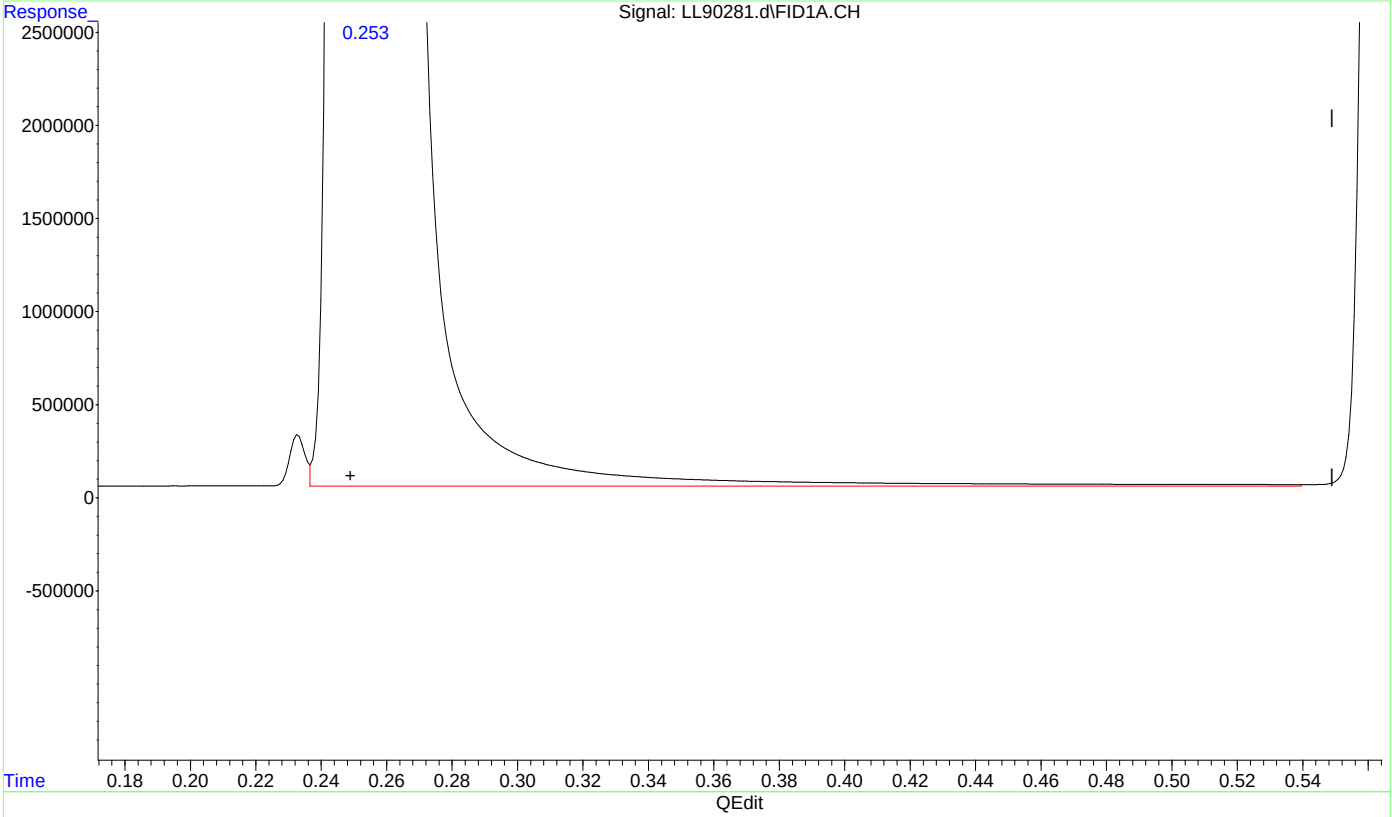
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:12:43 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 984.215 ppmv m

response 680106833

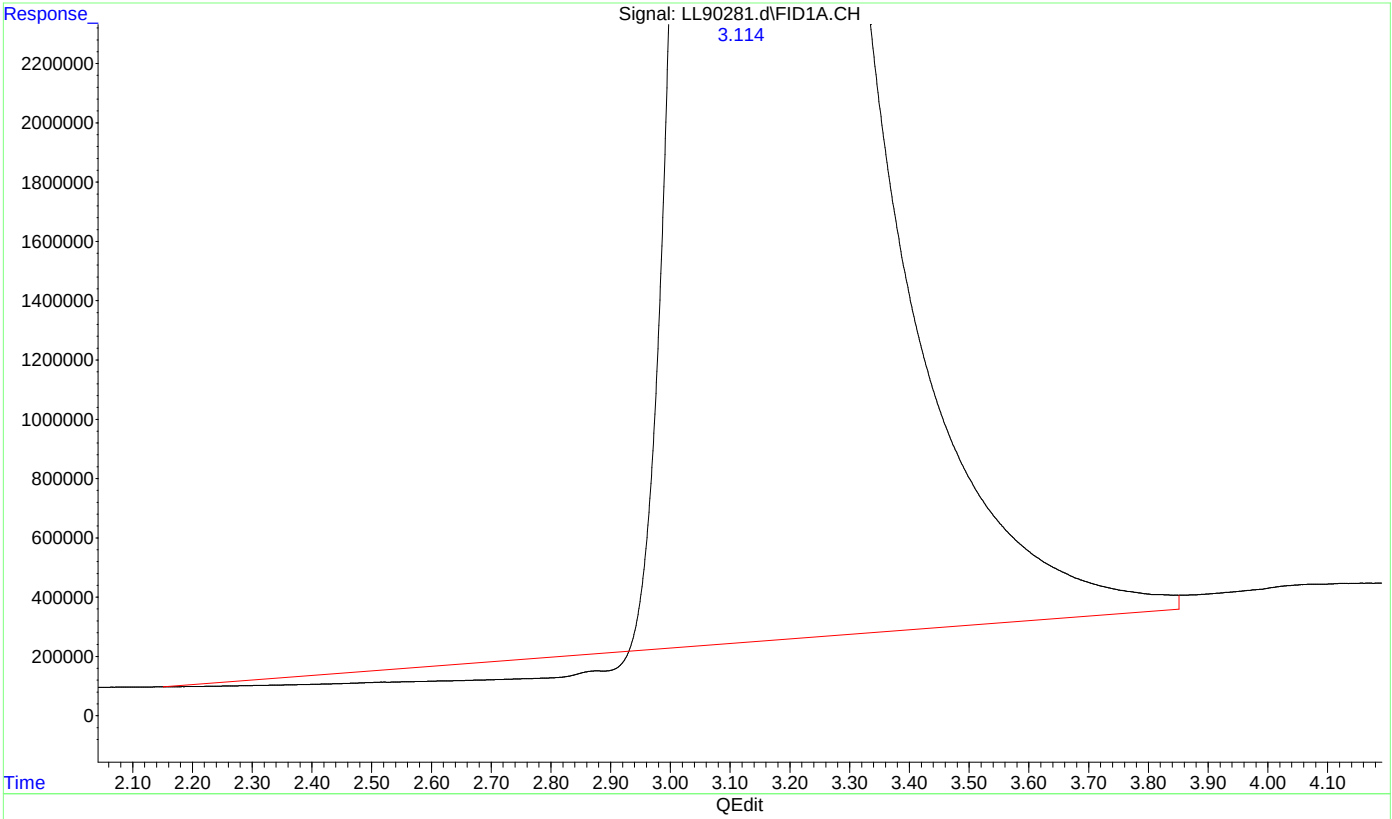
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:12:51 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 927.716 ppmv

response 1598413378

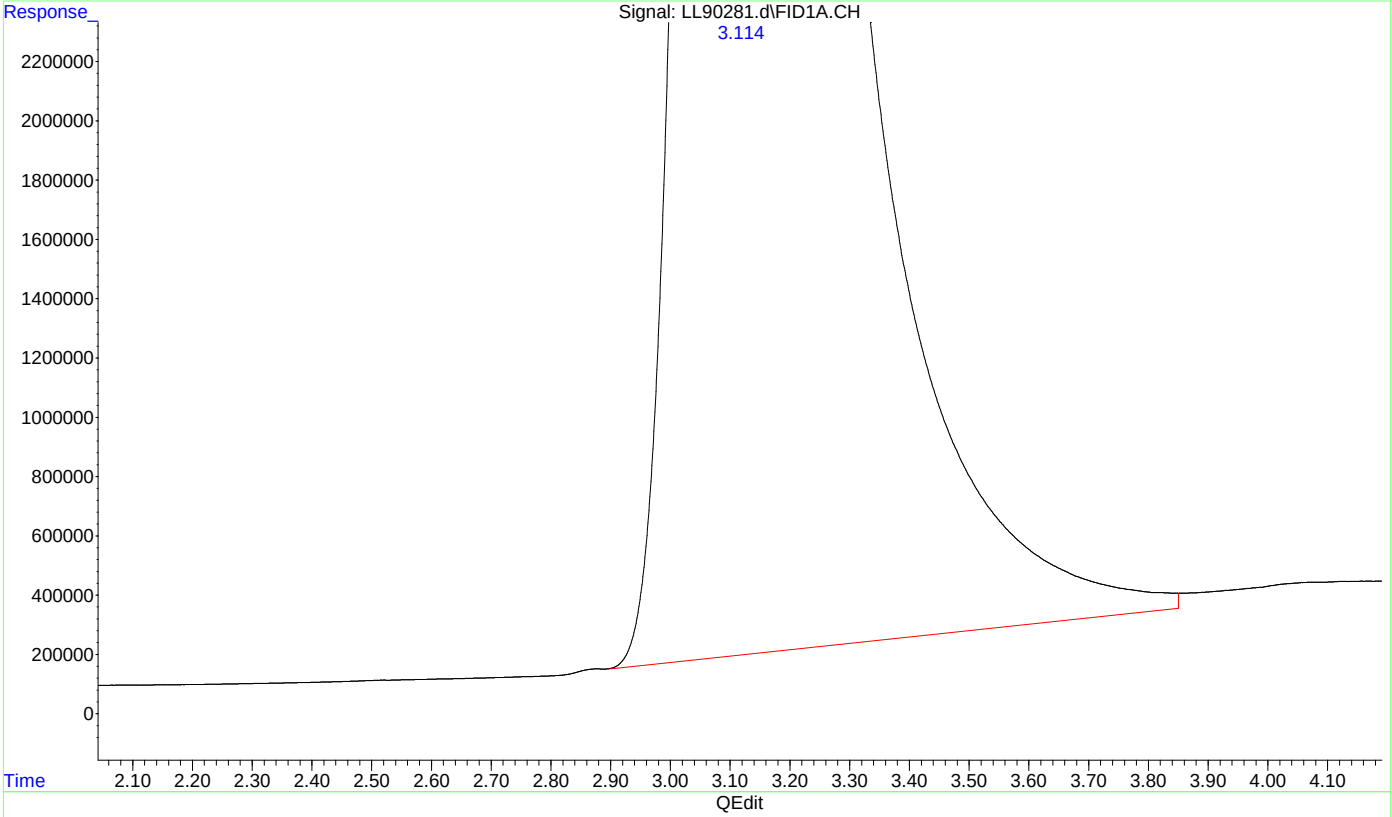
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:12:57 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 948.843 ppmv m

response 1634814449

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:13:02 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.255	637852546	923.067 ppmv m
2)	Acetylene	0.578	1433802377	924.406 ppmv
3)	Ethylene	0.748	1115965093	941.506 ppmv
4)	Ethane	0.958	1144887048	923.466 ppmv
5)	Propane	3.109	1551703096	900.606 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

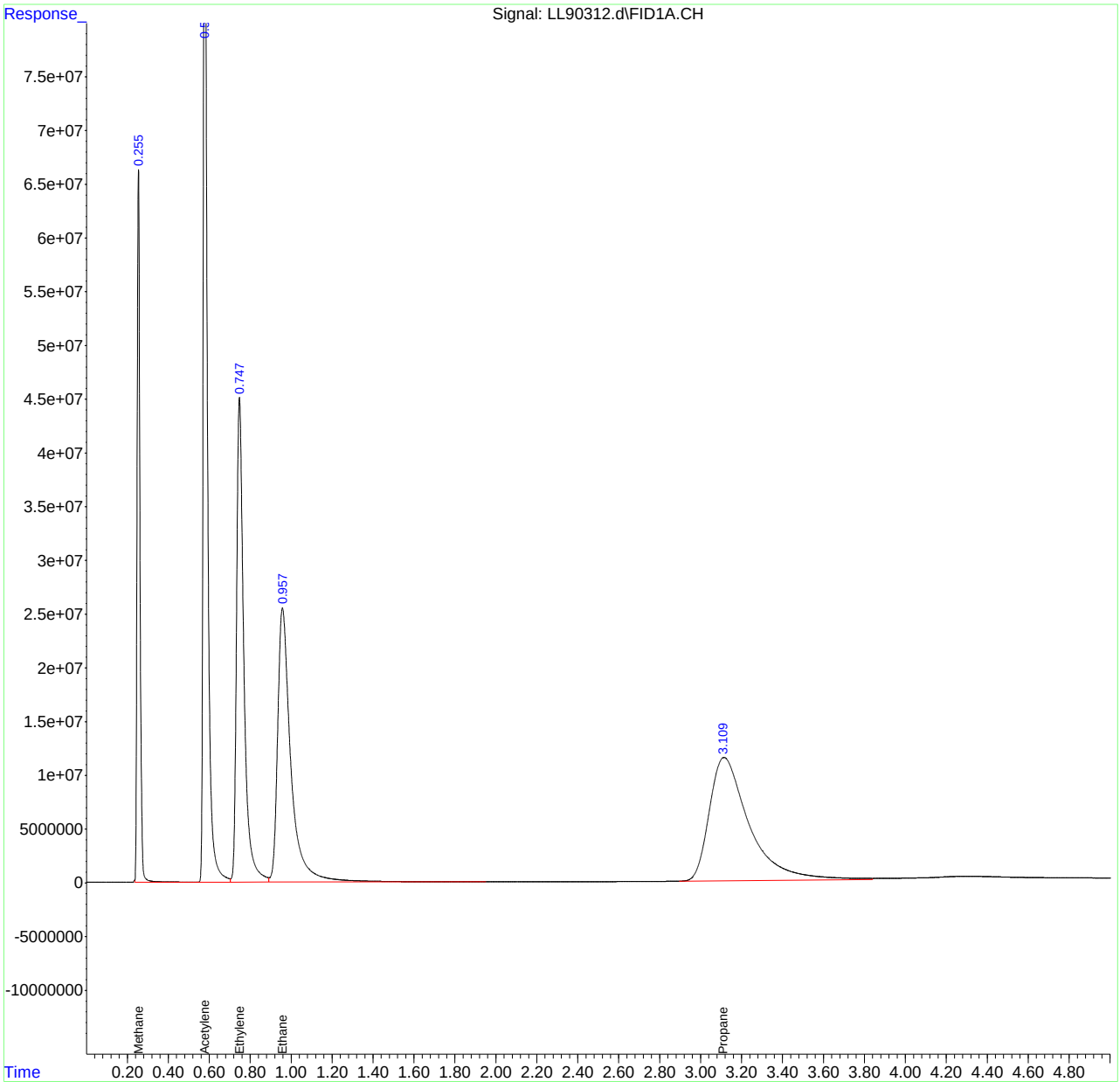
9.3.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-BS
Lab FileID: LL90312.D
Injection Time: 06/28/24 09:25
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-BS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90312.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 09:25	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	923.07	38340	102	ug/l
Ethane	74-84-0	30	923.47	27080	208	ug/l
Ethene	74-85-1	28	941.51	10440	284	ug/l
Acetylene	74-86-2	26	924.41	12200	240	ug/l
Propane	74-98-6	44	900.61	32552	284	ug/l

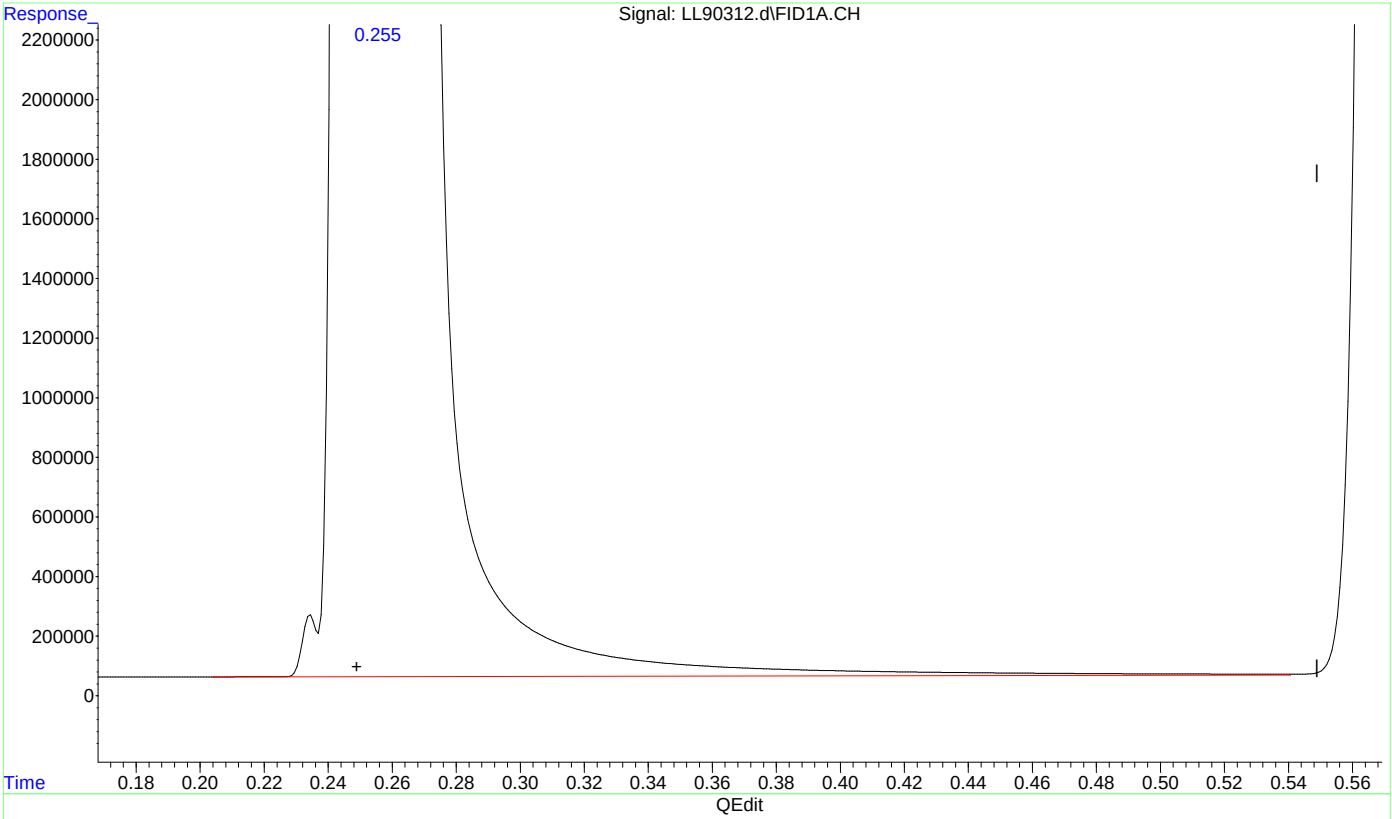
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.255min 923.637 ppmv

response 638246473

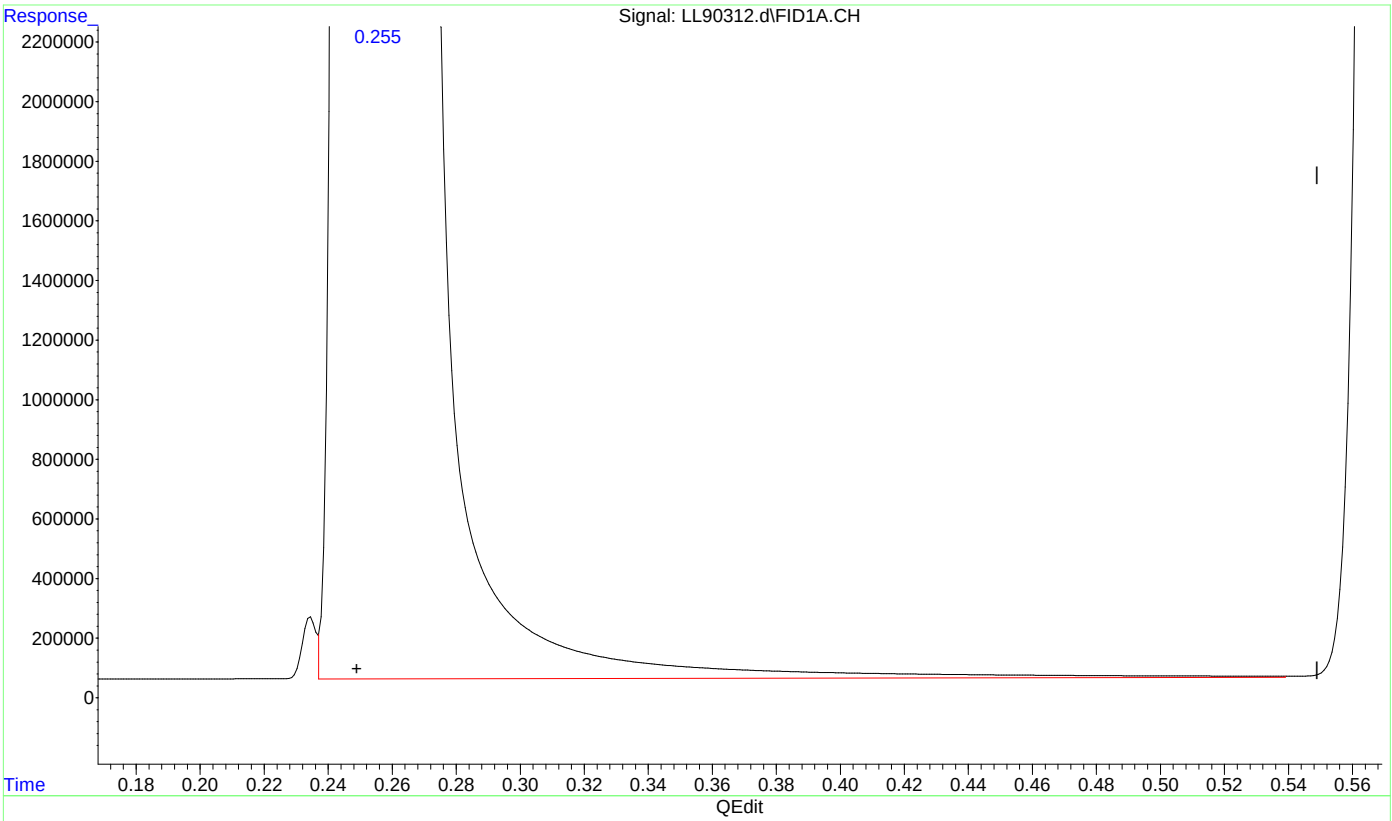
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:14 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.255min 923.067 ppmv m

response 637852546

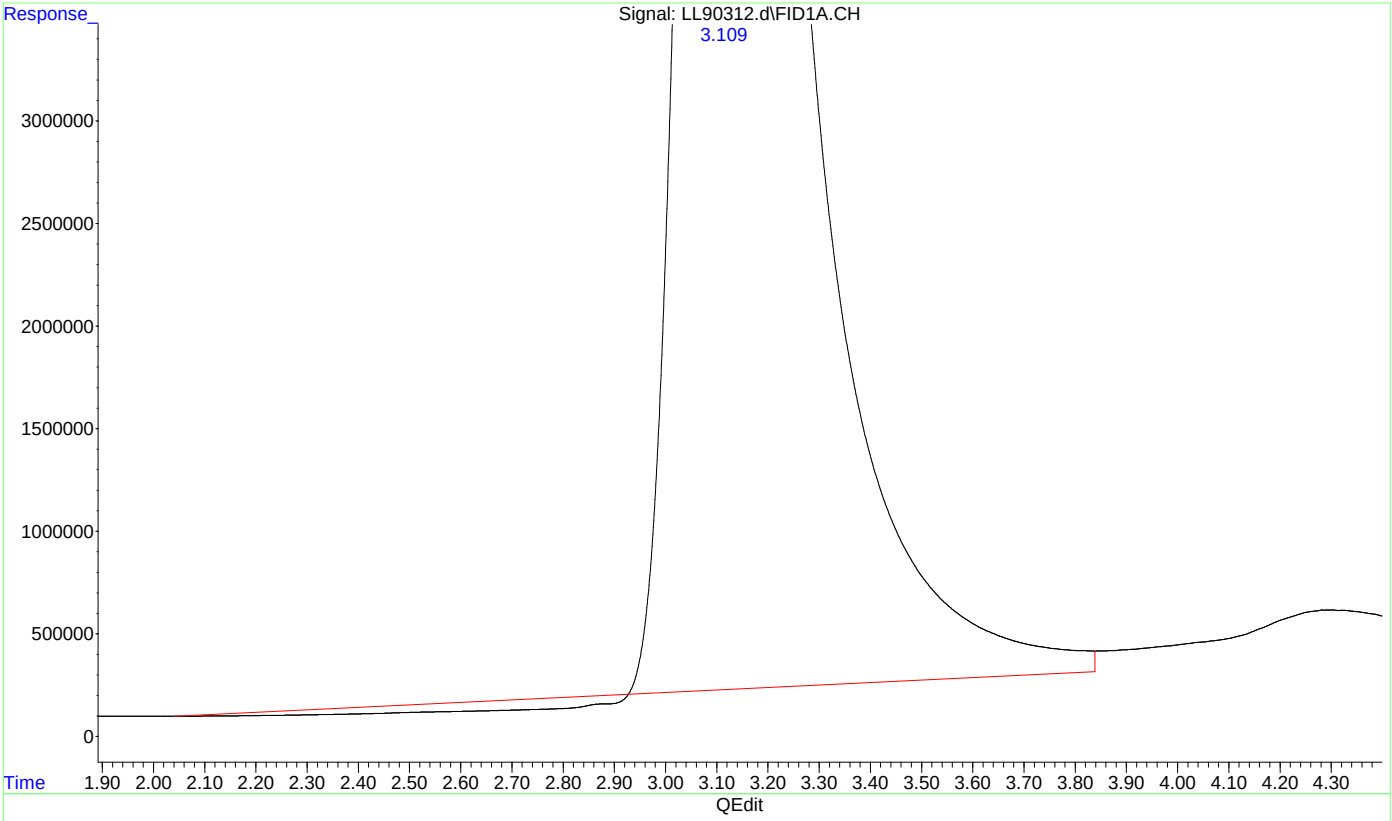
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:33 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 882.533 ppmv

response 1520565211

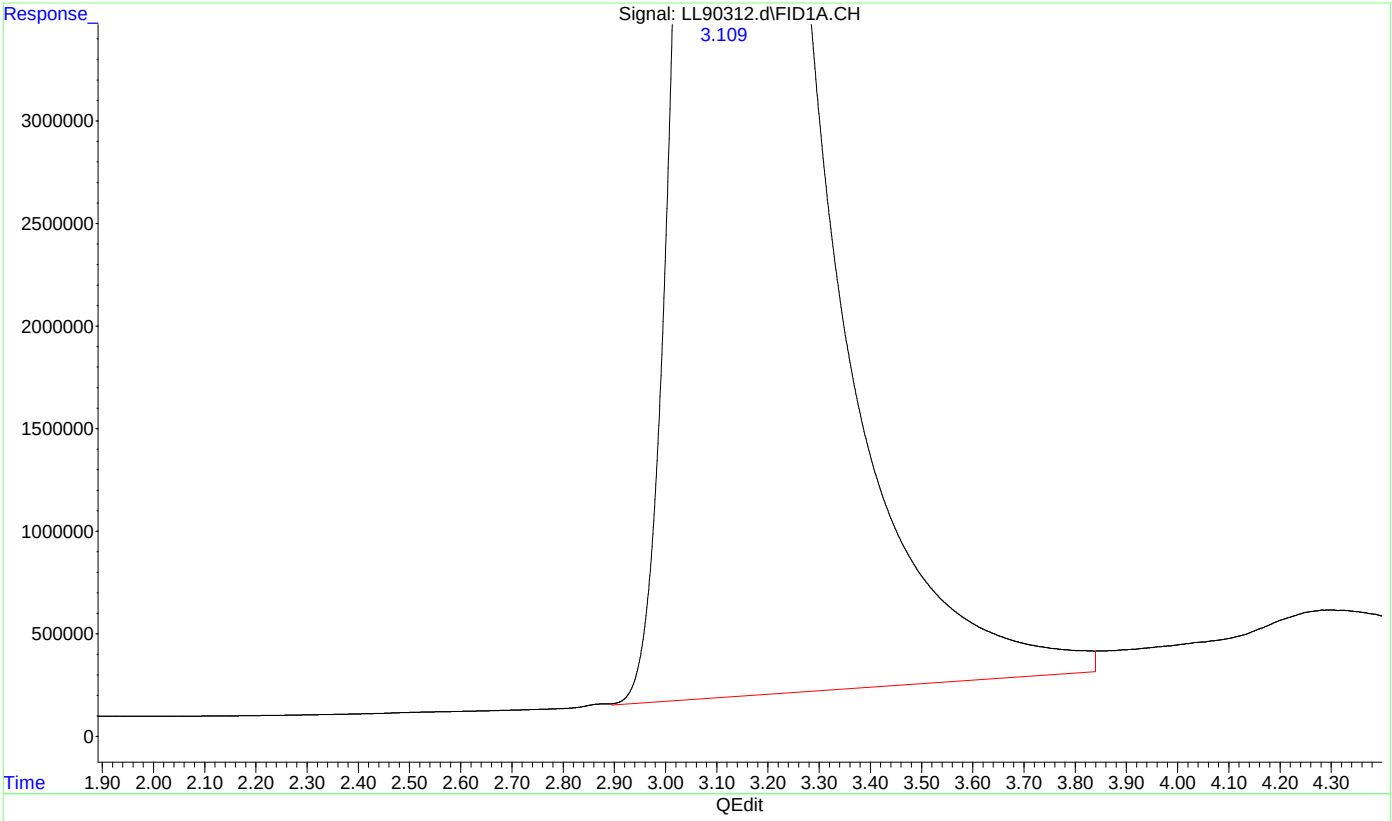
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:40 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.109min 900.606 ppmv m

response 1551703096

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:45 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:54 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	687405768	994.778	ppmv	m
2)	Acetylene	0.577	1565818701	1009.520	ppmv	
3)	Ethylene	0.748	1207414076	1018.659	ppmv	
4)	Ethane	0.958	1238894894	999.293	ppmv	
5)	Propane	3.112	1665042061	966.387	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

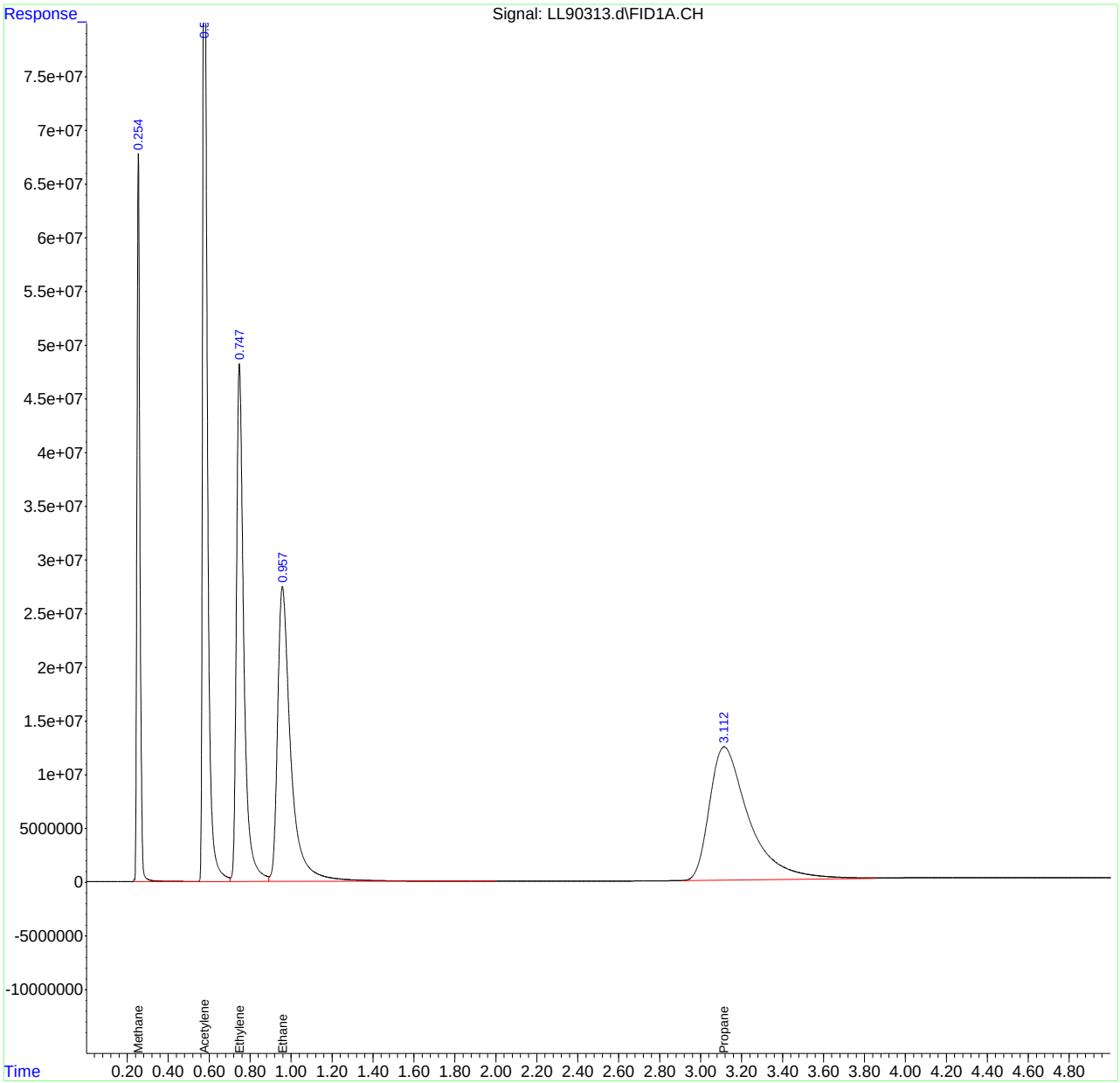
9.3.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:54 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-BSD
Lab FileID: LL90313.D
Injection Time: 06/28/24 09:36
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-BSD	**Sample Volume:**	38.0 ml
Lab FileID:	LL90313.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 09:36	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	994.78	38340	110	ug/l
Ethane	74-84-0	30	999.29	27080	225	ug/l
Ethene	74-85-1	28	1018.66	10440	307	ug/l
Acetylene	74-86-2	26	1009.52	12200	263	ug/l
Propane	74-98-6	44	966.39	32552	304	ug/l

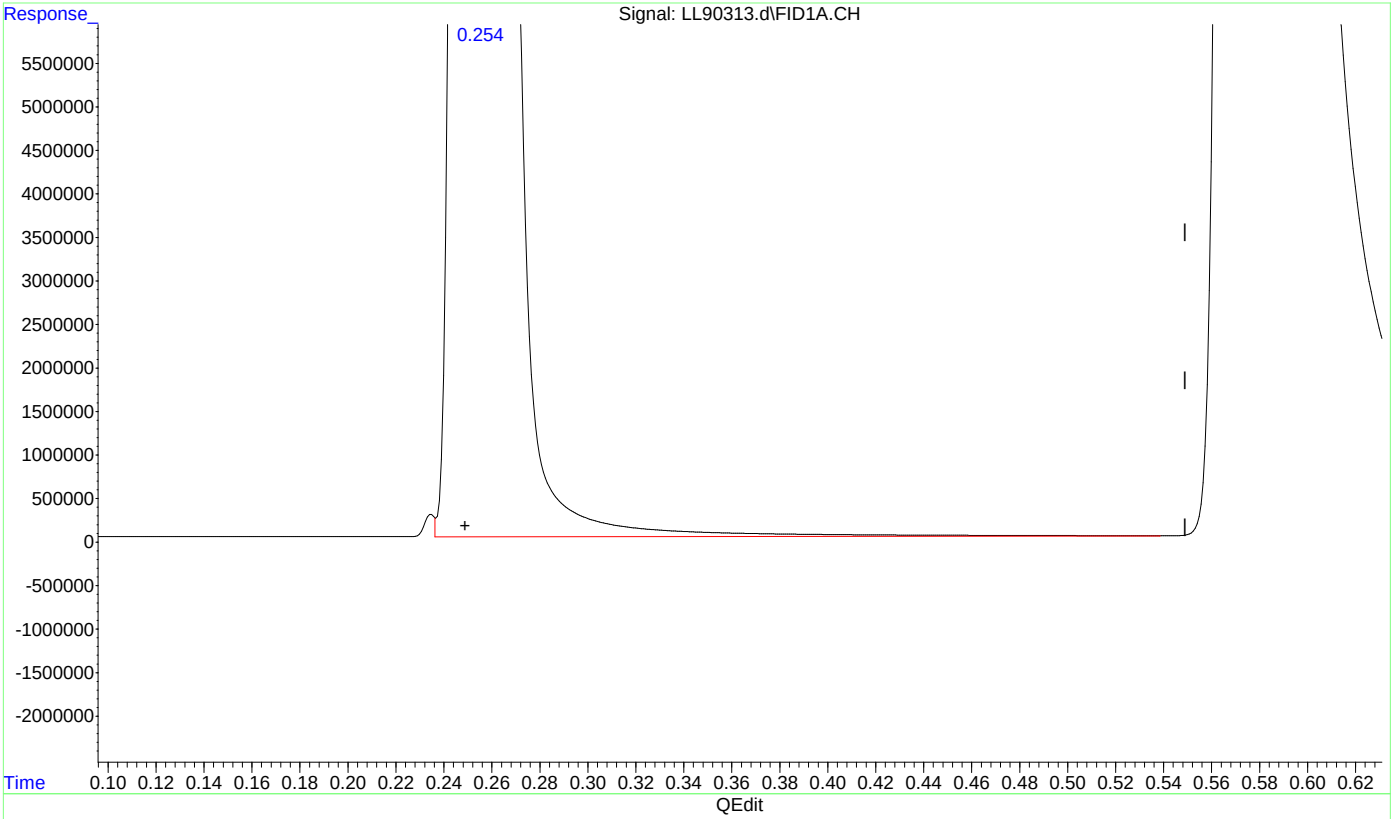
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 994.778 ppmv m

response 687405768

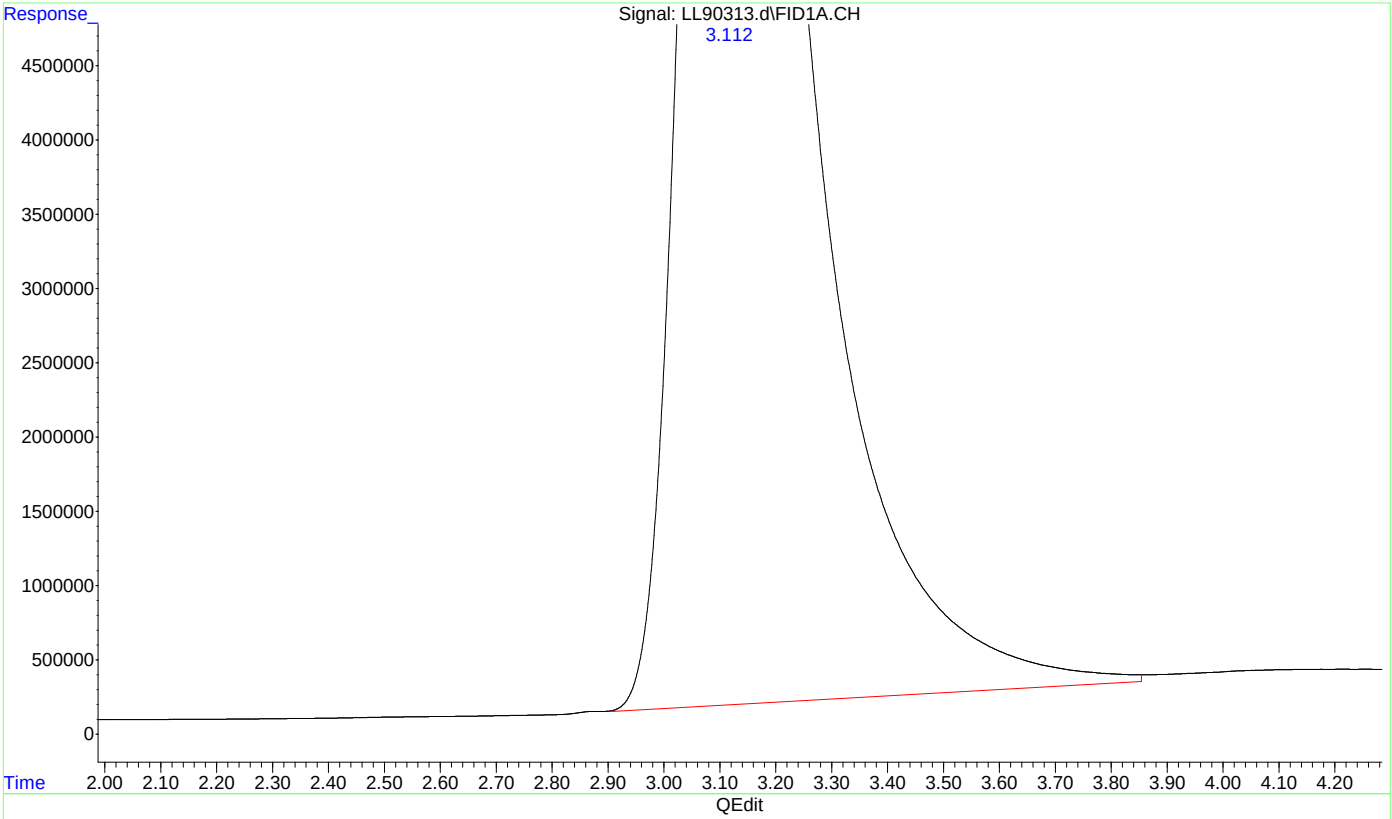
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:41:44 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.112min 966.387 ppmv m

response 1665042061

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:41:55 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90259.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:10:21
Operator : jennr
Sample : fc16559-3ms, 20x
Misc : gc24883,gll3143,38,21,500,5,20
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:20:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.254	2925739172	4233.978	ppmv
2)	Acetylene	0.578	1491200476	961.412	ppmv
3)	Ethylene	0.747	1139715795	961.544	ppmv
4)	Ethane	0.958	1140818669	920.185	ppmv
5)	Propane	3.114	1565006877	908.327	ppmv

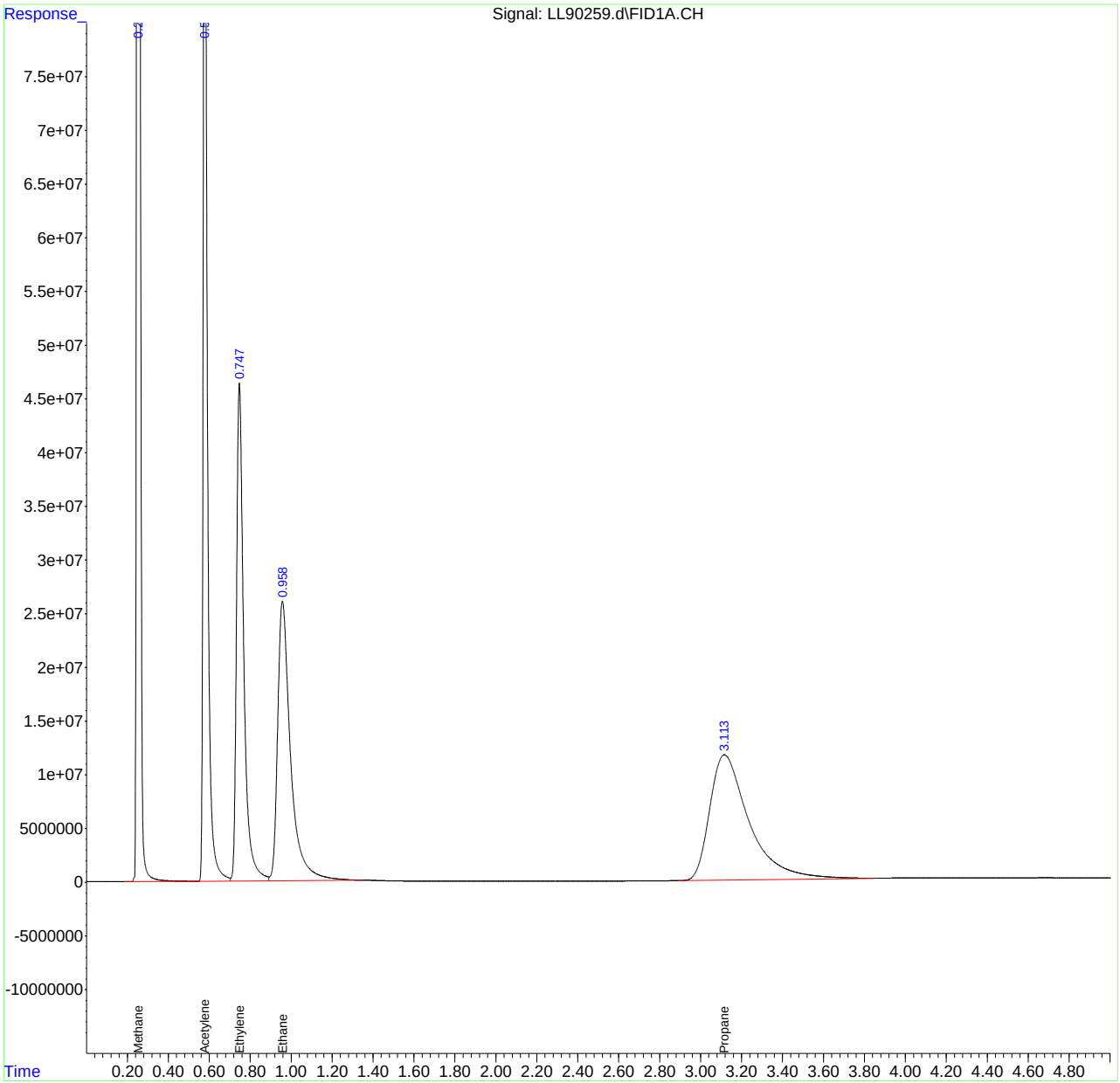
(f)=RT Delta > 1/2 Window (m)=manual int.

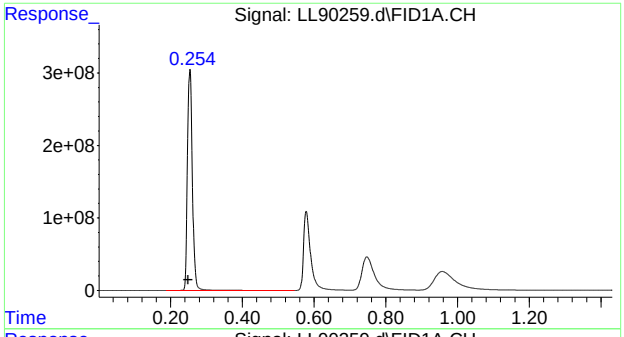
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90259.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:10:21
Operator : jennr
Sample : fc16559-3ms, 20x
Misc : gc24883,gll3143,38,21,500,5,20
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:20:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

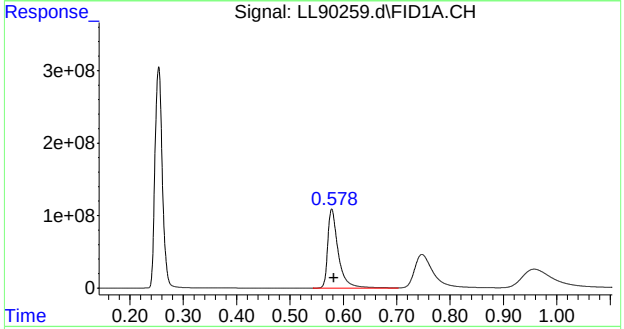
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





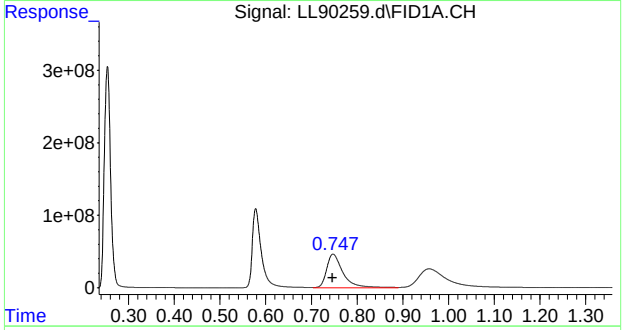
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 2925739172
Conc: 4233.98 ppmv



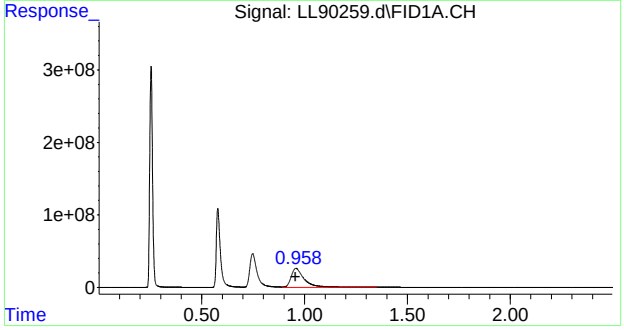
#2 Acetylene

R.T.: 0.578 min
Delta R.T.: -0.003 min
Response: 1491200476
Conc: 961.41 ppmv



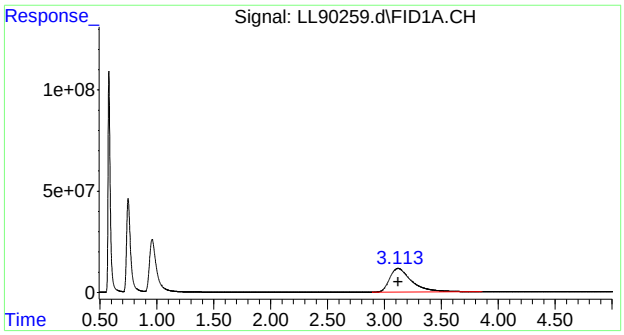
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.001 min
Response: 1139715795
Conc: 961.54 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.001 min
Response: 1140818669
Conc: 920.18 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 1565006877
Conc: 908.33 ppmv

Dissolved Gases Raw Data Summary

Sample Number:	FC16559-3MS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90259.D	**Headspace:**	5.0 ml
Injection Time:	06/26/24 11:10	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	4233.98	38340	9350	ug/l
Ethane	74-84-0	30	920.18	27080	4140	ug/l
Ethene	74-85-1	28	961.54	10440	5800	ug/l
Acetylene	74-86-2	26	961.41	12200	5000	ug/l
Propane	74-98-6	44	908.33	32552	5720	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:49 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.253	669225109	968.468	ppmv
2)	Acetylene	0.575	1529432248	986.061	ppmv
3)	Ethylene	0.746	1173907012	990.390	ppmv
4)	Ethane	0.956	1202248827	969.734	ppmv
5)	Propane	3.114	1610505122	934.734	ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

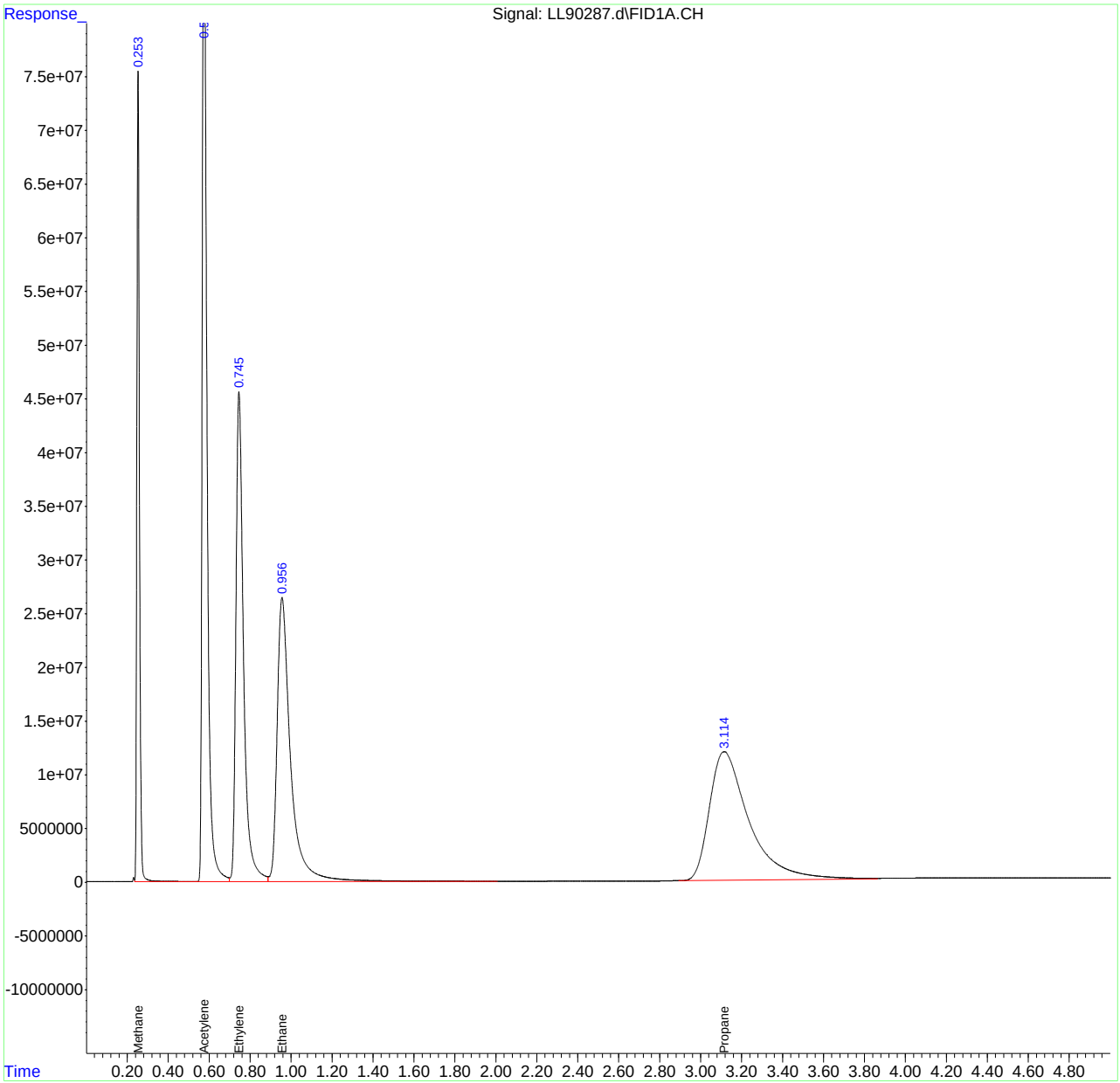
9.4.2
9

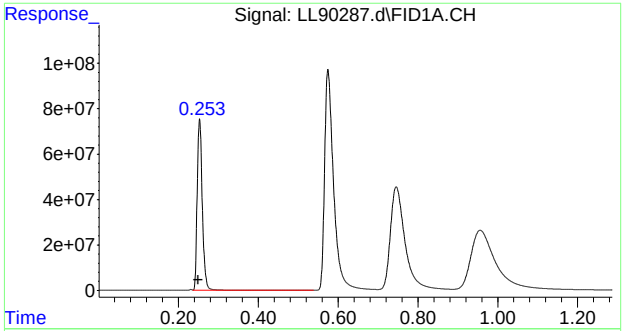
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:49 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

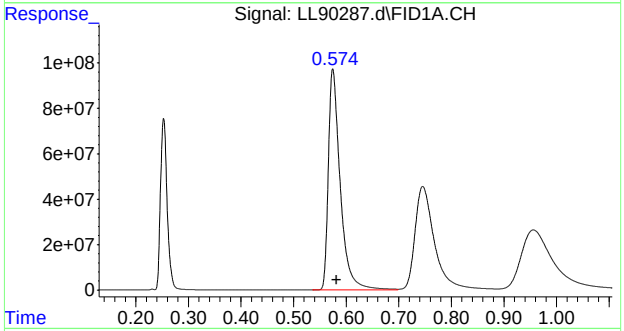
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





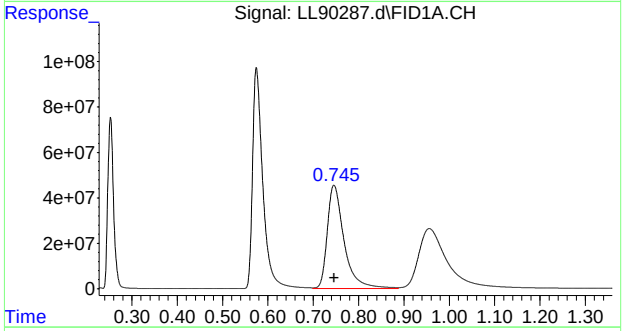
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 669225109
Conc: 968.47 ppmv



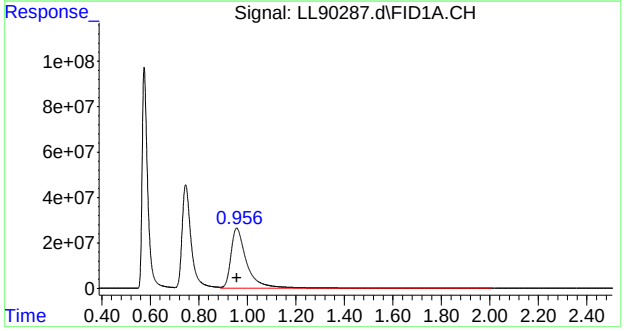
#2 Acetylene

R.T.: 0.575 min
Delta R.T.: -0.007 min
Response: 1529432248
Conc: 986.06 ppmv



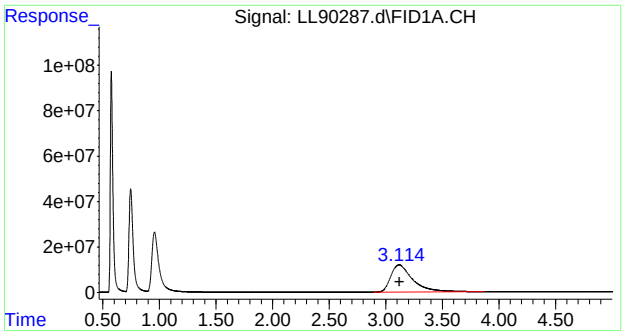
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1173907012
Conc: 990.39 ppmv



#4 Ethane

R.T.: 0.956 min
Delta R.T.: 0.000 min
Response: 1202248827
Conc: 969.73 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.007 min
Response: 1610505122
Conc: 934.73 ppmv m

Manual Integration Approval Summary

Sample Number: FC16561-5MS
Lab FileID: LL90287.D
Injection Time: 06/27/24 10:43
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-5MS	**Sample Volume:**	39.0 ml
Lab FileID:	LL90287.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:43	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	968.47	38340	105	ug/l
Ethane	74-84-0	30	969.73	27080	214	ug/l
Ethene	74-85-1	28	990.39	10440	295	ug/l
Acetylene	74-86-2	26	986.06	12200	253	ug/l
Propane	74-98-6	44	934.73	32552	289	ug/l

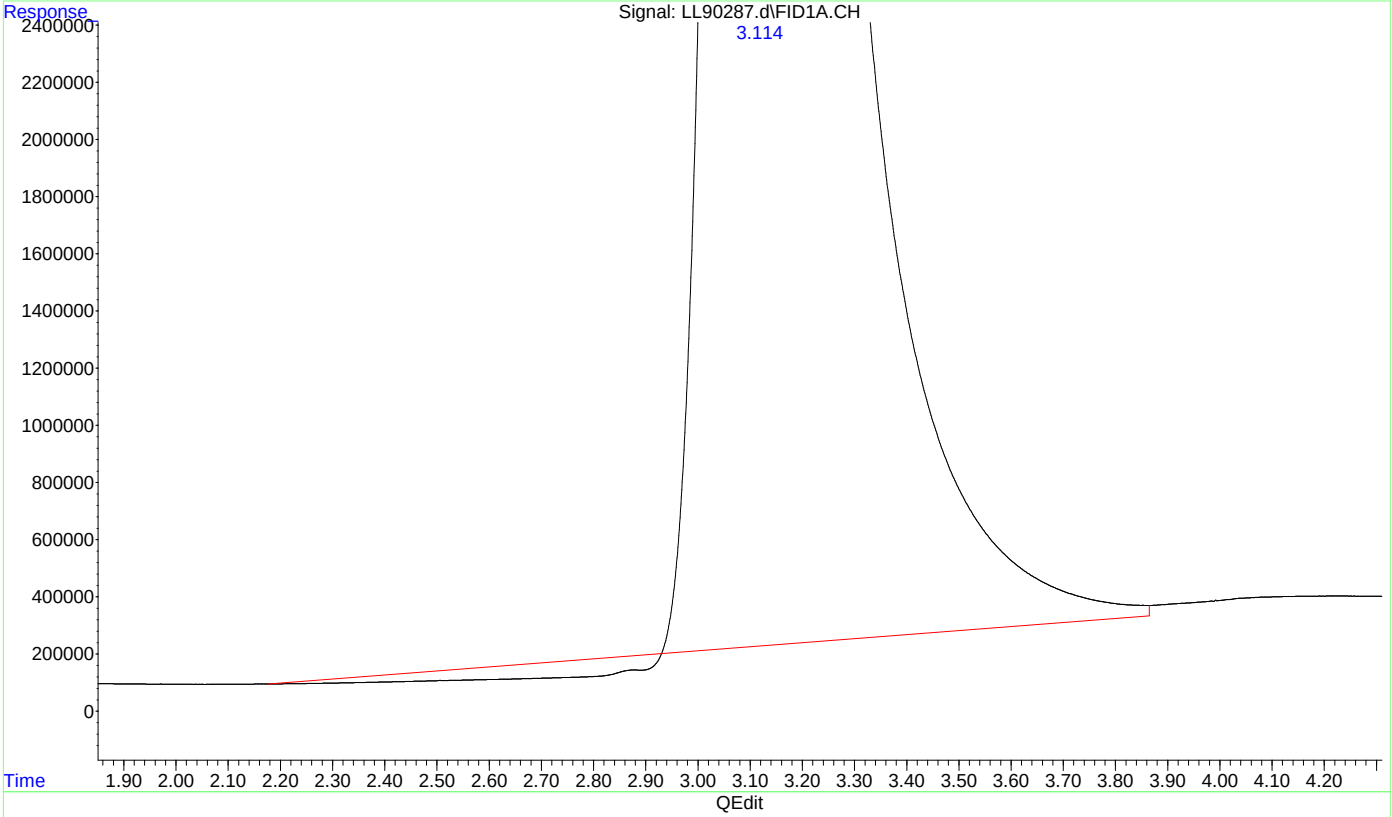
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 914.868 ppmv

response 1576276614

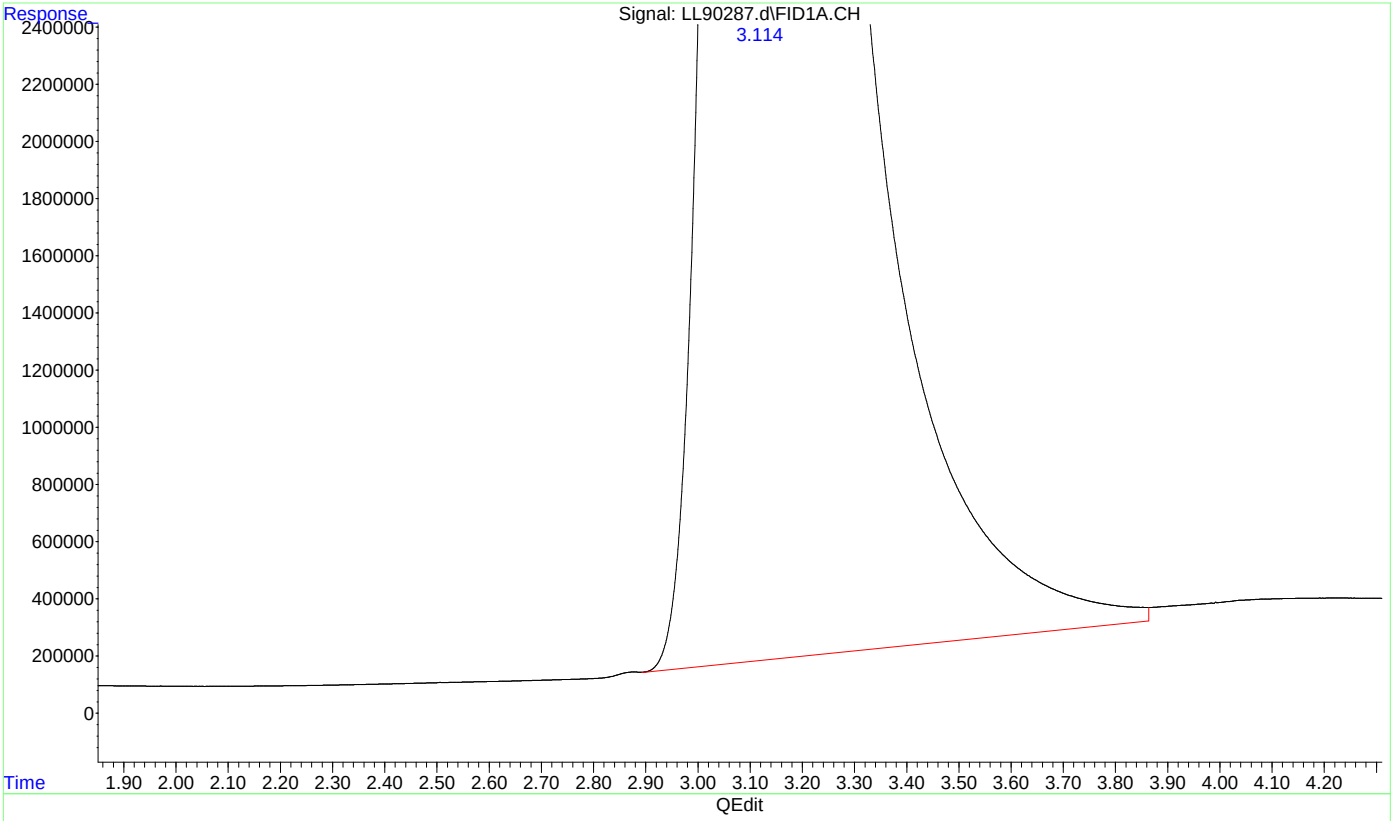
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:50:46 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 934.734 ppmv m

response 1610505122

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:50:50 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,39,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.255	659467915	954.348 ppmv
2)	Acetylene	0.576	1482242736	955.637 ppmv
3)	Ethylene	0.747	1141844694	963.340 ppmv
4)	Ethane	0.957	1169366312	943.211 ppmv
5)	Propane	3.113	1572303723	912.562 ppmv m

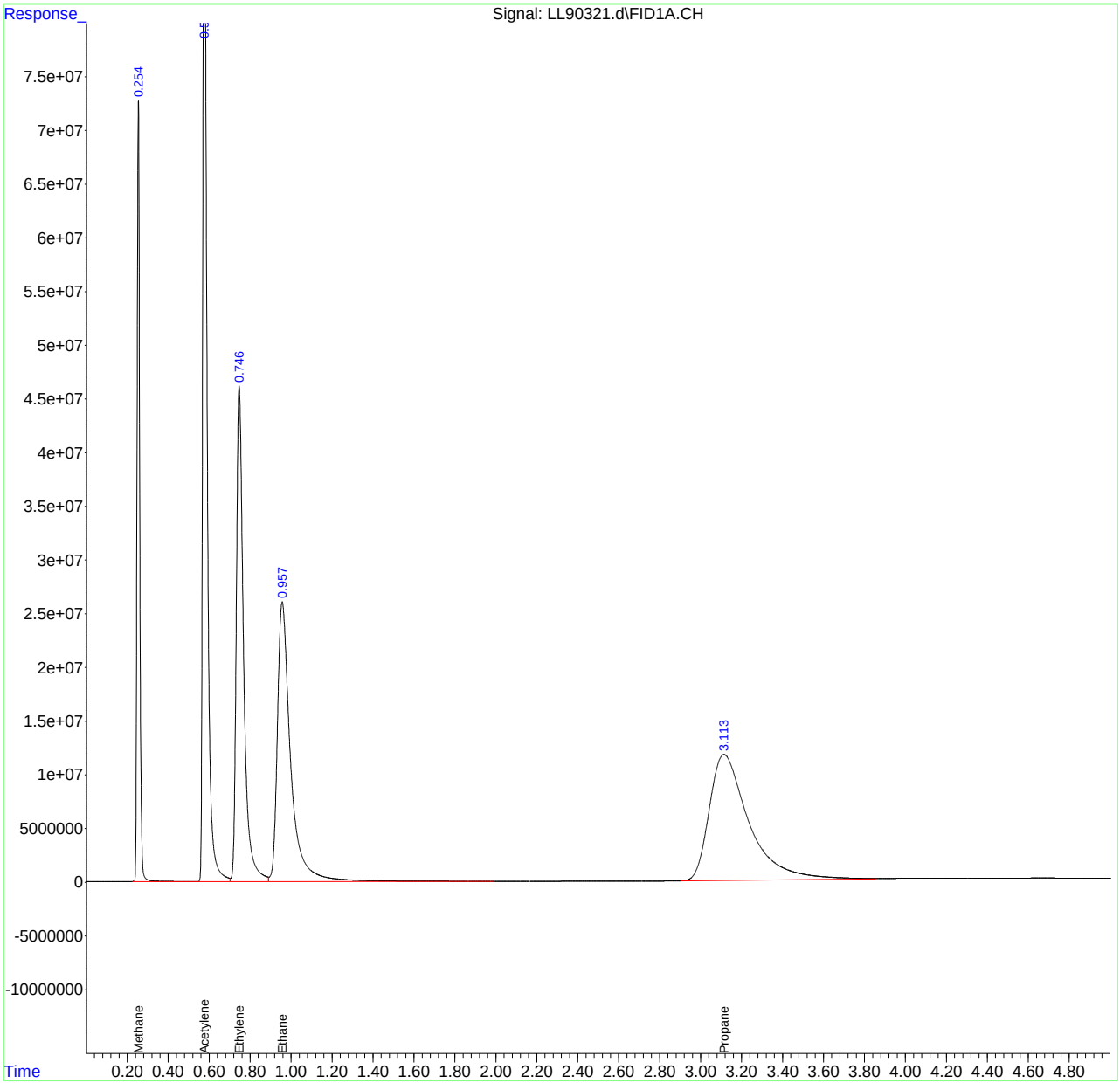
(f)=RT Delta > 1/2 Window (m)=manual int.

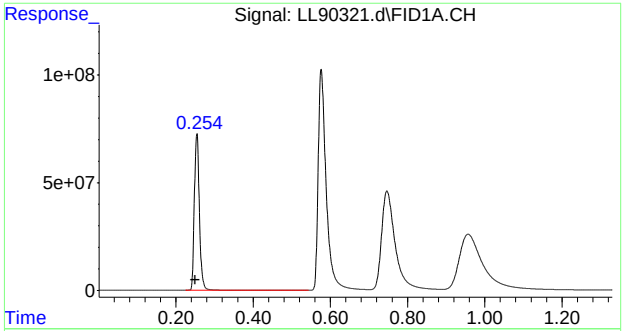
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,39,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

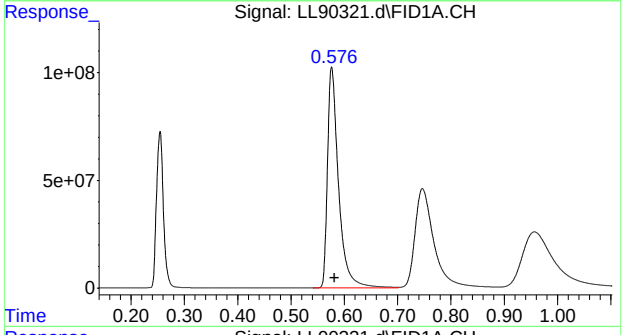
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





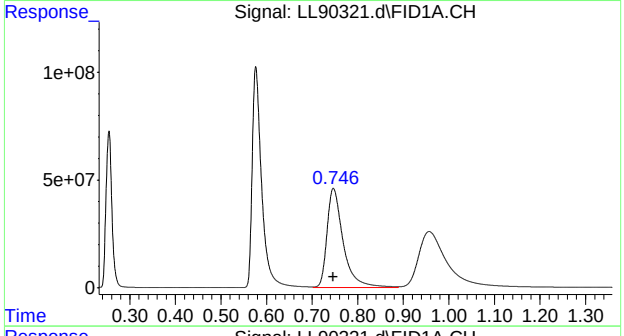
#1 Methane

R.T.: 0.255 min
Delta R.T.: 0.006 min
Response: 659467915
Conc: 954.35 ppmv



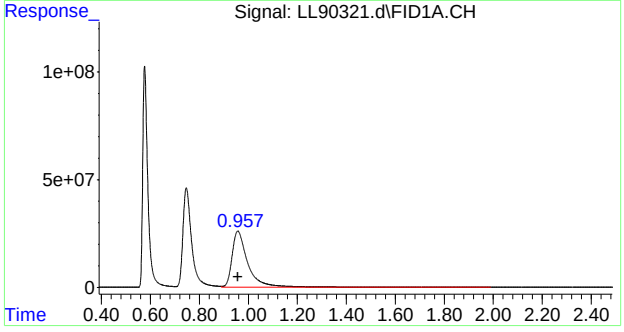
#2 Acetylene

R.T.: 0.576 min
Delta R.T.: -0.005 min
Response: 1482242736
Conc: 955.64 ppmv



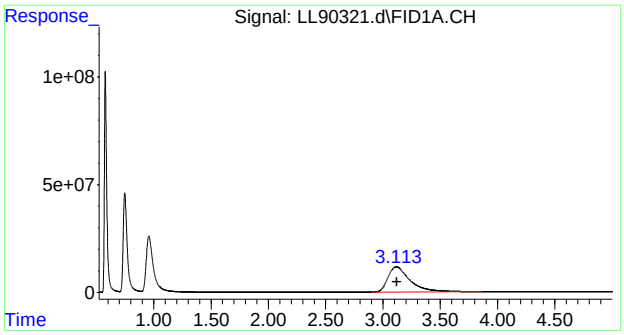
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.000 min
Response: 1141844694
Conc: 963.34 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1169366312
Conc: 943.21 ppmv



#5 Propane

R.T.: 3.113 min
Delta R.T.: -0.008 min
Response: 1572303723
Conc: 912.56 ppmv m

Manual Integration Approval Summary

Sample Number: FC16768-1MS
Lab FileID: LL90321.D
Injection Time: 06/28/24 11:25
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16768-1MS	**Sample Volume:**	39.0 ml
Lab FileID:	LL90321.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 11:25	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	954.35	38340	103	ug/l
Ethane	74-84-0	30	943.21	27080	208	ug/l
Ethene	74-85-1	28	963.34	10440	287	ug/l
Acetylene	74-86-2	26	955.64	12200	245	ug/l
Propane	74-98-6	44	912.56	32552	282	ug/l

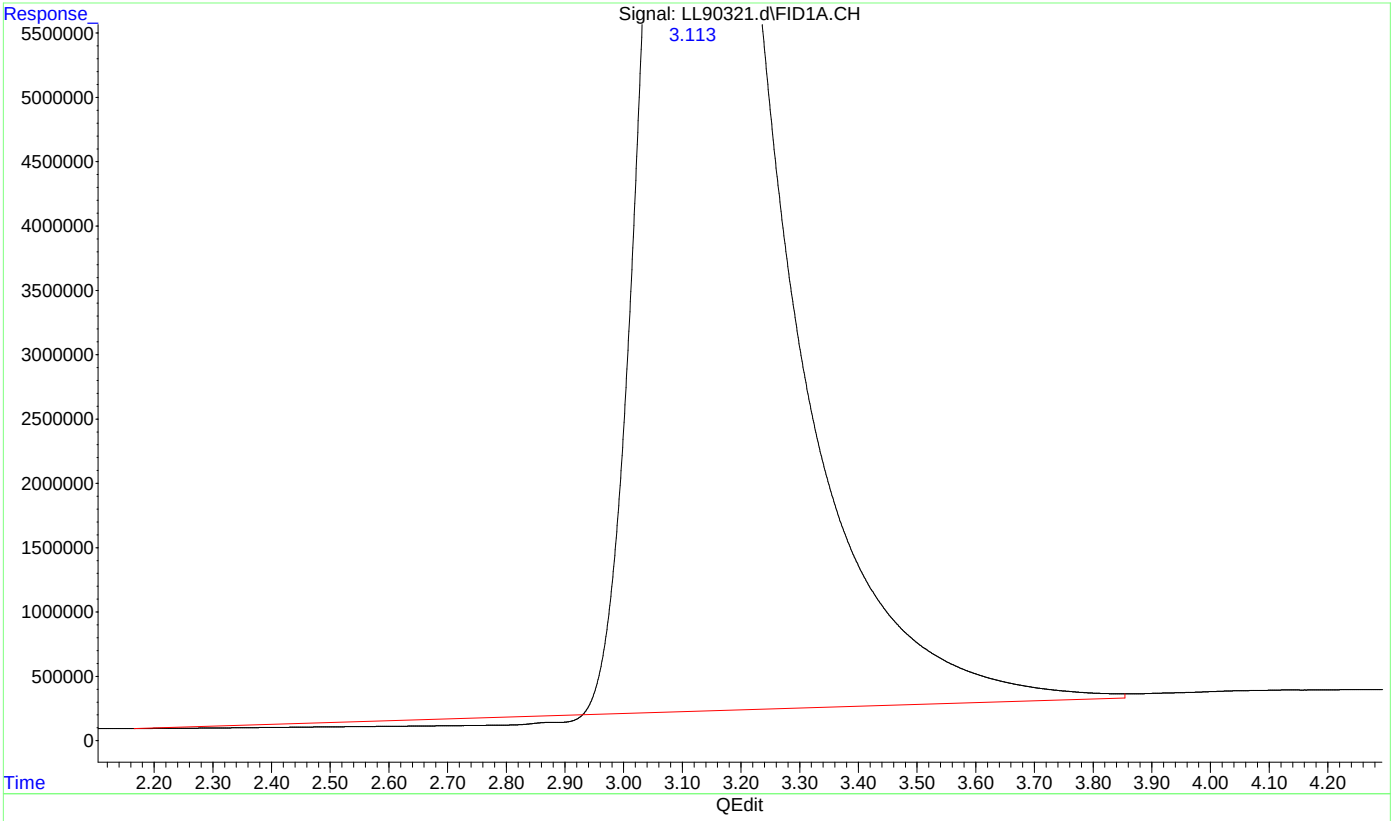
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:19 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 892.871 ppmv

response 1538376615

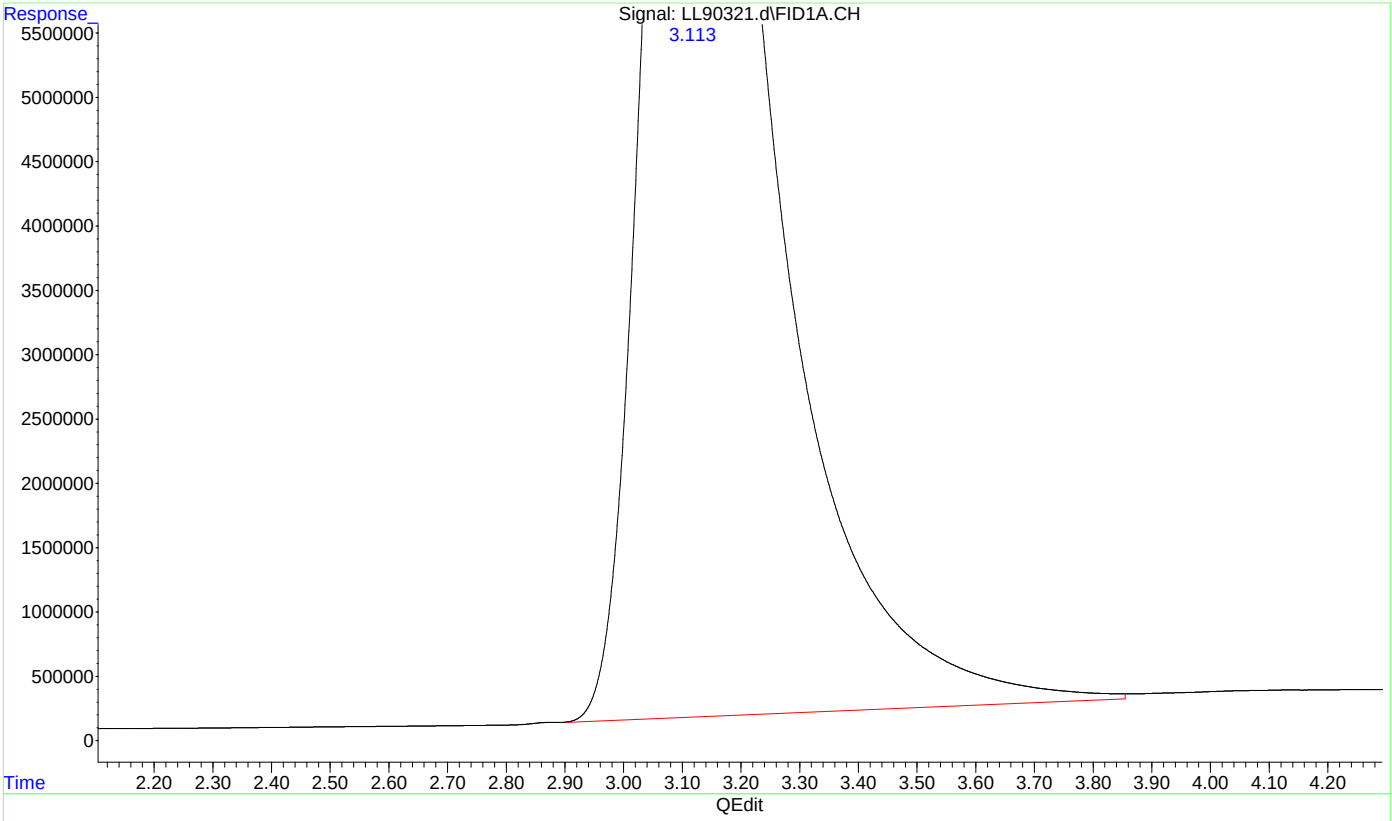
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:31:31 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:19 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 912.562 ppmv m

response 1572303723

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:31:35 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90257.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:45:01
Operator : jennr
Sample : fc16559-3dup, 20x
Misc : gc24883,gll3143,38,21,500,5.1,20
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:50:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	2466062913	3568.758	ppmv	
2)	Acetylene	0.000	0	N.D.	ppmv	d
3)	Ethylene	0.000	0	N.D.	ppmv	d
4)	Ethane	0.966	1513571	1.221	ppmv	
5)	Propane	0.000	0	N.D.	ppmv	

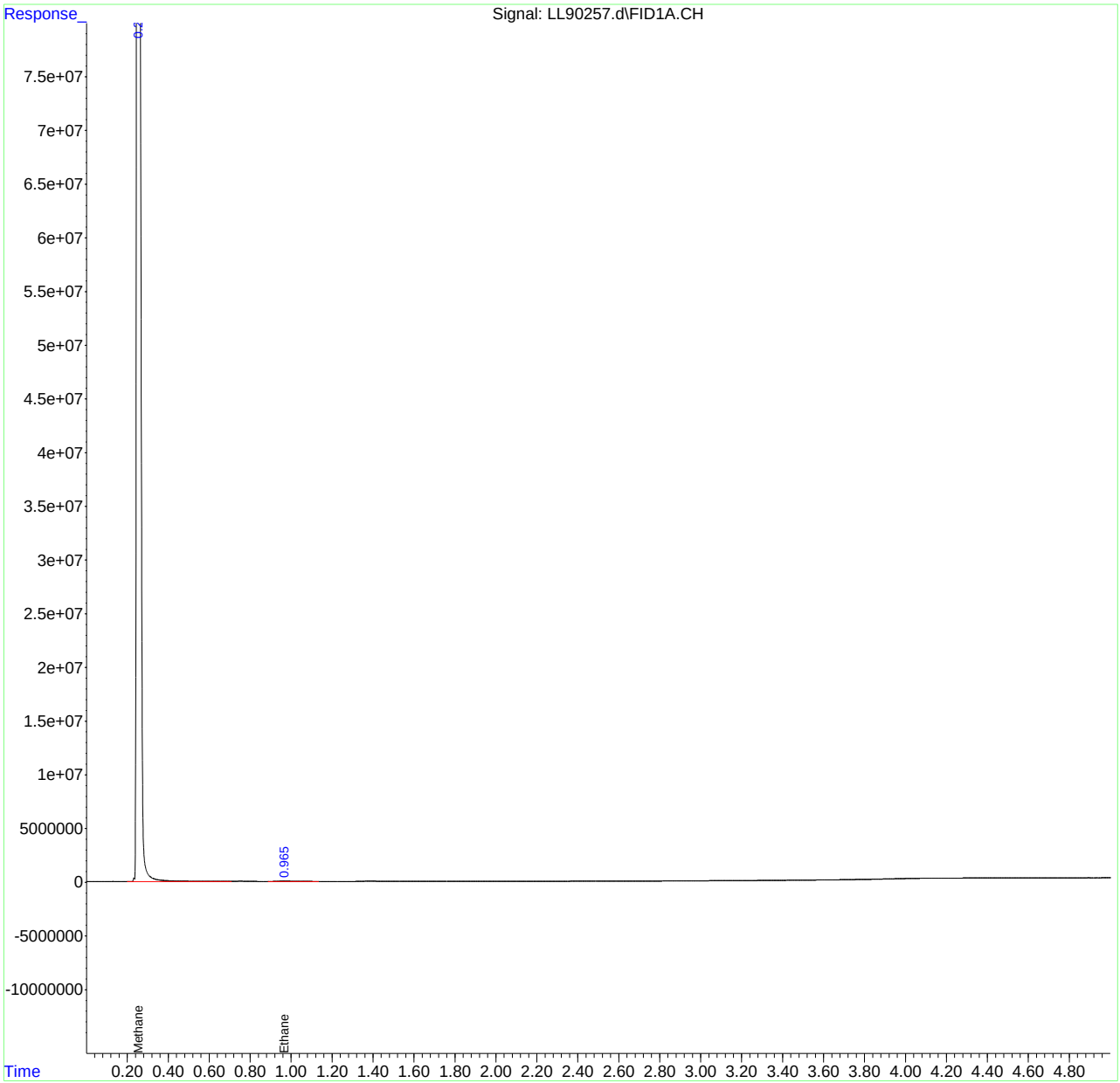
(f)=RT Delta > 1/2 Window (m)=manual int.

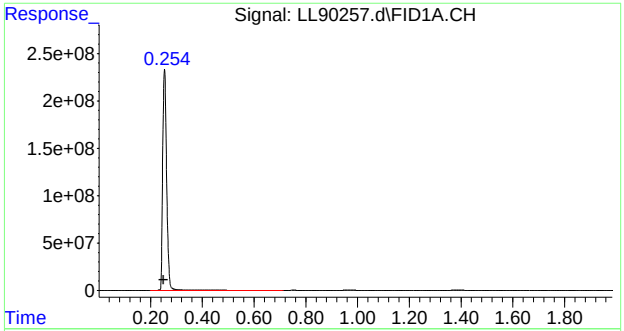
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90257.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 10:45:01
Operator : jennr
Sample : fc16559-3dup, 20x
Misc : gc24883,gll3143,38,21,500,5.1,20
ALS Vial : 8 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 10:50:23 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

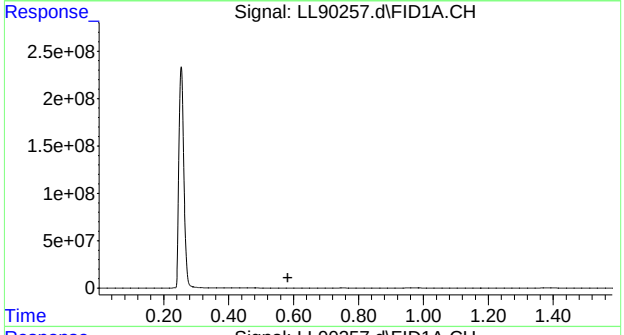
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





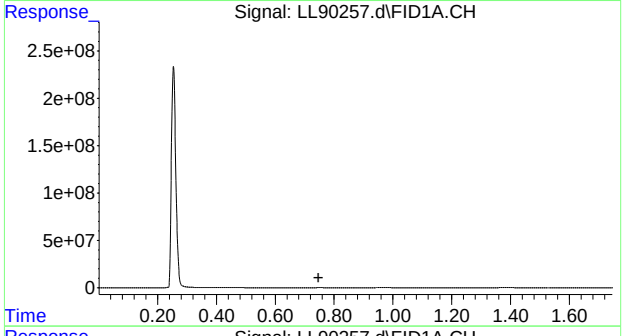
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 2466062913
Conc: 3568.76 ppmv



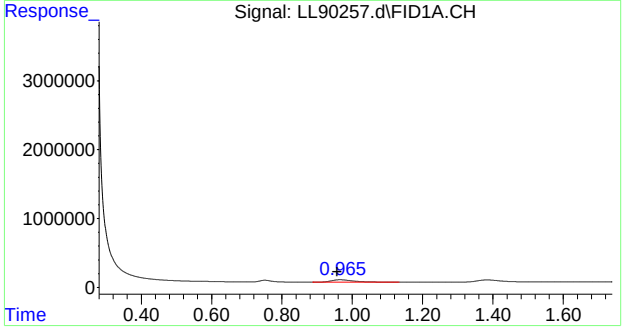
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



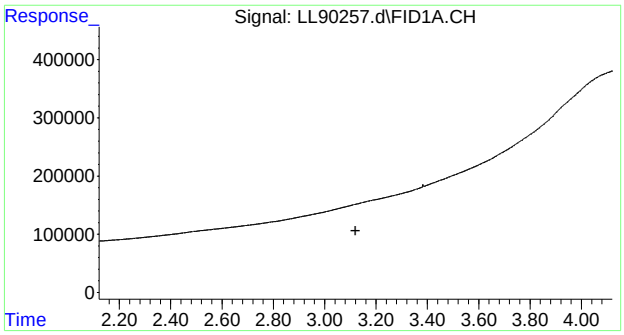
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.966 min
Delta R.T.: 0.009 min
Response: 1513571
Conc: 1.22 ppmv



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16559-3DUP	**Sample Volume:**	38.0 ml
Lab FileID:	LL90257.D	**Headspace:**	5.1 ml
Injection Time:	06/26/24 10:45	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	3568.76	38340	8010	ug/l
Ethane	74-84-0	30	1.22	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:41:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.250	1284839	1.859	ppmv m
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv
4)	Ethane	0.000	0	N.D.	ppmv
5)	Propane	0.000	0	N.D.	ppmv

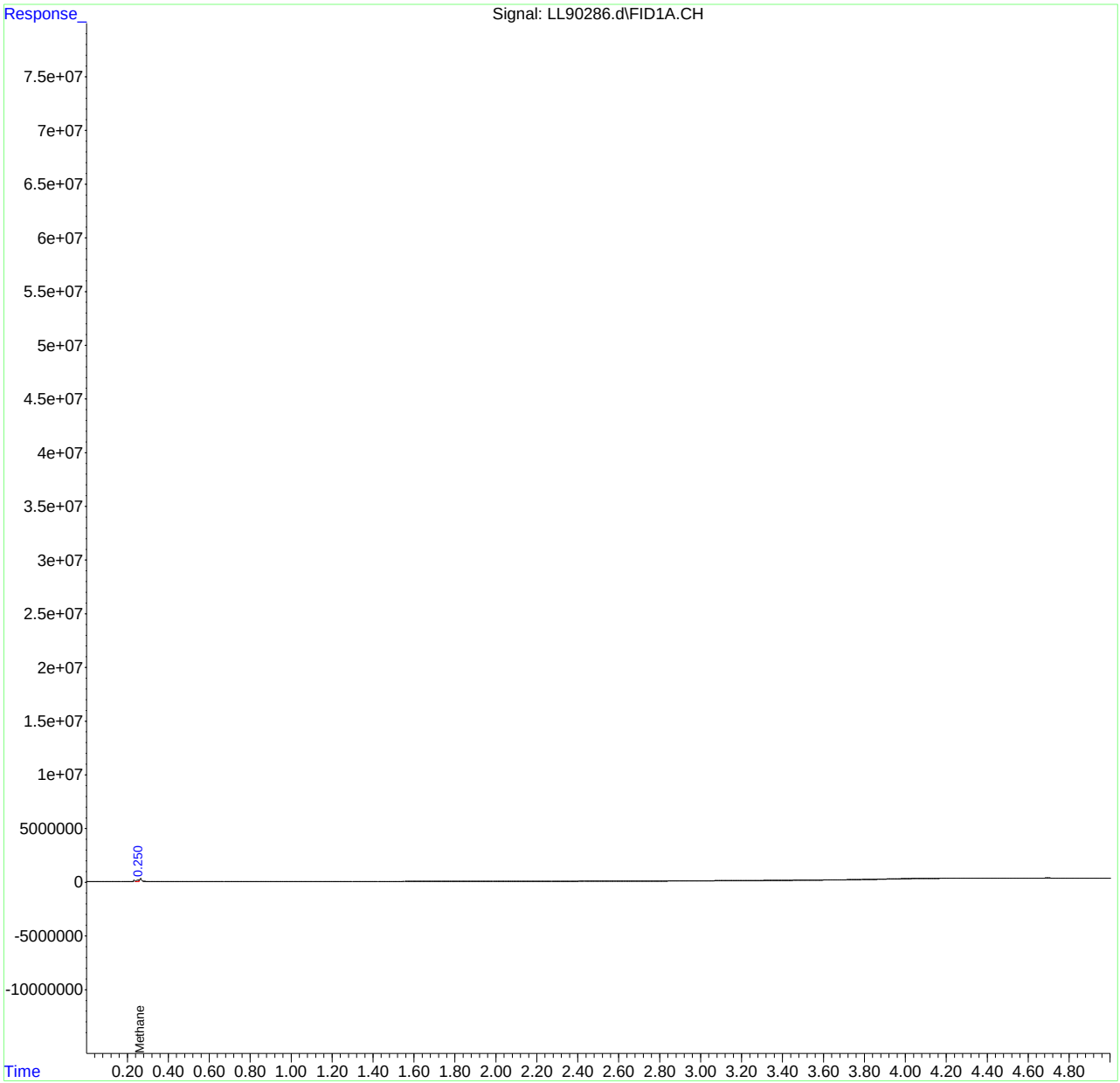
(f)=RT Delta > 1/2 Window (m)=manual int.

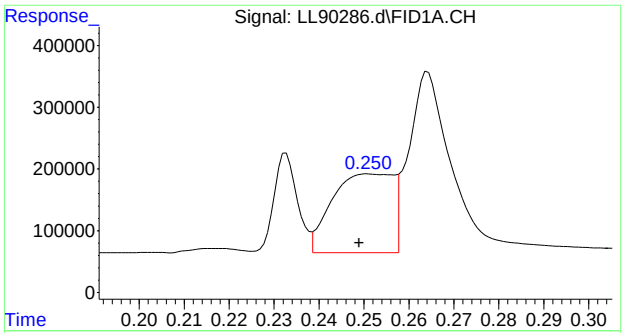
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:41:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

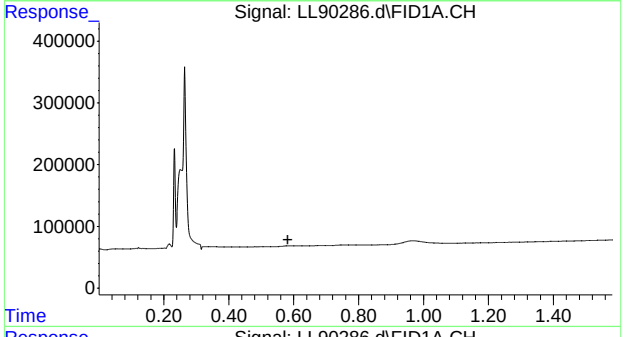
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





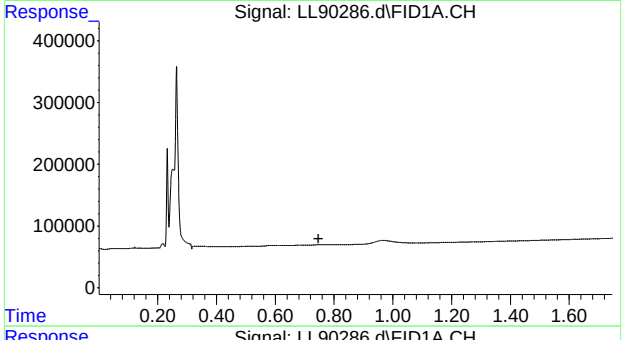
#1 Methane

R.T.:	0.250 min
Delta R.T.:	0.001 min
Response:	1284839
Conc:	1.86 ppmv m



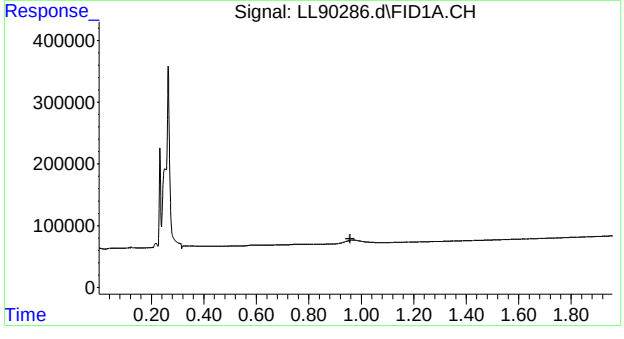
#2 Acetylene

R.T.:	0.000 min
Exp R.T. :	0.582 min
Response:	0
Conc:	N.D.



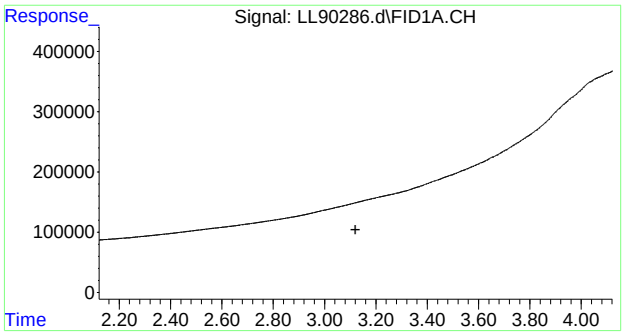
#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	0.746 min
Response:	0
Conc:	N.D.



#4 Ethane

R.T.:	0.000 min
Exp R.T. :	0.956 min
Response:	0
Conc:	N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-5DUP
Lab FileID: LL90286.D
Injection Time: 06/27/24 10:34
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-5DUP	**Sample Volume:**	39.0 ml
Lab FileID:	LL90286.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:34	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.86	38340	0.20	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

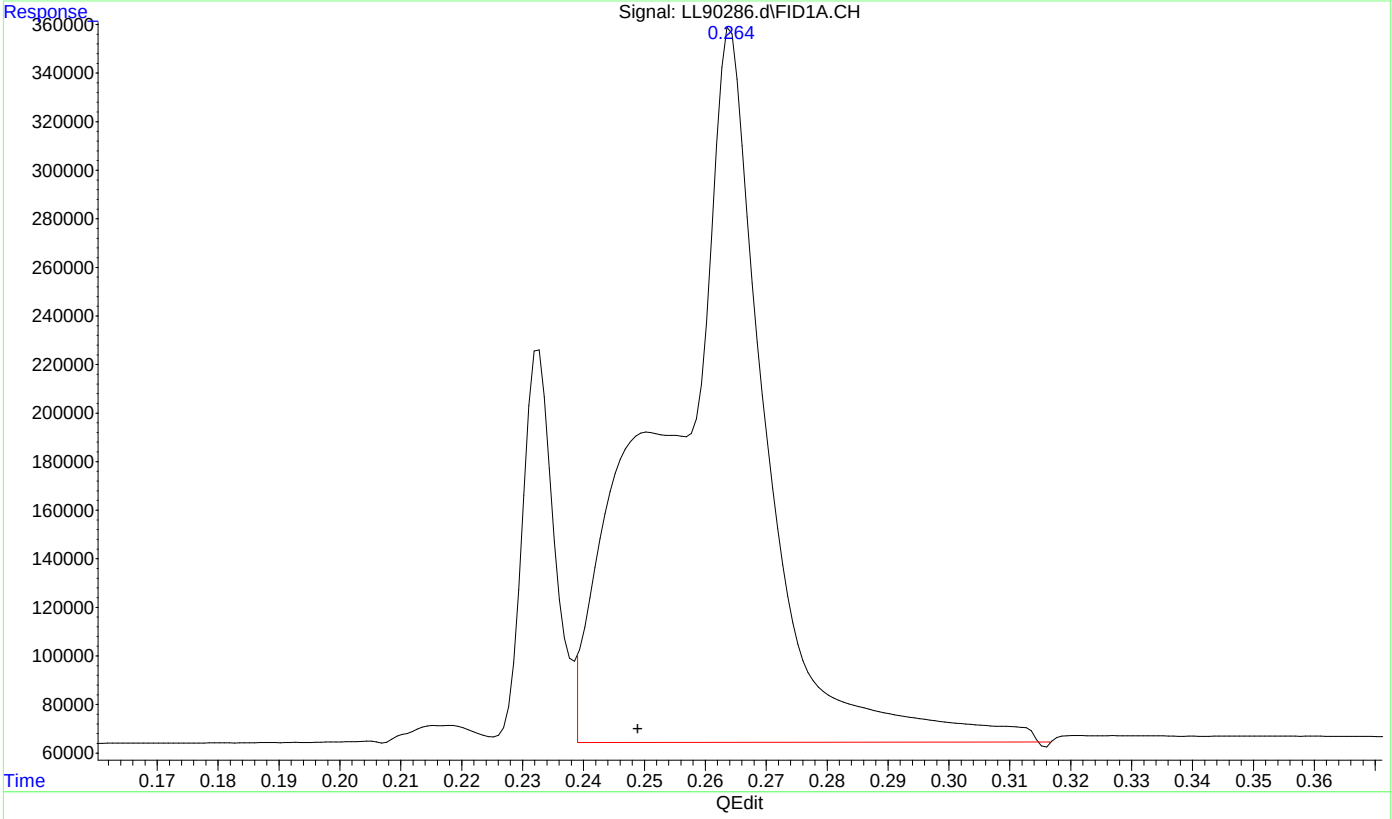
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:40:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.264min 4.768 ppmv

response 3294797

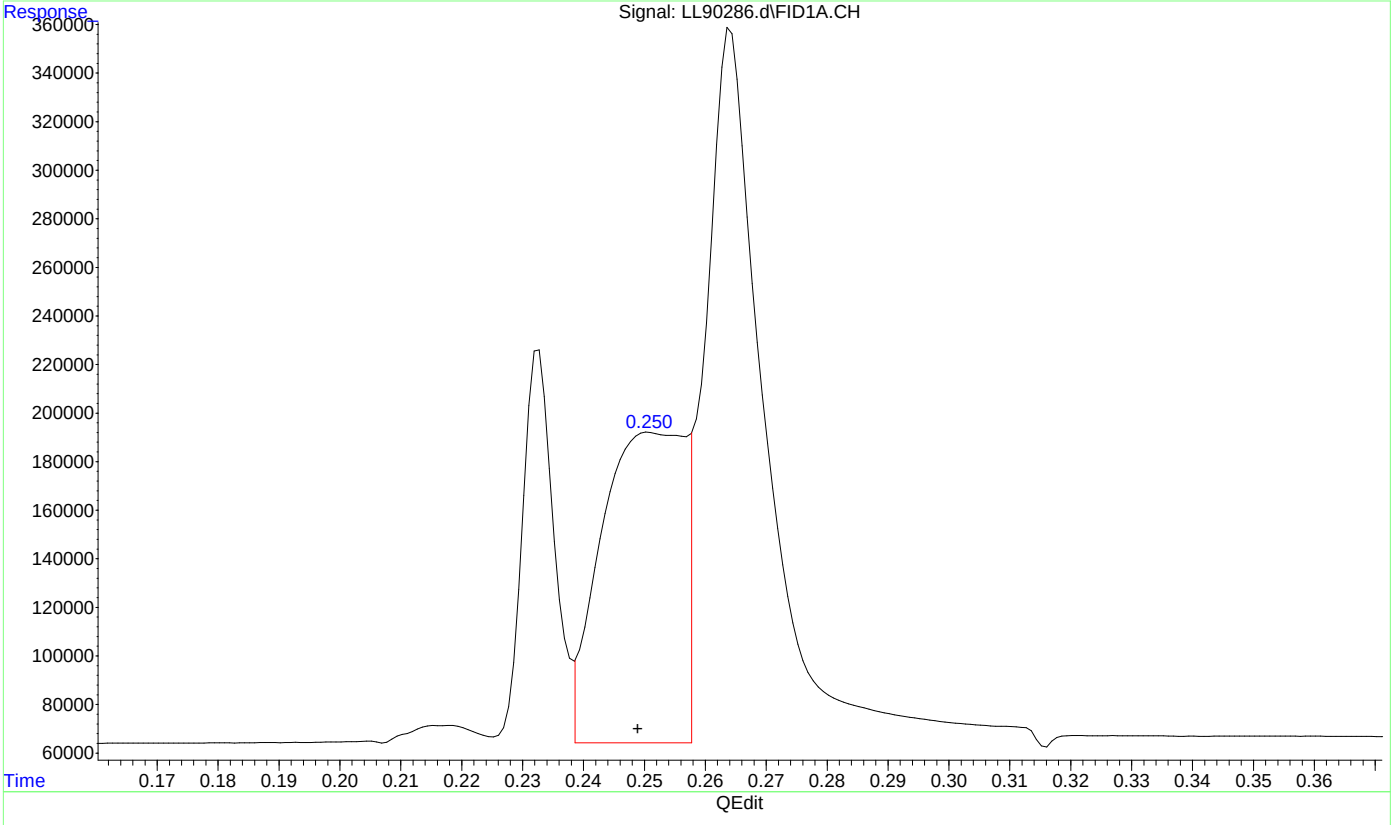
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:40:53 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:40:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.250min 1.859 ppmv m

response 1284839

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:41:20 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90324.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:48:23
Operator : jennr
Sample : fc16768-6dup
Misc : gc24892,gll3145,38.5,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:59:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.249	1698428	2.458	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv d

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.3

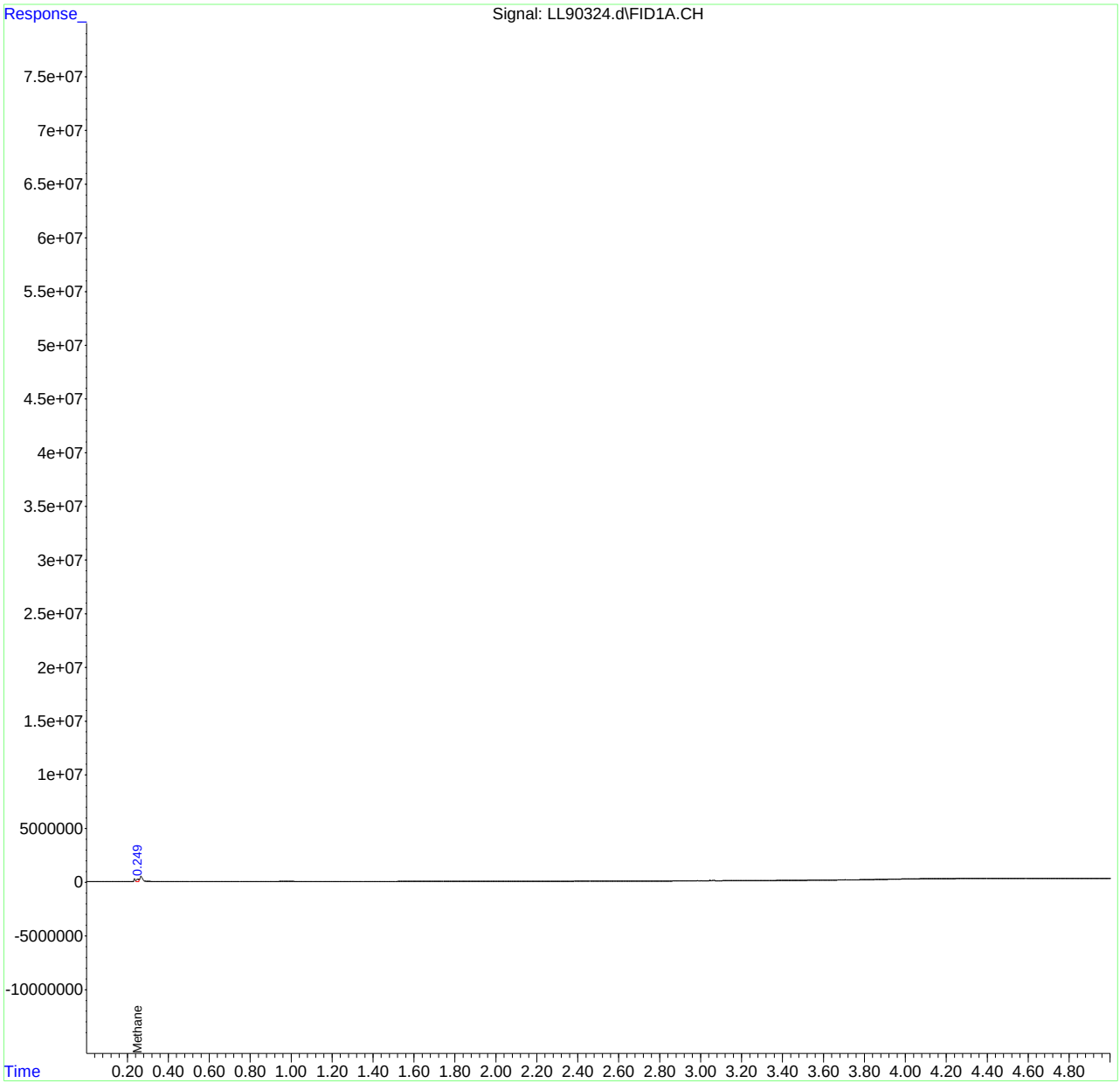
9

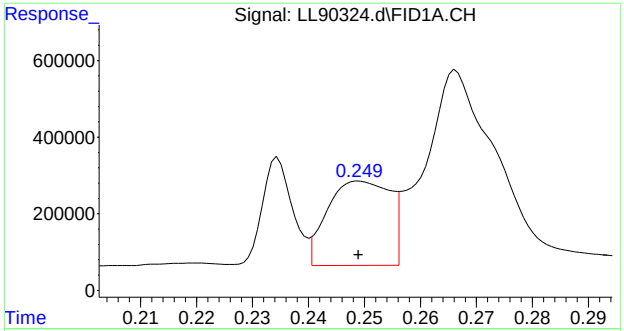
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90324.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:48:23
Operator : jennr
Sample : fc16768-6dup
Misc : gc24892,gll3145,38.5,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:59:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

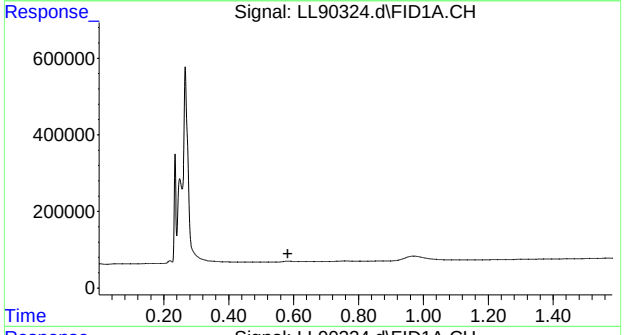
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





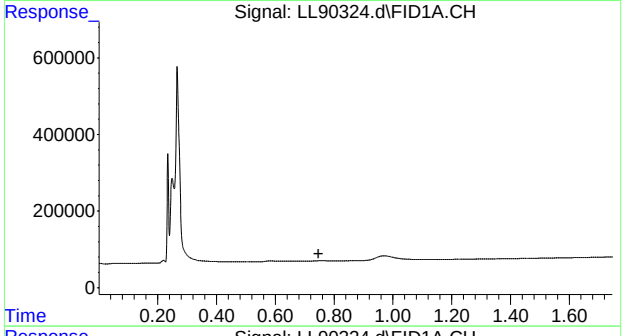
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.000 min
Response: 1698428
Conc: 2.46 ppmv



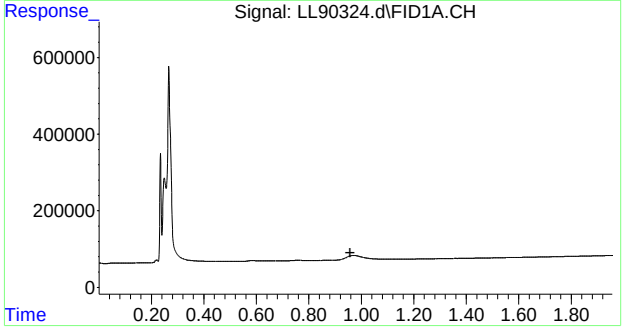
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



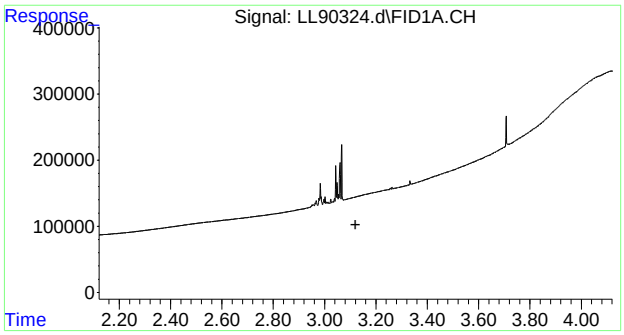
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.: 0.000 min
Exp R.T. : 3.120 min
Response: 0
Conc: N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16768-6DUP	**Sample Volume:**	38.5 ml
Lab FileID:	LL90324.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 11:48	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	2.46	38340	0.27	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09:26 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	1341398	2.022	ppmv	
2)	Acetylene	0.58	2082792	1.769	ppmv	m
3)	Ethylene	0.75	1680636	1.642	ppmv	m
4)	Ethane	0.97	1755778	1.669	ppmv	m
5)	Propane	3.29	1588808	1.038	ppmv	m

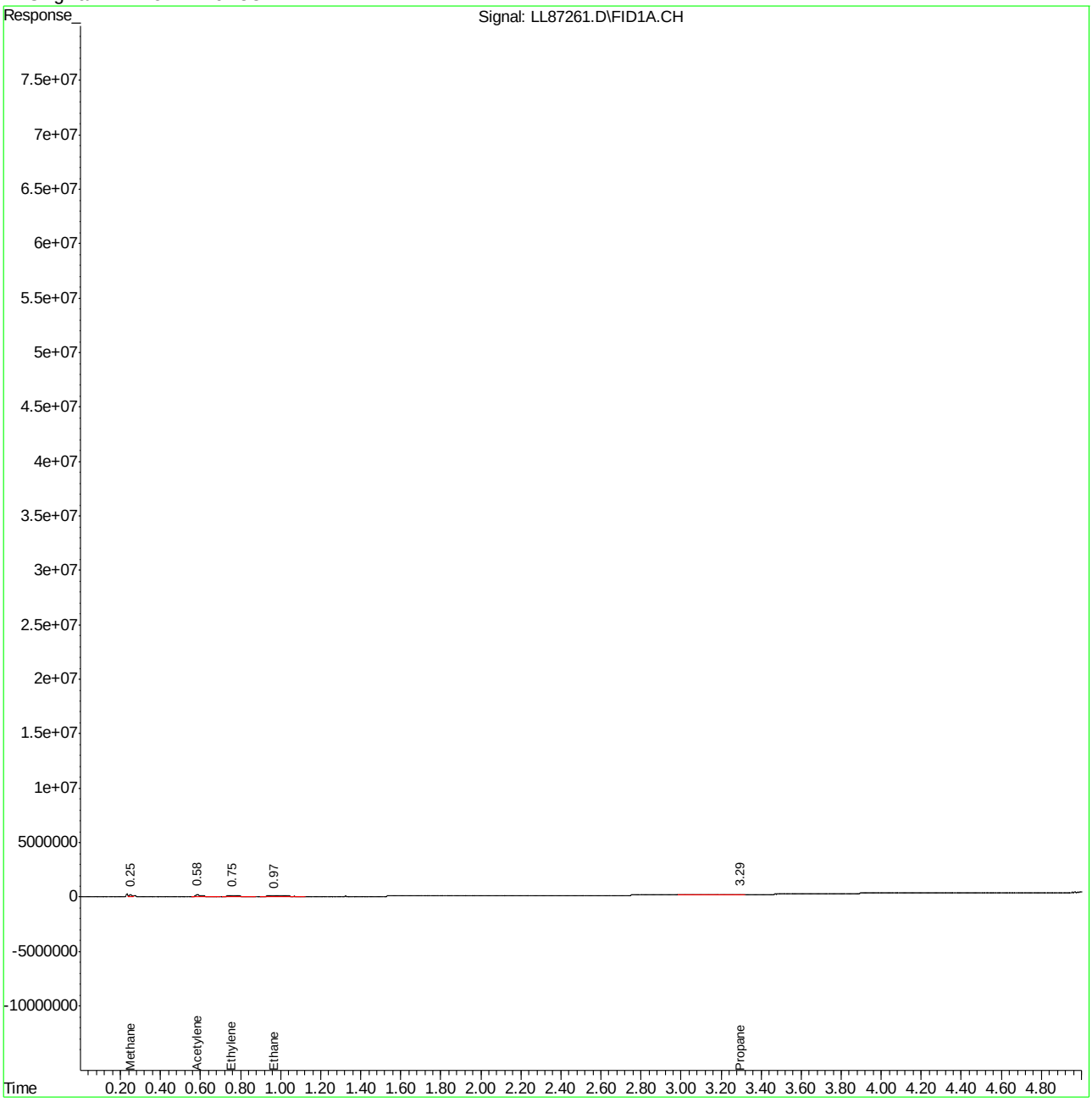
(f)=RT Delta > 1/2 Window (m)=manual int.

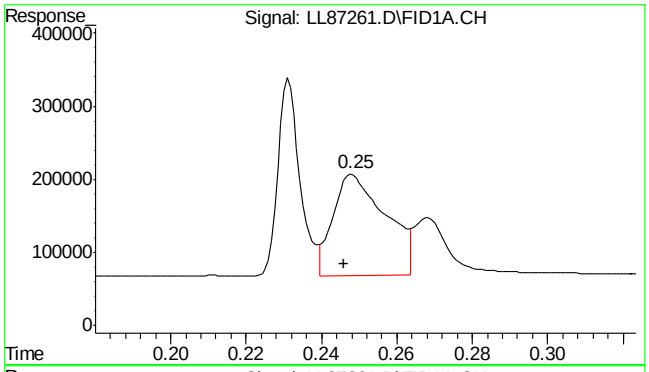
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:10 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

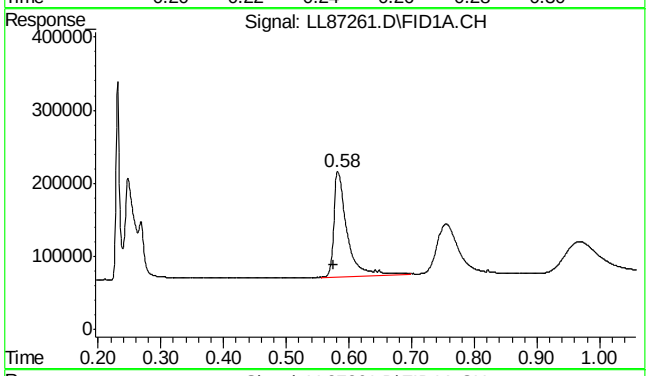
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





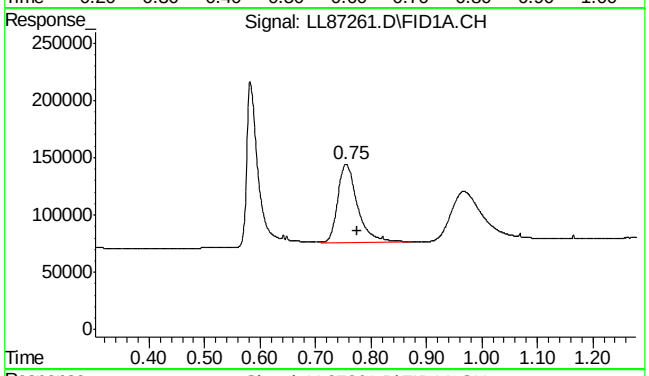
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.002 min
Response: 1341398
Conc: 2.02 ppmv



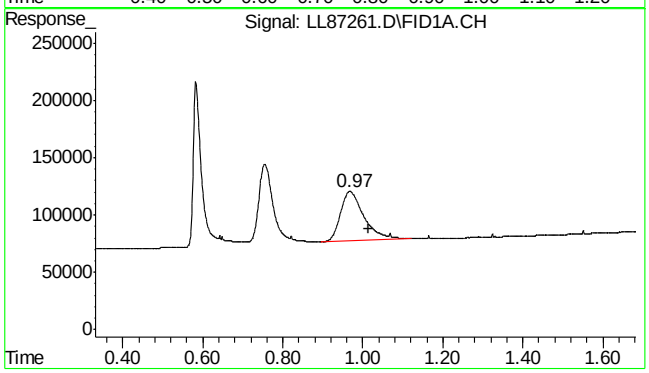
#2 Acetylene

R.T.: 0.582 min
Delta R.T.: 0.007 min
Response: 2082792
Conc: 1.77 ppmv m



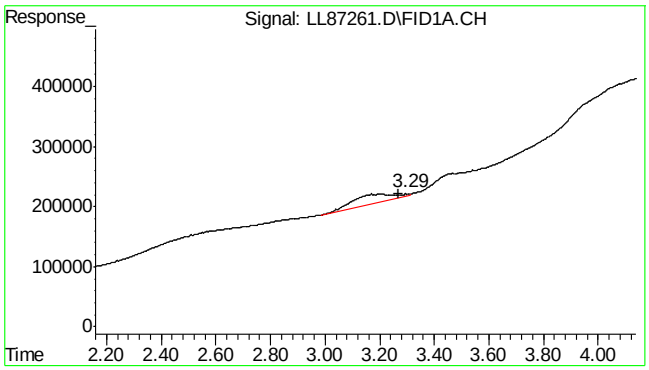
#3 Ethylene

R.T.: 0.754 min
Delta R.T.: -0.022 min
Response: 1680636
Conc: 1.64 ppmv m



#4 Ethane

R.T.: 0.968 min
Delta R.T.: -0.046 min
Response: 1755778
Conc: 1.67 ppmv m



#5 Propane

R.T.:	3.293 min
Delta R.T.:	0.022 min
Response:	1588808
Conc:	1.04 ppmv m

Manual Integration Approval Summary

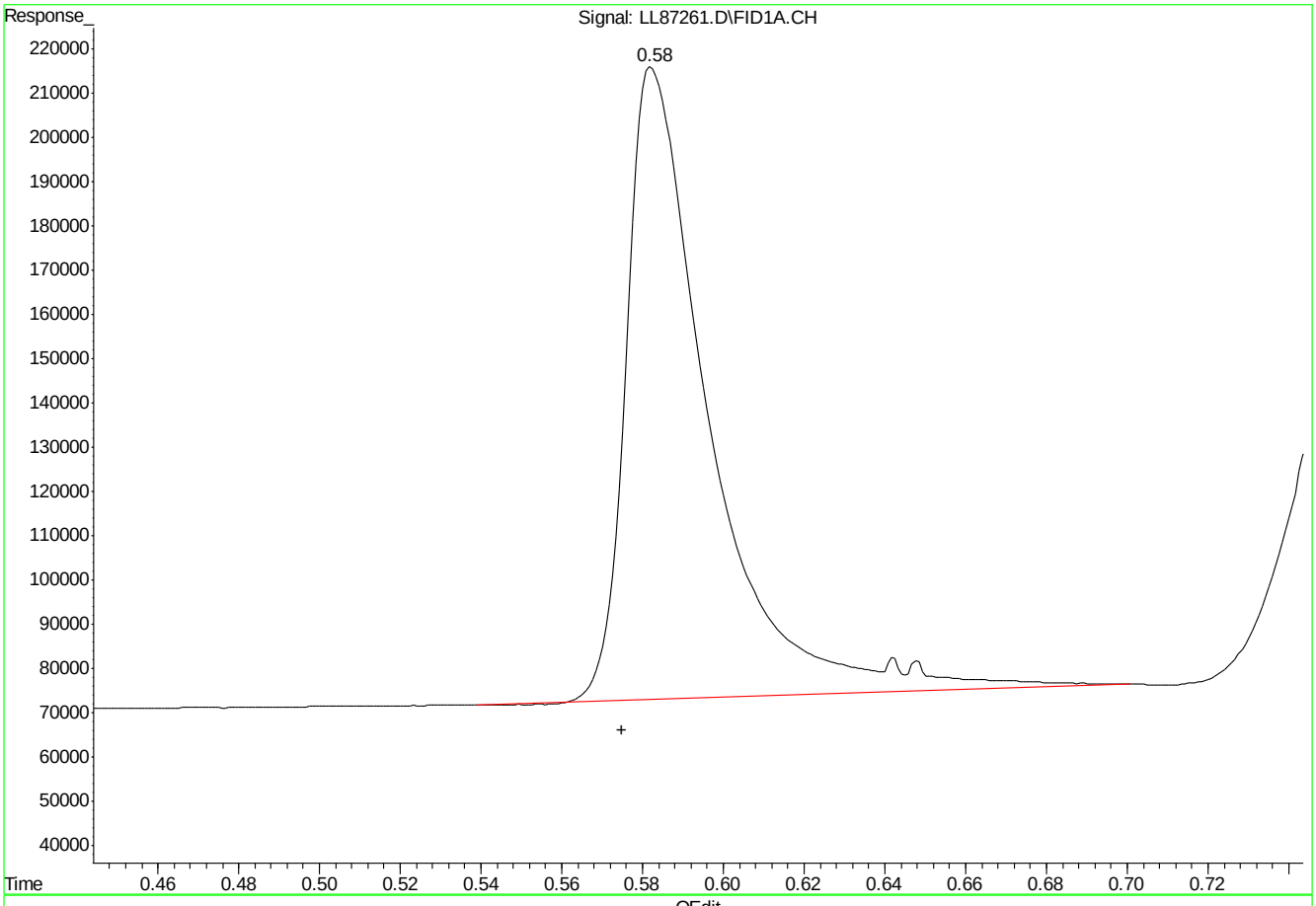
Sample Number: GLL3025-IC3025
Lab FileID: LL87261.D
Injection Time: 01/10/24 12:04
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetylene	74-86-2	1	0.58	Poor instrument integration
Ethene	74-85-1	1	0.75	Poor instrument integration
Ethane	74-84-0	1	0.97	Poor instrument integration
Propane	74-98-6	1	3.29	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(2) Acetylene

0.58min 1.743ppmv

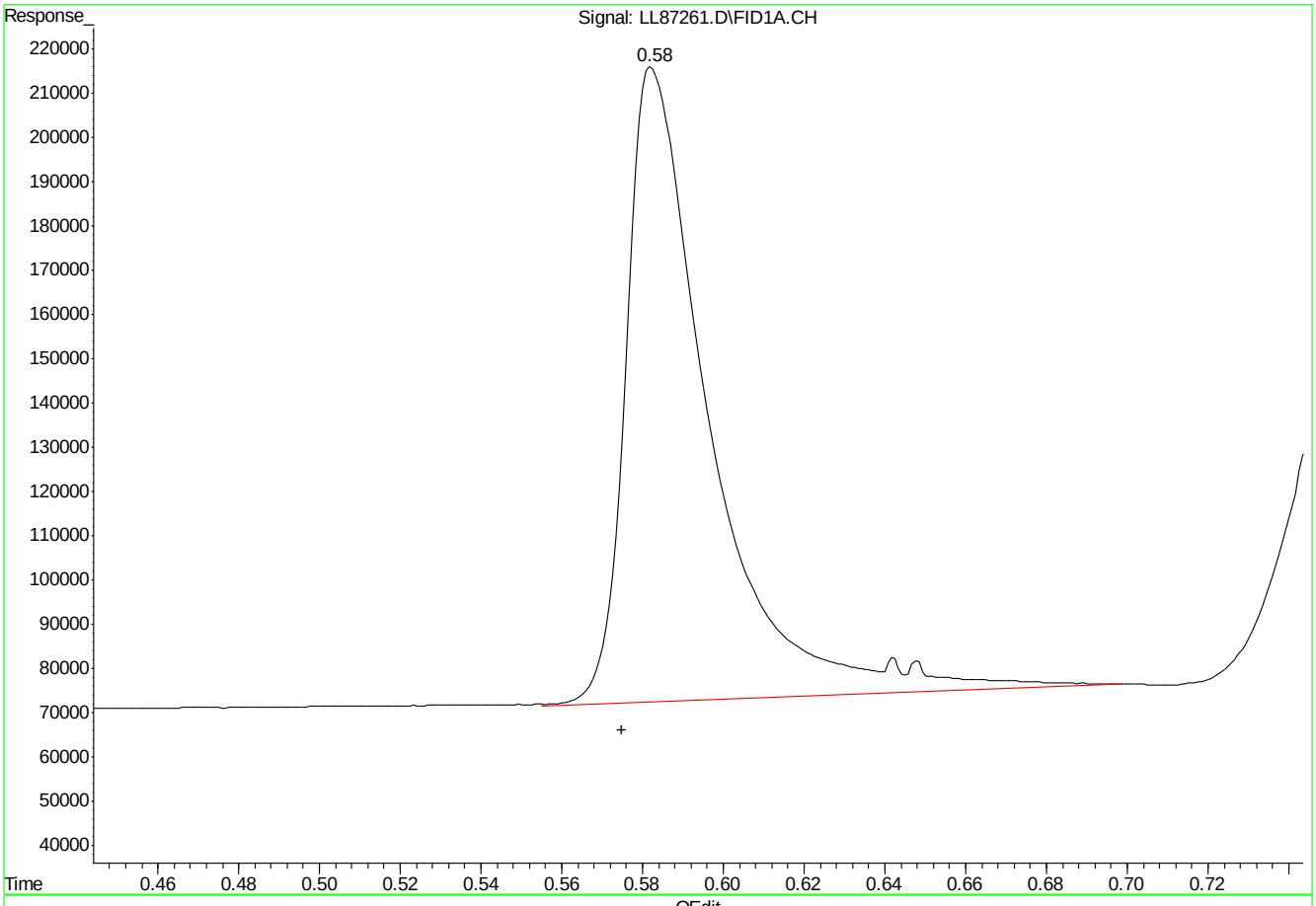
response 2051910

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:42 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(2) Acetylene

0.58min 1.769ppmv m

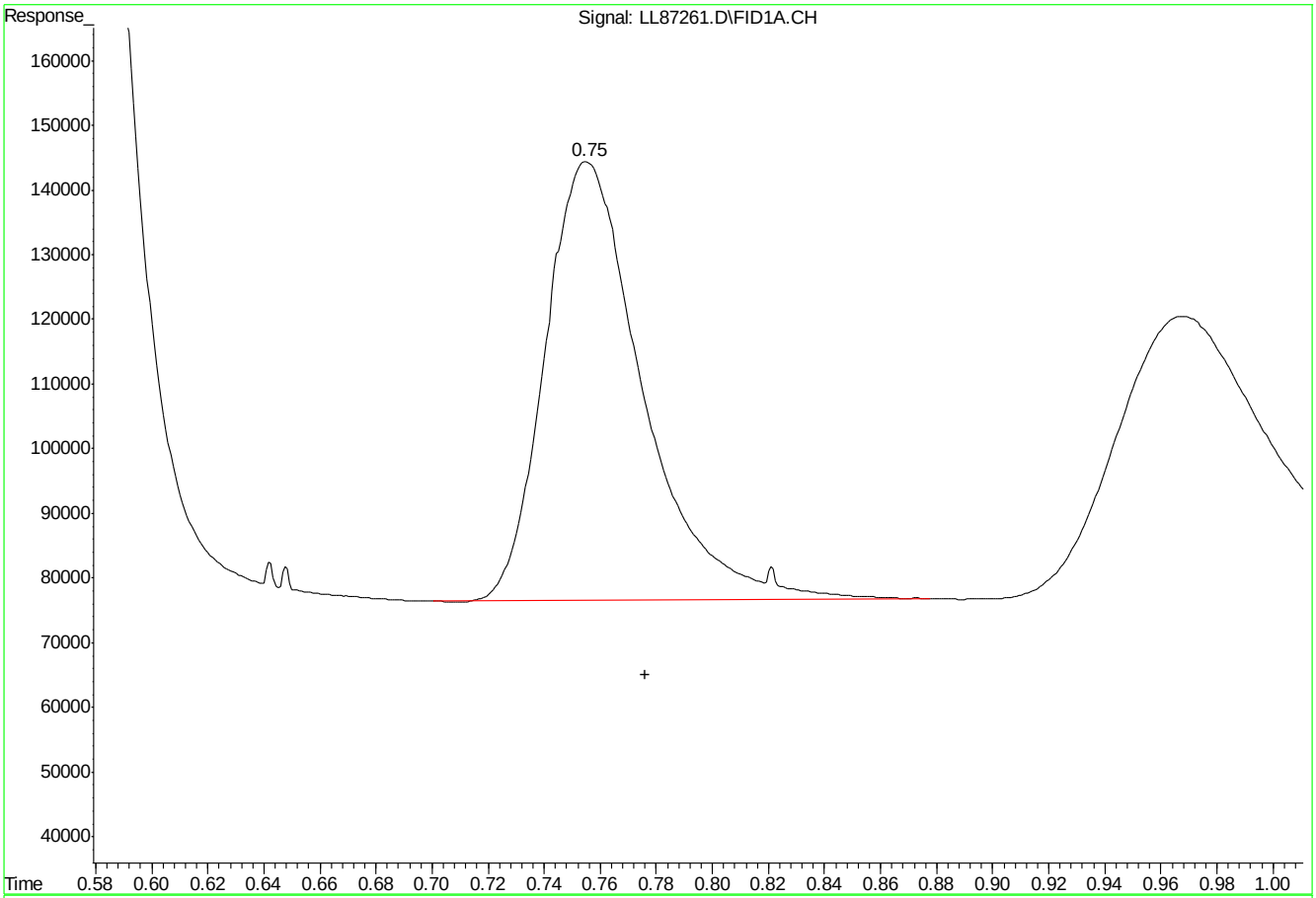
response 2082792

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:49 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(3) Ethylene

0.76min 1.610ppmv

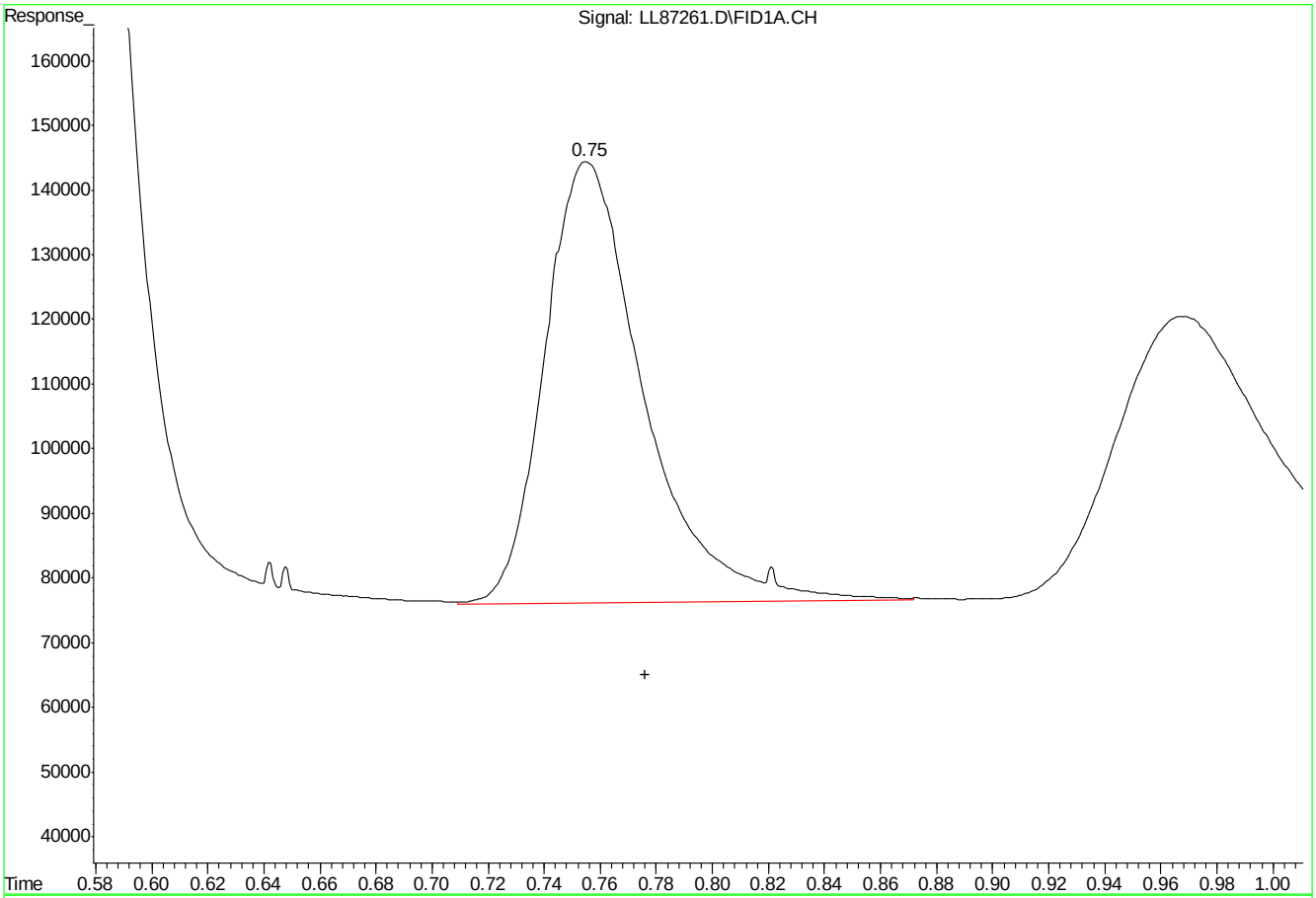
response 1648414

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:56 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(3) Ethylene

0.75min 1.642ppmv m

response 1680636

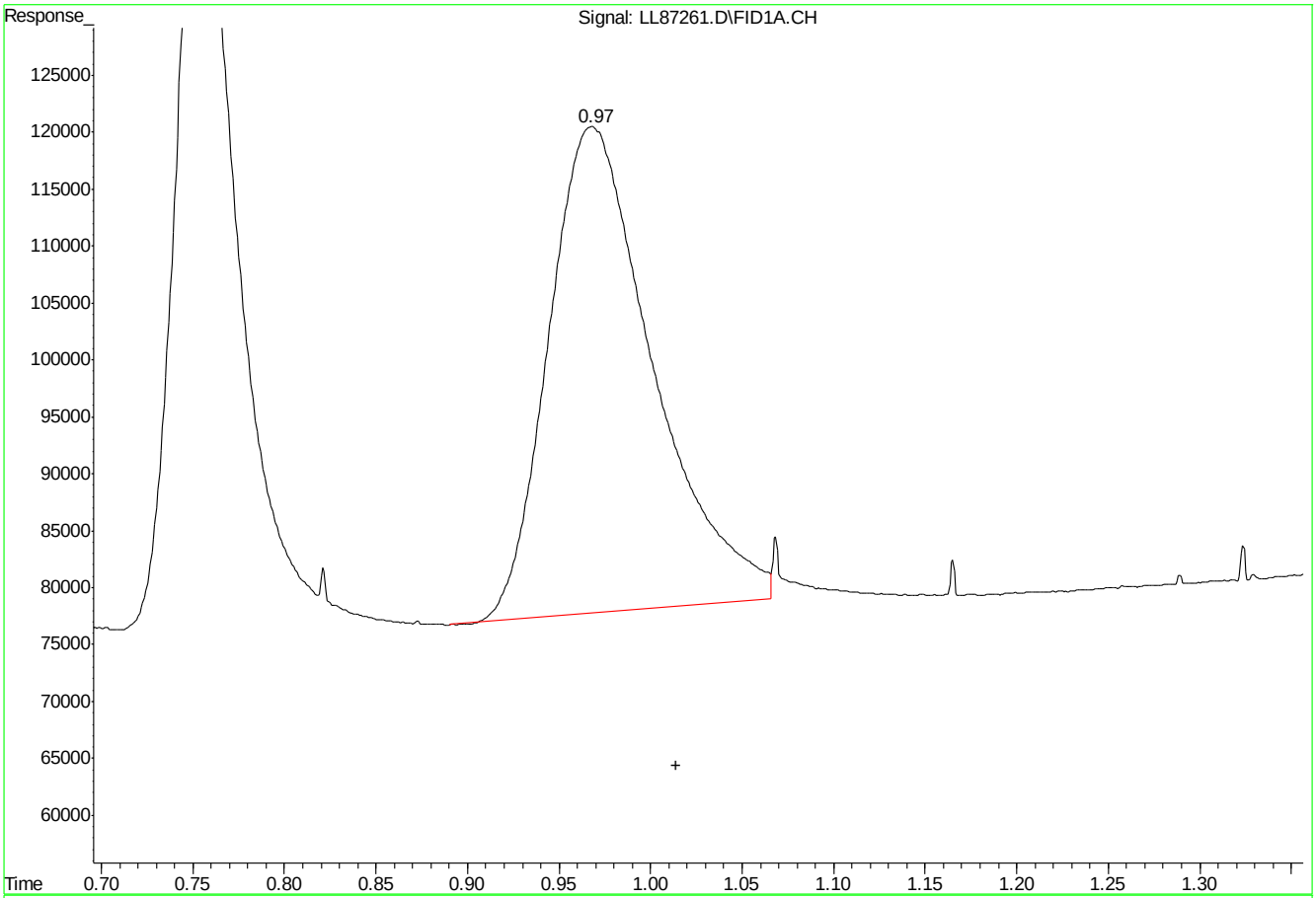
(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:04 2024

LL87261.D edits: Ethylene

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(4) Ethane

0.97min 1.604ppmv

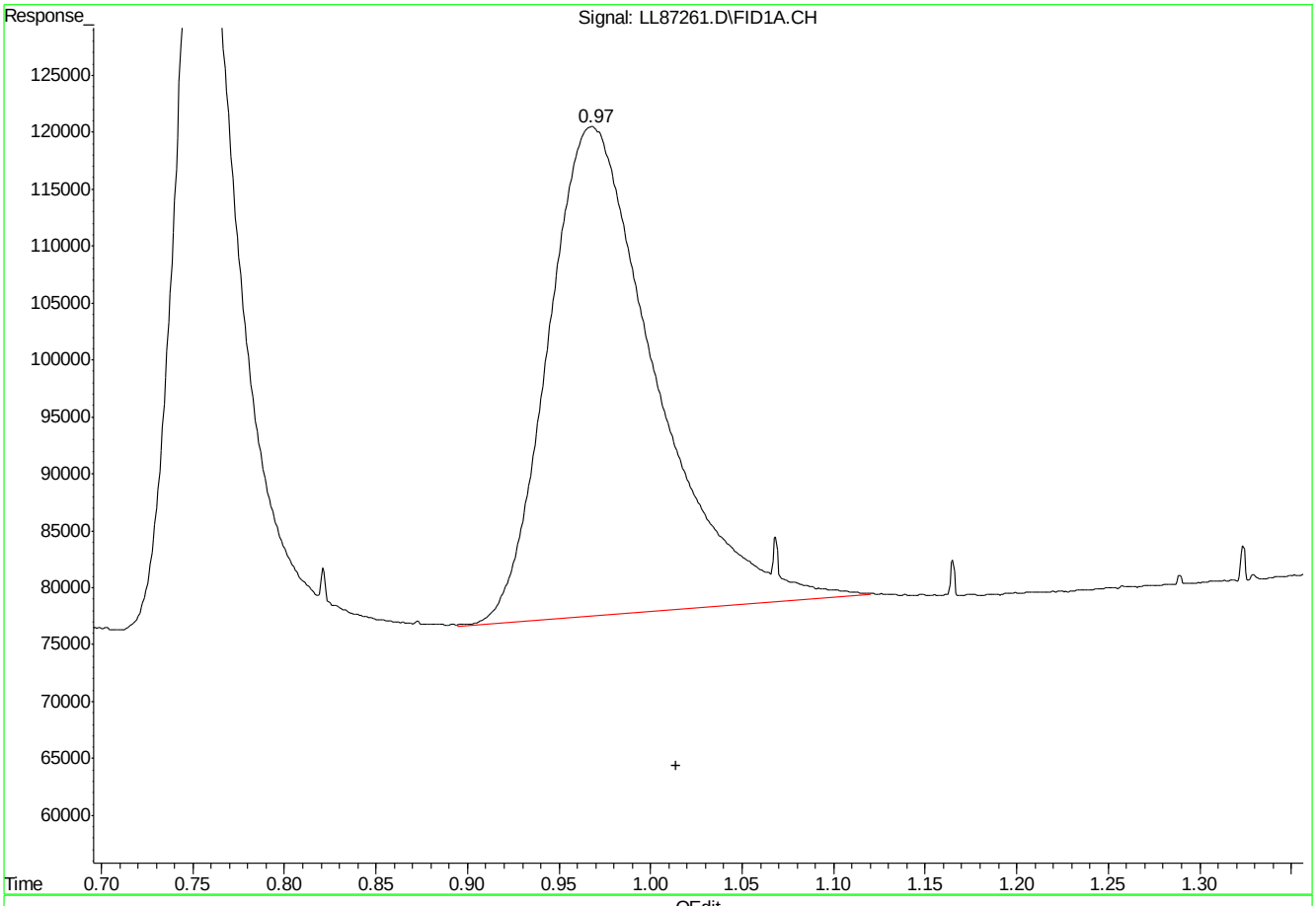
response 1687857

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:11 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(4) Ethane

0.97min 1.669ppmv m

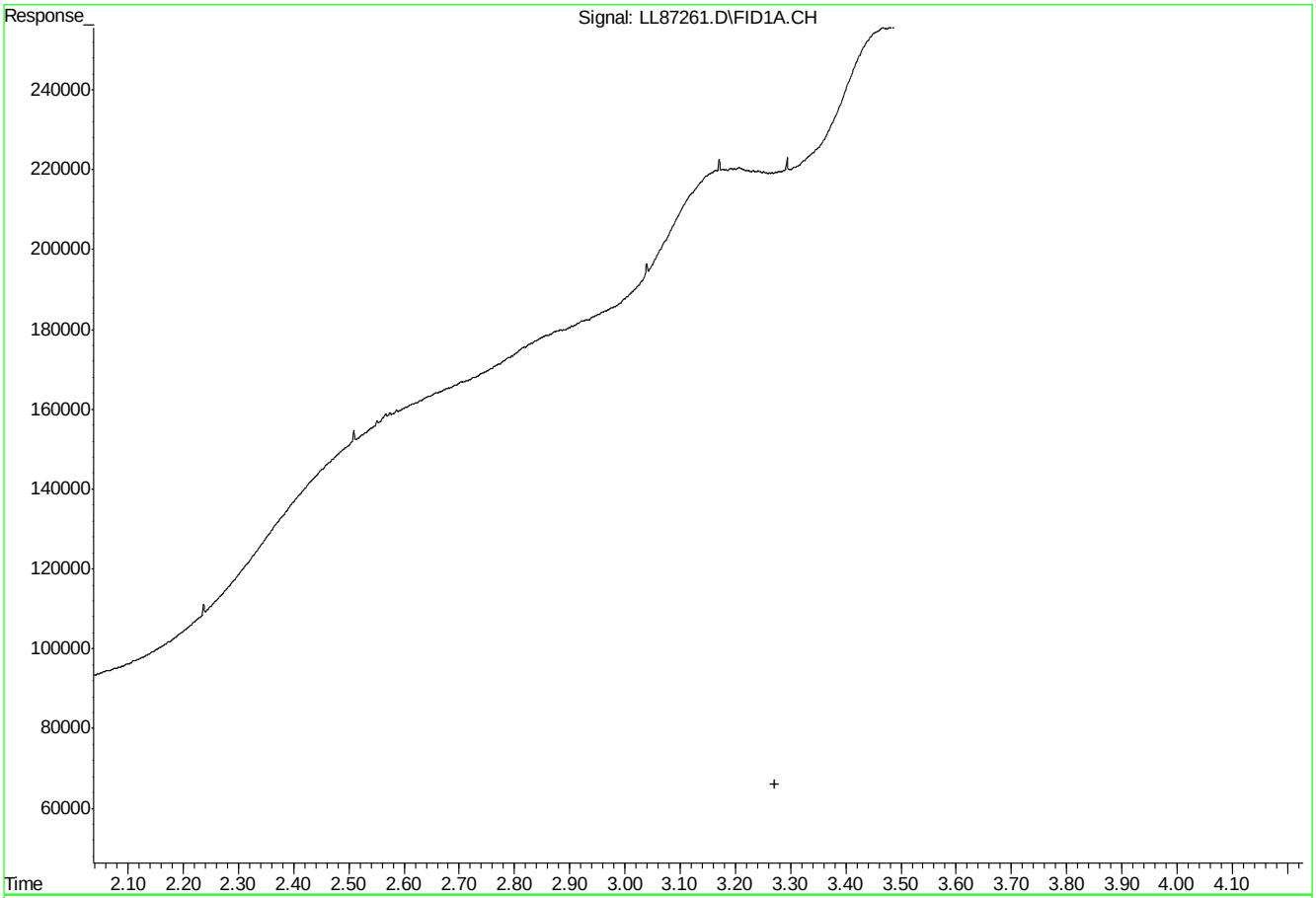
response 1755778

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(5) Propane

3.27min 0.000ppmv

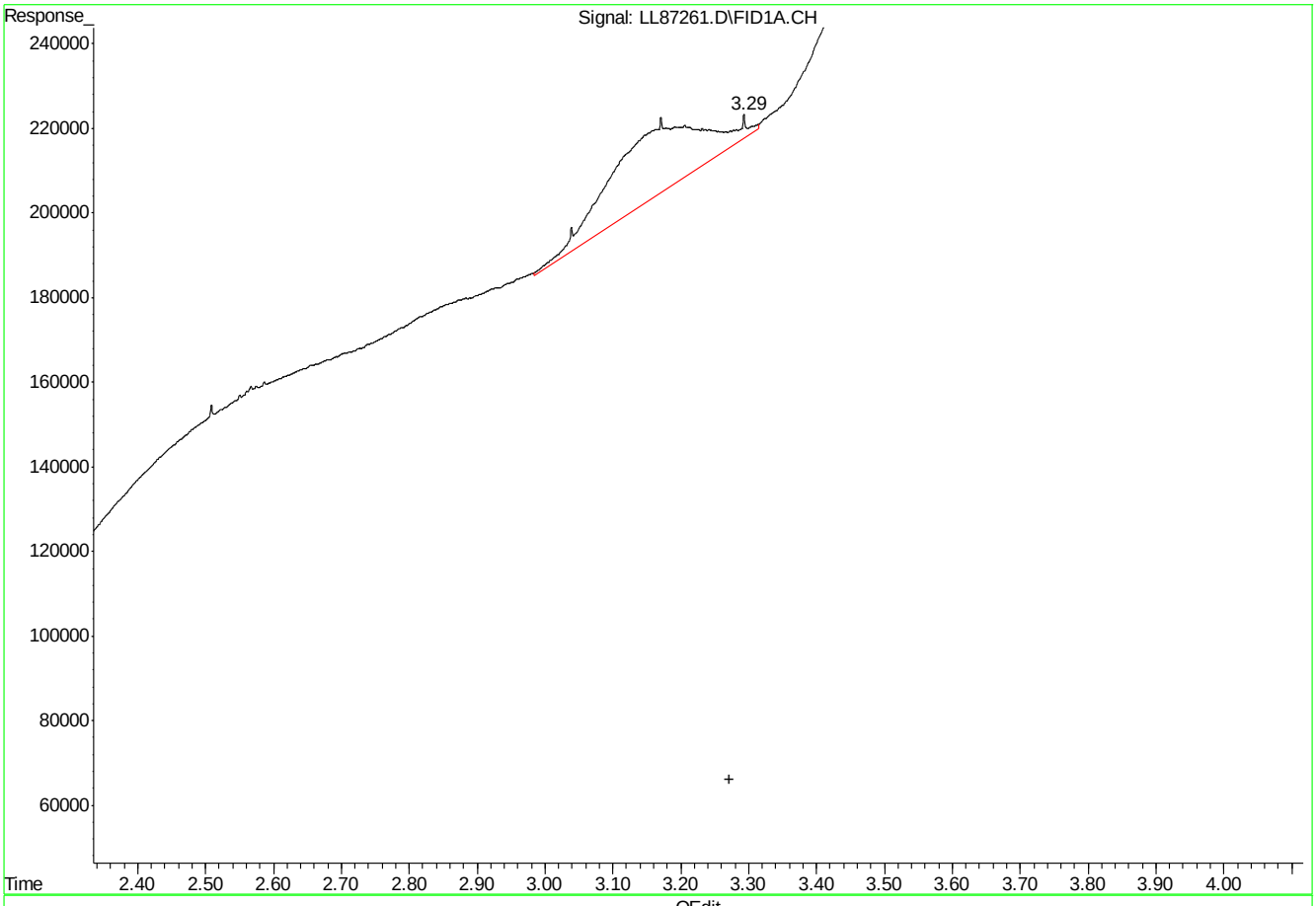
response 0

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:24 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(5) Propane

3.29min 1.038ppmv m

response 1588808

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:41 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17:37 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	9018652	13.362	ppmv	m
2)	Acetylene	0.59	21036786	16.821	ppmv	
3)	Ethylene	0.76	18440889	17.257	ppmv	
4)	Ethane	0.97	18801261	17.232	ppmv	
5)	Propane	3.14	19171082	13.218	ppmv	m

9.6.2
9

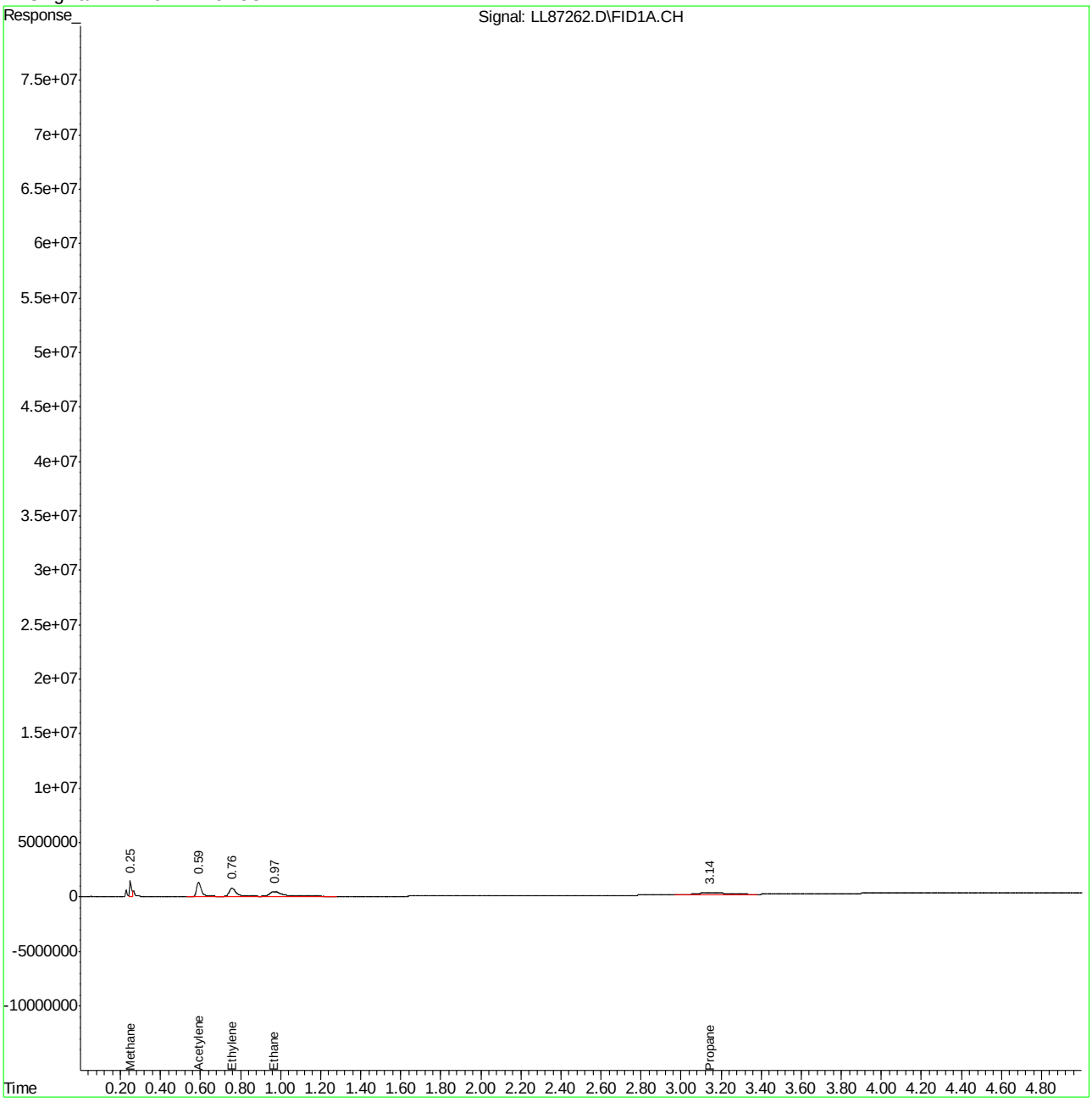
(f)=RT Delta > 1/2 Window (m)=manual int.

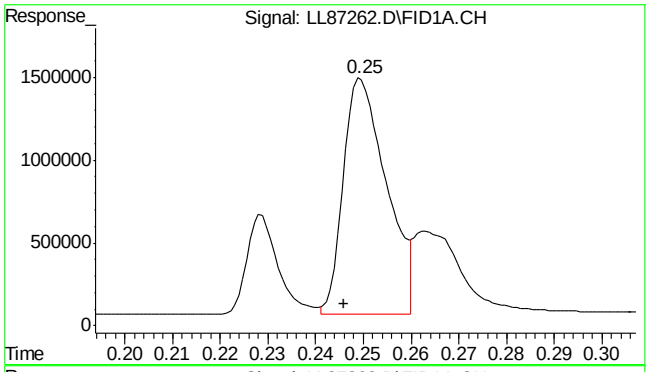
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:18 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

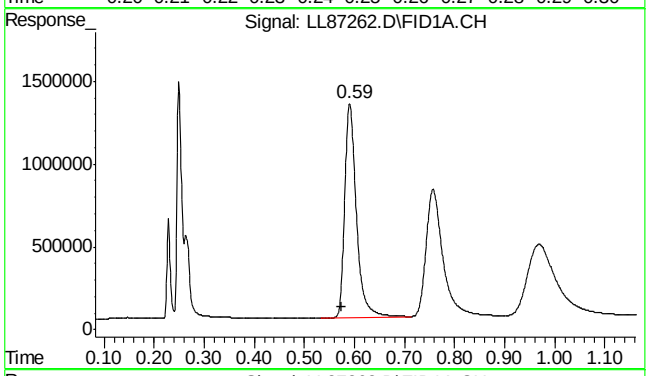
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





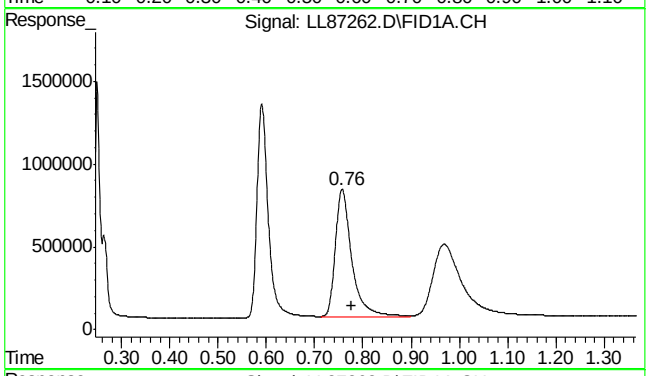
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.003 min
Response: 9018652
Conc: 13.36 ppmv m



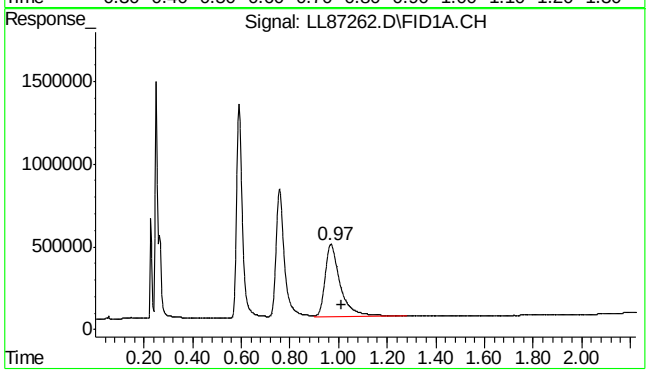
#2 Acetylene

R.T.: 0.591 min
Delta R.T.: 0.016 min
Response: 21036786
Conc: 16.82 ppmv



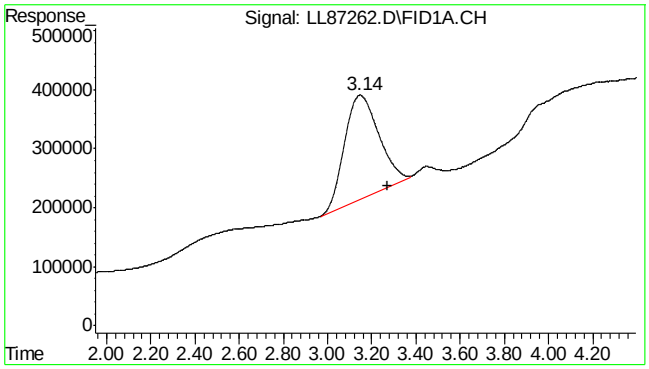
#3 Ethylene

R.T.: 0.757 min
Delta R.T.: -0.019 min
Response: 18440889
Conc: 17.26 ppmv



#4 Ethane

R.T.: 0.969 min
Delta R.T.: -0.045 min
Response: 18801261
Conc: 17.23 ppmv



#5 Propane

R.T.:	3.145 min
Delta R.T.:	-0.126 min
Response:	19171082
Conc:	13.22 ppmv m

Manual Integration Approval Summary

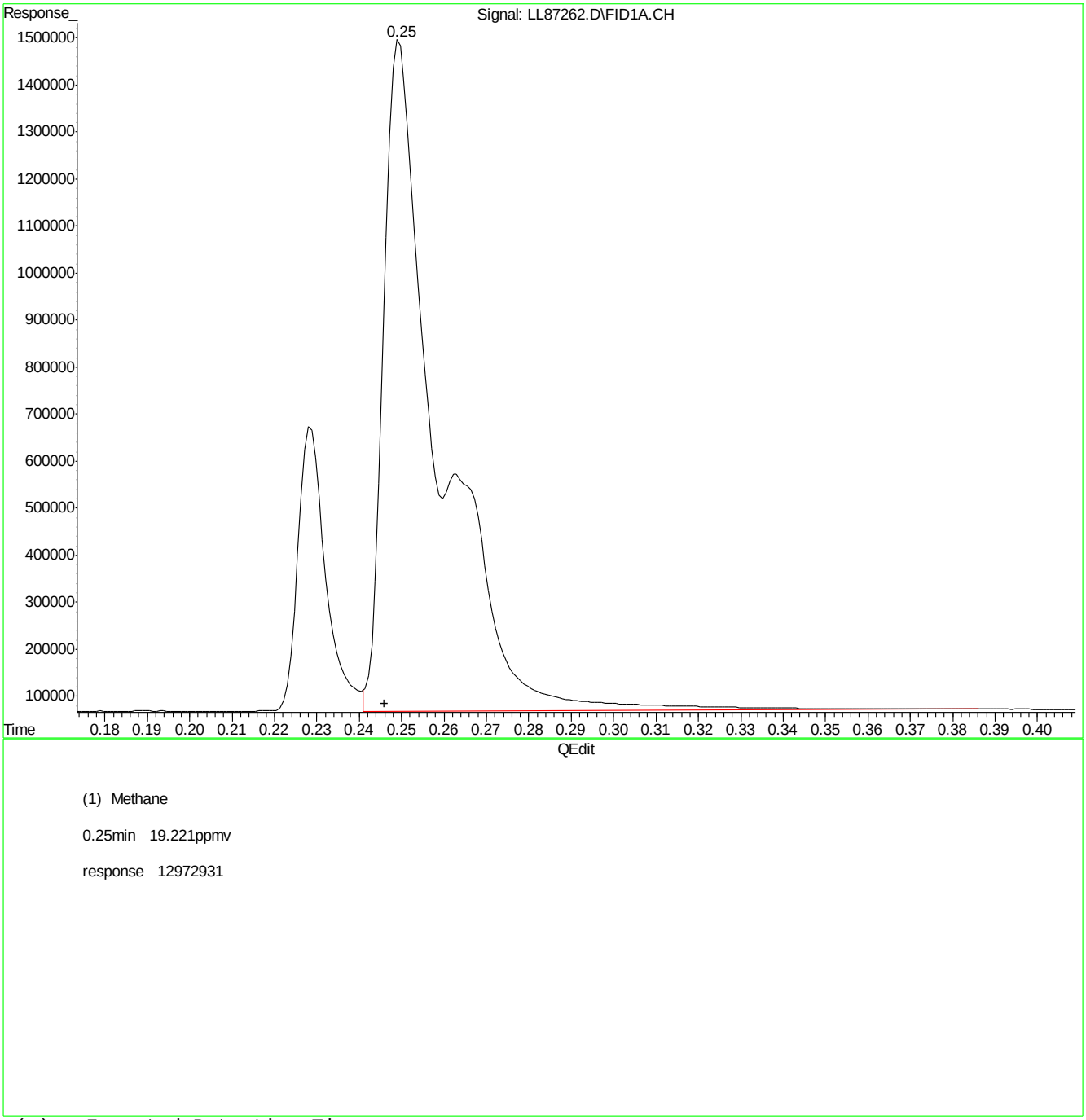
Sample Number: GLL3025-IC3025
Lab FileID: LL87262.D
Injection Time: 01/10/24 12:12
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 19.221ppmv

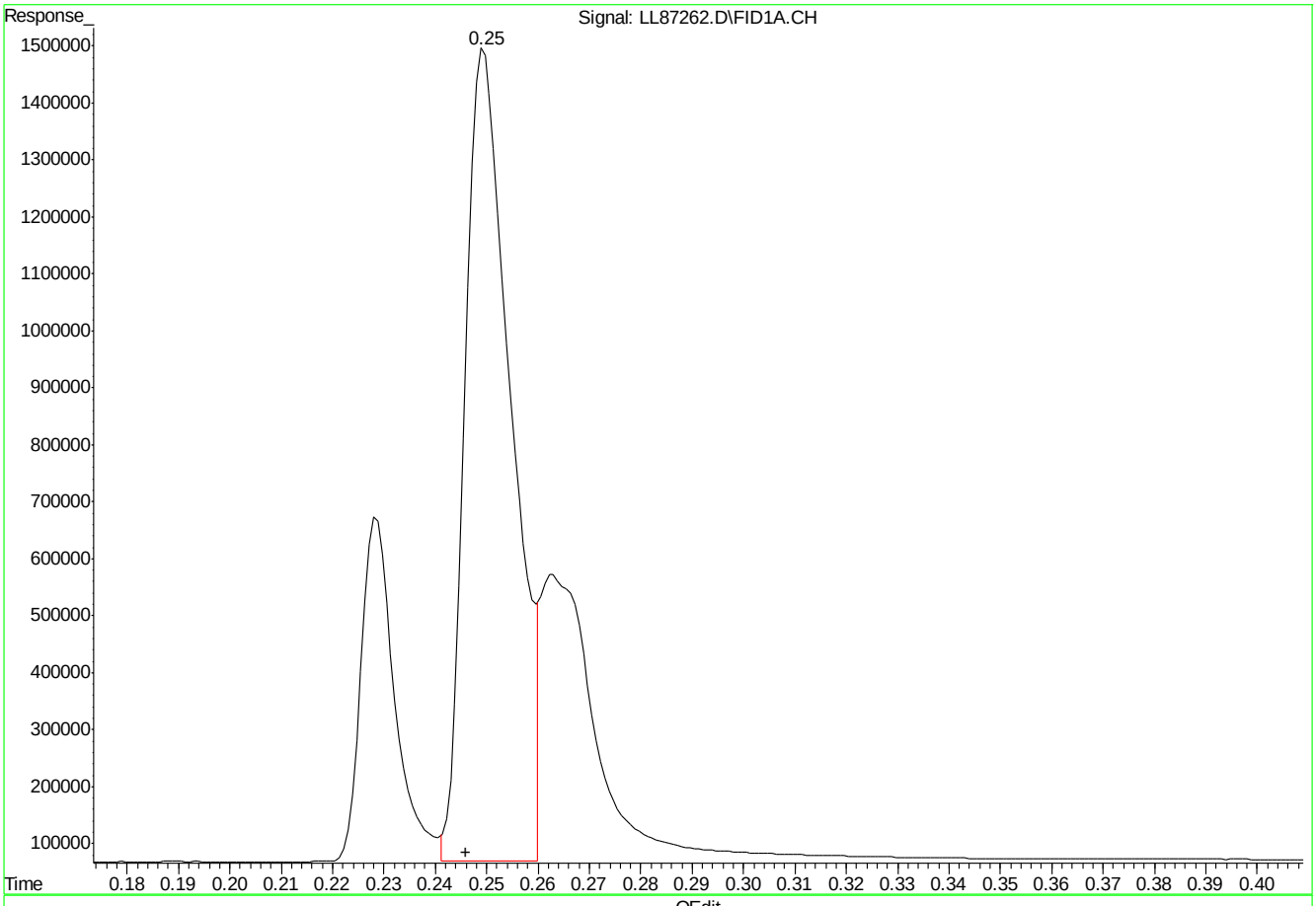
response 12972931

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:17:50 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 13.362ppmv m

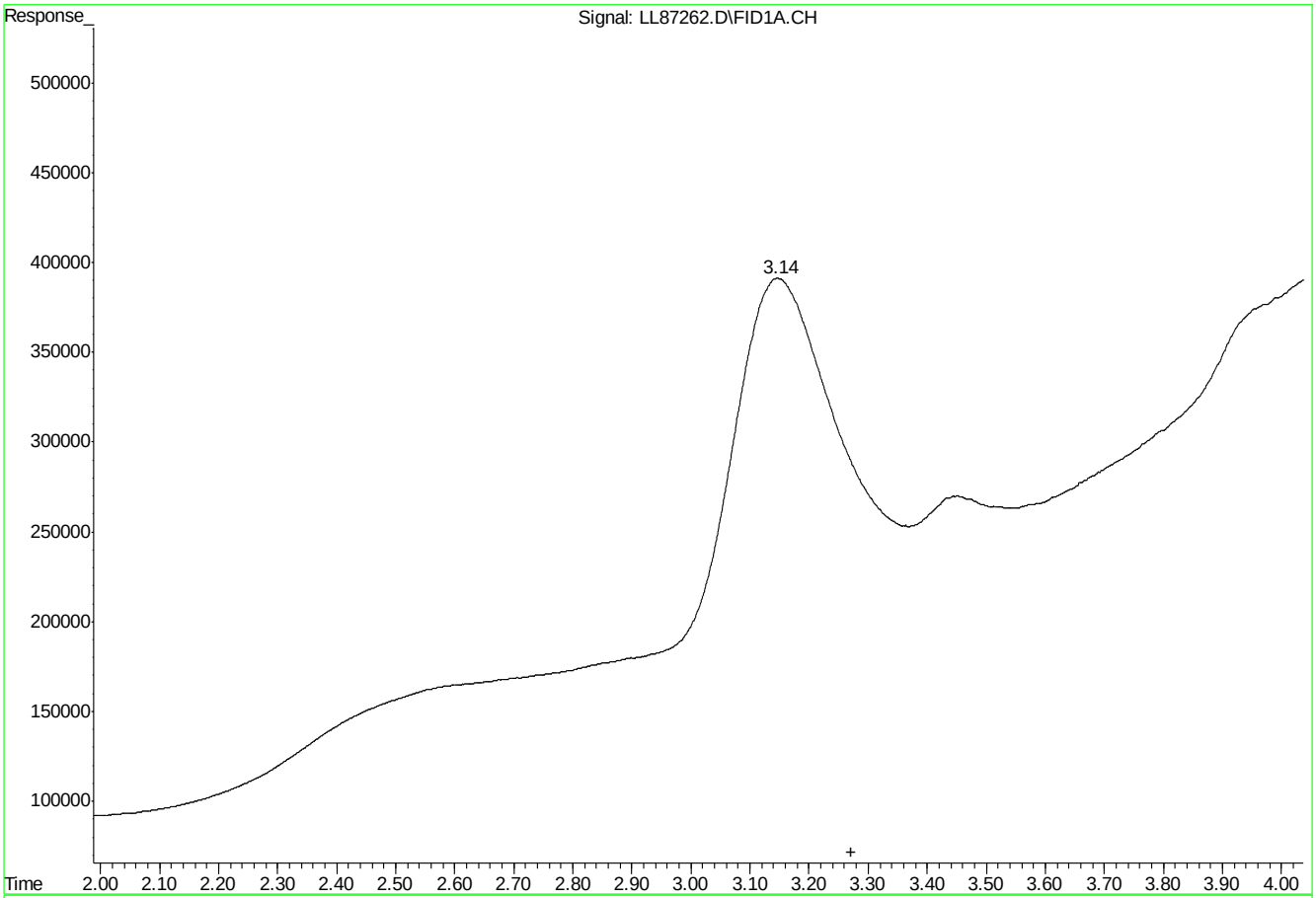
response 9018652

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:08 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(5) Propane

3.15min 10.921ppmv

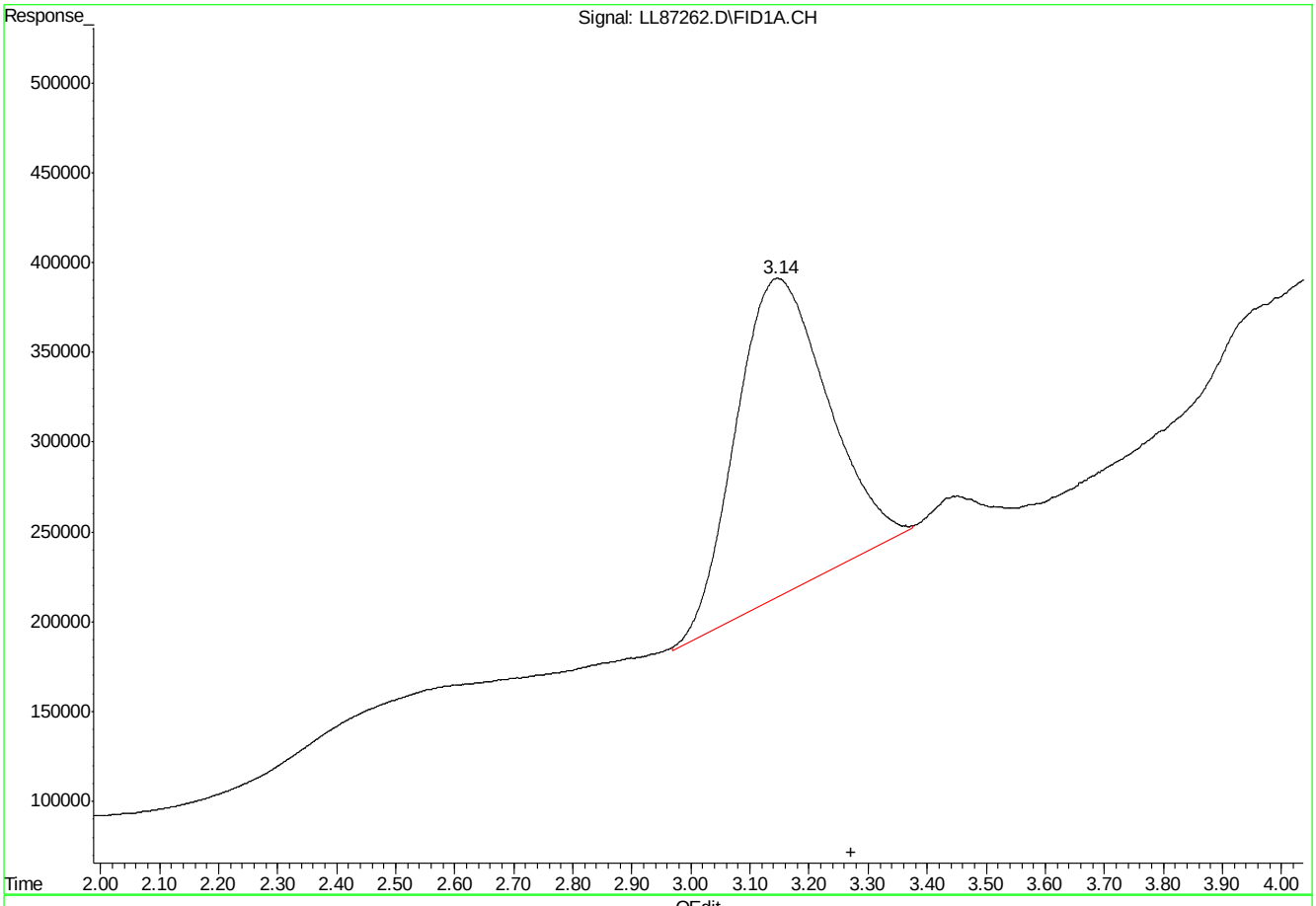
response 15839777

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:21 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 13.218ppmv m

response 19171082

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:30 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27:29 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	65183960	100.342	ppmv	m
2)	Acetylene	0.59	151262790	117.506	ppmv	
3)	Ethylene	0.75	111349981	101.004	ppmv	
4)	Ethane	0.97	116602597	103.601	ppmv	
5)	Propane	3.14	146680091	109.820	ppmv	m

9.6.3

6

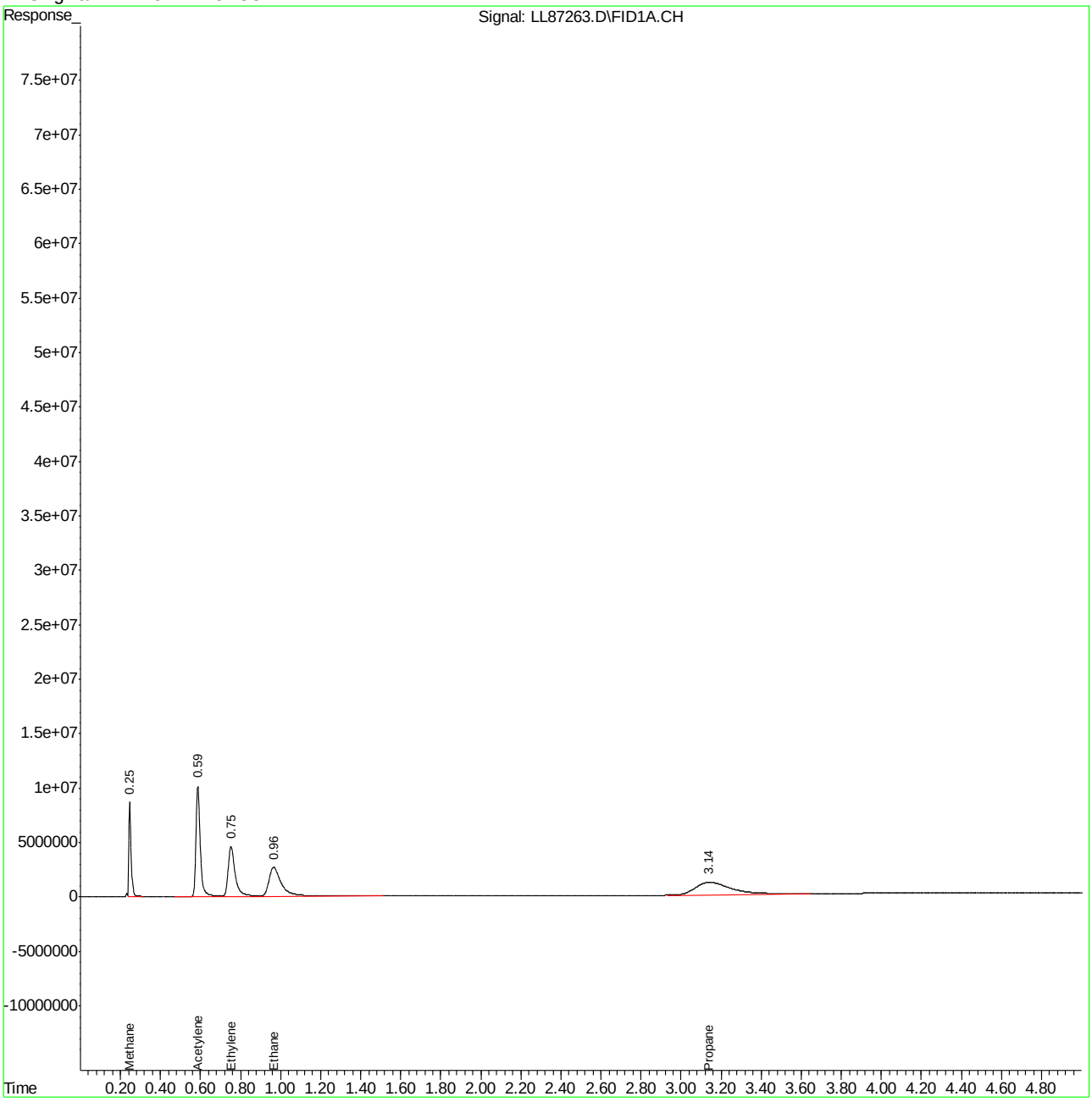
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87263.D RSK01102024.M Thu Jan 11 11:19:05 2024 Page 1

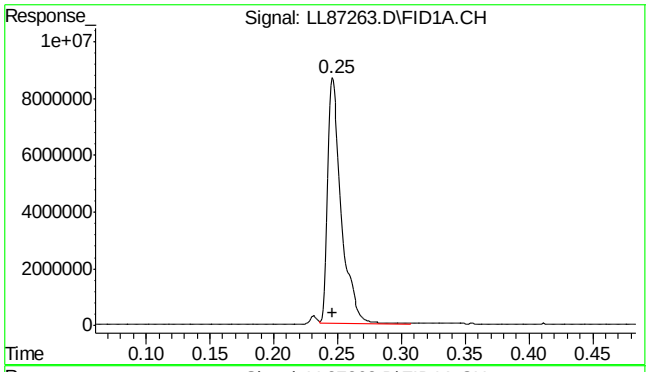
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:28 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

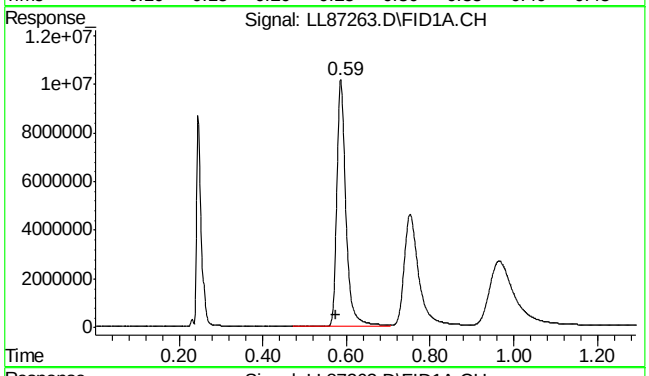
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





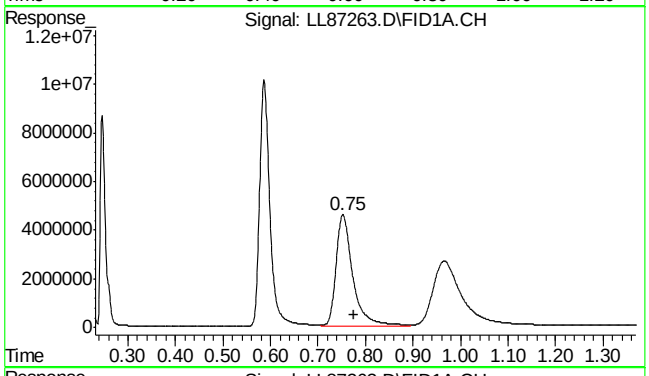
#1 Methane

R.T.: 0.246 min
Delta R.T.: 0.000 min
Response: 65183960
Conc: 100.34 ppmv m



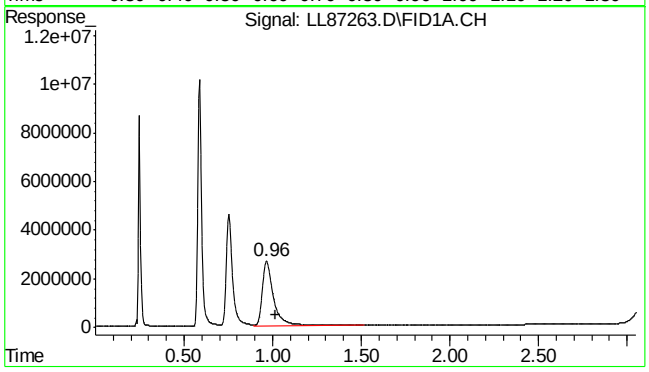
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 151262790
Conc: 117.51 ppmv



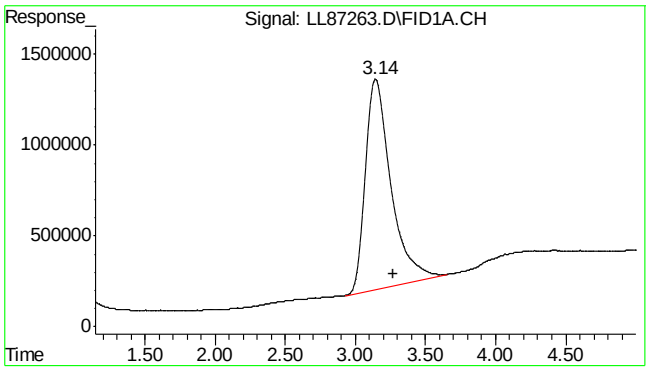
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 111349981
Conc: 101.00 ppmv



#4 Ethane

R.T.: 0.966 min
Delta R.T.: -0.048 min
Response: 116602597
Conc: 103.60 ppmv



#5 Propane

R.T.: 3.140 min
Delta R.T.: -0.131 min
Response: 146680091
Conc: 109.82 ppmv m

Manual Integration Approval Summary

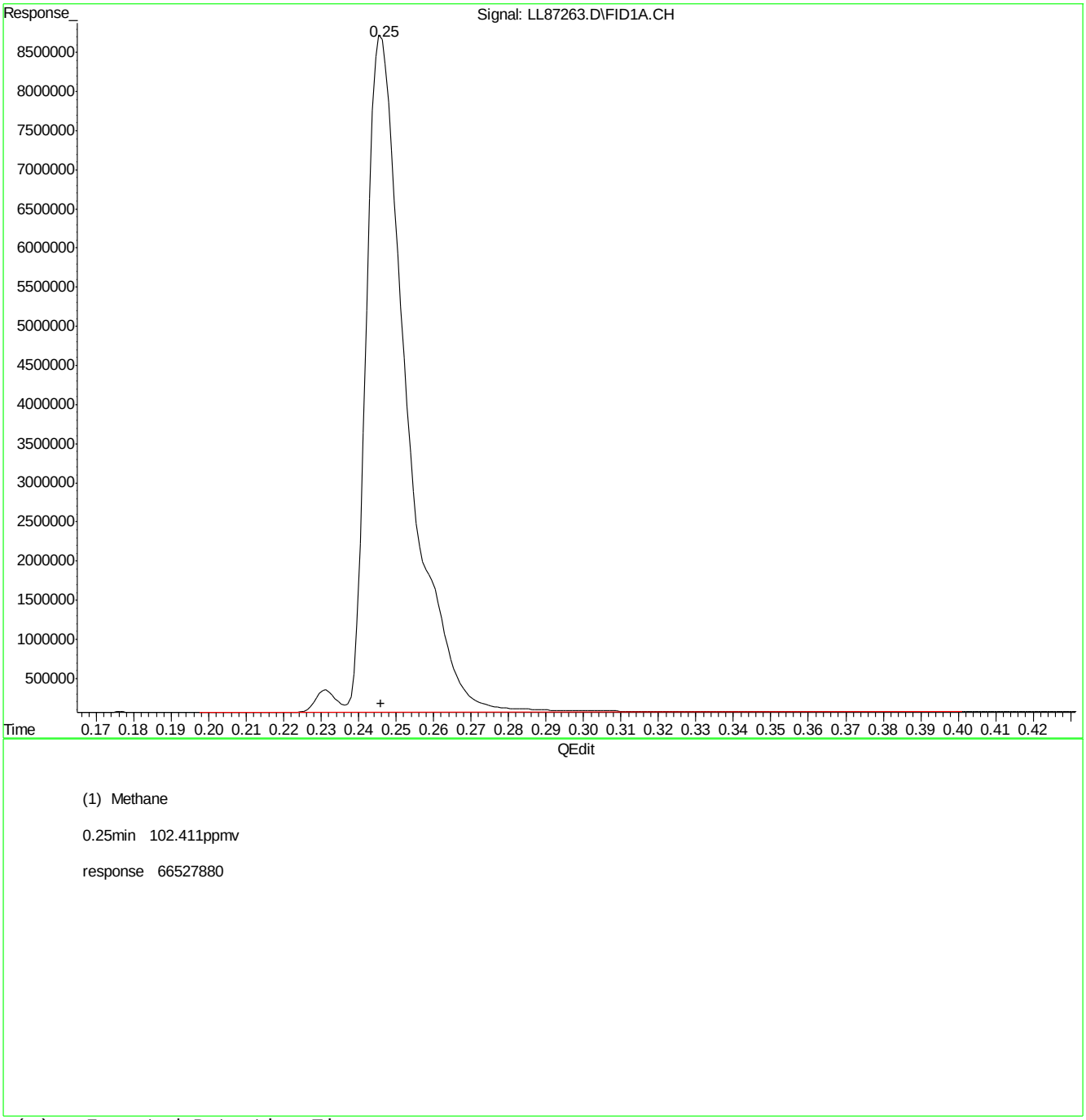
Sample Number: GLL3025-IC3025
Lab FileID: LL87263.D
Injection Time: 01/10/24 12:21
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration

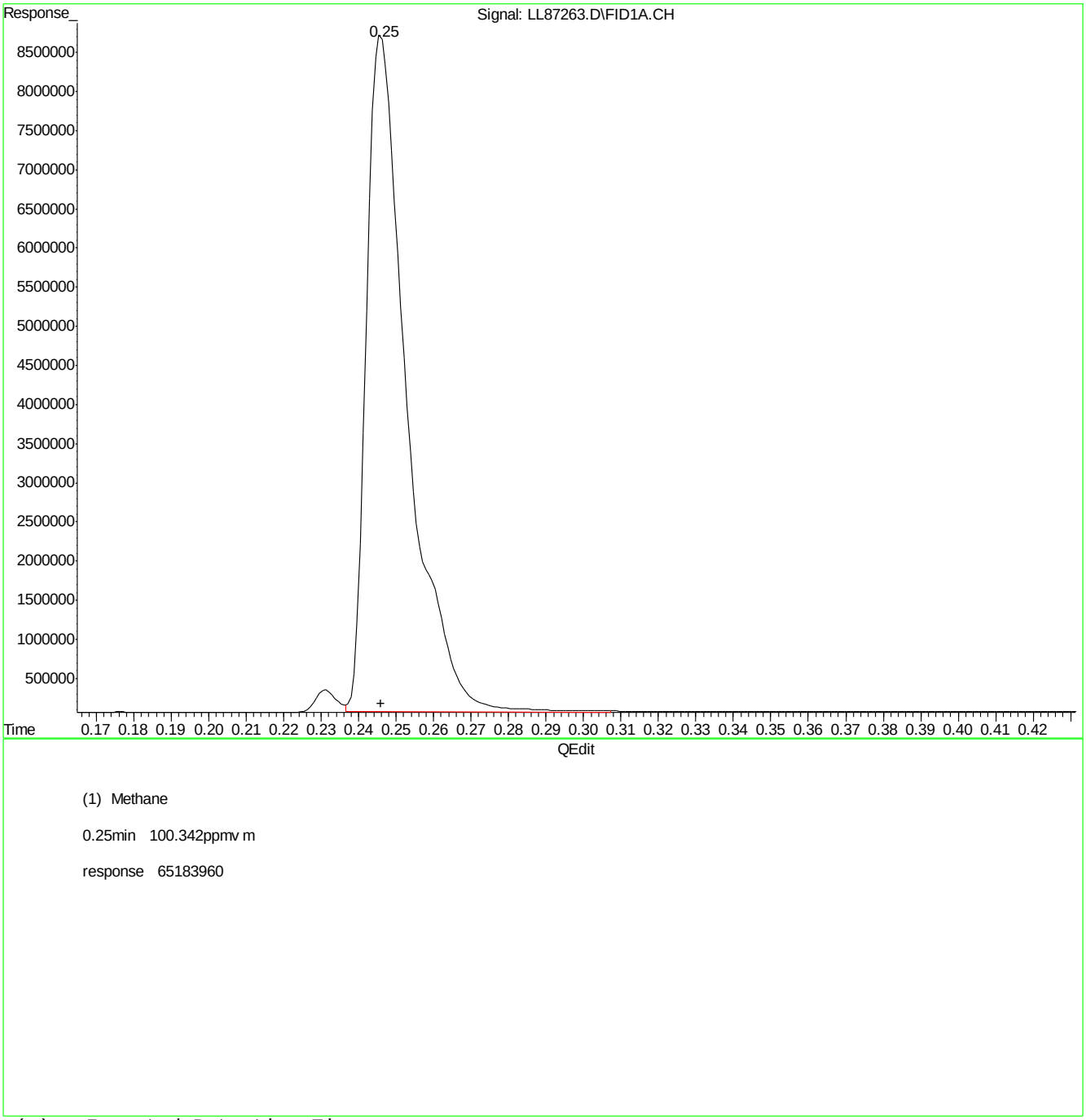


(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:27:55 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration

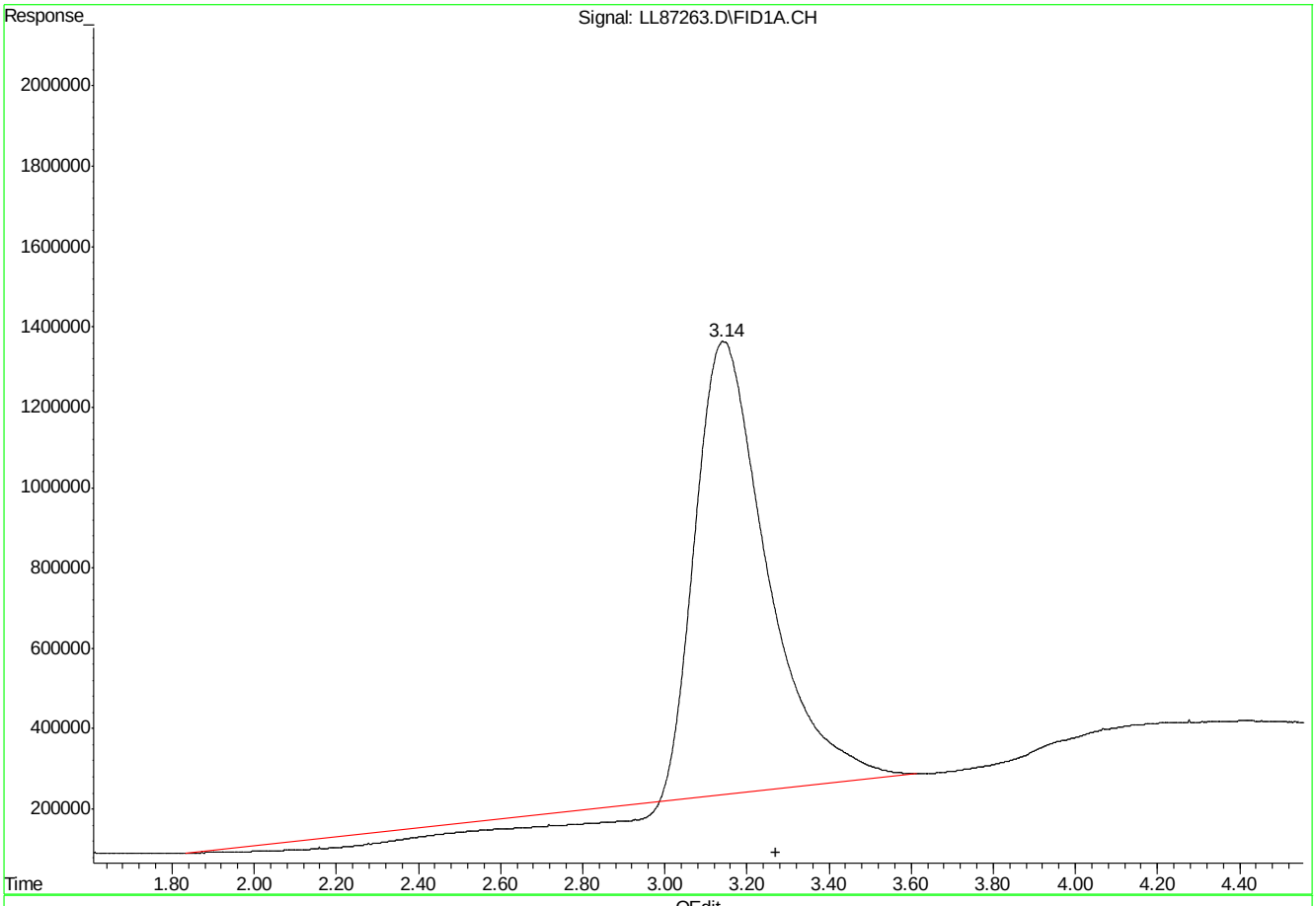


(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:11 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 90.784ppmv

response 121254462

(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:19 2024

LL87263.D edits: Propane

FC16561

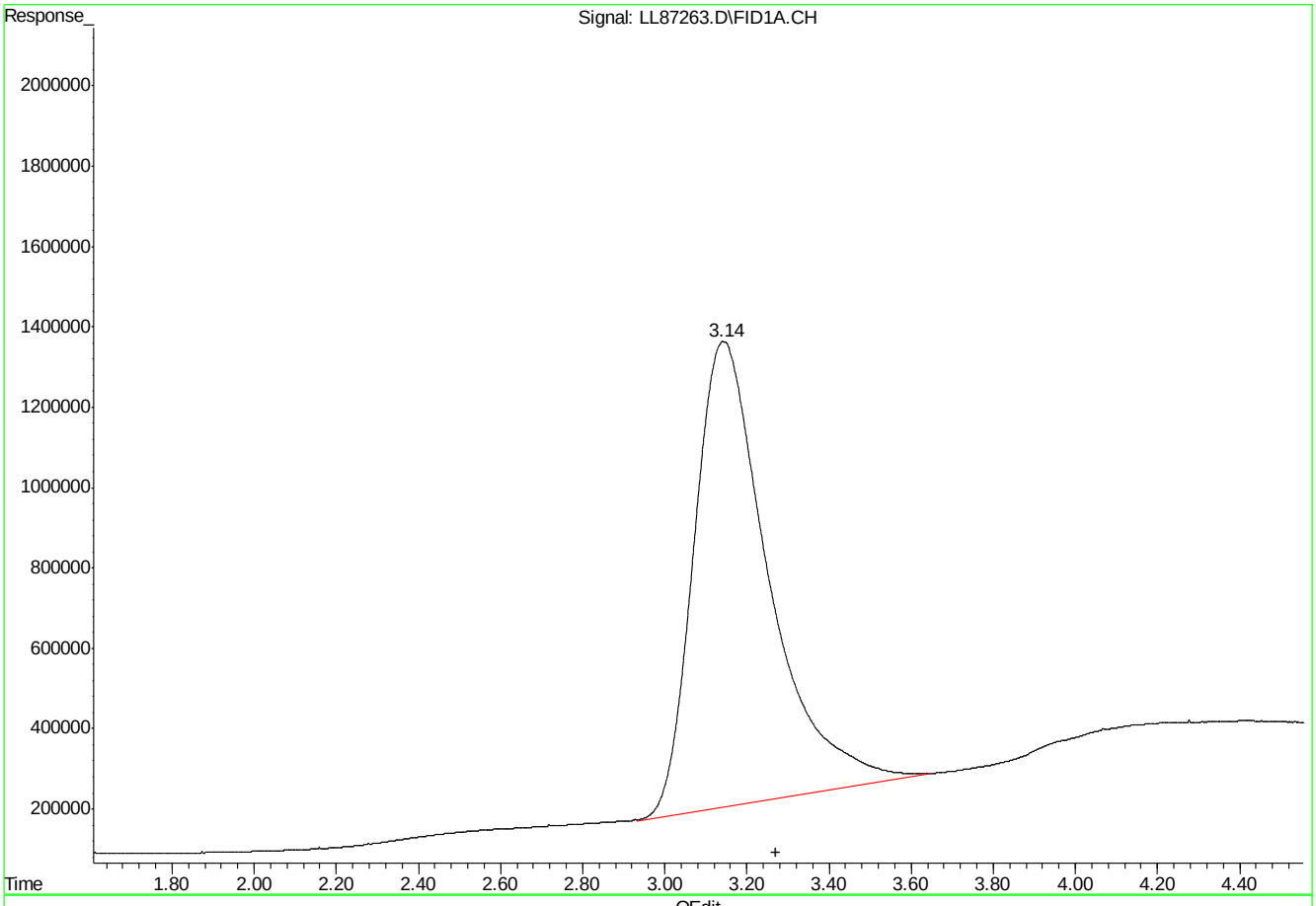
9.6.3.4

9

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 109.820ppmv m

response 146680091

(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:25 2024

LL87263.D edits: Propane

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36:13 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	341393400	516.315	ppmv	m
2)	Acetylene	0.59	818451880	604.883	ppmv	
3)	Ethylene	0.75	592803687	528.063	ppmv	
4)	Ethane	0.96	630023313	546.737	ppmv	
5)	Propane	3.14	826078445	601.353	ppmv	m

9.6.4

9

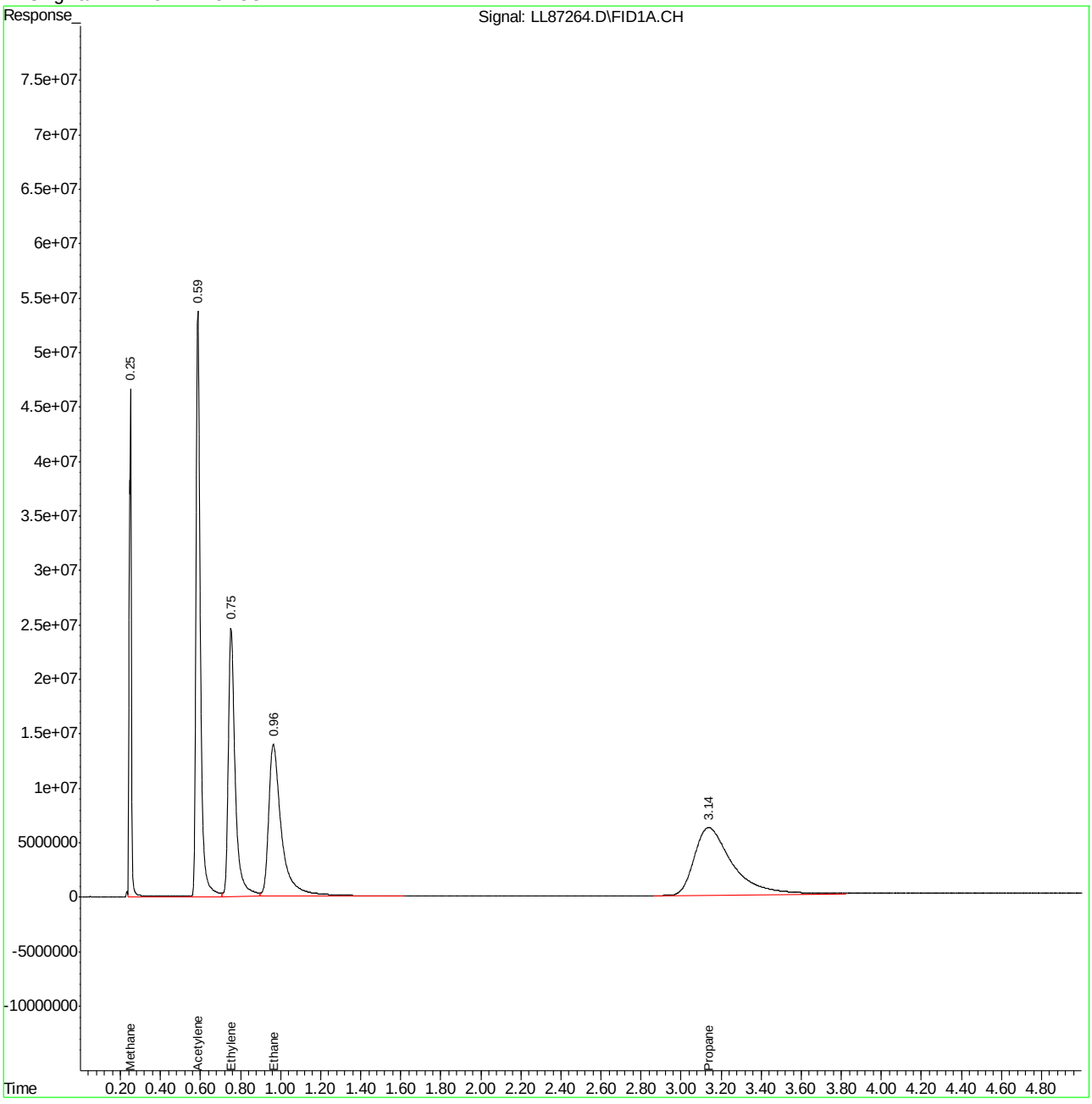
(f)=RT Delta > 1/2 Window (m)=manual int.

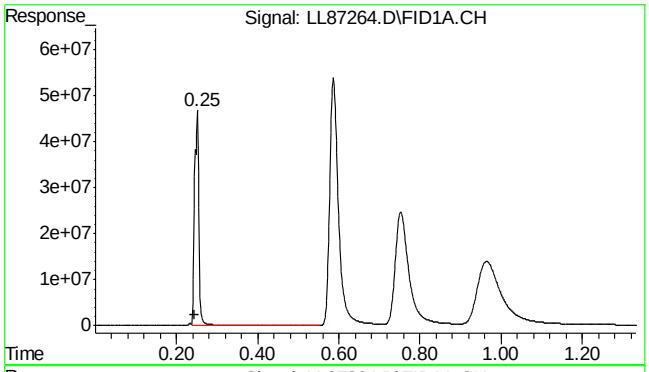
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:46 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

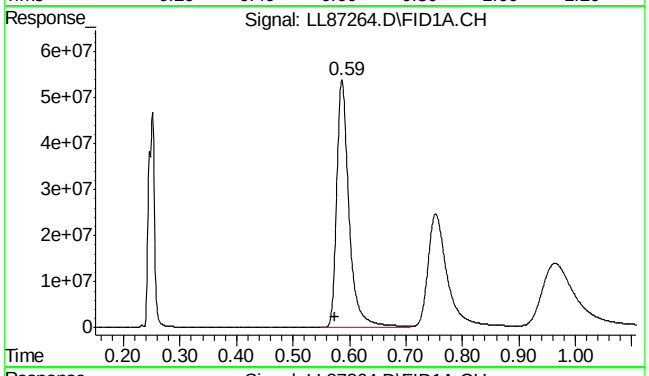
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





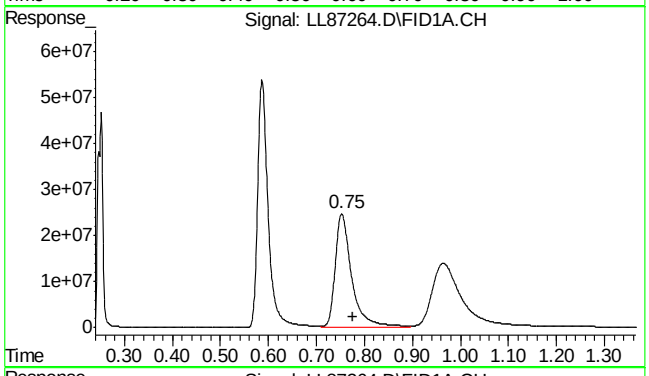
#1 Methane

R.T.: 0.251 min
Delta R.T.: 0.005 min
Response: 341393400
Conc: 516.32 ppmv m



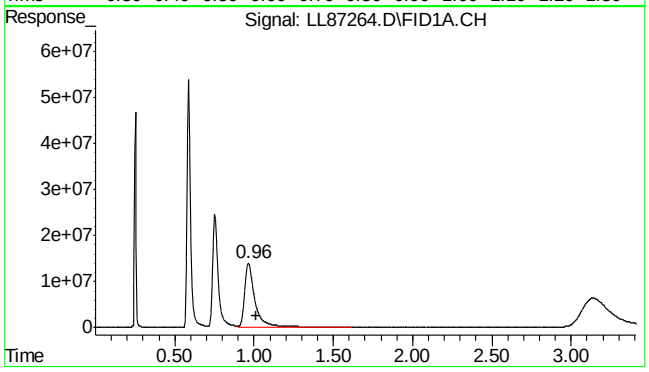
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 818451880
Conc: 604.88 ppmv



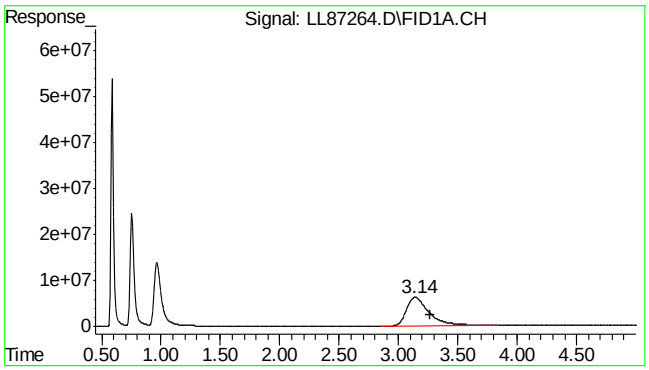
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 592803687
Conc: 528.06 ppmv



#4 Ethane

R.T.: 0.964 min
Delta R.T.: -0.050 min
Response: 630023313
Conc: 546.74 ppmv



#5 Propane

R.T.: 3.136 min
Delta R.T.: -0.135 min
Response: 826078445
Conc: 601.35 ppmv m

Manual Integration Approval Summary

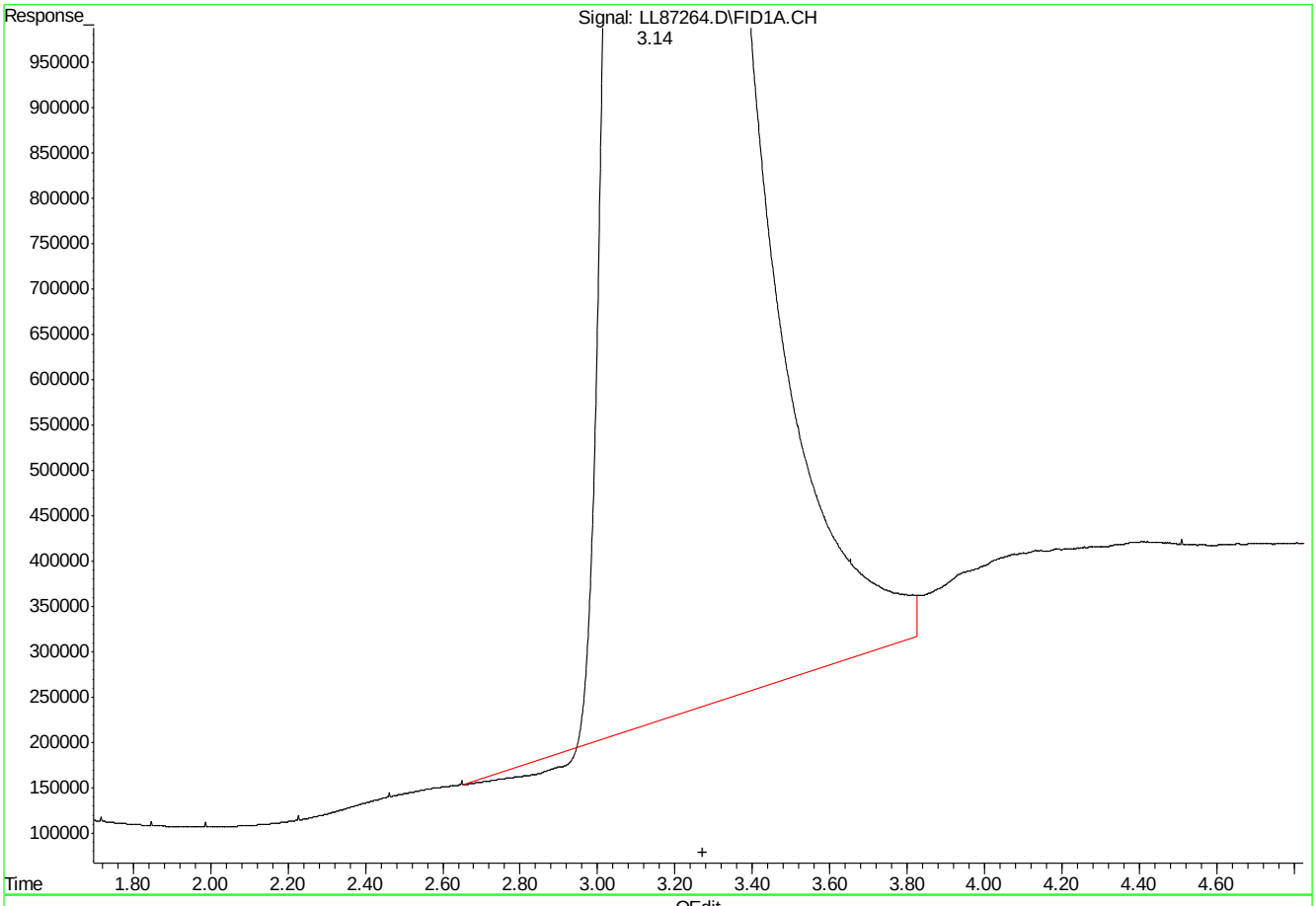
Sample Number: GLL3025-IC3025
Lab FileID: LL87264.D
Injection Time: 01/10/24 12:30
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 594.949ppmv

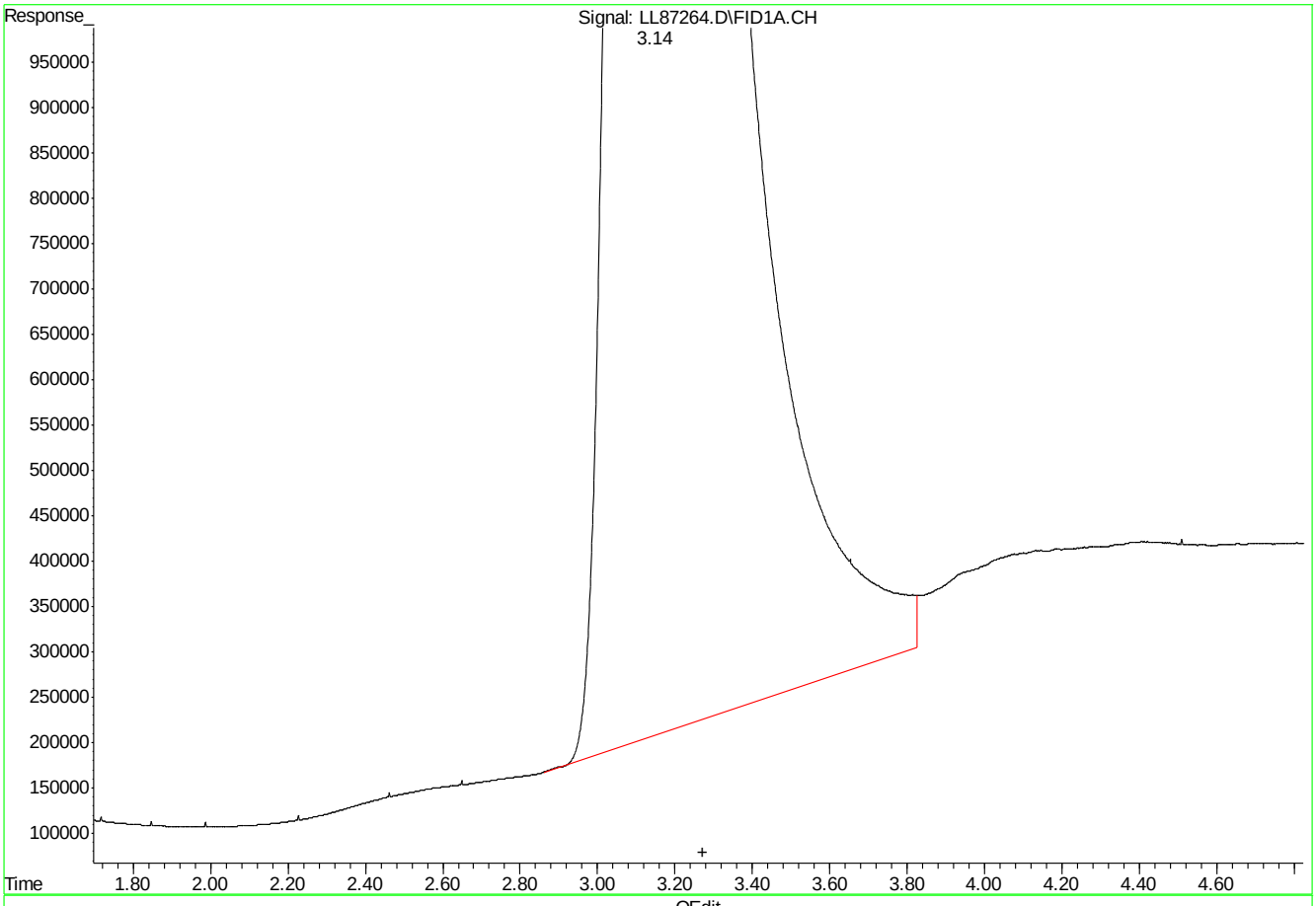
response 817281281

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:36:44 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 601.353ppmv m

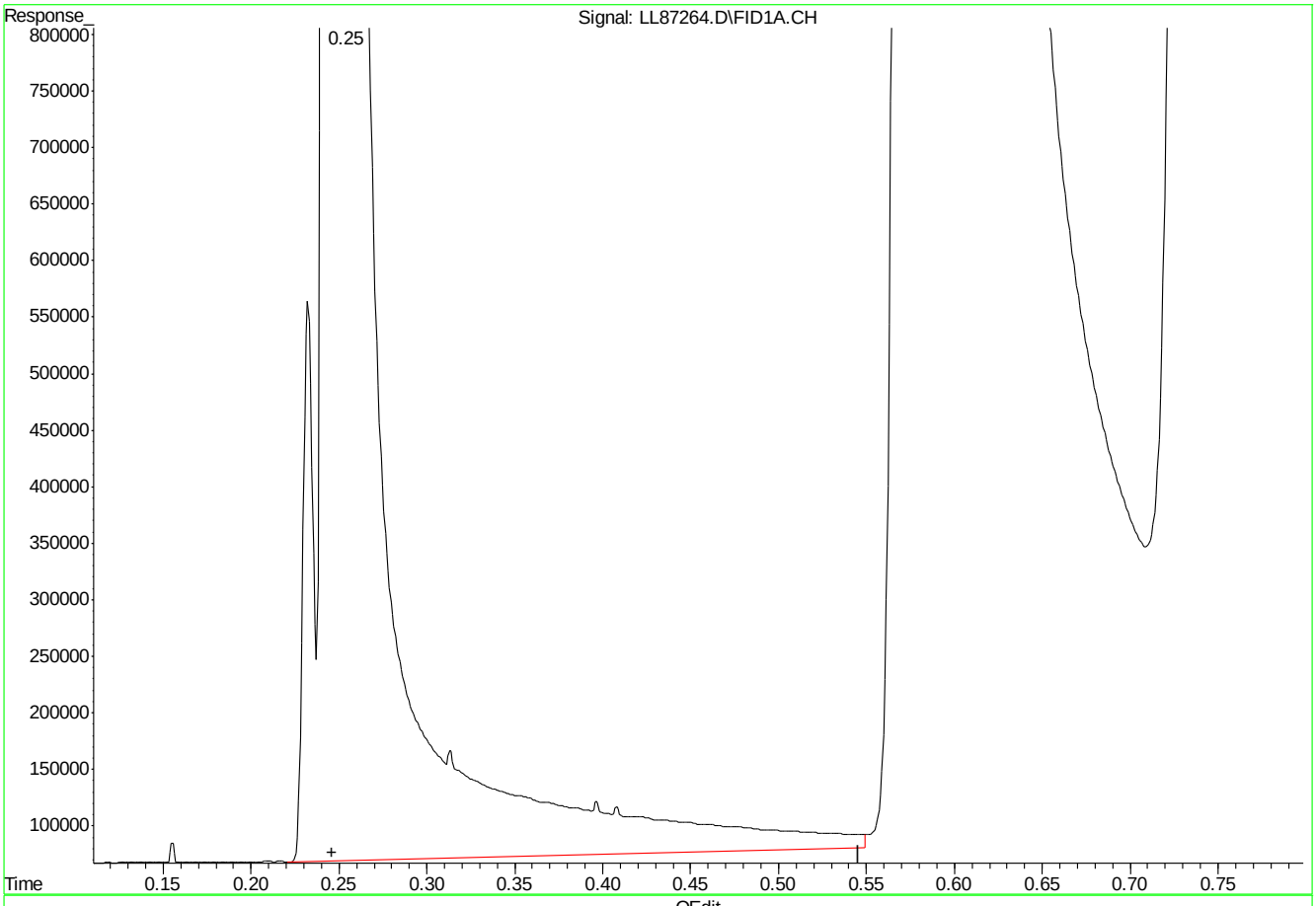
response 826078445

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:36:53 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 519.483ppmv

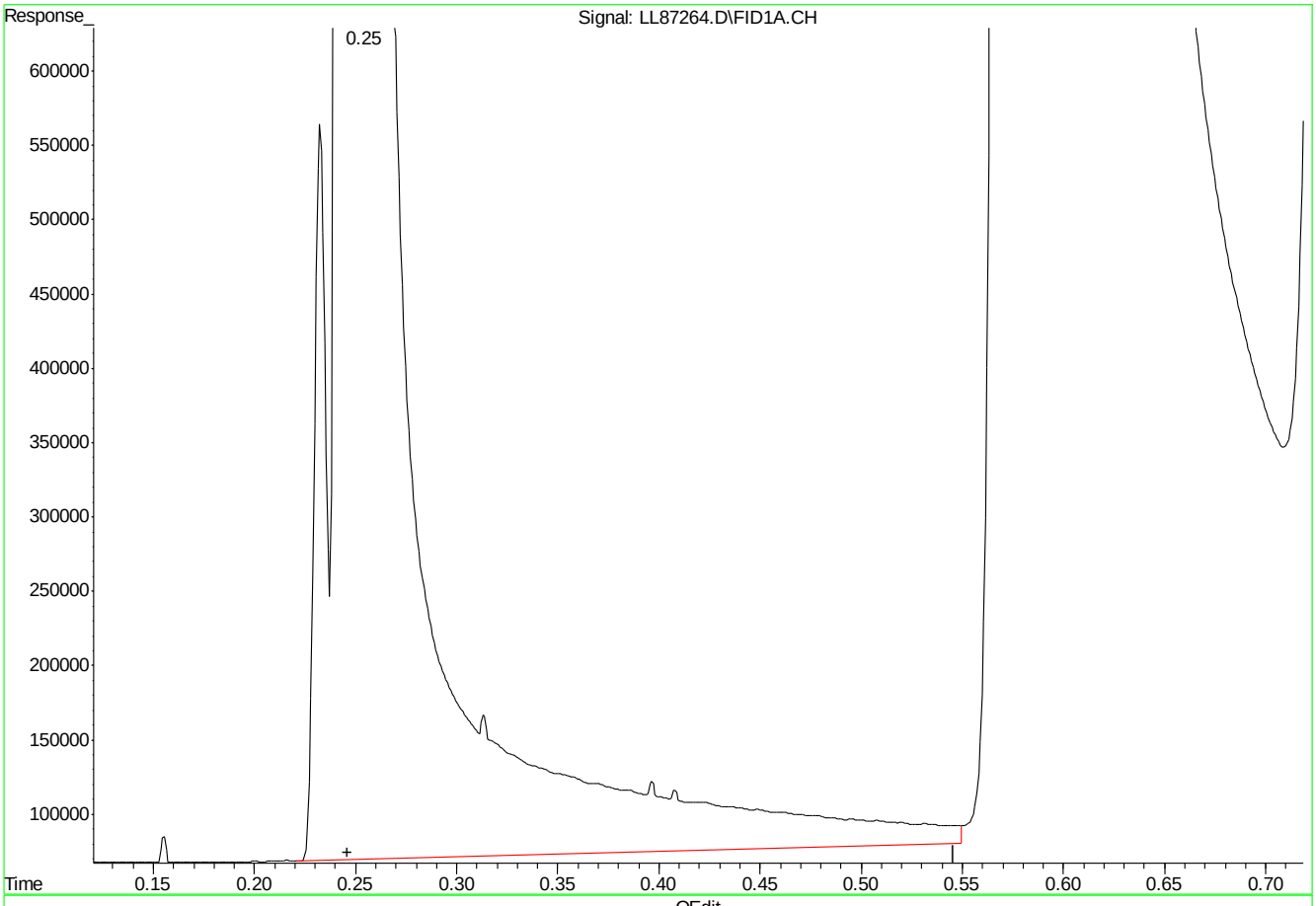
response 343488169

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:37:53 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 519.483ppmv

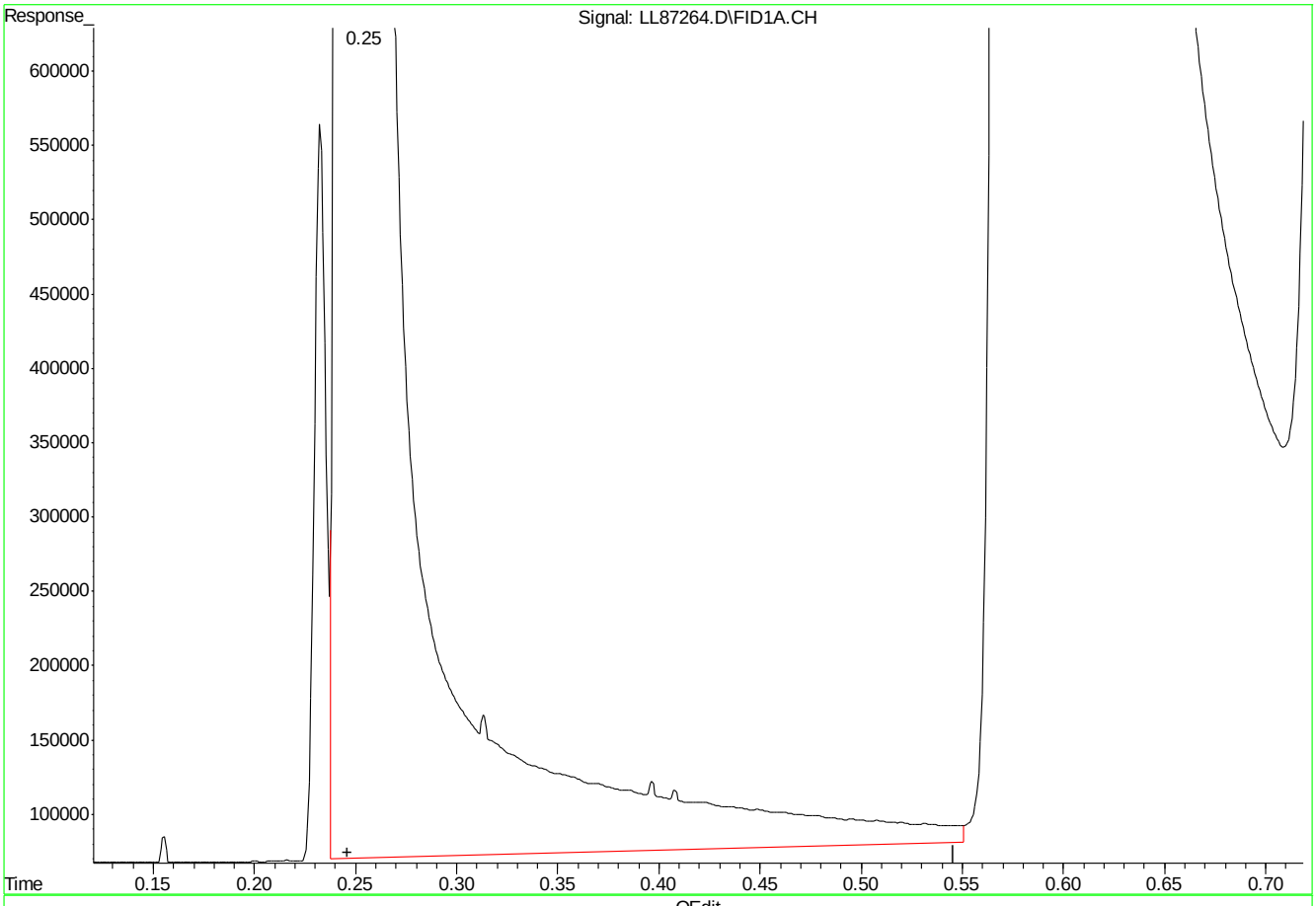
response 343488169

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:45:58 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 516.315ppmv m

response 341393400

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:46:29 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44:59 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	692525218	1033.904	ppmv	
2)	Acetylene	0.59	1670268886	1186.898	ppmv	
3)	Ethylene	0.75	1193037905	1051.951	ppmv	
4)	Ethane	0.96	1252524441	1067.662	ppmv	
5)	Propane	3.13	1666745538	1181.891	ppmv	m

9.6.5

6

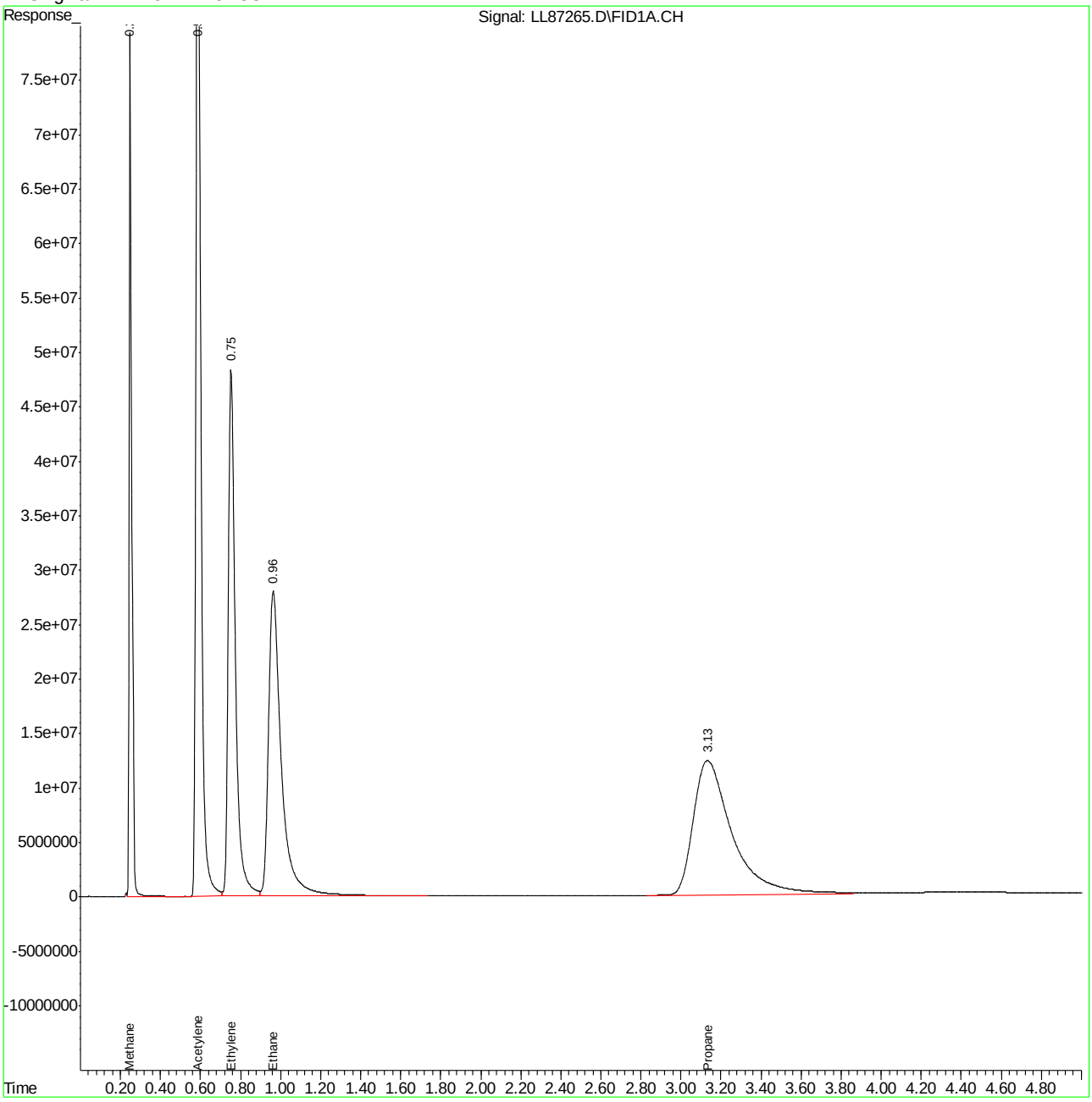
(f)=RT Delta > 1/2 Window (m)=manual int.

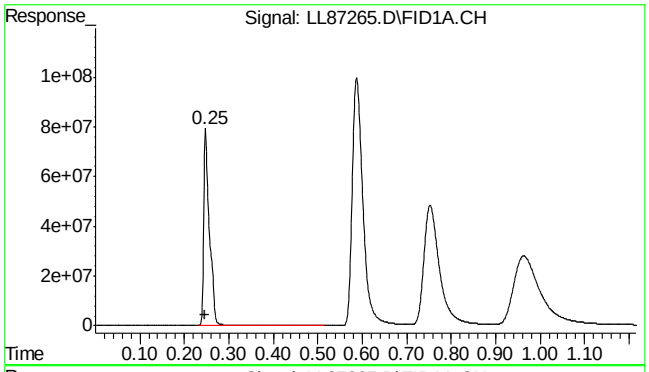
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:45 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

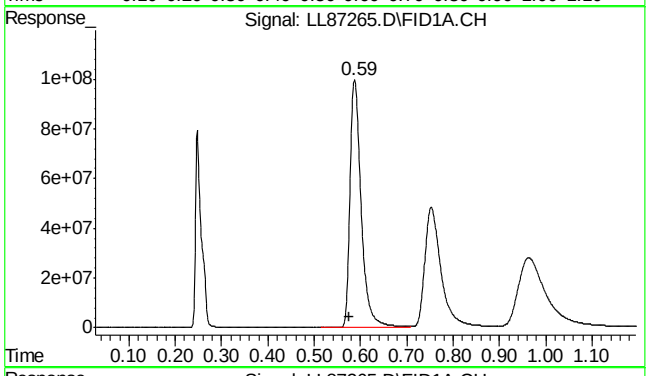
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





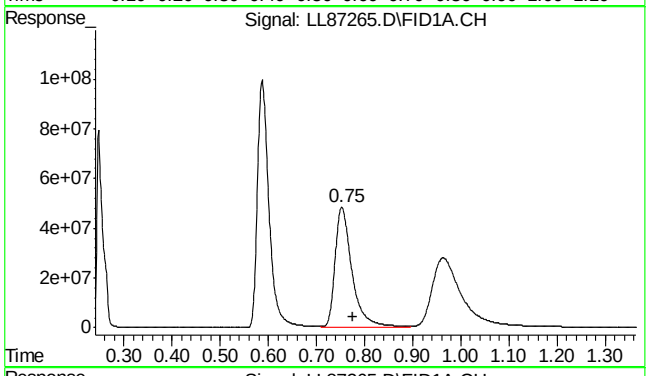
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.002 min
Response: 692525218
Conc: 1033.90 ppmv



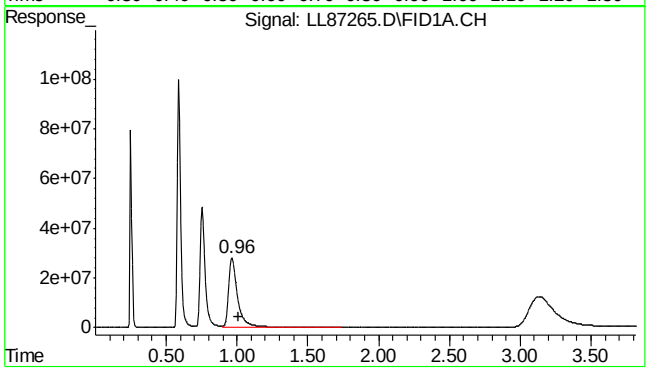
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 1670268886
Conc: 1186.90 ppmv



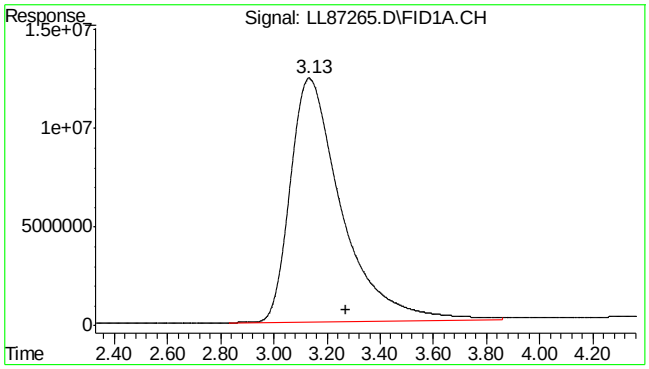
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 1193037905
Conc: 1051.95 ppmv



#4 Ethane

R.T.: 0.963 min
Delta R.T.: -0.051 min
Response: 1252524441
Conc: 1067.66 ppmv



#5 Propane

R.T.: 3.133 min
Delta R.T.: -0.138 min
Response: 1666745538
Conc: 1181.89 ppmv m

Manual Integration Approval Summary

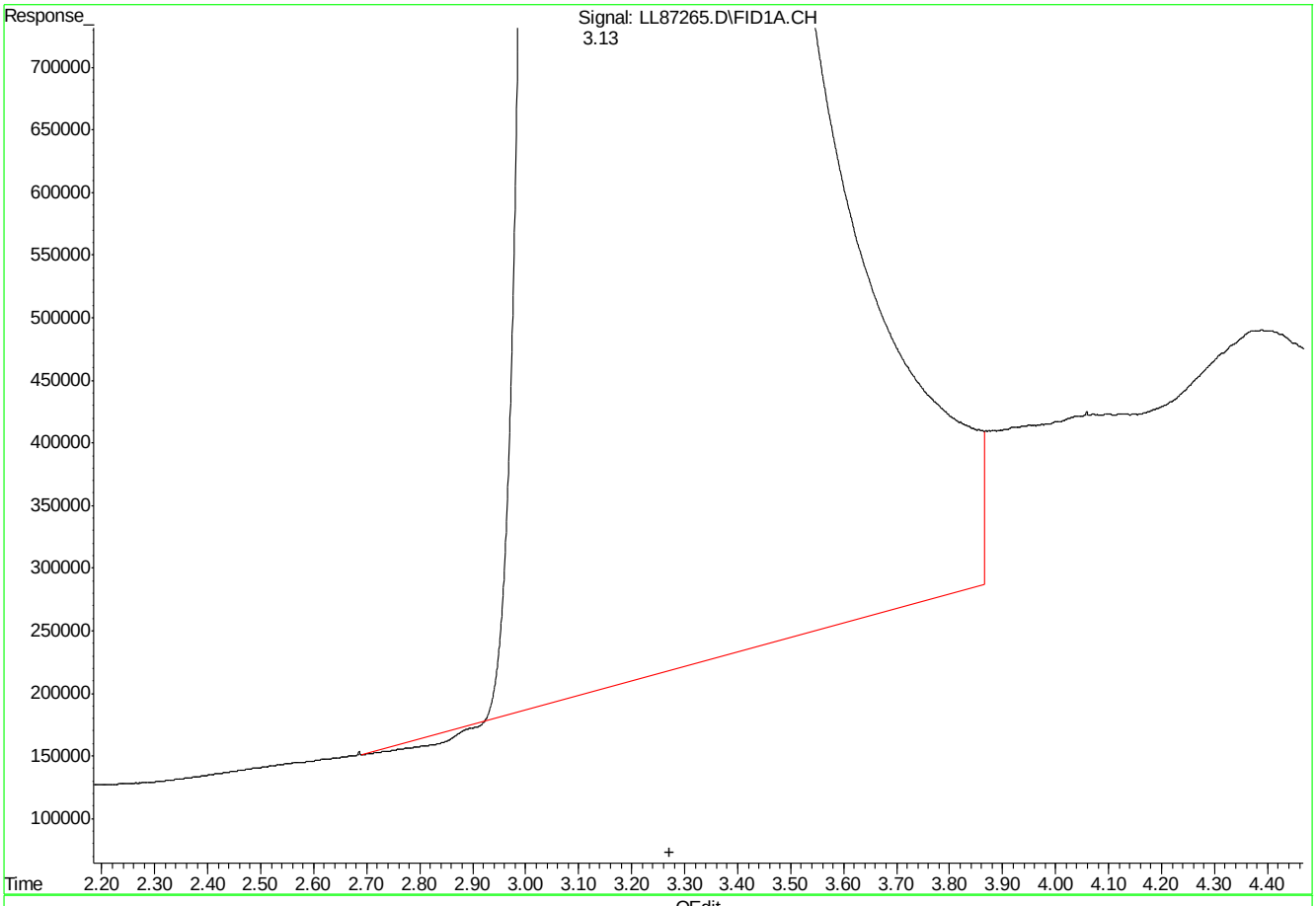
Sample Number: GLL3025-ICC3025
Lab FileID: LL87265.D
Injection Time: 01/10/24 12:39
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.13	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 1179.332ppmv

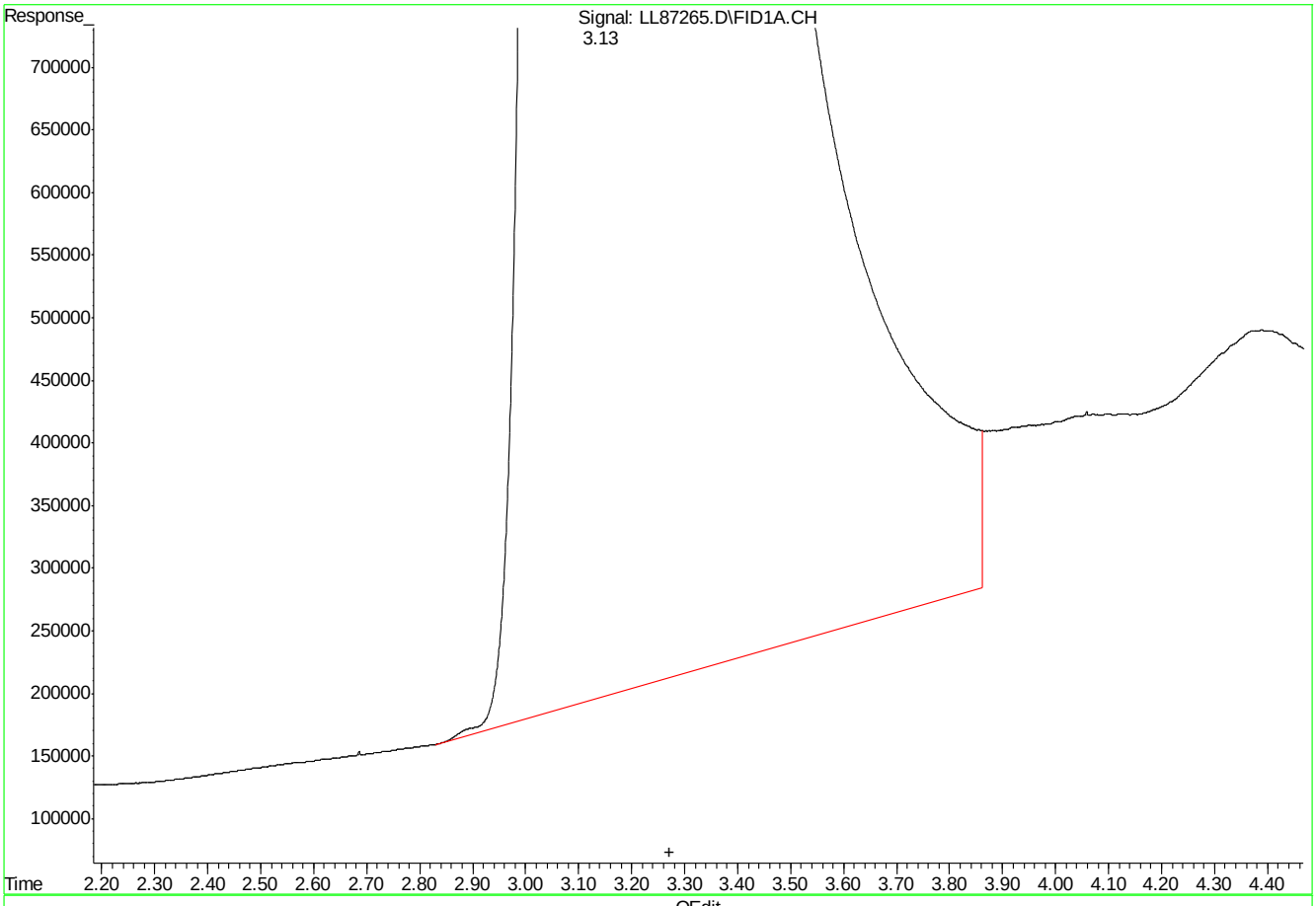
response 1663136781

(+) = Expected Retention Time
LL87265.D RSK01102024.M Wed Jan 10 12:45:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 1181.891ppmv m

response 1666745538

(+) = Expected Retention Time
LL87265.D RSK01102024.M Wed Jan 10 12:45:22 2024

LL87265.D edits: Propane

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87266.D Vial: 8
Acq On : 10 Jan 2024 12:49 pm Operator: jennr
Sample : ic3025-6 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:55:12 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:46:44 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.24	3512574222	5171.599	ppmv
2)	Acetylene	0.57	8146758342	5567.349	ppmv
3)	Ethylene	0.73	6208572601	5420.576	ppmv
4)	Ethane	0.94	6573879018	5514.595	ppmv
5)	Propane	3.10	8829234737	6135.402	ppmv

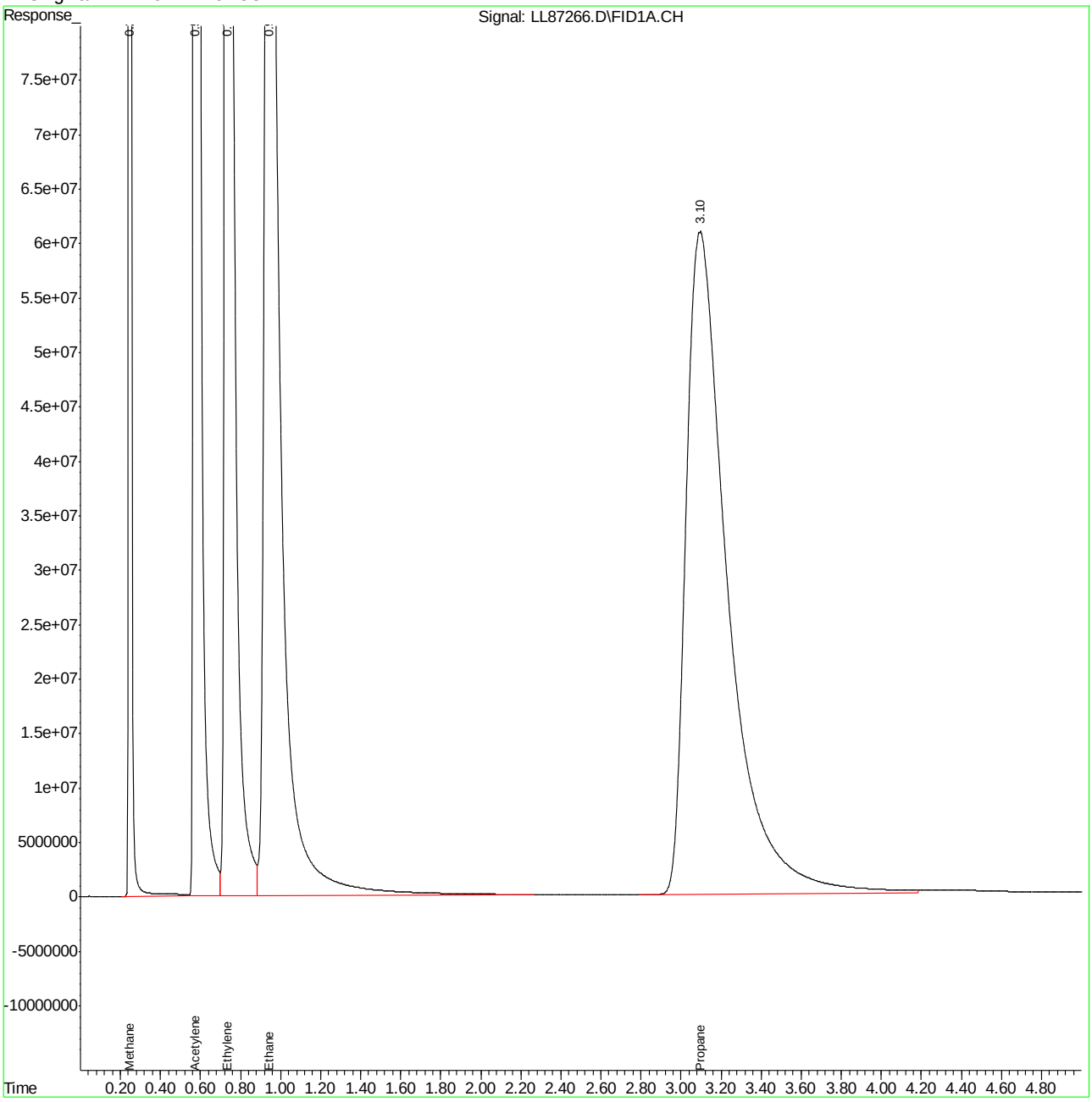
(f)=RT Delta > 1/2 Window (m)=manual int.

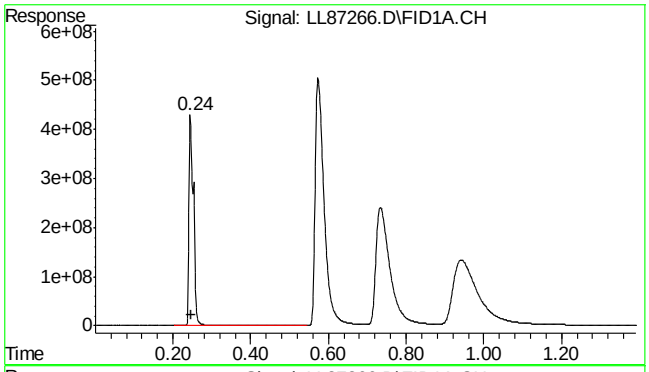
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87266.D Vial: 8
Acq On : 10 Jan 2024 12:49 pm Operator: jennr
Sample : ic3025-6 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:55 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:46:44 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

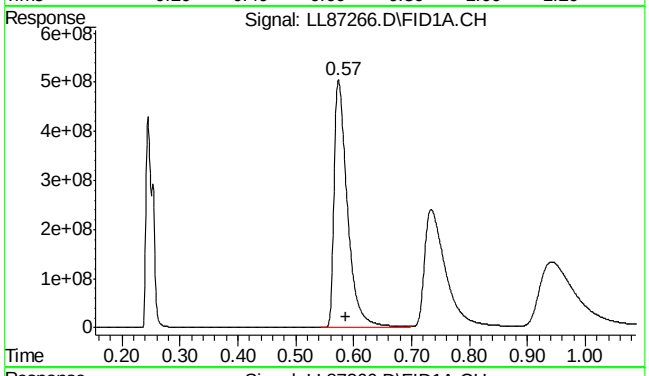
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





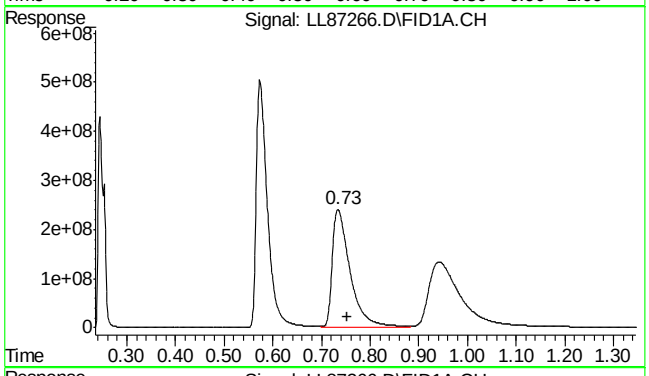
#1 Methane

R.T.: 0.245 min
Delta R.T.: -0.003 min
Response: 3512574222
Conc: 5171.60 ppmv



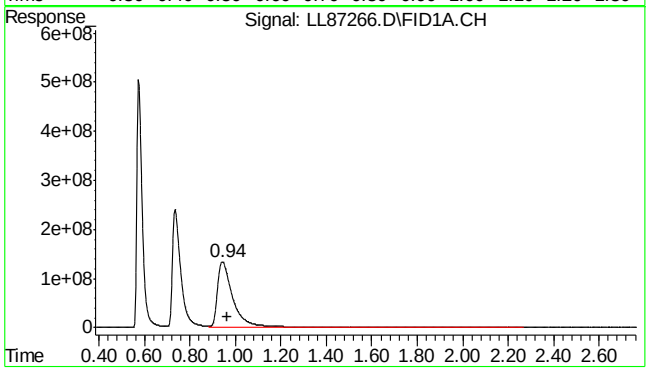
#2 Acetylene

R.T.: 0.574 min
Delta R.T.: -0.013 min
Response: 8146758342
Conc: 5567.35 ppmv



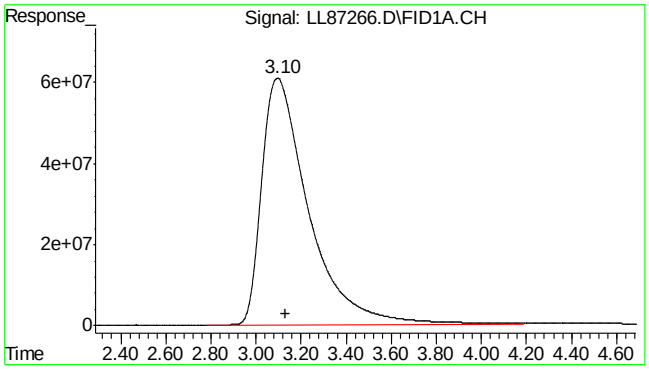
#3 Ethylene

R.T.: 0.734 min
Delta R.T.: -0.019 min
Response: 6208572601
Conc: 5420.58 ppmv



#4 Ethane

R.T.: 0.942 min
Delta R.T.: -0.021 min
Response: 6573879018
Conc: 5514.60 ppmv



#5 Propane

R.T.: 3.097 min
Delta R.T.: -0.036 min
Response: 8829234737
Conc: 6135.40 ppmv

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87267.D Vial: 9
Acq On : 10 Jan 2024 12:57 pm Operator: jennr
Sample : ic3025-7 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:02:54 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:55:43 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.25	6881486577	9970.013	ppmv
2)	Acetylene	0.57	16172361875	10674.151	ppmv
3)	Ethylene	0.72	12134079812	10394.737	ppmv
4)	Ethane	0.93	12610890190	10343.108	ppmv
5)	Propane	3.05	17129980302	11555.377	ppmv

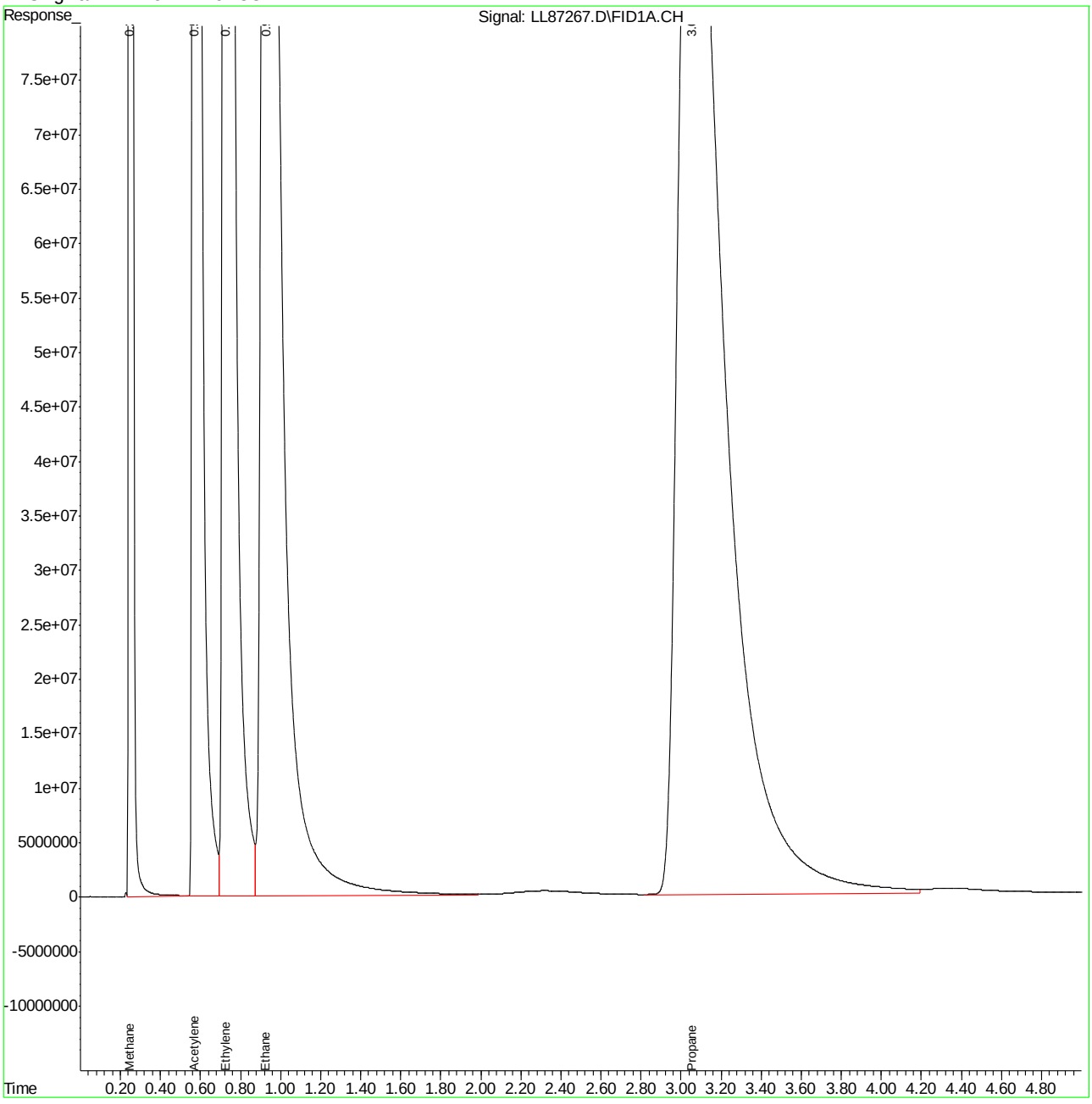
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87267.D RSK01102024.M Thu Jan 11 11:19:09 2024 Page 1

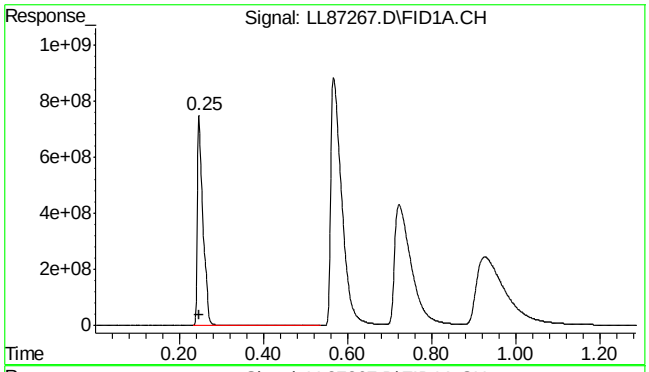
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87267.D Vial: 9
Acq On : 10 Jan 2024 12:57 pm Operator: jennr
Sample : ic3025-7 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:02 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:55:43 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

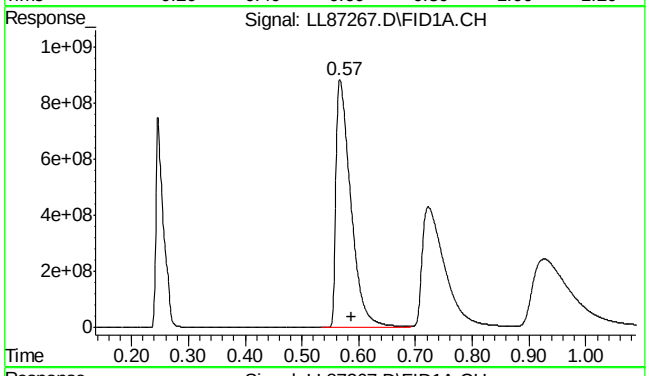
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





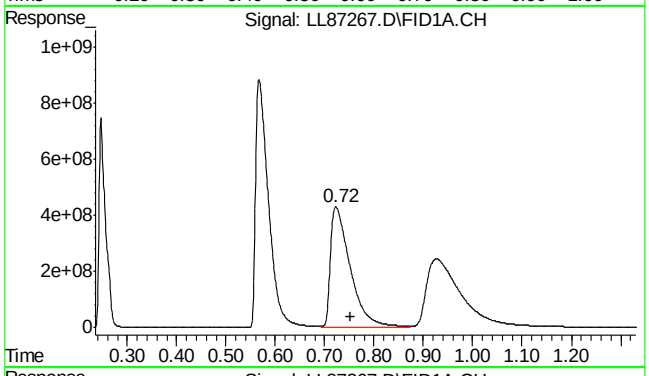
#1 Methane

R.T.: 0.247 min
Delta R.T.: 0.000 min
Response: 6881486577
Conc: 9970.01 ppmv



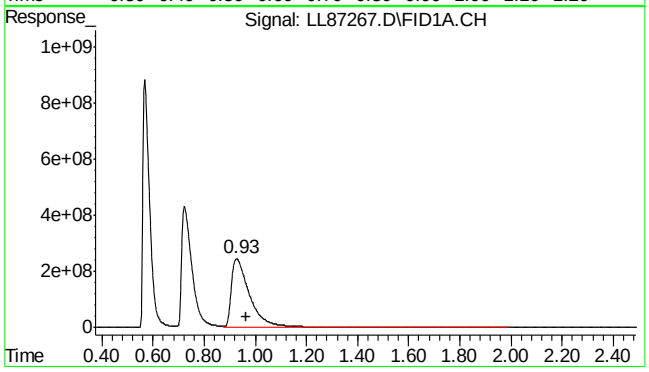
#2 Acetylene

R.T.: 0.567 min
Delta R.T.: -0.020 min
Response: 16172361875
Conc: 10674.15 ppmv



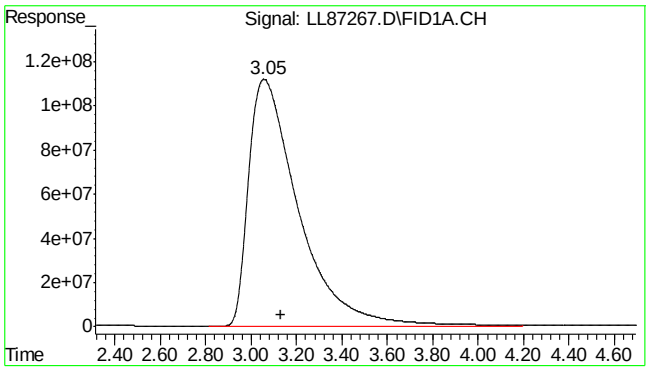
#3 Ethylene

R.T.: 0.723 min
Delta R.T.: -0.030 min
Response: 12134079812
Conc: 10394.74 ppmv



#4 Ethane

R.T.: 0.926 min
Delta R.T.: -0.037 min
Response: 12610890190
Conc: 10343.11 ppmv



#5 Propane

R.T.: 3.054 min
Delta R.T.: -0.078 min
Response: 17129980302
Conc: 11555.38 ppmv

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20:04 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.25	652746188	944.620	ppmv
2)	Acetylene	0.58	1505435198	970.589	ppmv
3)	Ethylene	0.75	1148444501	968.908	ppmv
4)	Ethane	0.96	1180763078	952.404	ppmv
5)	Propane	3.13	1603237187	930.516	ppmv m

9.6.8
9

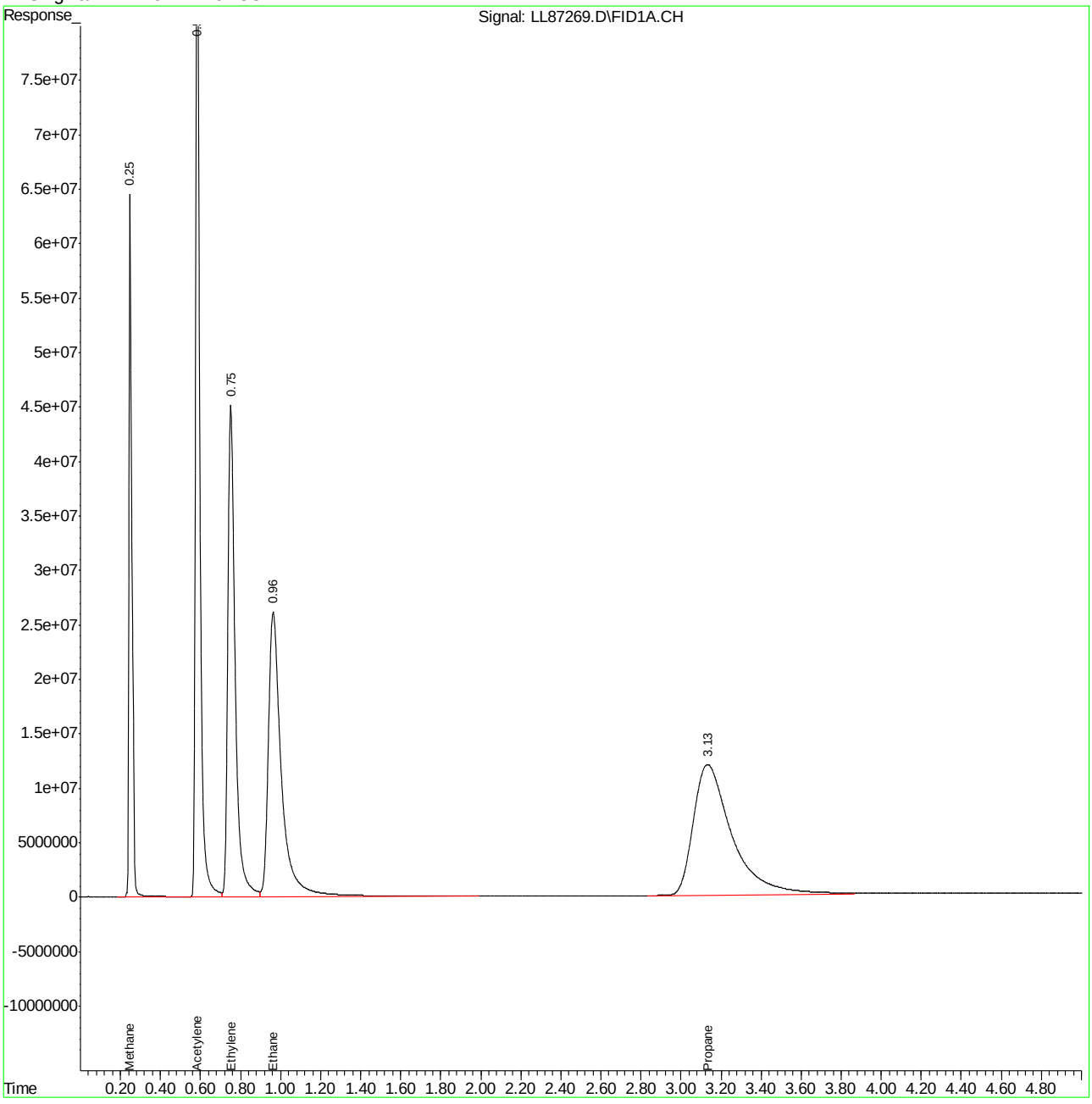
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87269.D RSK01102024.M Thu Jan 11 11:19:11 2024 Page 1

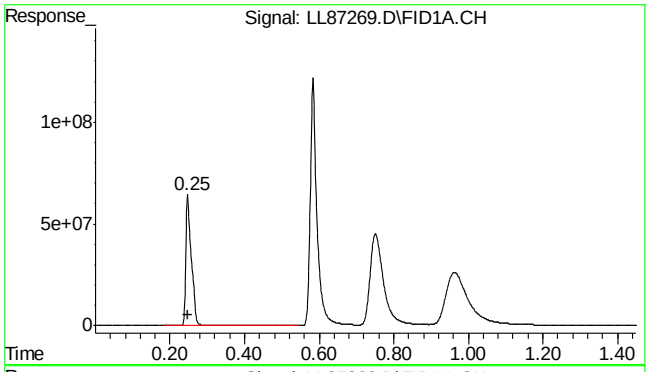
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

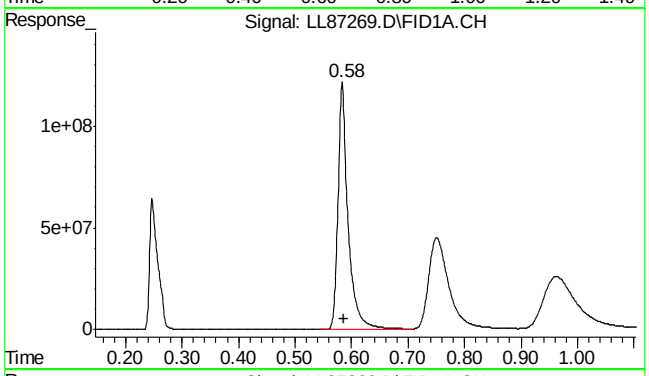
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





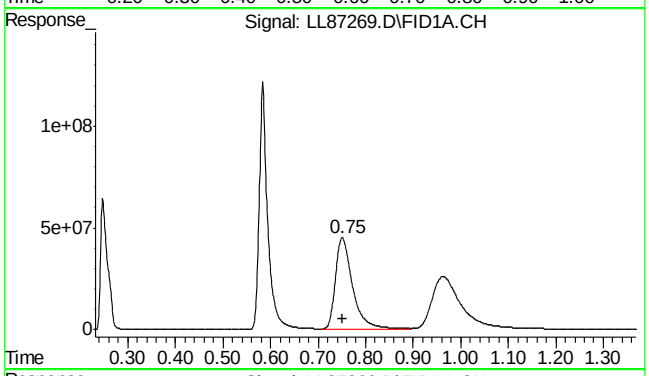
#1 Methane

R.T.: 0.247 min
Delta R.T.: 0.000 min
Response: 652746188
Conc: 944.62 ppmv



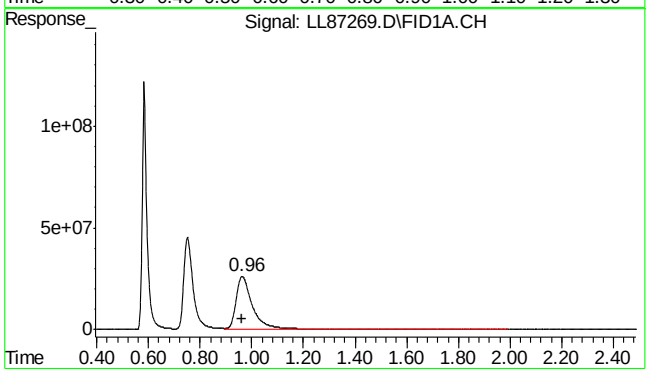
#2 Acetylene

R.T.: 0.584 min
Delta R.T.: -0.004 min
Response: 1505435198
Conc: 970.59 ppmv



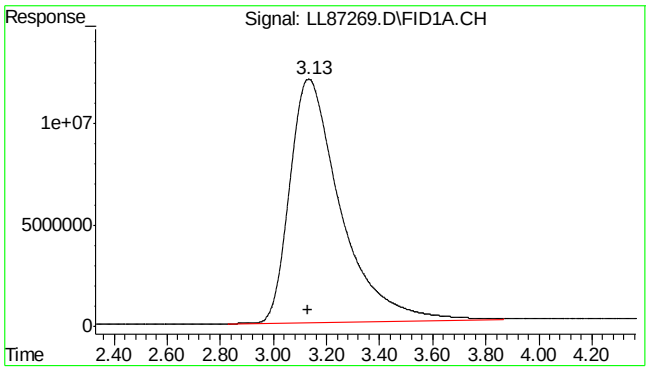
#3 Ethylene

R.T.: 0.751 min
Delta R.T.: -0.002 min
Response: 1148444501
Conc: 968.91 ppmv



#4 Ethane

R.T.: 0.963 min
Delta R.T.: 0.000 min
Response: 1180763078
Conc: 952.40 ppmv



#5 Propane

R.T.: 3.134 min
Delta R.T.: 0.002 min
Response: 1603237187
Conc: 930.52 ppmv m

Manual Integration Approval Summary

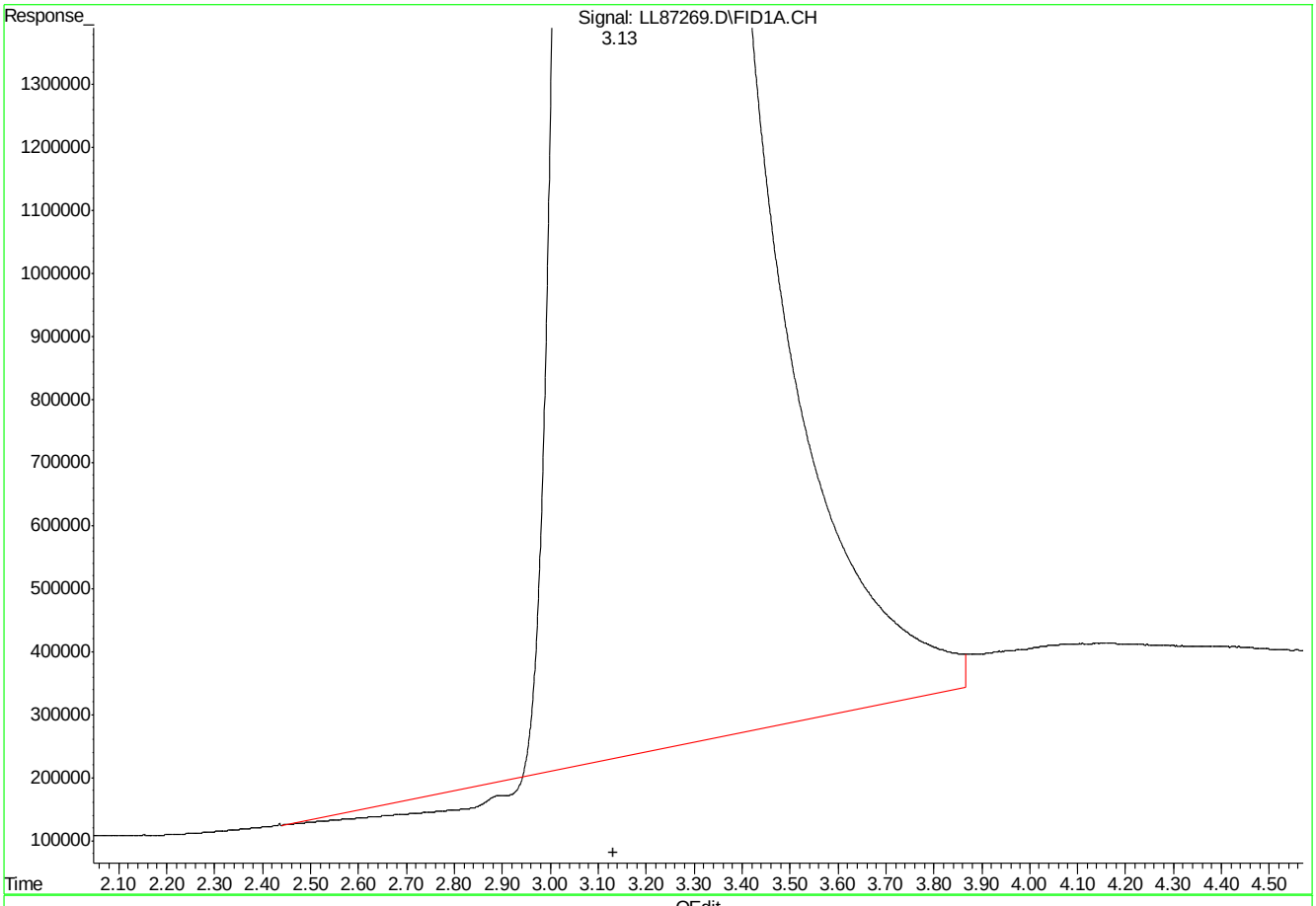
Sample Number: GLL3025-ICV3025
Lab FileID: LL87269.D
Injection Time: 01/10/24 13:14
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.13	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 920.148ppmv

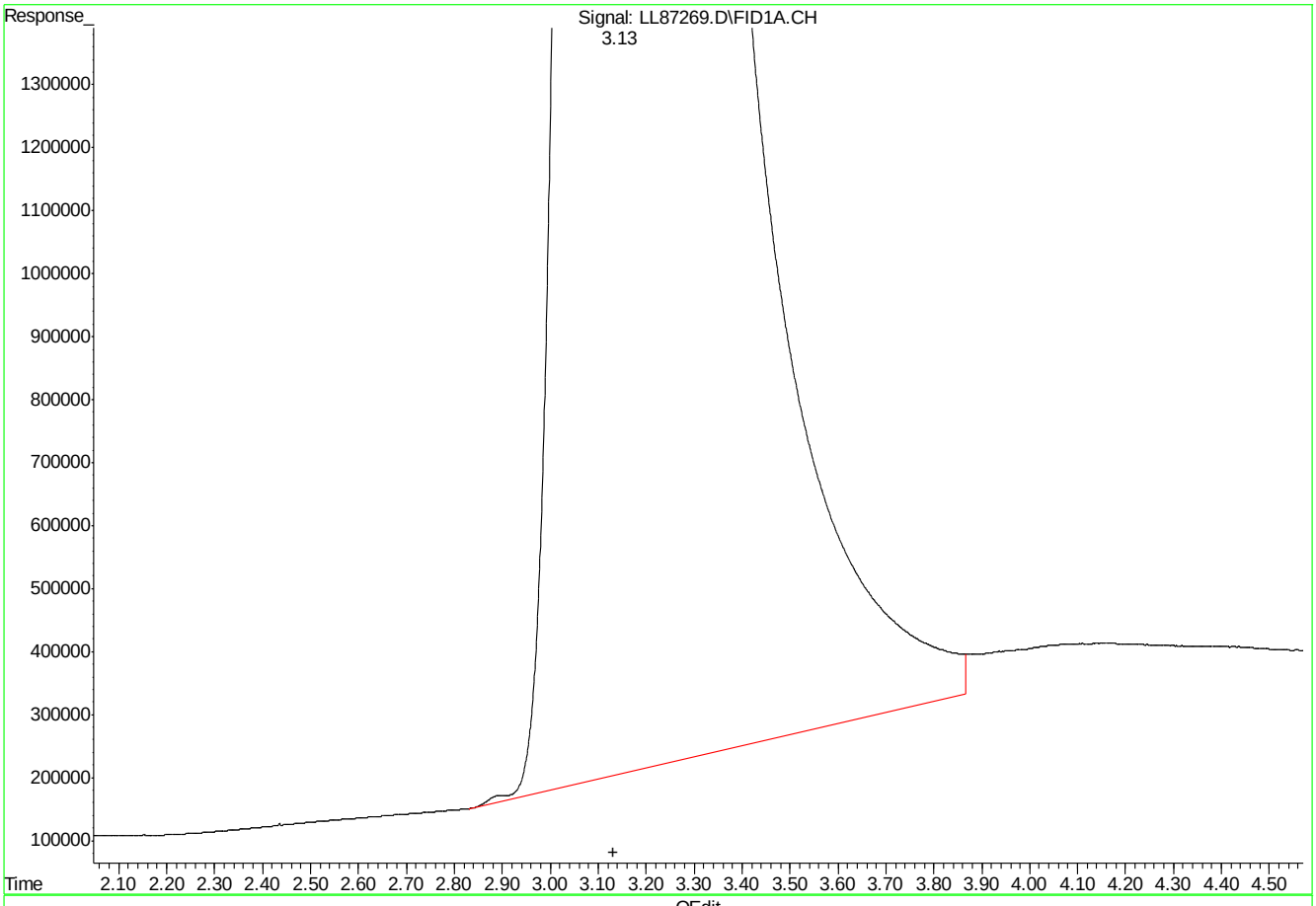
response 1585373899

(+) = Expected Retention Time
LL87269.D RSK01102024.M Wed Jan 10 13:20:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 930.516ppmv m

response 1603237187

(+) = Expected Retention Time
LL87269.D RSK01102024.M Wed Jan 10 13:20:23 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/27/24 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90251.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:45:58
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 09:55:12 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.252	713422309	1032.428	ppmv	
2)	Acetylene	0.580	1694494640	1092.480	ppmv	
3)	Ethylene	0.746	1220412988	1029.626	ppmv	
4)	Ethane	0.955	1279932060	1032.394	ppmv	
5)	Propane	3.112	1665011227	966.369	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

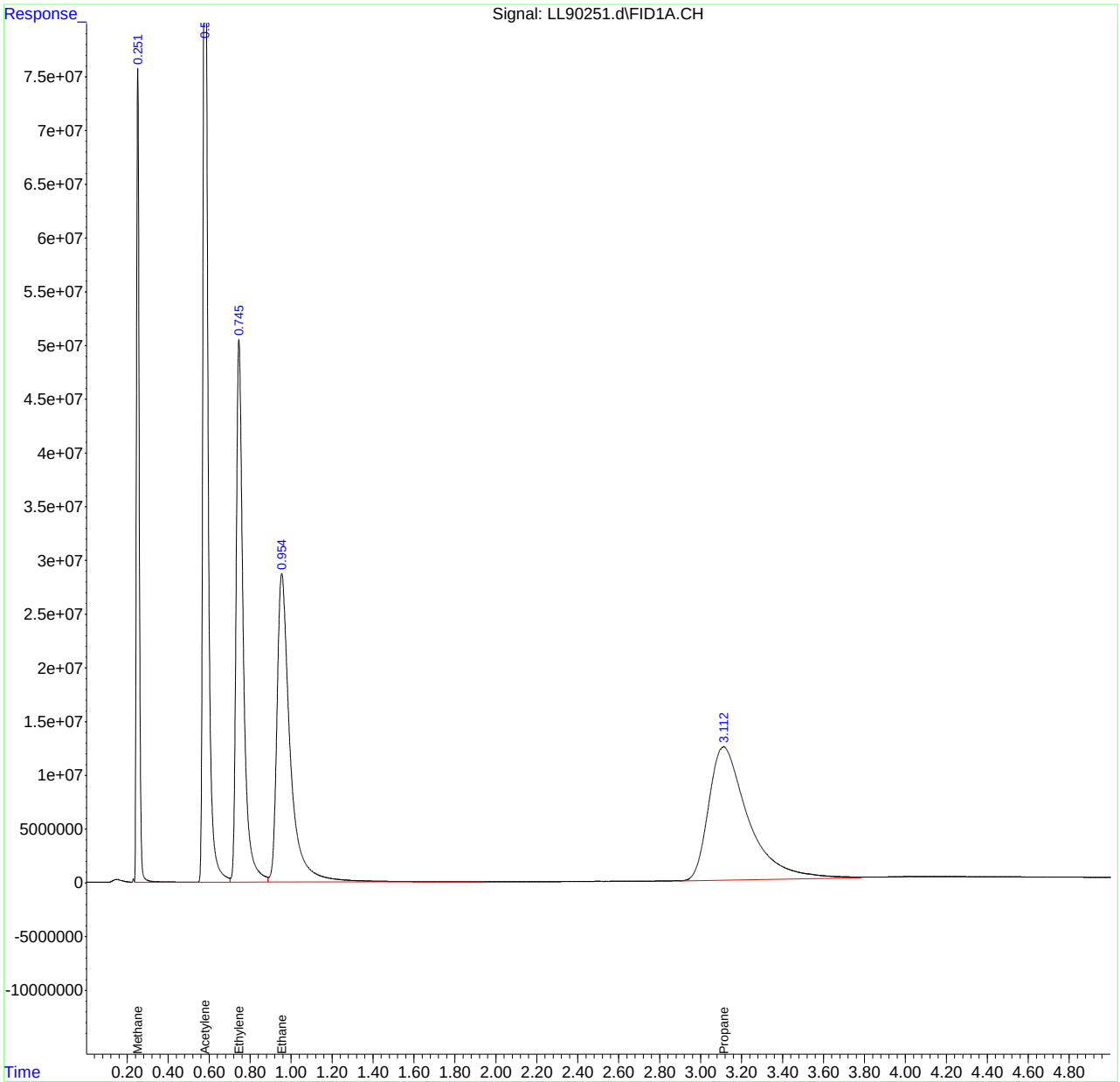
9.6.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90251.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:45:58
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 09:55:12 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3143-CC3025
Lab FileID: LL90251.D
Injection Time: 06/26/24 09:45
Method: RSKSOP-147/175
Analyst approved: 06/27/24 08:24 Jennifer Rich
Supervisor approved: 06/27/24 10:28 Karen Watson

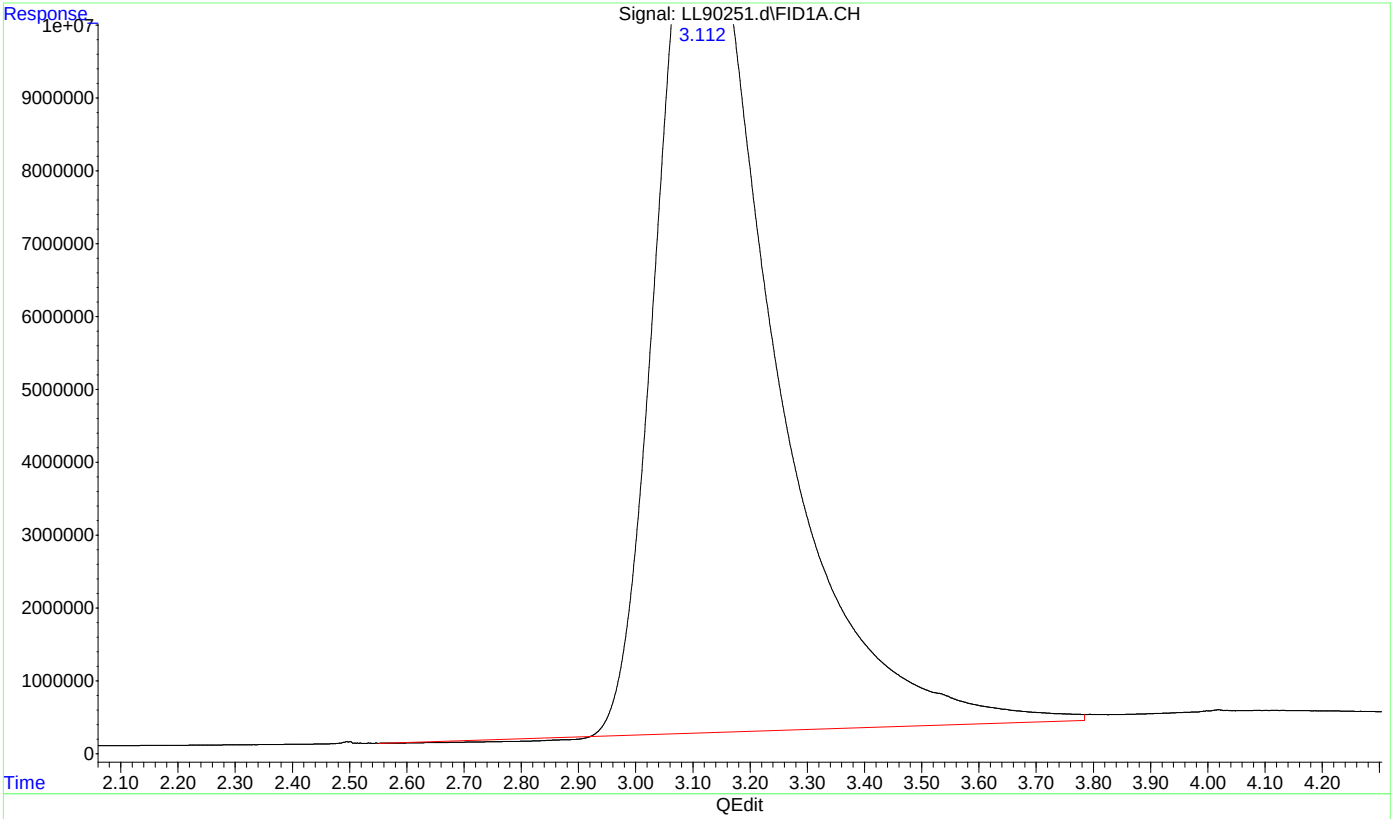
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90251.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:45:58
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 09:54:55 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 957.819 ppmv

response 1650278823

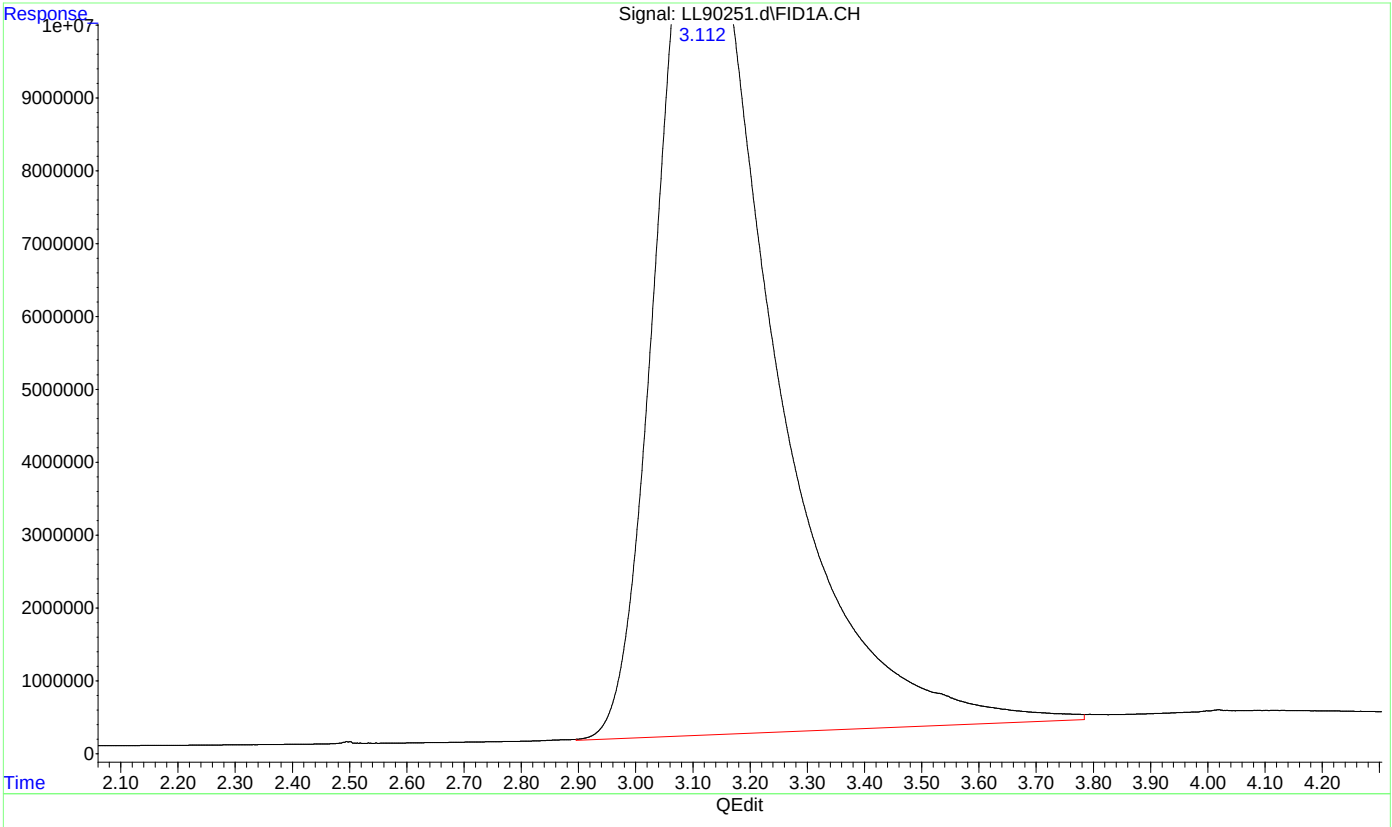
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 09:55:05 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90251.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 09:45:58
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 09:54:55 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.112min 966.369 ppmv m

response 1665011227

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 09:55:13 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/27/24 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:52:05 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.251	360119120	521.146	ppmv	m
2)	Acetylene	0.581	852483351	549.616	ppmv	
3)	Ethylene	0.748	617322615	520.816	ppmv	
4)	Ethane	0.959	649832858	524.155	ppmv	
5)	Propane	3.118	842395988	488.925	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

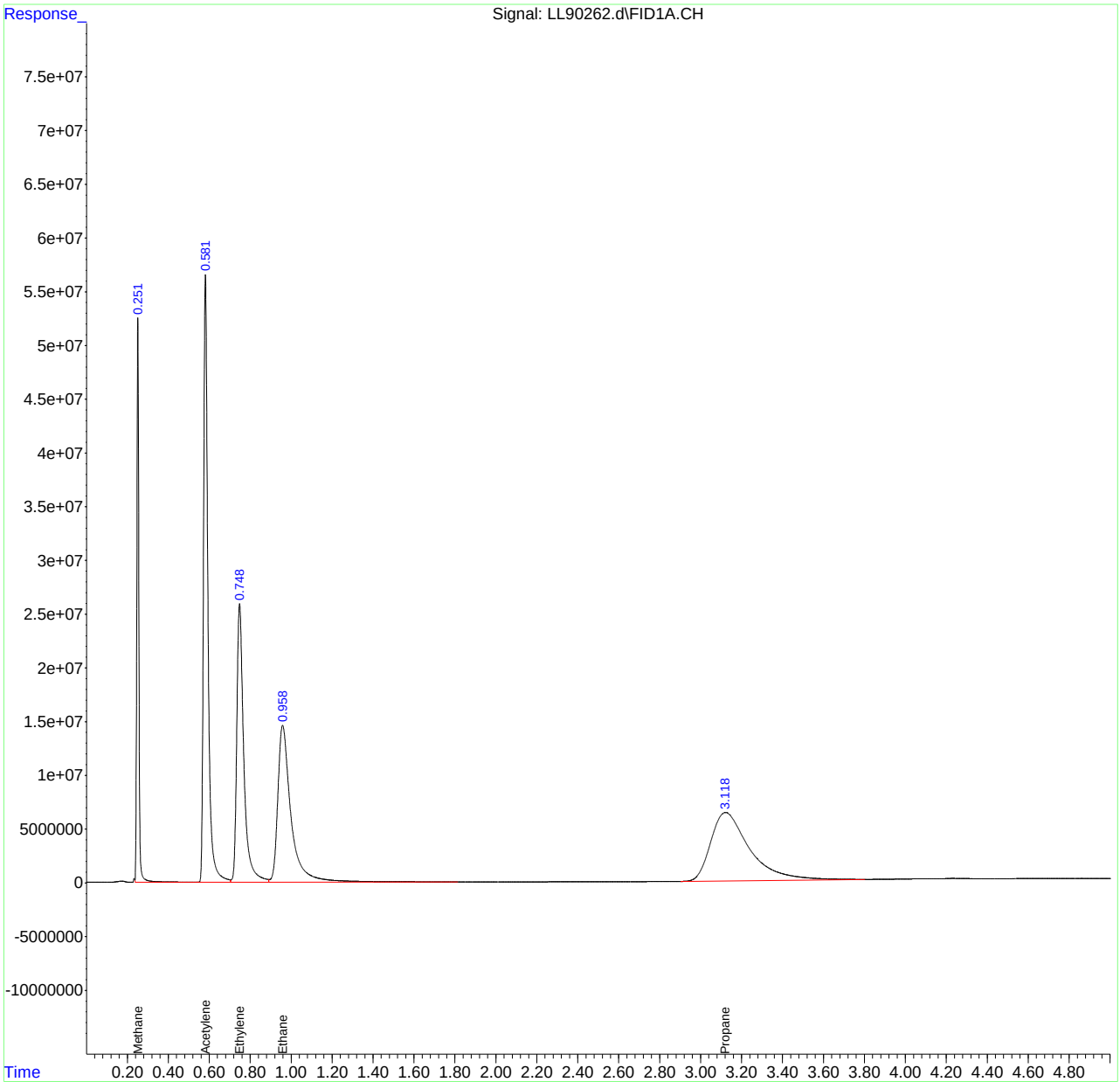
9.6.10
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:52:05 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3143-CC3025
Lab FileID: LL90262.D
Injection Time: 06/26/24 11:44
Method: RSKSOP-147/175
Analyst approved: 06/27/24 08:24 Jennifer Rich
Supervisor approved: 06/27/24 10:28 Karen Watson

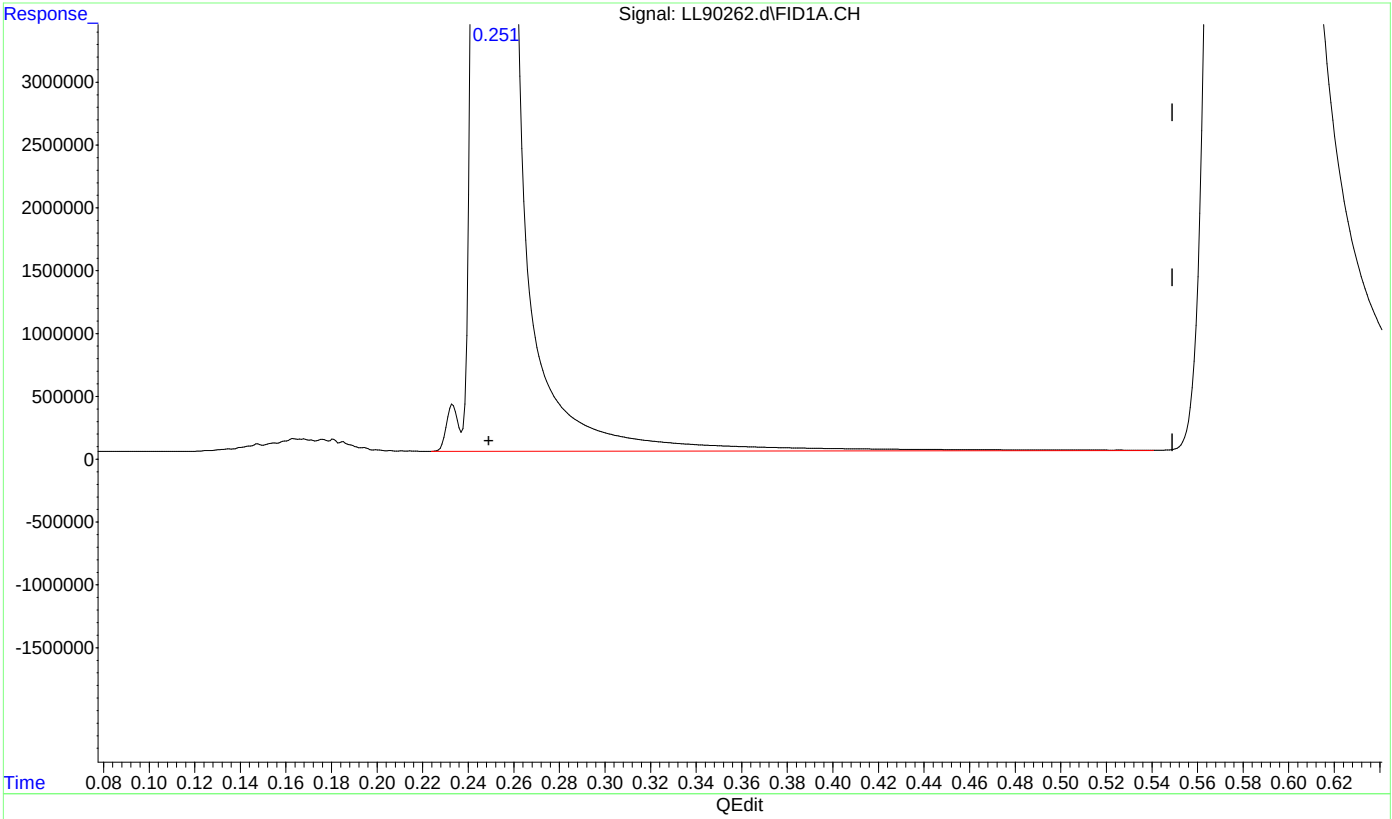
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:51:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.252min 523.649 ppmv

response 361848817

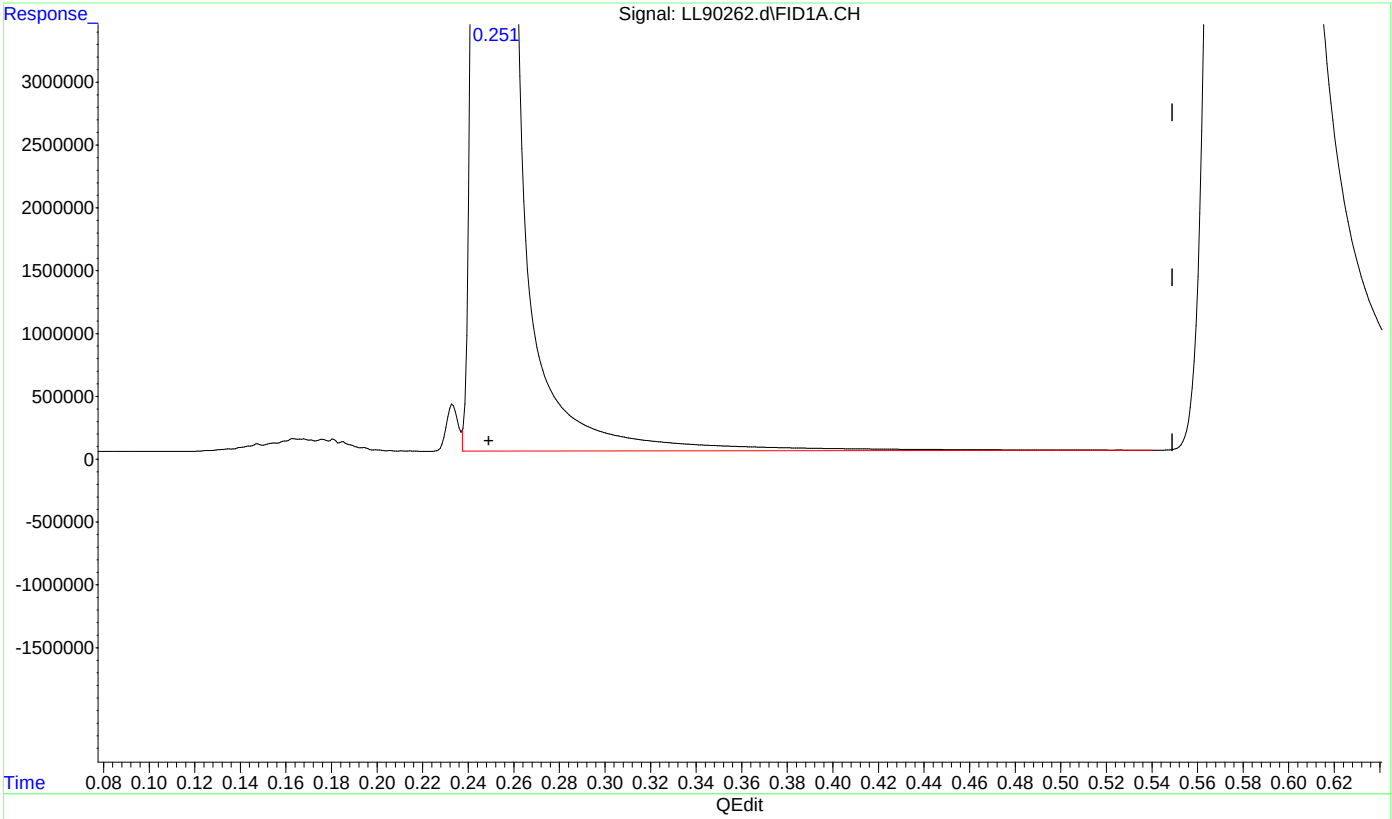
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 11:51:44 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:51:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.251min 521.146 ppmv m

response 360119120

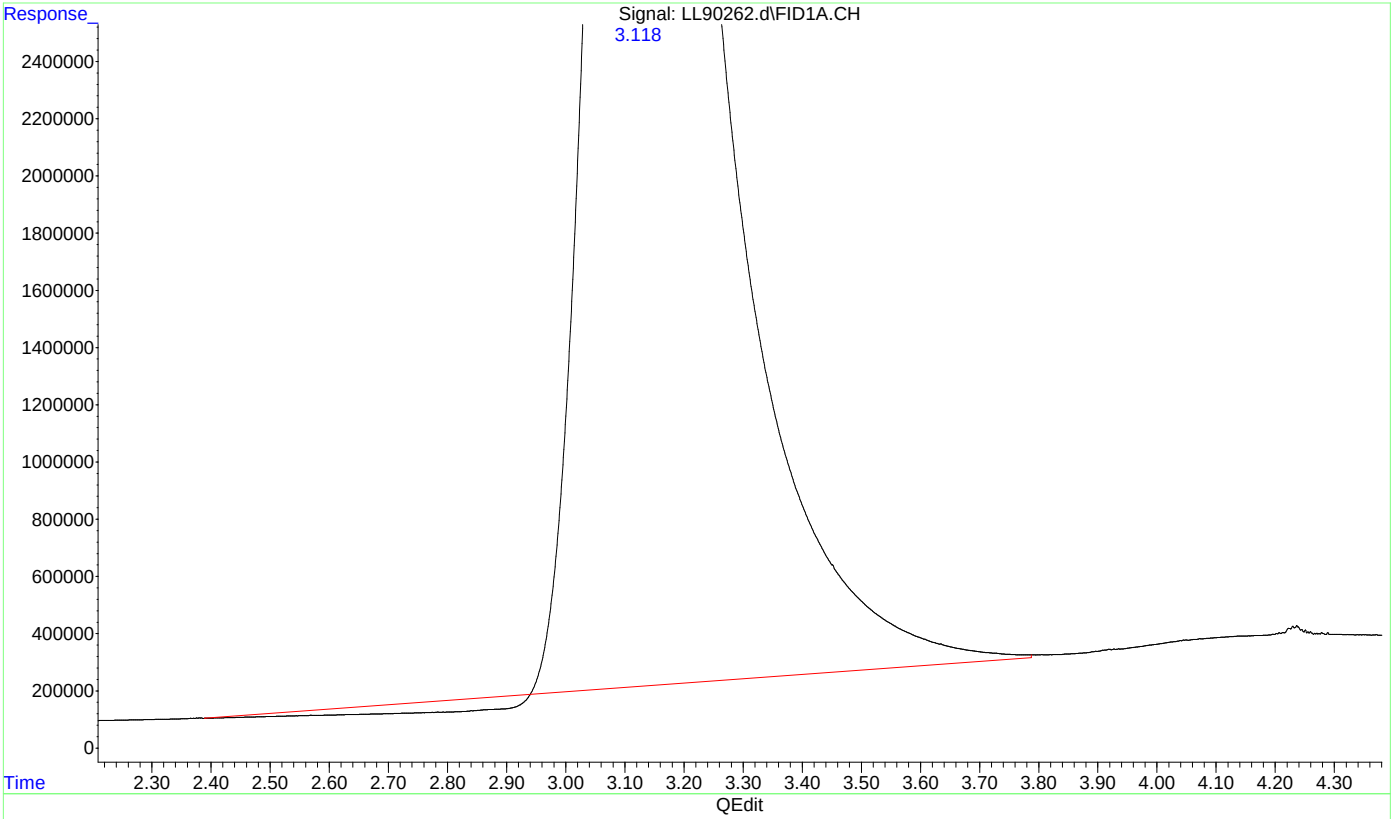
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 11:51:53 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:51:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.119min 476.931 ppmv

response 821730777

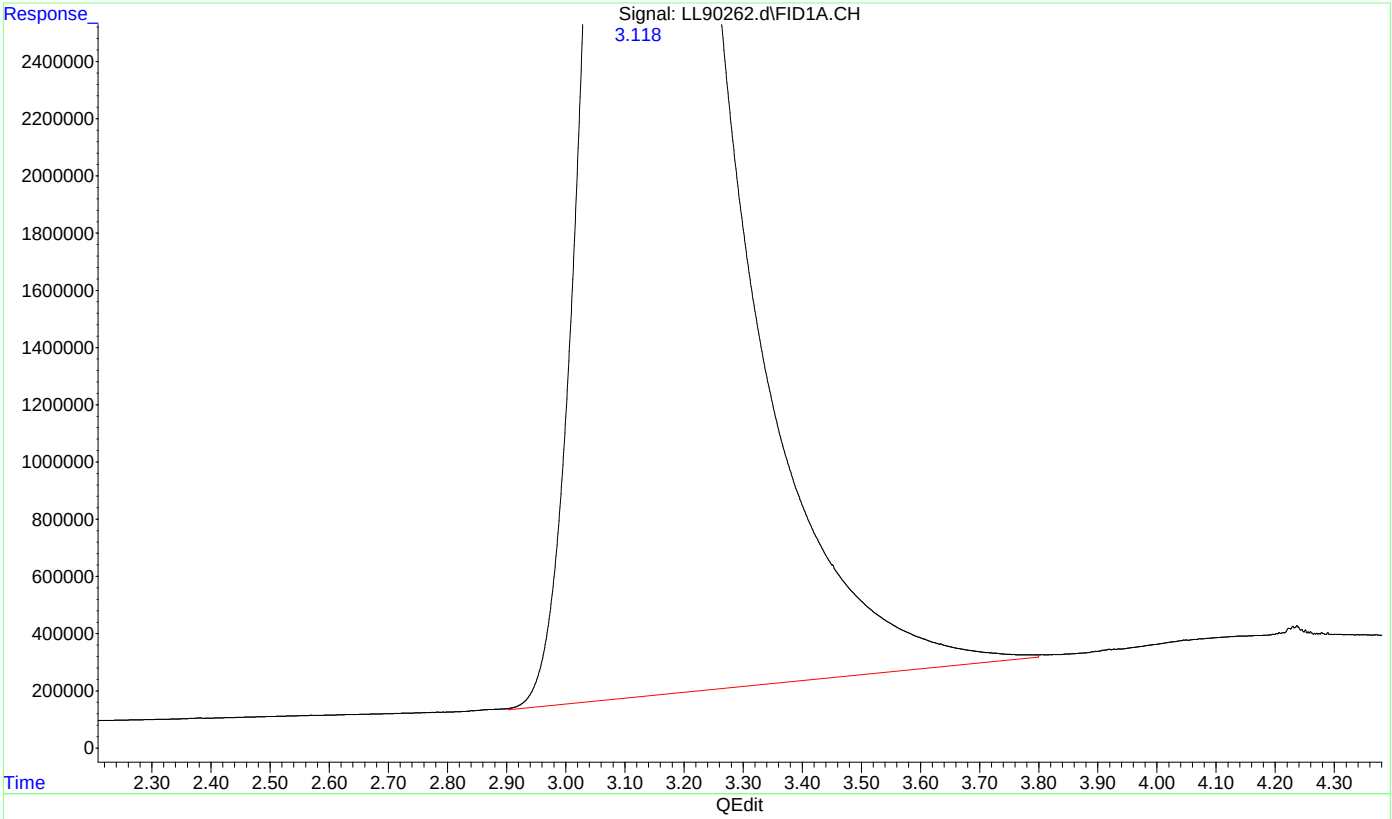
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 11:52:01 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90262.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 11:44:14
Operator : jennr
Sample : cc3025-4
Misc : gc24883,gll3143,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 11:51:37 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.118min 488.925 ppmv m

response 842395988

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 11:52:06 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/27/24 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90273.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:50:38
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:56:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.255	694546715	1005.112	ppmv	
2)	Acetylene	0.583	1649180239	1063.265	ppmv	
3)	Ethylene	0.749	1189250772	1003.335	ppmv	
4)	Ethane	0.958	1250062563	1008.301	ppmv	
5)	Propane	3.117	1634177958	948.474	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

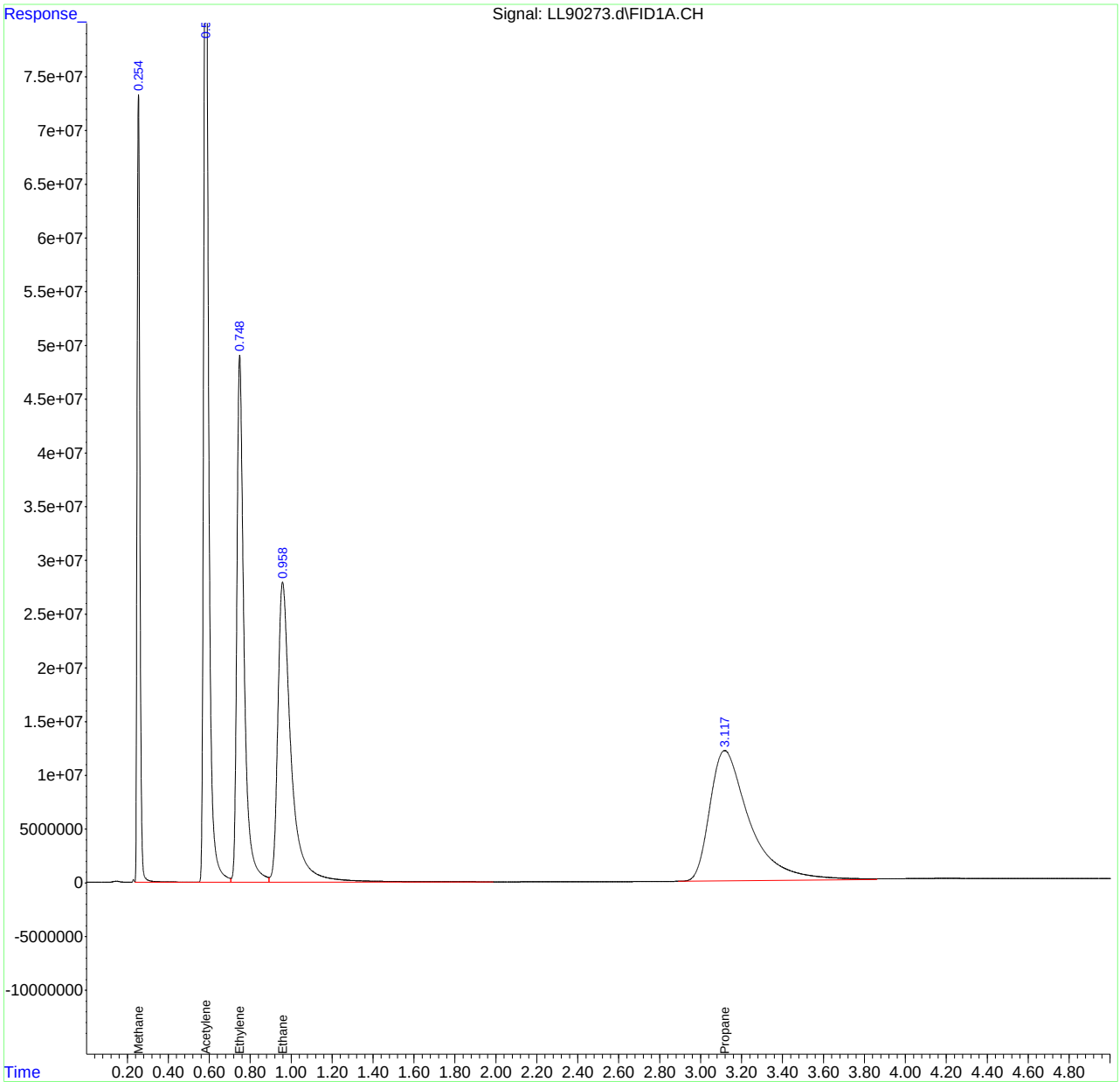
9.6.11
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90273.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:50:38
Operator : jennr
Sample : cc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:56:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3143-CC3025
Lab FileID: LL90273.D
Injection Time: 06/26/24 13:50
Method: RSKSOP-147/175
Analyst approved: 06/27/24 08:24 Jennifer Rich
Supervisor approved: 06/27/24 10:28 Karen Watson

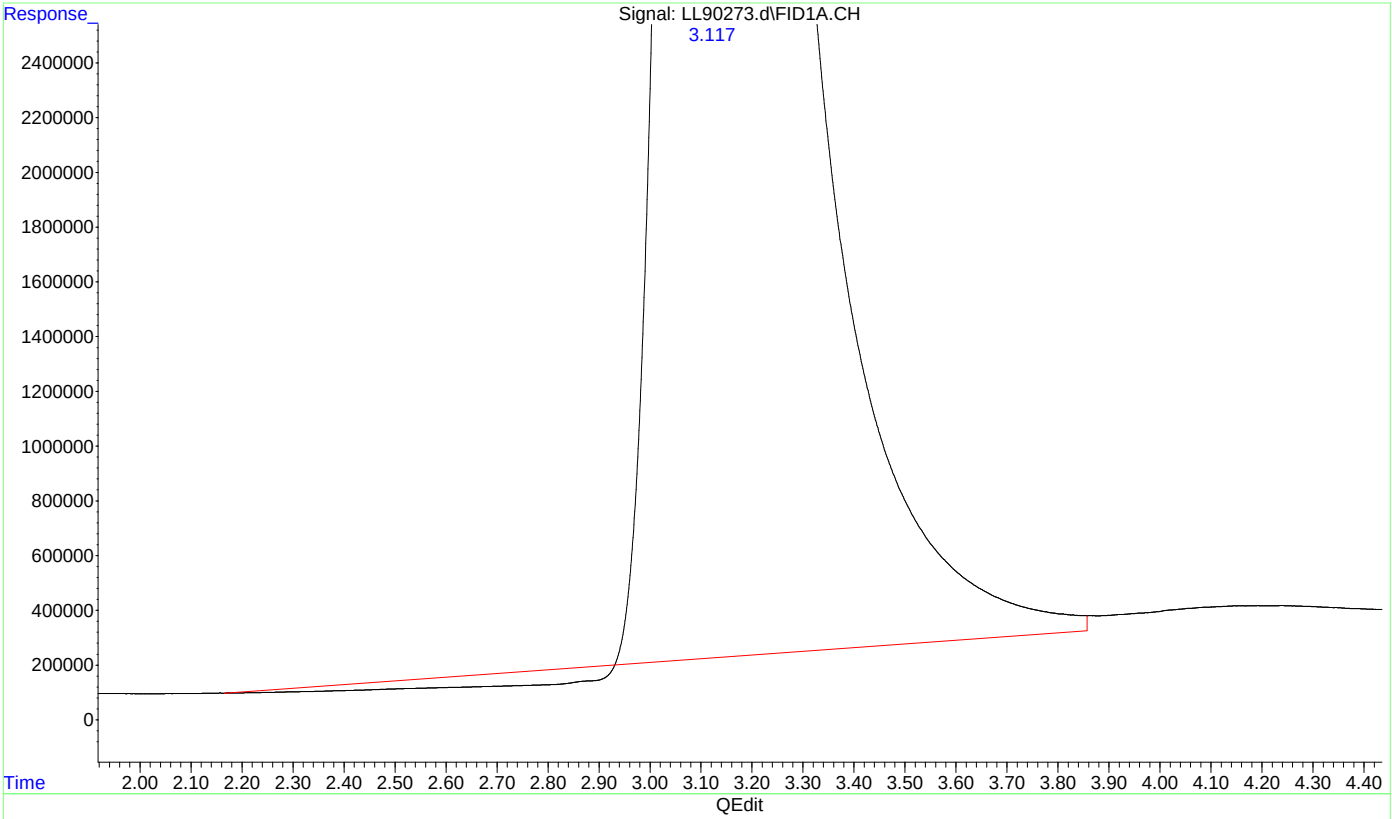
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90273.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:50:38
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:56:06 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.118min 931.251 ppmv

response 1604504512

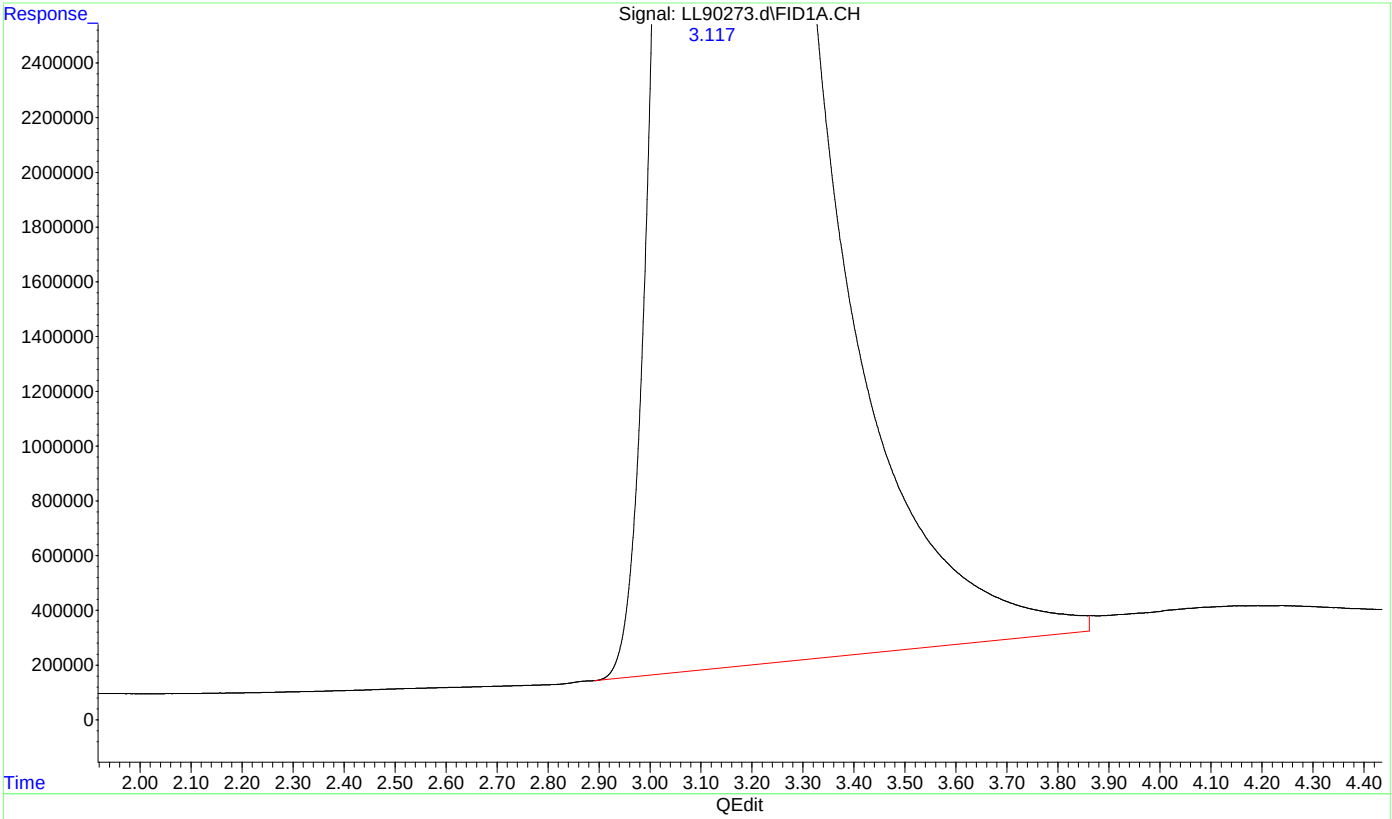
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 13:56:21 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90273.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 13:50:38
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 13:56:06 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 948.474 ppmv m

response 1634177958

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 13:56:28 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/27/24 10:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90277.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:21:21
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:27:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.254	688114760	995.804	ppmv
2)	Acetylene	0.582	1635185231	1054.242	ppmv
3)	Ethylene	0.748	1177769633	993.649	ppmv
4)	Ethane	0.957	1237863148	998.461	ppmv
5)	Propane	3.116	1611731690	935.446	ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

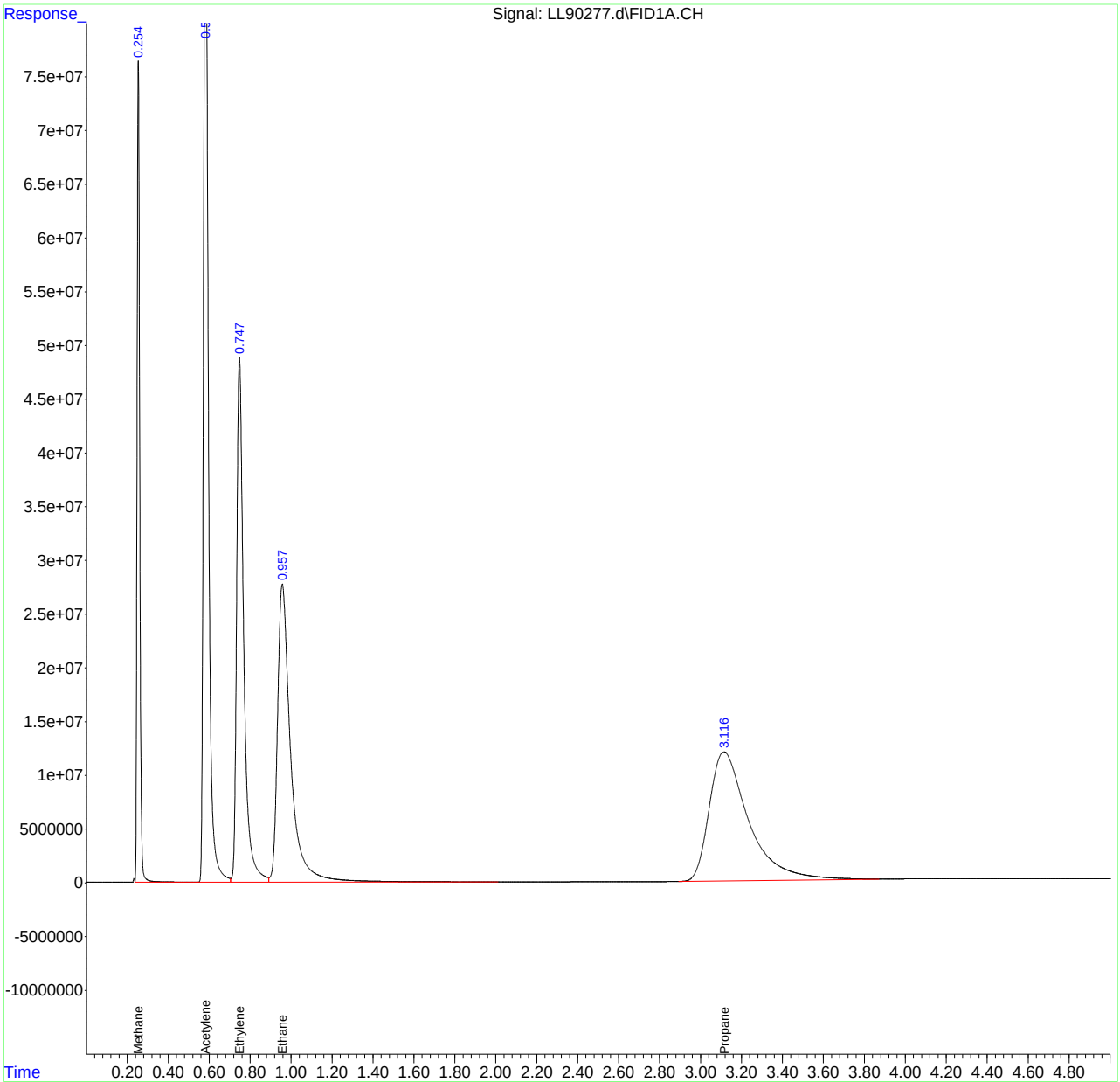
9.6.12
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90277.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:21:21
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:27:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



RSK01102024.M Thu Jun 27 08:18:14 2024 Page: 2

Manual Integration Approval Summary

Sample Number: GLL3143-ECC3025
Lab FileID: LL90277.D
Injection Time: 06/26/24 14:21
Method: RSKSOP-147/175
Analyst approved: 06/27/24 08:24 Jennifer Rich
Supervisor approved: 06/27/24 10:28 Karen Watson

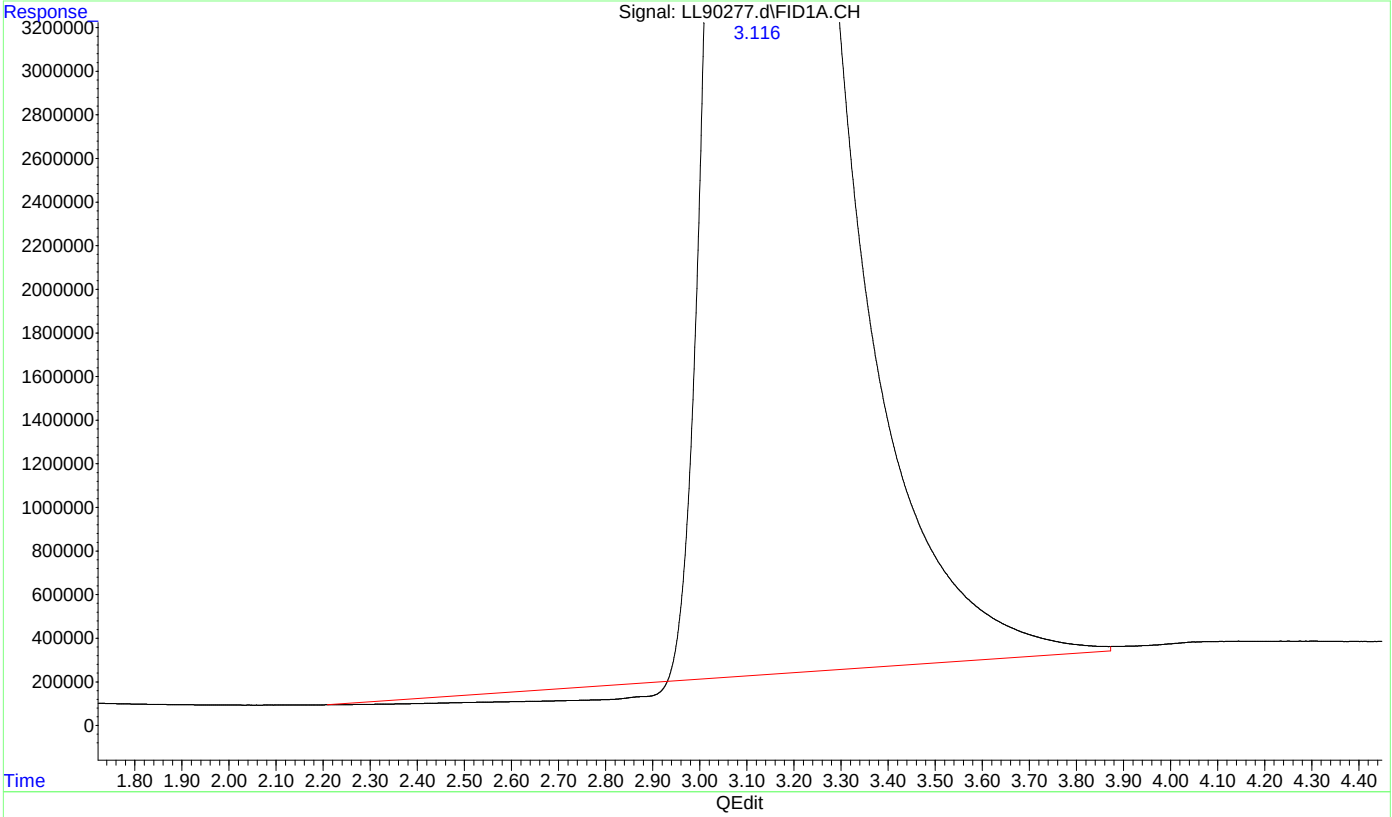
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90277.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:21:21
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:27:36 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 915.546 ppmv

response 1577445041

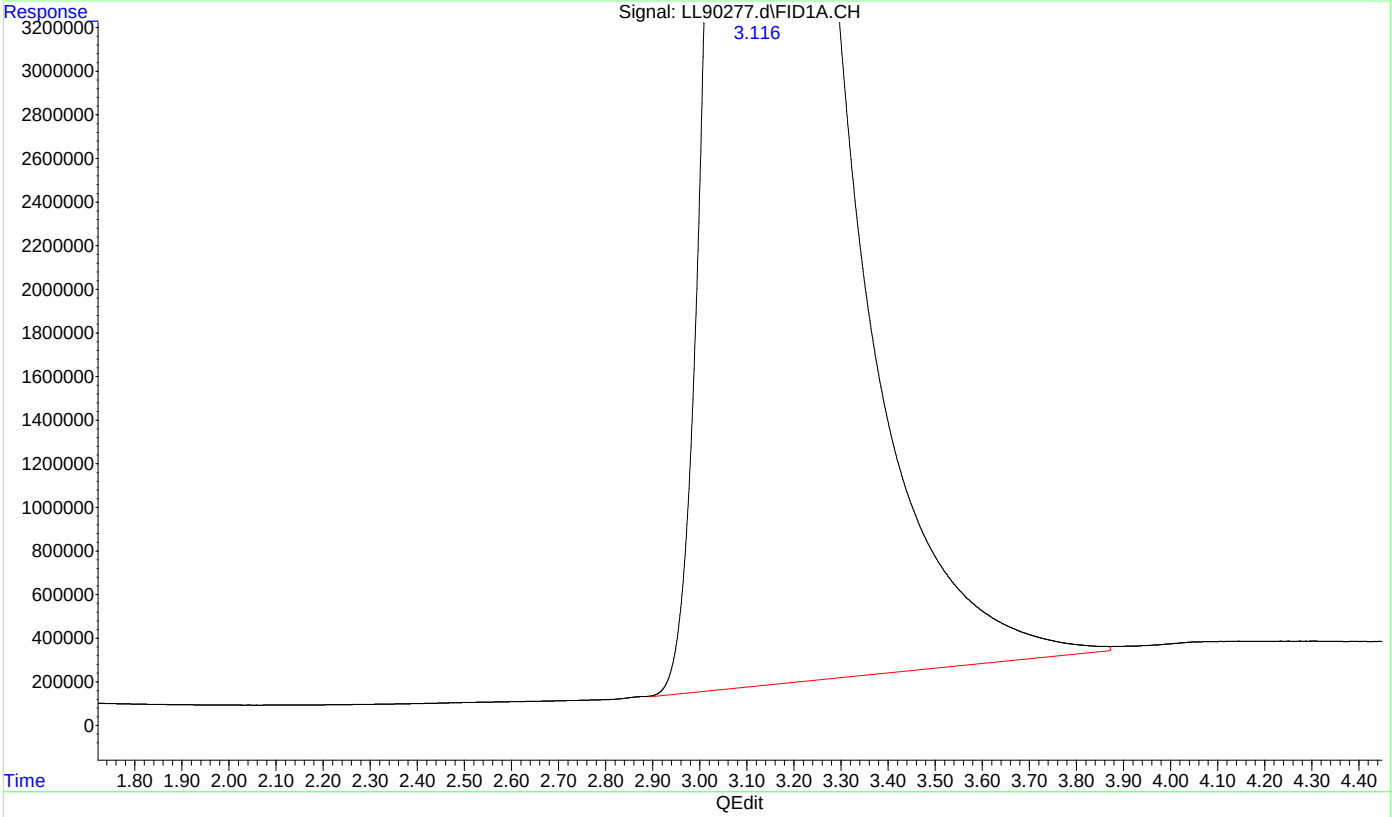
(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 14:27:47 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062624\
Data File : LL90277.d
Signal(s) : FID1A.CH
Acq On : 26-Jun-24, 14:21:21
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3143,38,21,500,5,1
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 26 14:27:36 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.116min 935.446 ppmv m

response 1611731690

(+) = Expected Retention Time
RSK01102024.M Wed Jun 26 14:27:53 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:54:10 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	696405752	1007.802	ppmv	m
2)	Acetylene	0.582	1652217427	1065.223	ppmv	
3)	Ethylene	0.747	1189993407	1003.962	ppmv	
4)	Ethane	0.957	1248703232	1007.205	ppmv	
5)	Propane	3.114	1619673940	940.056	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

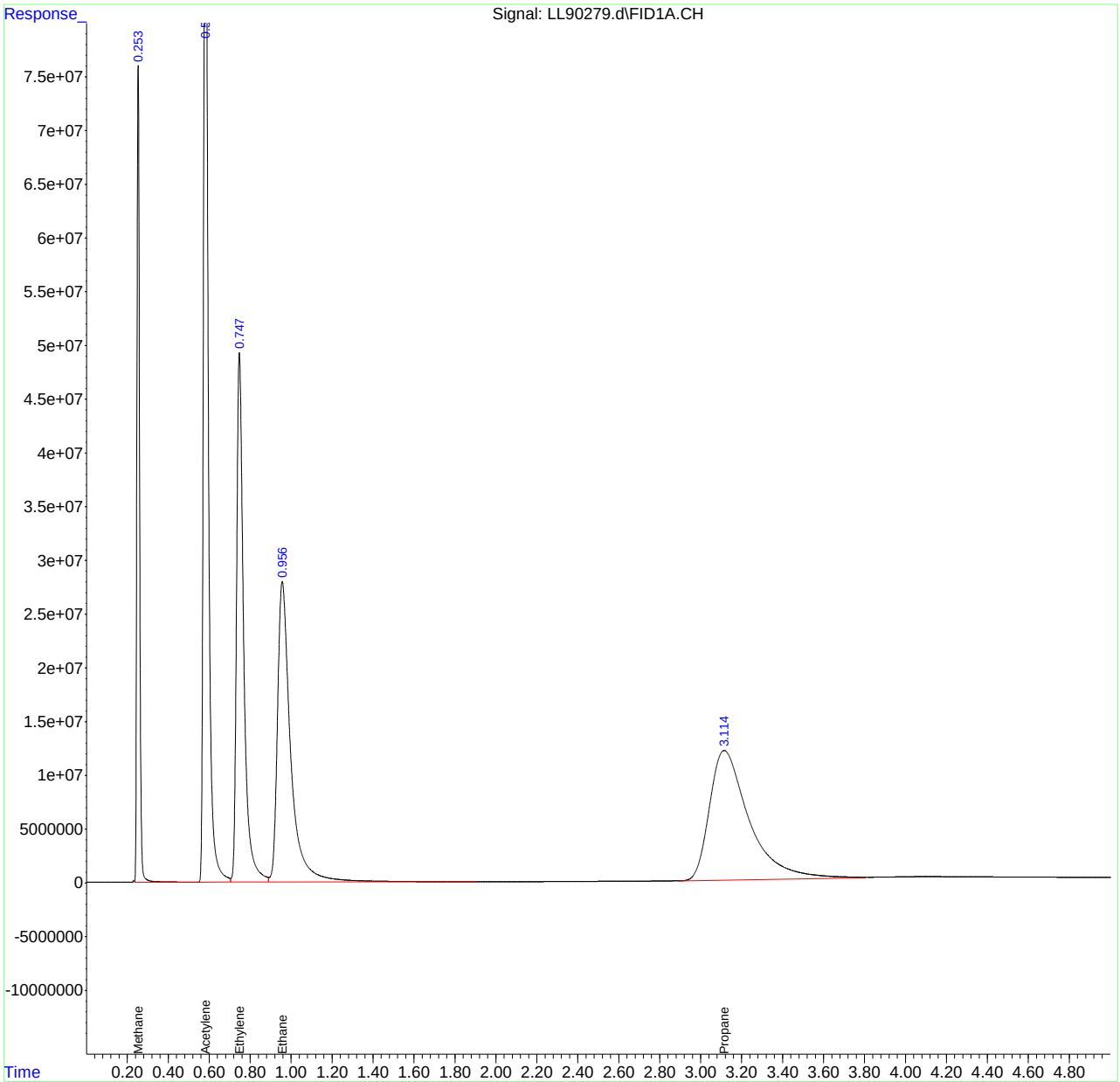
9.6.13
9

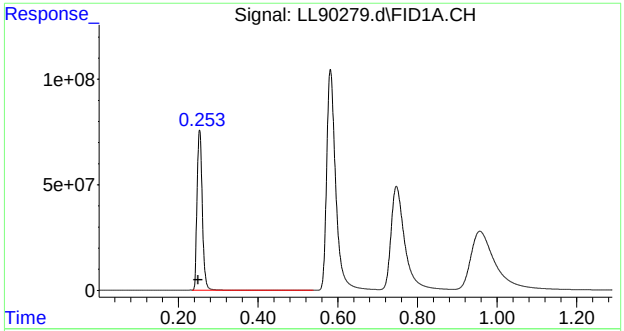
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:54:10 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

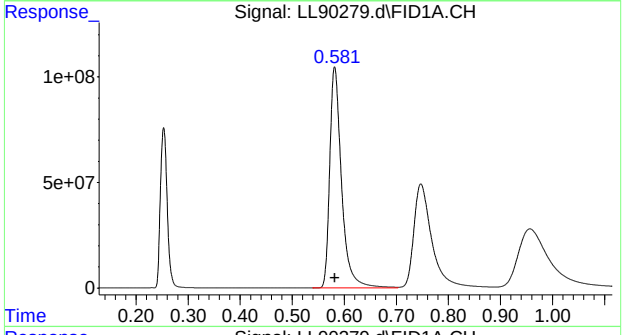
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





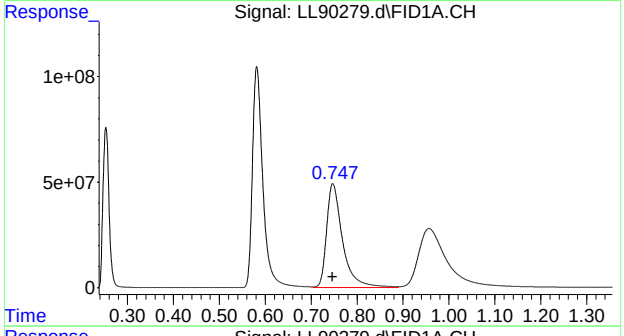
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 696405752
Conc: 1007.80 ppmv m



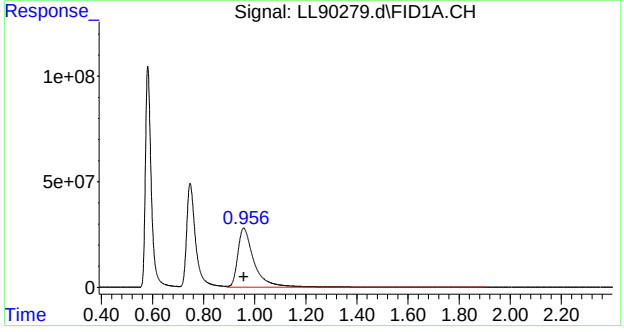
#2 Acetylene

R.T.: 0.582 min
Delta R.T.: 0.000 min
Response: 1652217427
Conc: 1065.22 ppmv



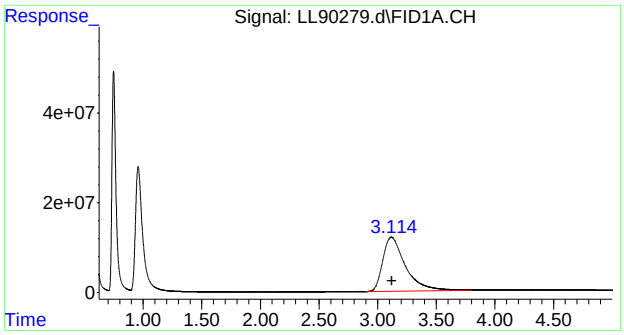
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.001 min
Response: 1189993407
Conc: 1003.96 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1248703232
Conc: 1007.20 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 1619673940
Conc: 940.06 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90279.D
Injection Time: 06/27/24 08:44
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

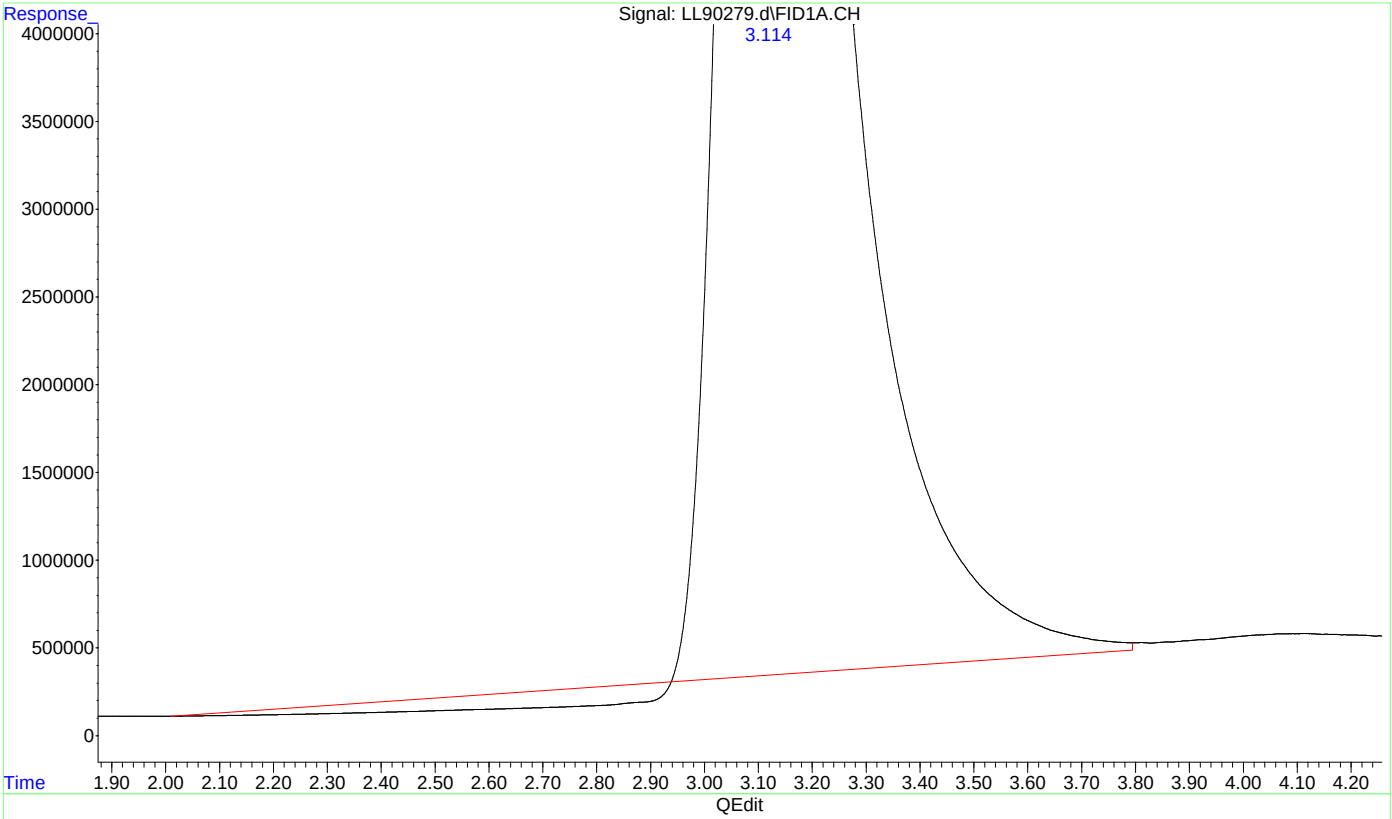
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 901.445 ppmv

response 1553150012

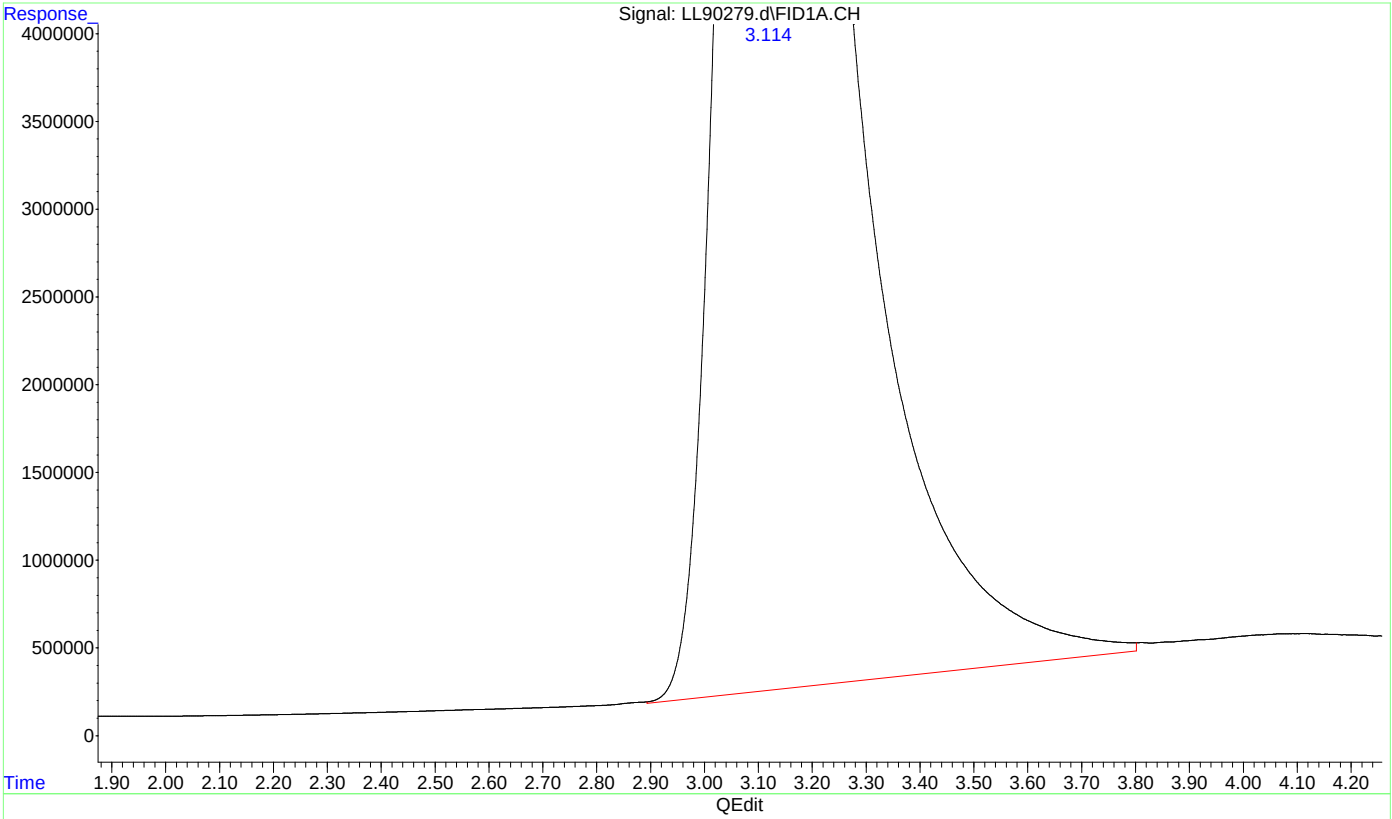
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 940.056 ppmv m

response 1619673940

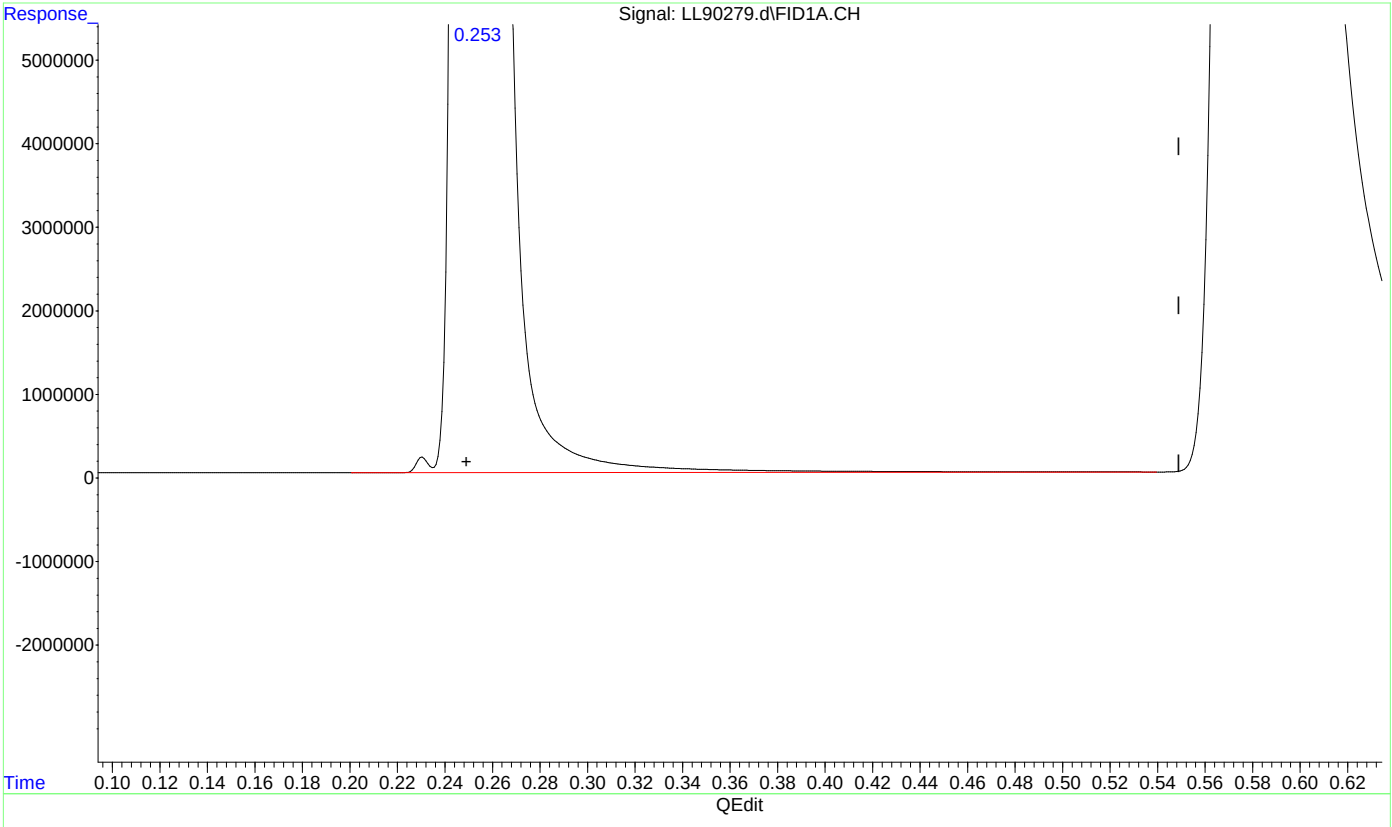
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 08:54:00 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 1008.663 ppmv

response 697000828

(+) = Expected Retention Time

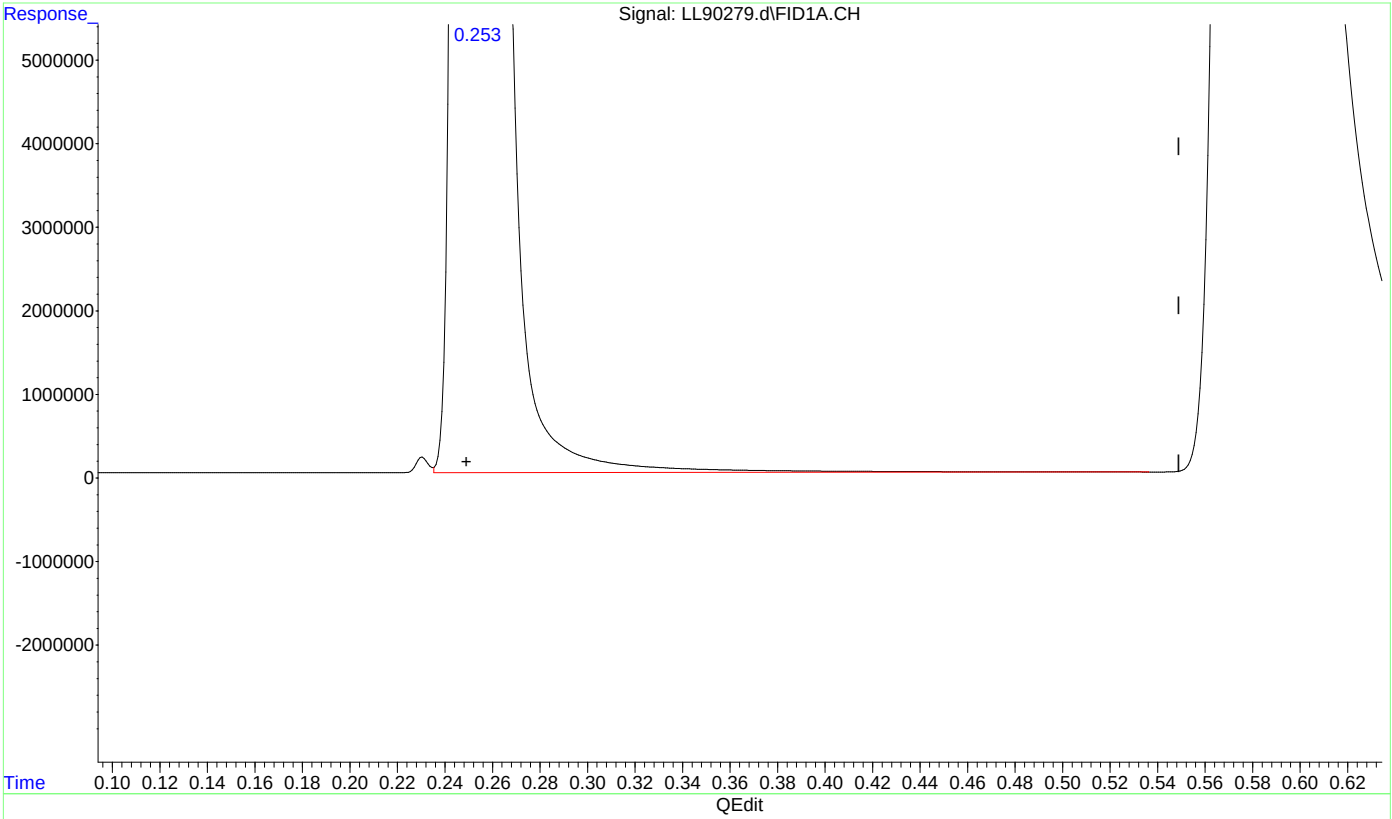
RSK01102024.M Thu Jun 27 08:54:04 2024 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



QEdit

(1) Methane

0.253min 1007.802 ppmv m

response 696405752

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.250	362044421	523.932 ppmv
2)	Acetylene	0.581	858018880	553.185 ppmv
3)	Ethylene	0.748	622329506	525.041 ppmv
4)	Ethane	0.958	657566091	530.393 ppmv
5)	Propane	3.122	856918684	497.354 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

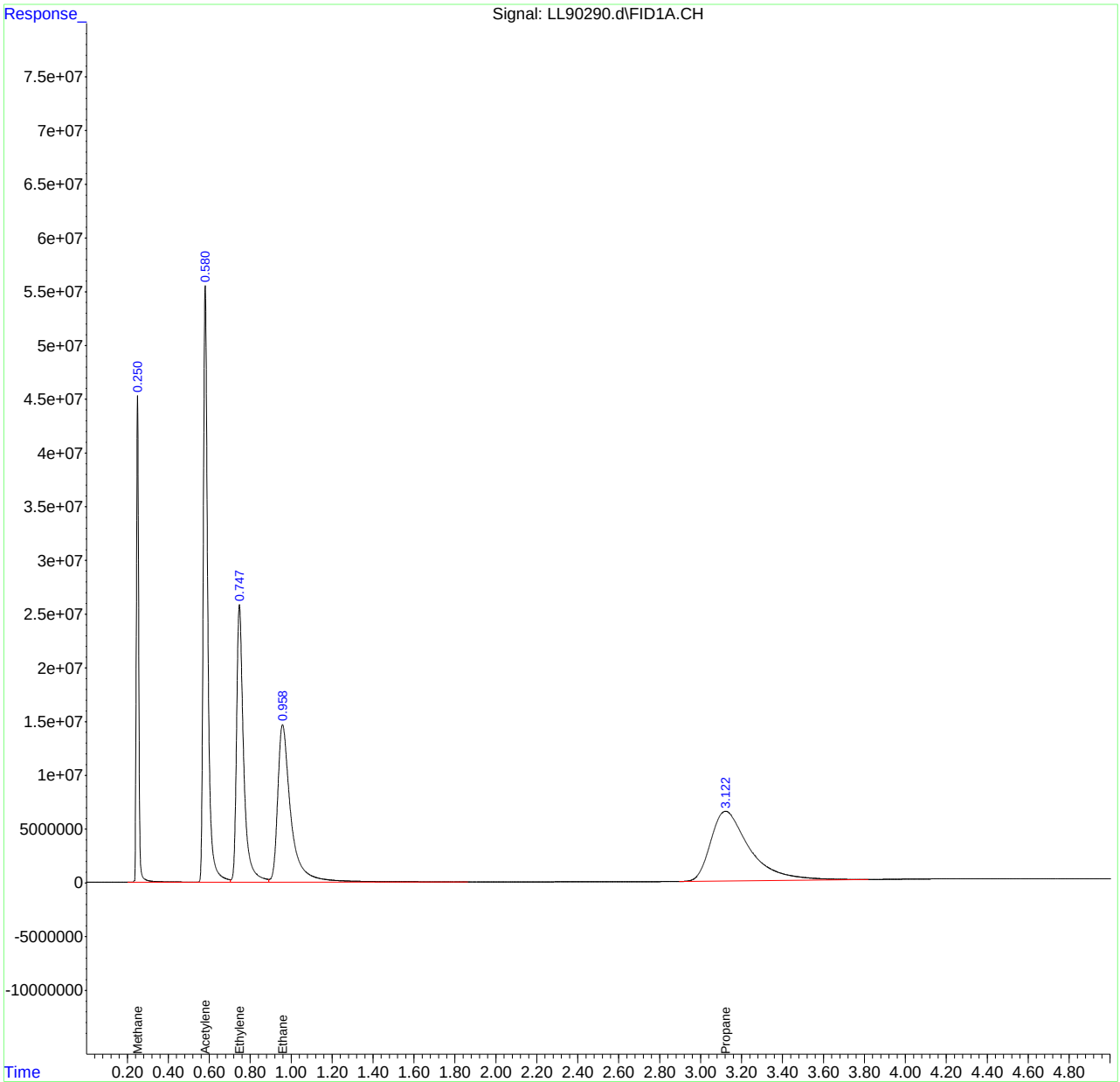
9.6.14
9

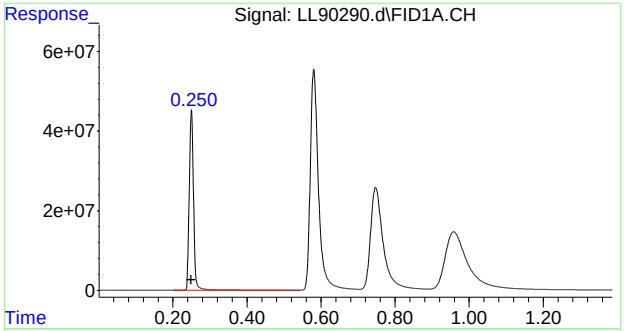
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

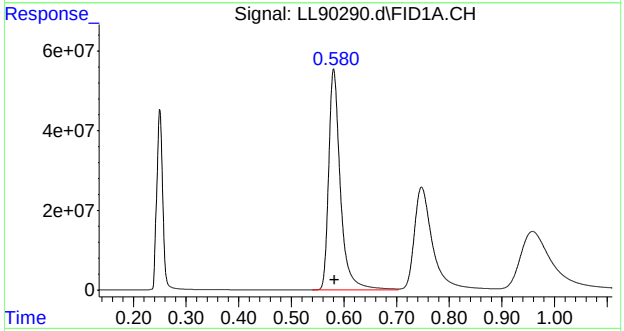
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





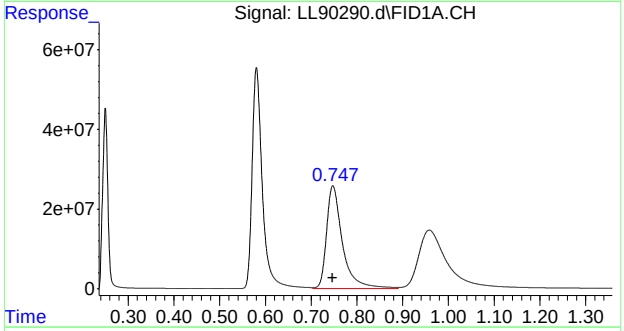
#1 Methane

R.T.: 0.250 min
Delta R.T.: 0.001 min
Response: 362044421
Conc: 523.93 ppmv



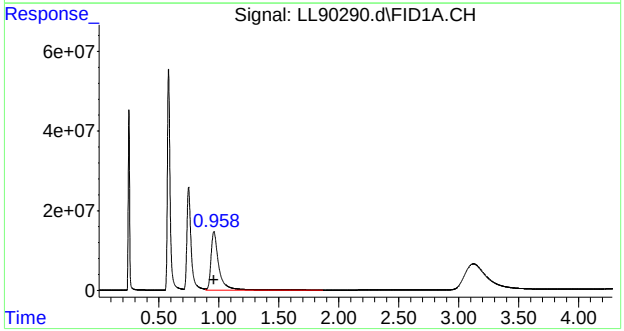
#2 Acetylene

R.T.: 0.581 min
Delta R.T.: -0.001 min
Response: 858018880
Conc: 553.18 ppmv



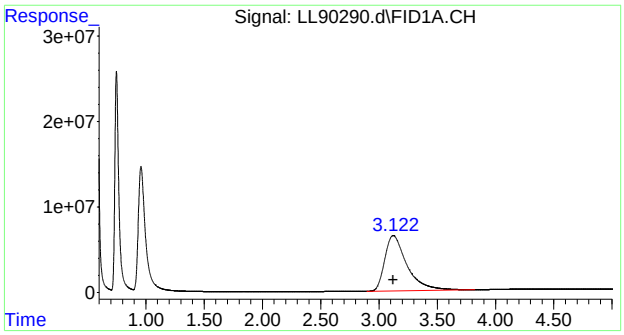
#3 Ethylene

R.T.: 0.748 min
Delta R.T.: 0.001 min
Response: 622329506
Conc: 525.04 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.002 min
Response: 657566091
Conc: 530.39 ppmv



#5 Propane

R.T.: 3.122 min
Delta R.T.: 0.001 min
Response: 856918684
Conc: 497.35 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90290.D
Injection Time: 06/27/24 11:11
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

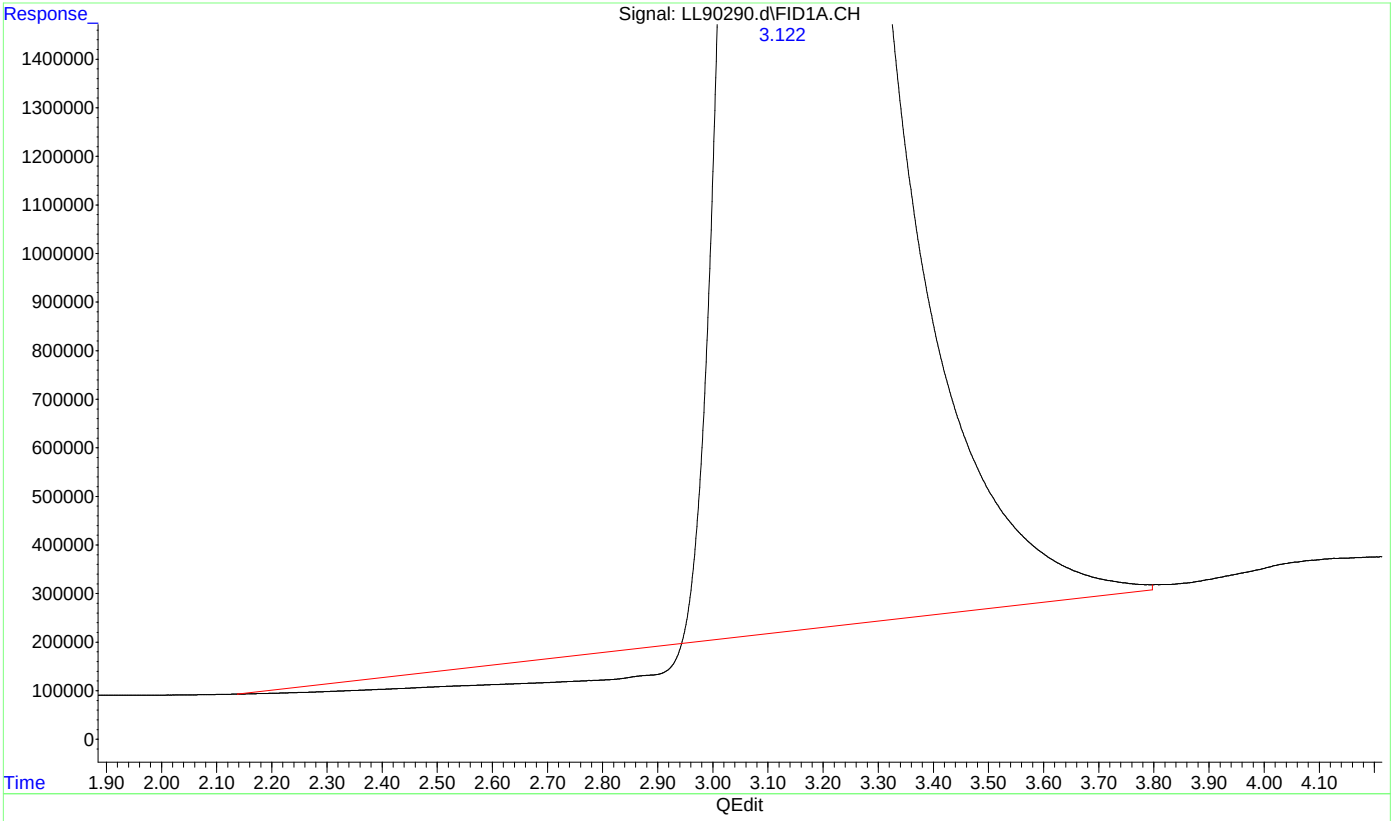
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.122min 478.769 ppmv

response 824897951

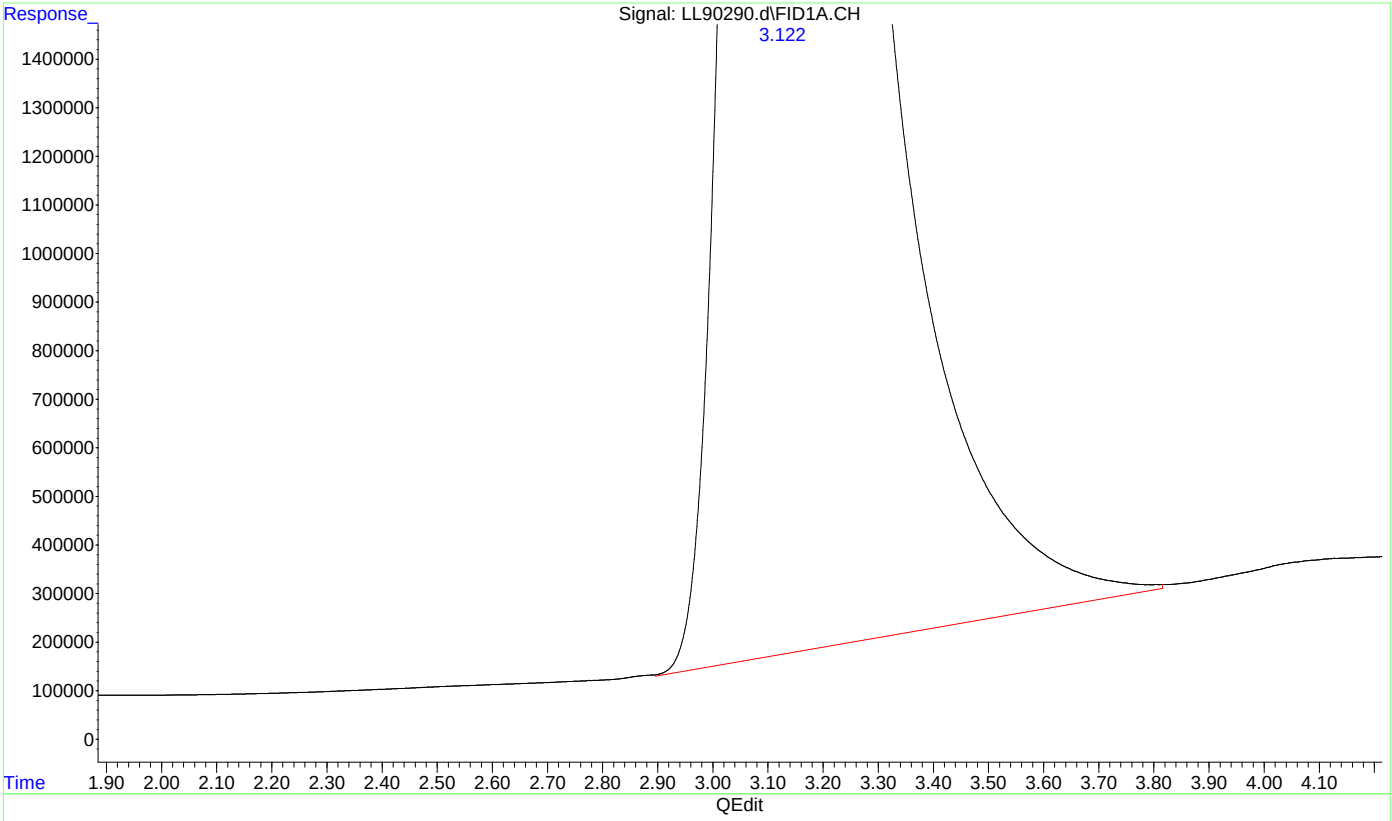
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:17:41 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.122min 497.354 ppmv m

response 856918684

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:17:45 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	682232551	987.292	ppmv	
2)	Acetylene	0.583	1628423769	1049.883	ppmv	
3)	Ethylene	0.748	1174843838	991.180	ppmv	
4)	Ethane	0.958	1235284811	996.381	ppmv	
5)	Propane	3.115	1609542531	934.175	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

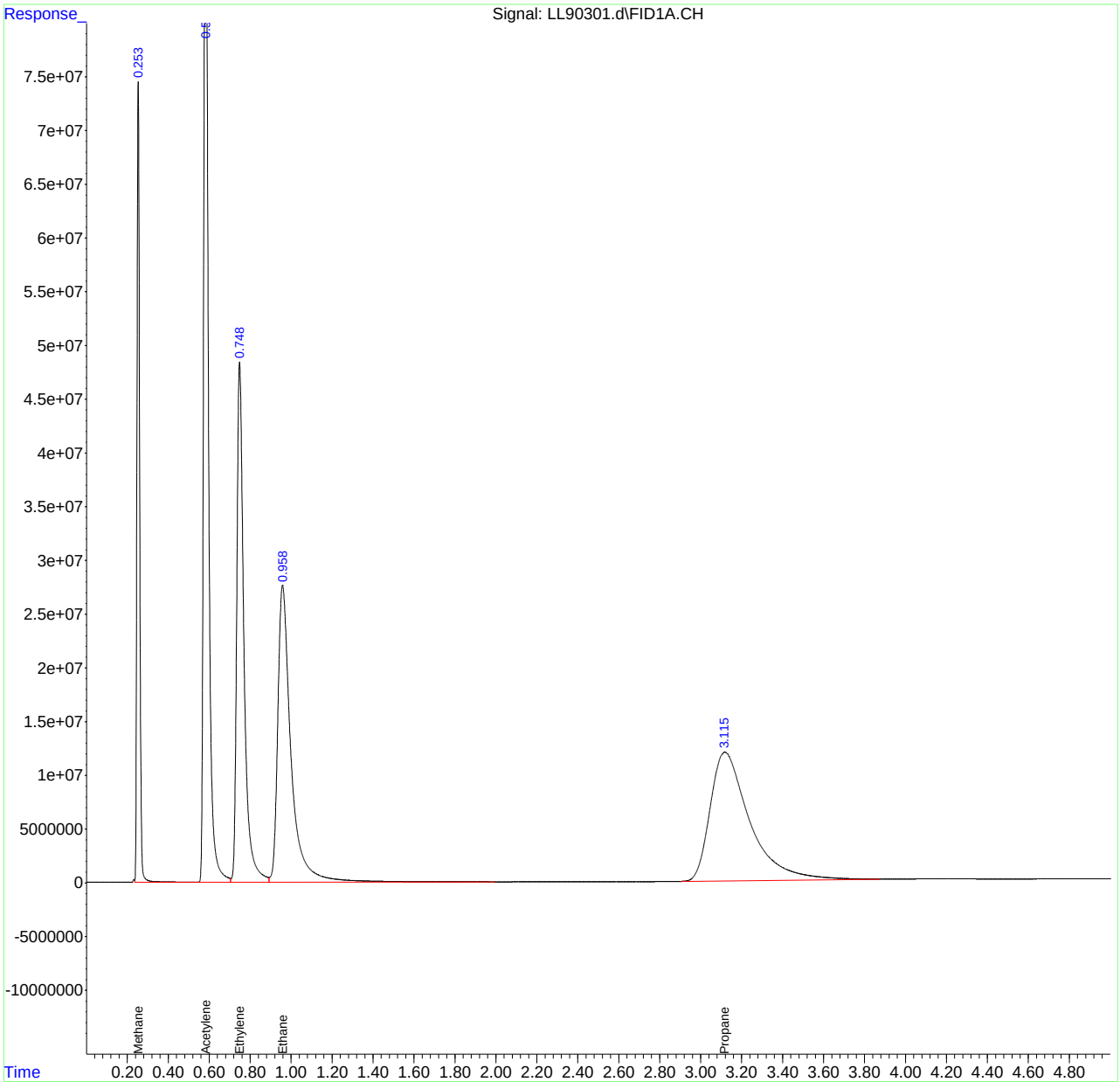
9.6.15
6

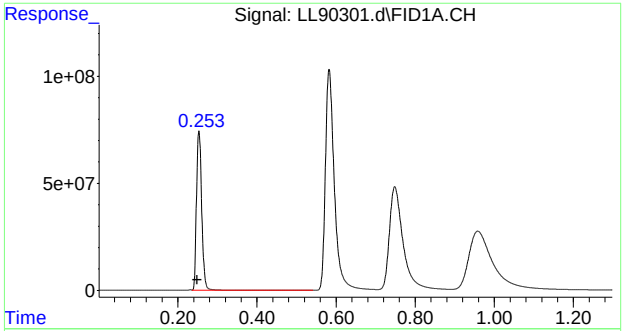
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

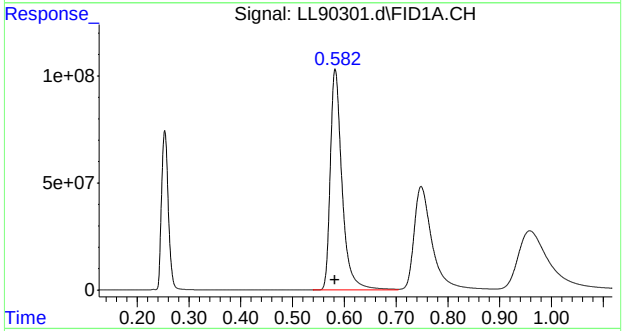
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





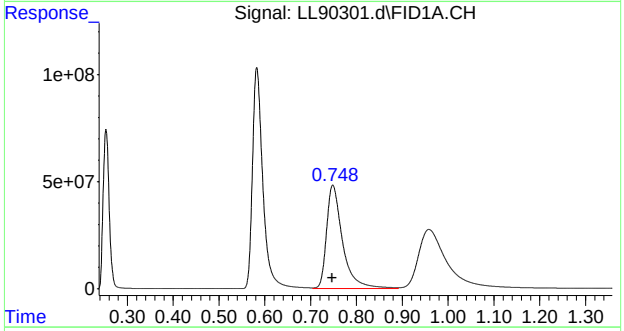
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 682232551
Conc: 987.29 ppmv



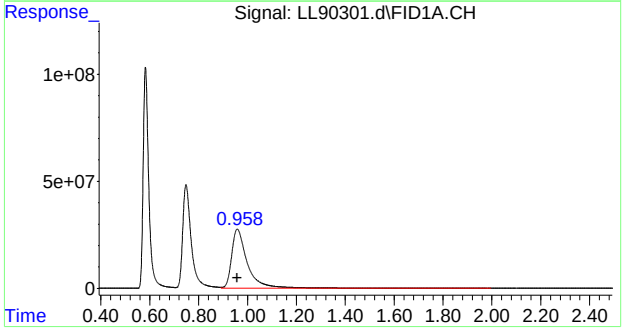
#2 Acetylene

R.T.: 0.583 min
Delta R.T.: 0.000 min
Response: 1628423769
Conc: 1049.88 ppmv



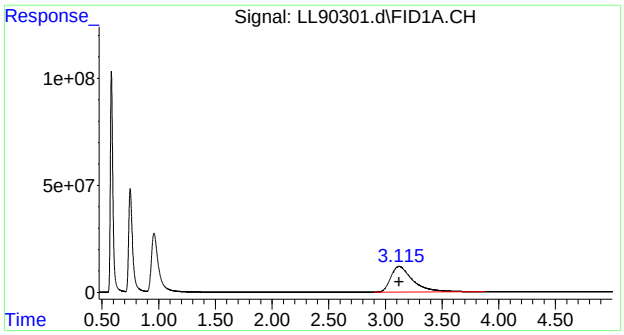
#3 Ethylene

R.T.: 0.748 min
Delta R.T.: 0.002 min
Response: 1174843838
Conc: 991.18 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.002 min
Response: 1235284811
Conc: 996.38 ppmv



#5 Propane

R.T.:	3.115 min
Delta R.T.:	-0.005 min
Response:	1609542531
Conc:	934.18 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90301.D
Injection Time: 06/27/24 12:50
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

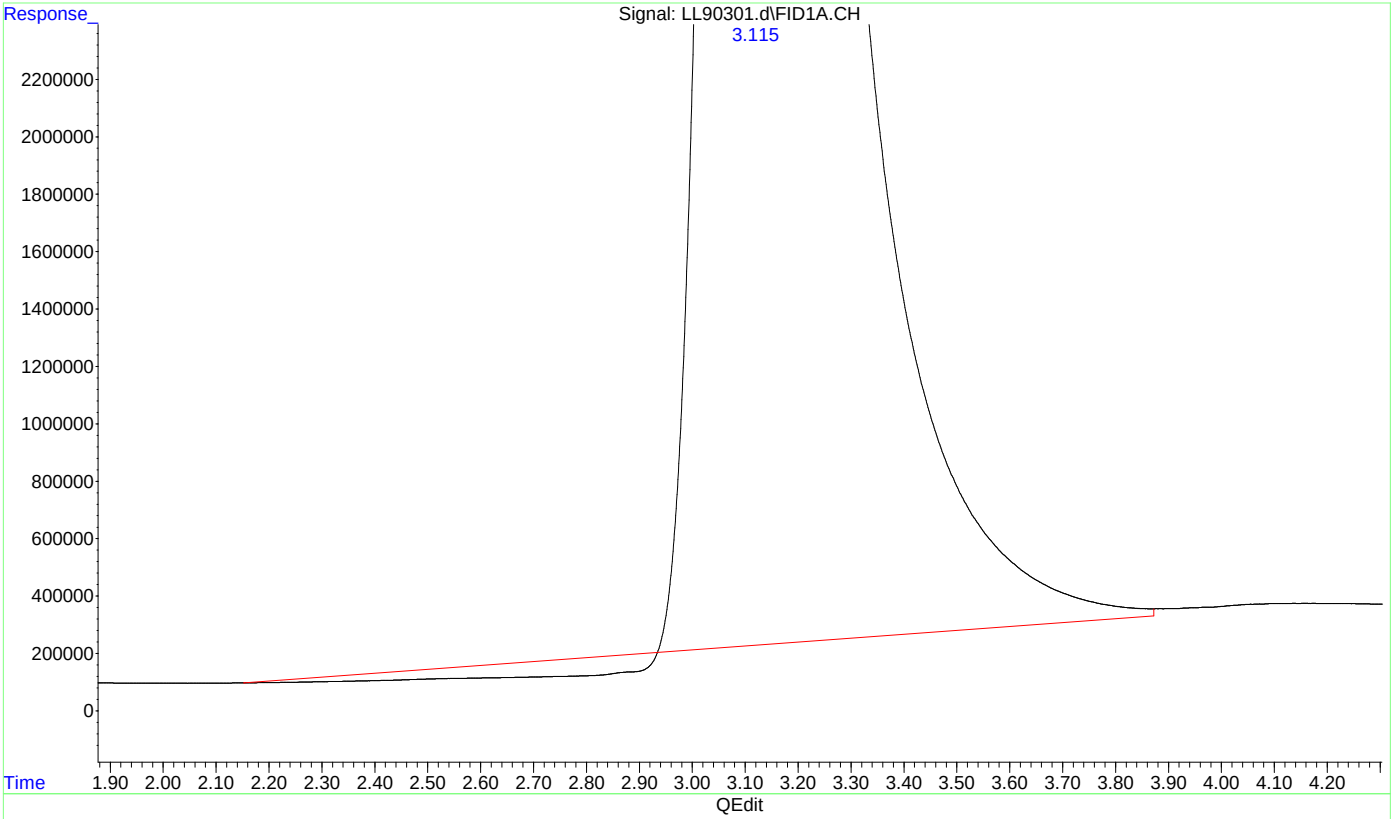
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:26 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.116min 914.061 ppmv

response 1574885983

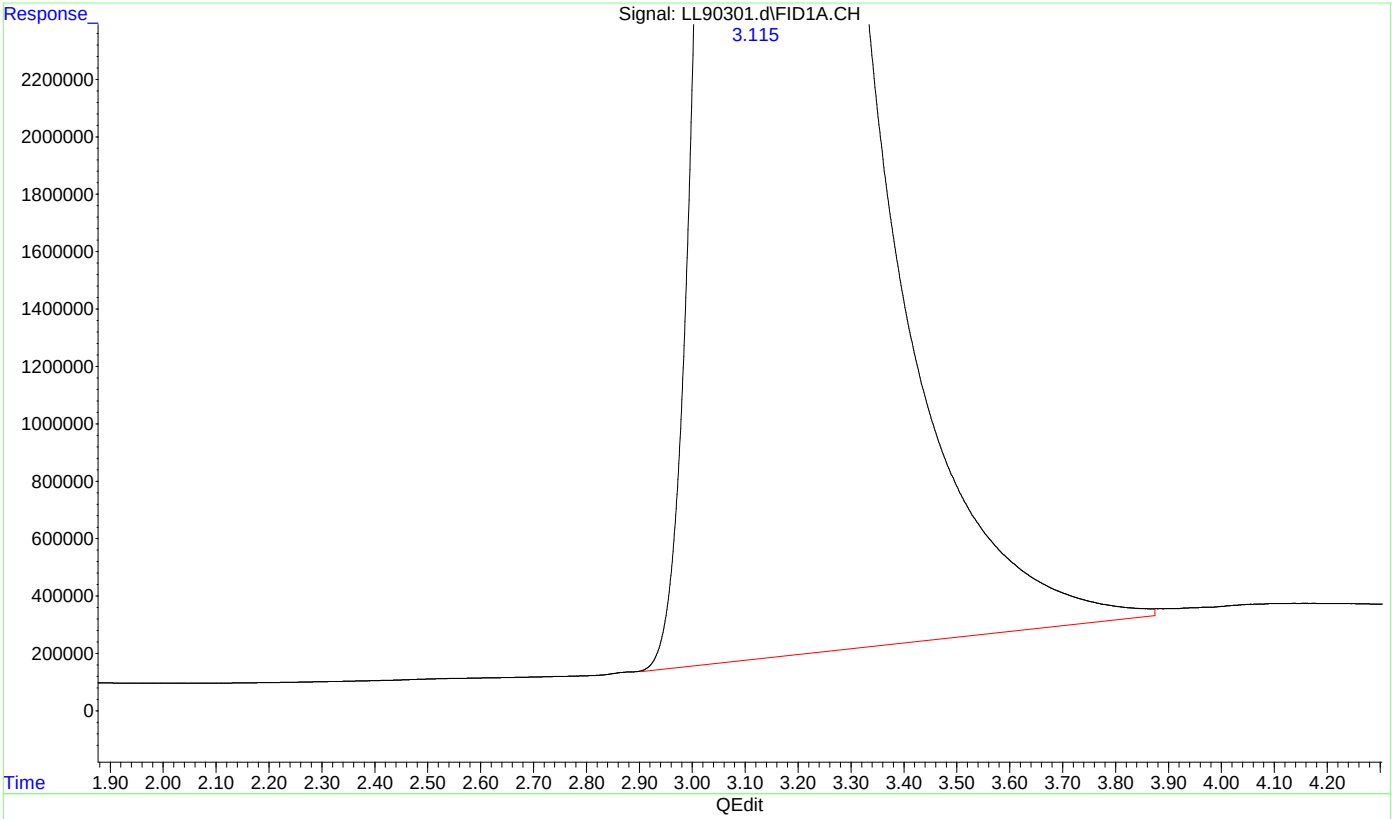
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 12:55:36 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:26 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 934.175 ppmv m

response 1609542531

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 12:55:41 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90309.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:19:04
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3144,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:24:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.256	687689440	995.189	ppmv	
2)	Acetylene	0.584	1650318975	1063.999	ppmv	
3)	Ethylene	0.749	1189230699	1003.318	ppmv	
4)	Ethane	0.959	1252334151	1010.133	ppmv	
5)	Propane	3.115	1645432390	955.006	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

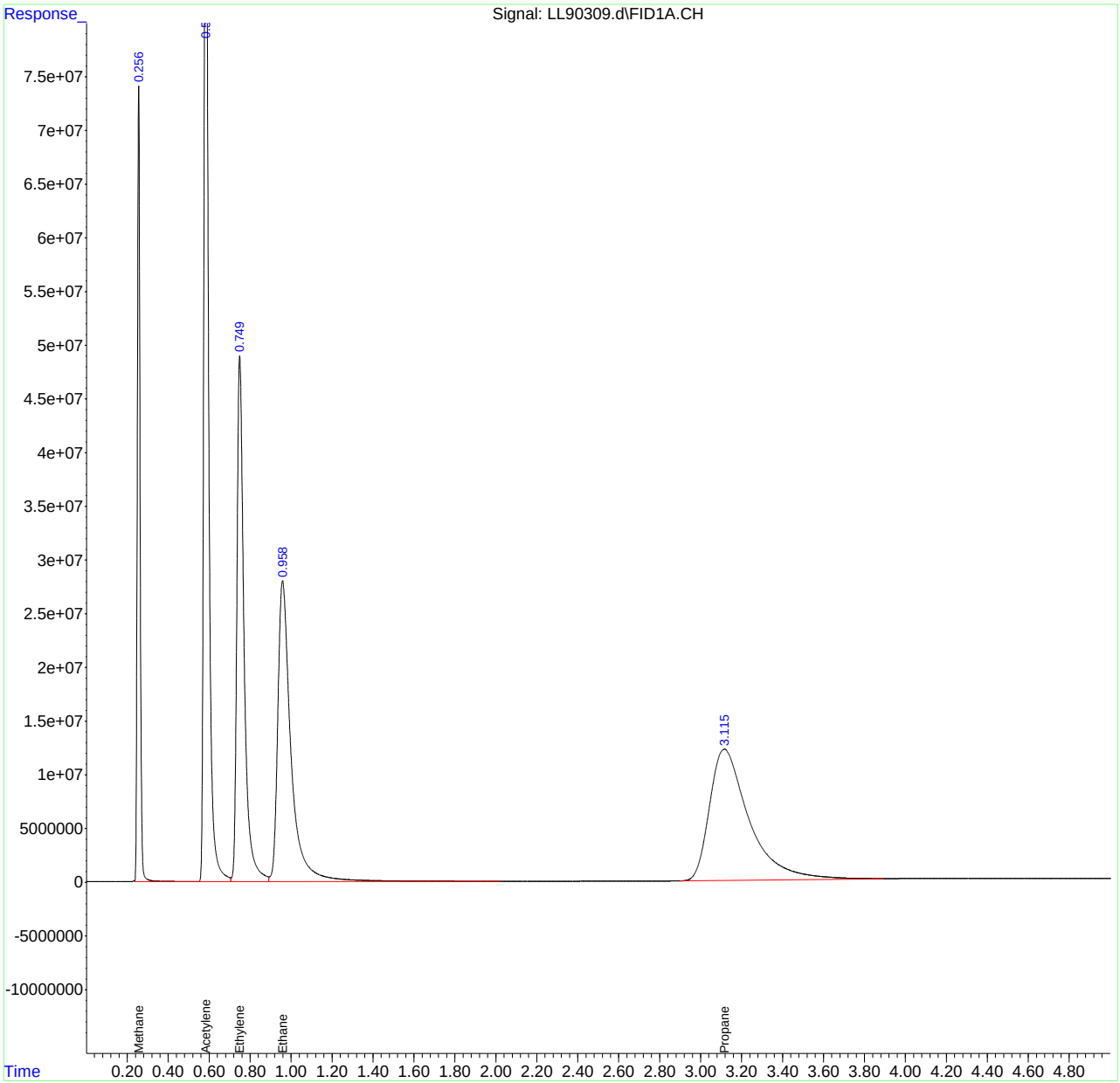
9.6.16
6

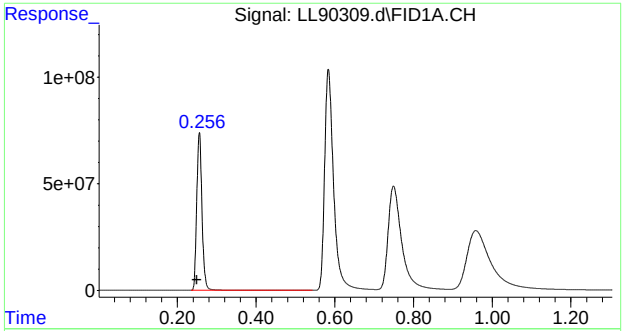
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90309.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:19:04
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3144,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:24:52 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

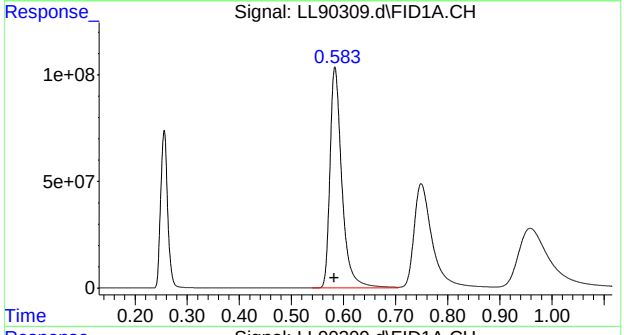
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





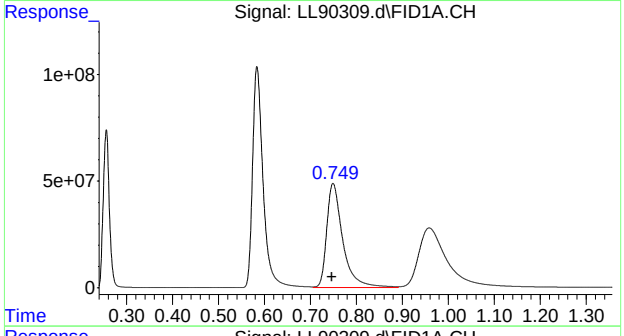
#1 Methane

R.T.: 0.256 min
Delta R.T.: 0.007 min
Response: 687689440
Conc: 995.19 ppmv



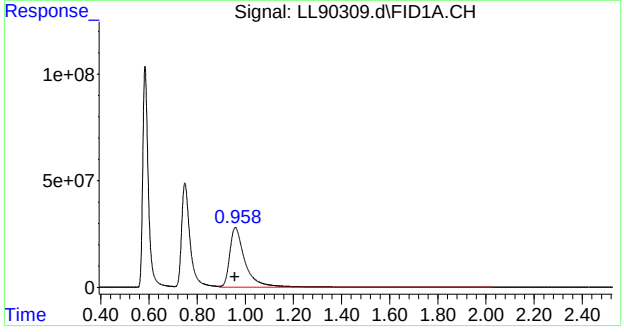
#2 Acetylene

R.T.: 0.584 min
Delta R.T.: 0.002 min
Response: 1650318975
Conc: 1064.00 ppmv



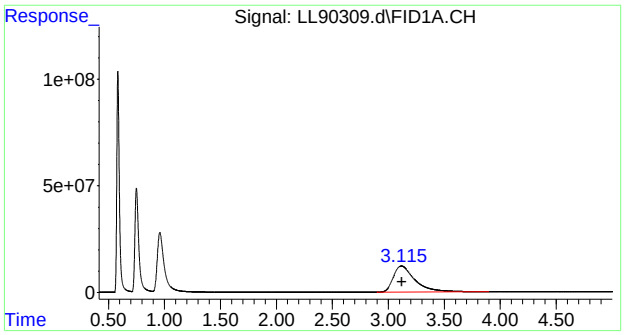
#3 Ethylene

R.T.: 0.749 min
Delta R.T.: 0.003 min
Response: 1189230699
Conc: 1003.32 ppmv



#4 Ethane

R.T.: 0.959 min
Delta R.T.: 0.002 min
Response: 1252334151
Conc: 1010.13 ppmv



#5 Propane

R.T.:	3.115 min
Delta R.T.:	-0.005 min
Response:	1645432390
Conc:	955.01 ppmv m

9.6.16

6

Manual Integration Approval Summary

Sample Number: GLL3144-ECC3025
Lab FileID: LL90309.D
Injection Time: 06/27/24 14:19
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

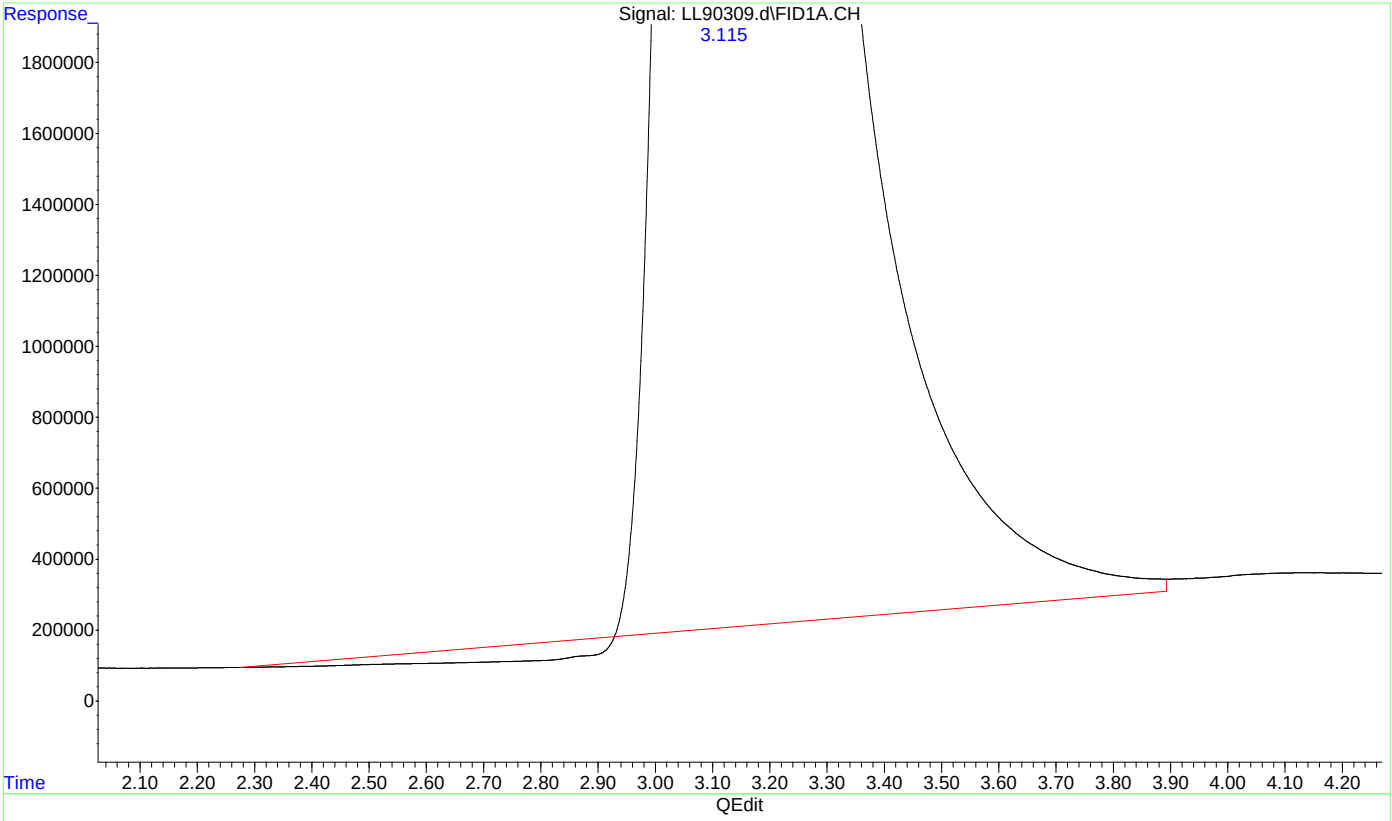
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90309.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:19:04
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3144,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:24:36 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 939.758 ppmv

response 1619161810

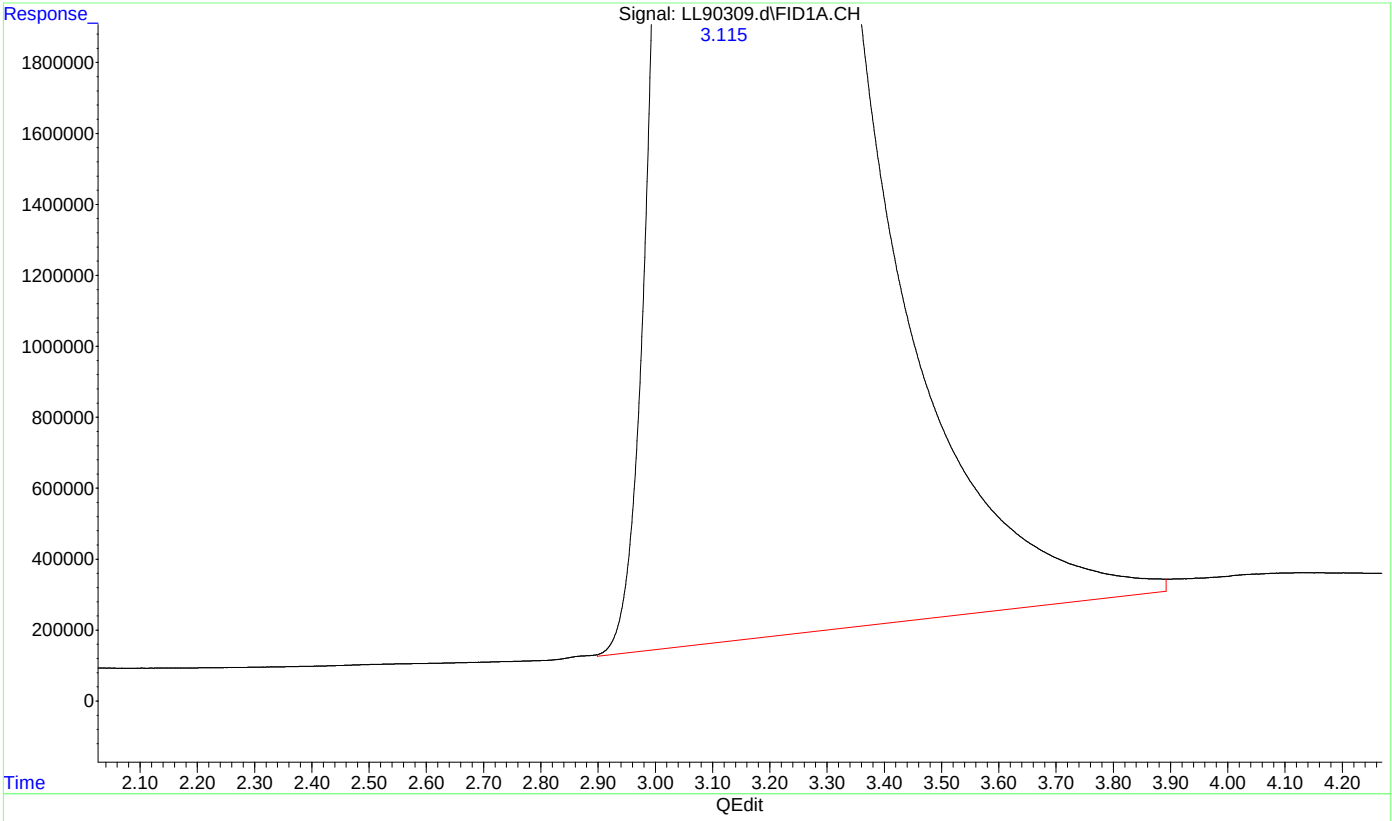
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 14:24:48 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90309.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 14:19:04
Operator : jennr
Sample : ecc3025-5
Misc : gc24883,gll3144,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 14:24:36 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 955.006 ppmv m

response 1645432390

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 14:24:53 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:22:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.255	692318134	1001.887	ppmv	
2)	Acetylene	0.583	1643697739	1059.730	ppmv	
3)	Ethylene	0.748	1189912797	1003.894	ppmv	
4)	Ethane	0.958	1249065103	1007.497	ppmv	
5)	Propane	3.113	1606962575	932.678	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.17

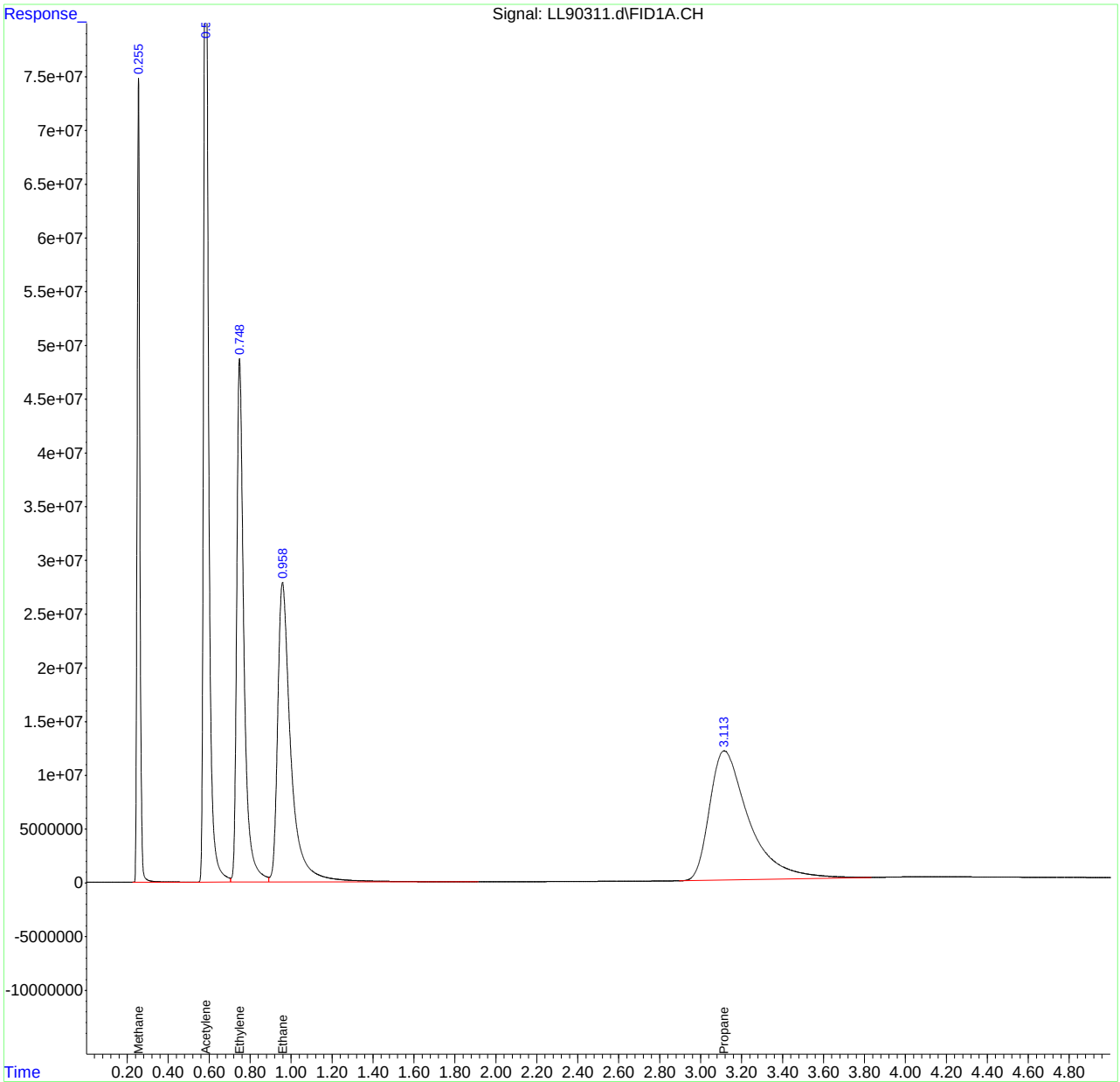
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:22:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90311.D
Injection Time: 06/28/24 09:16
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

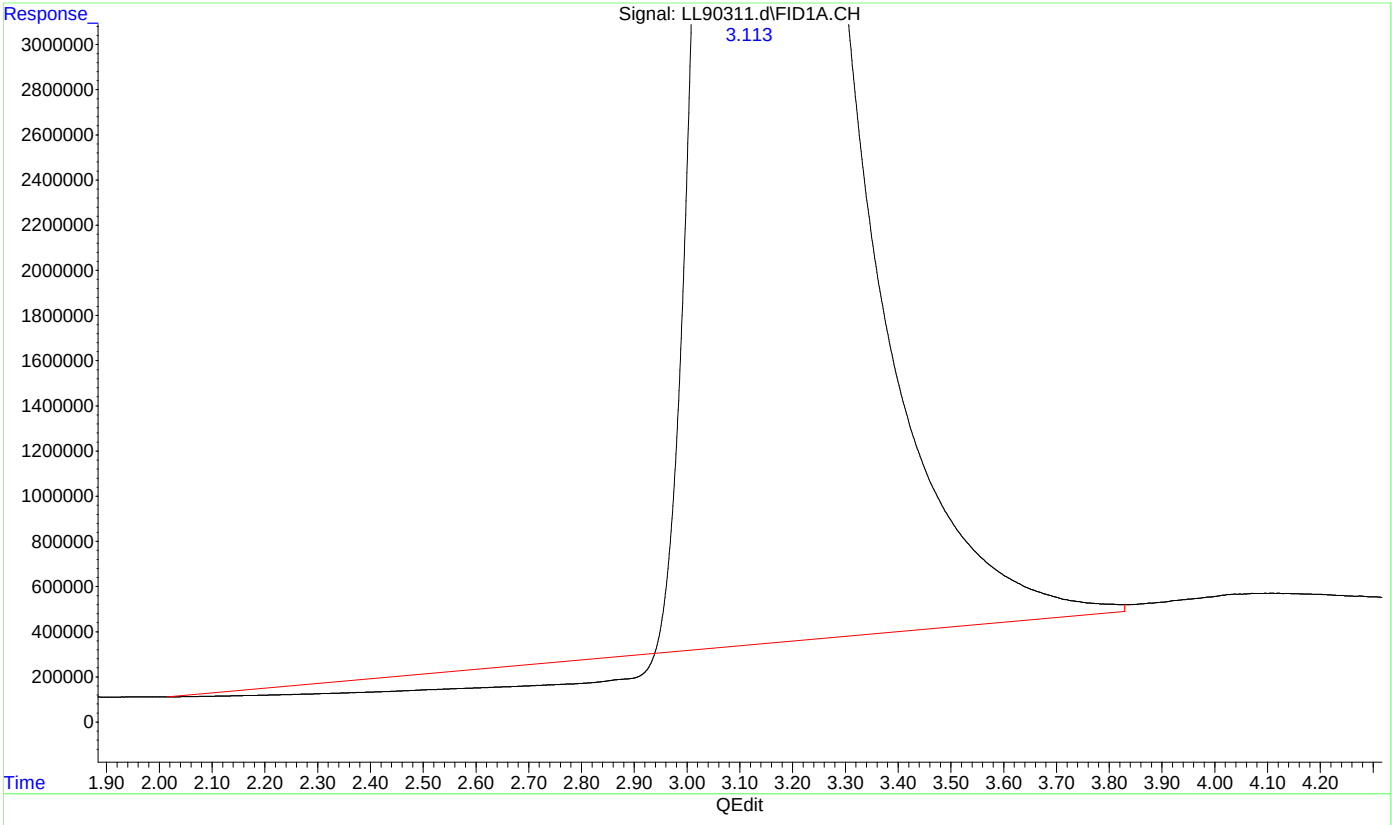
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:21:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 897.259 ppmv

response 1545936602

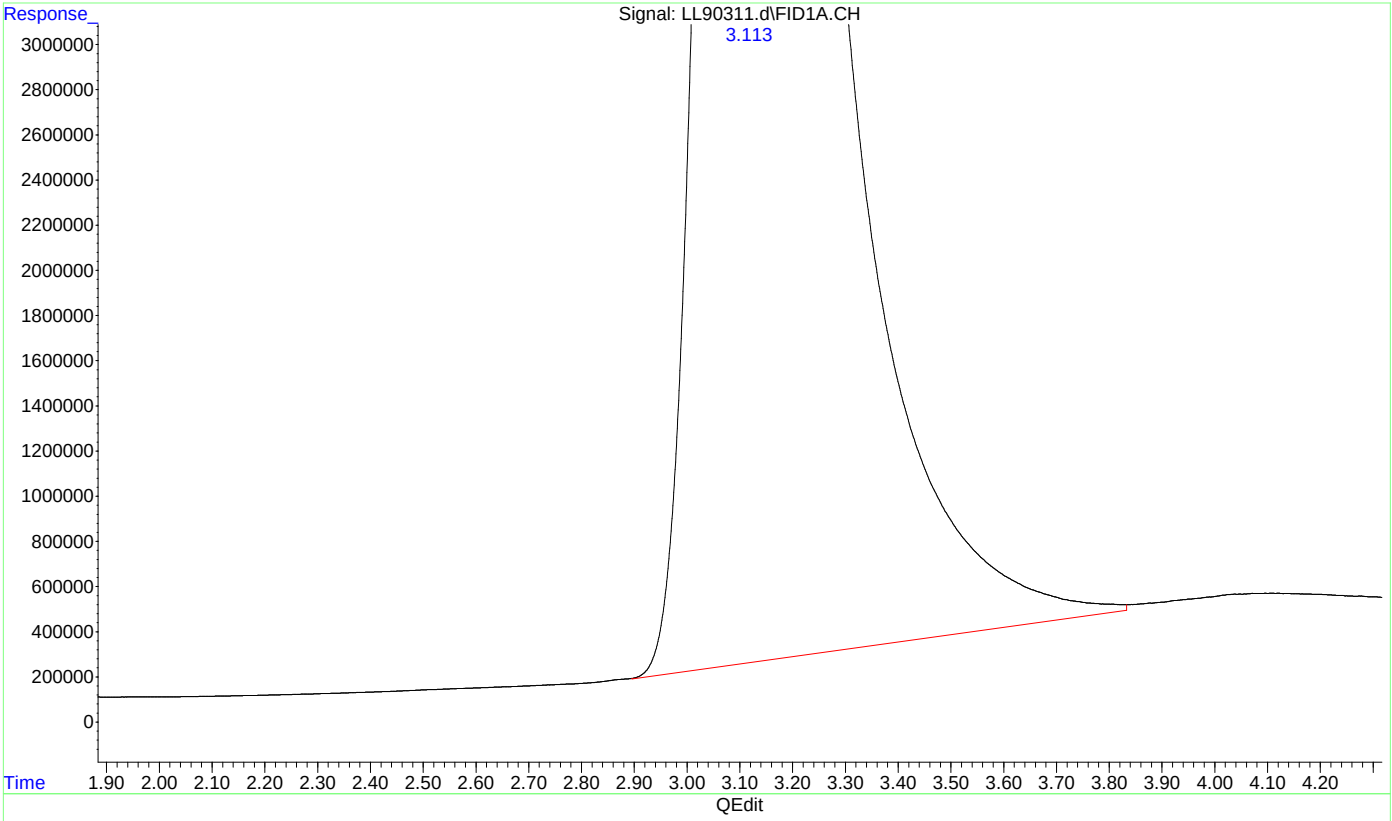
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:21:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 932.678 ppmv m

response 1606962575

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.253	371846804	538.117 ppmv m
2)	Acetylene	0.582	880075005	567.405 ppmv
3)	Ethylene	0.749	639785994	539.768 ppmv
4)	Ethane	0.959	675761291	545.069 ppmv
5)	Propane	3.117	874026245	507.283 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

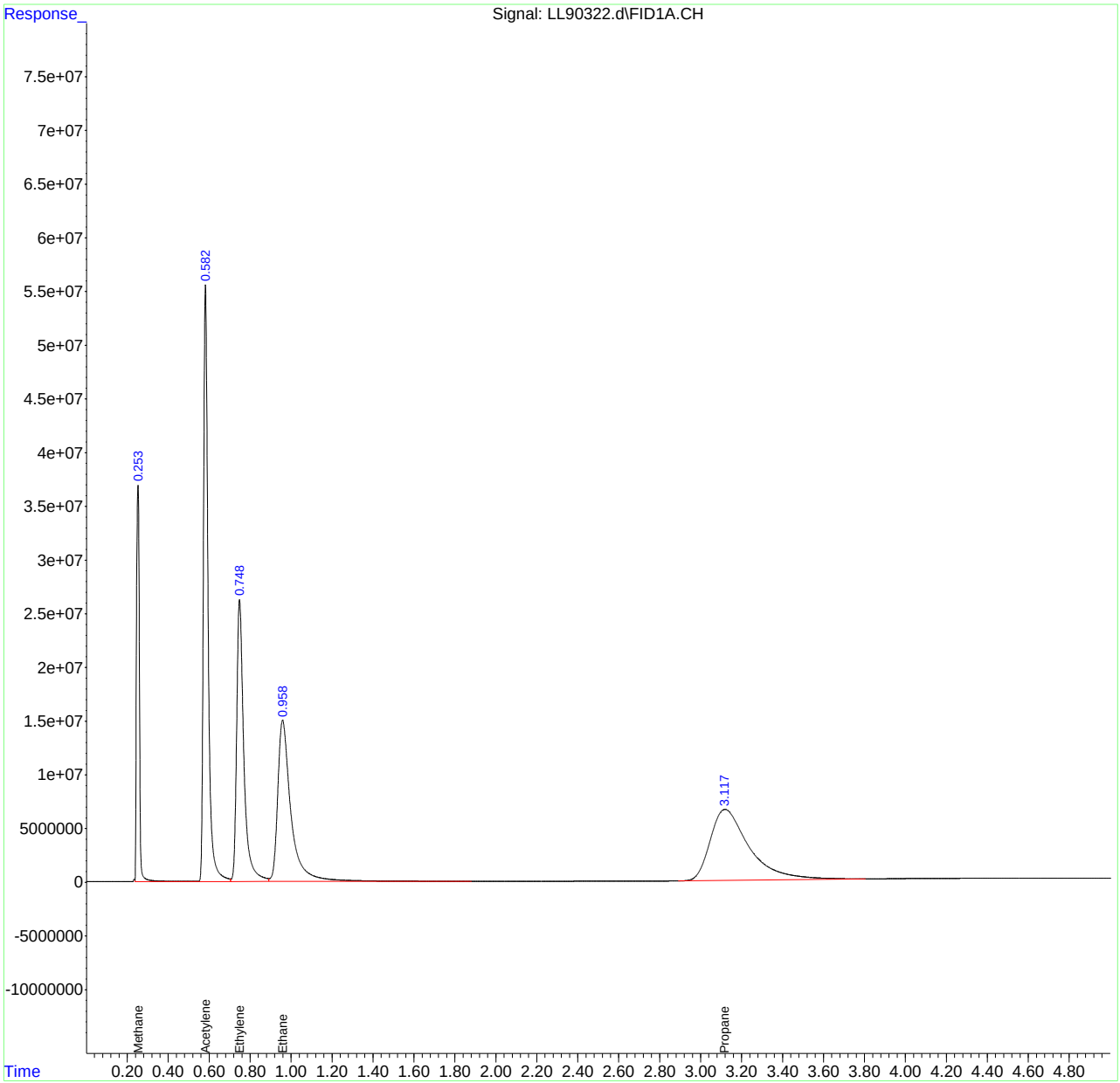
9.6.18
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90322.D
Injection Time: 06/28/24 11:33
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

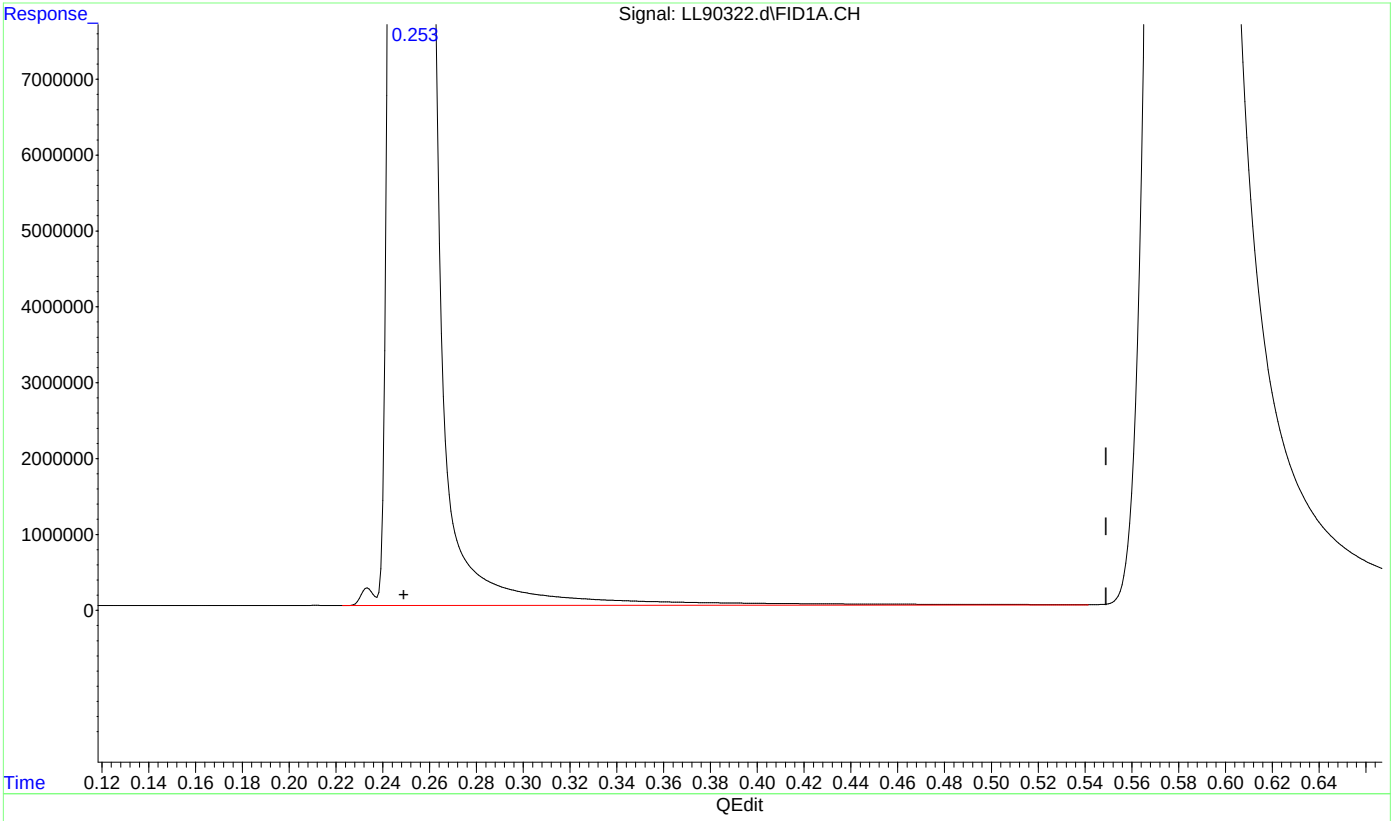
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 539.265 ppmv

response 372639850

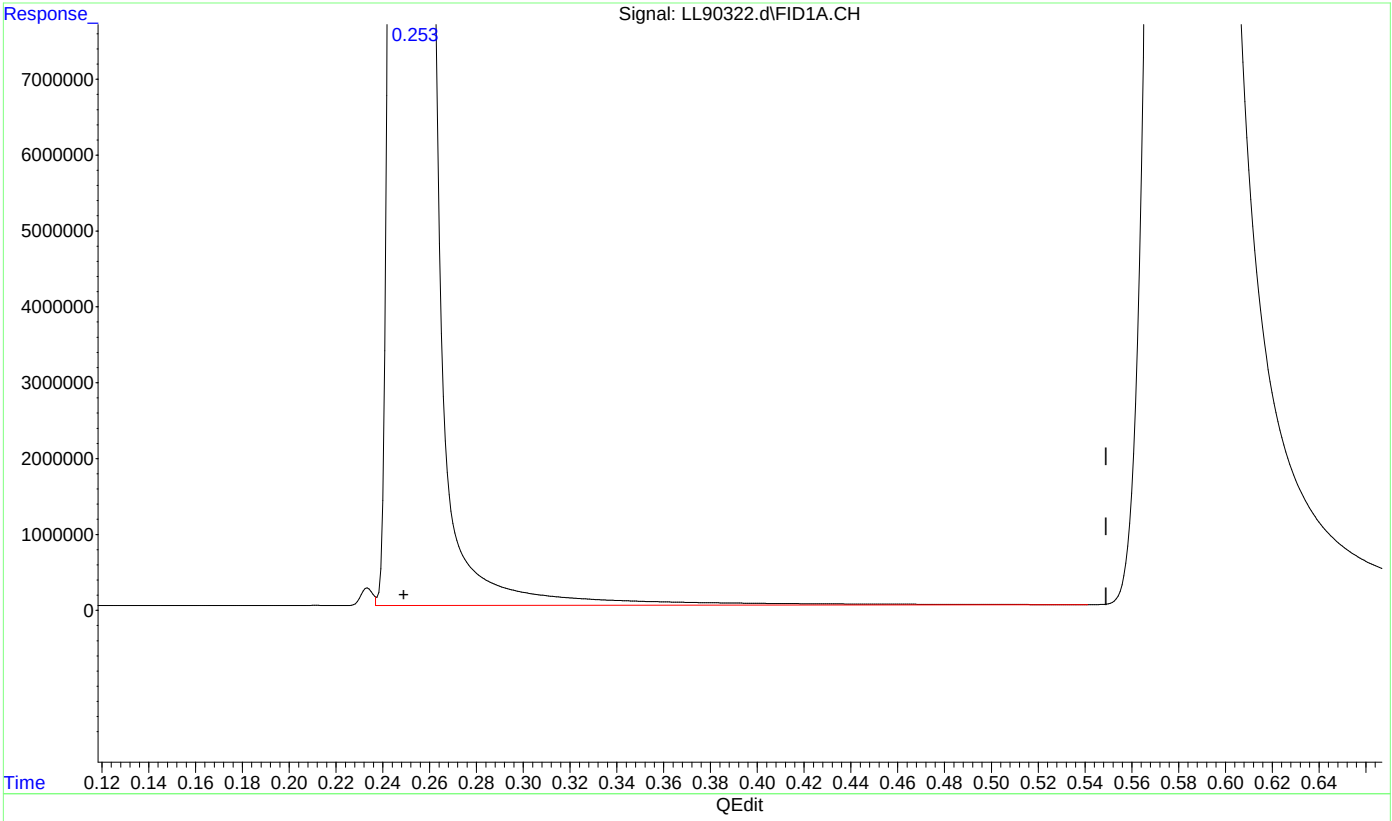
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:31 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 538.117 ppmv m

response 371846804

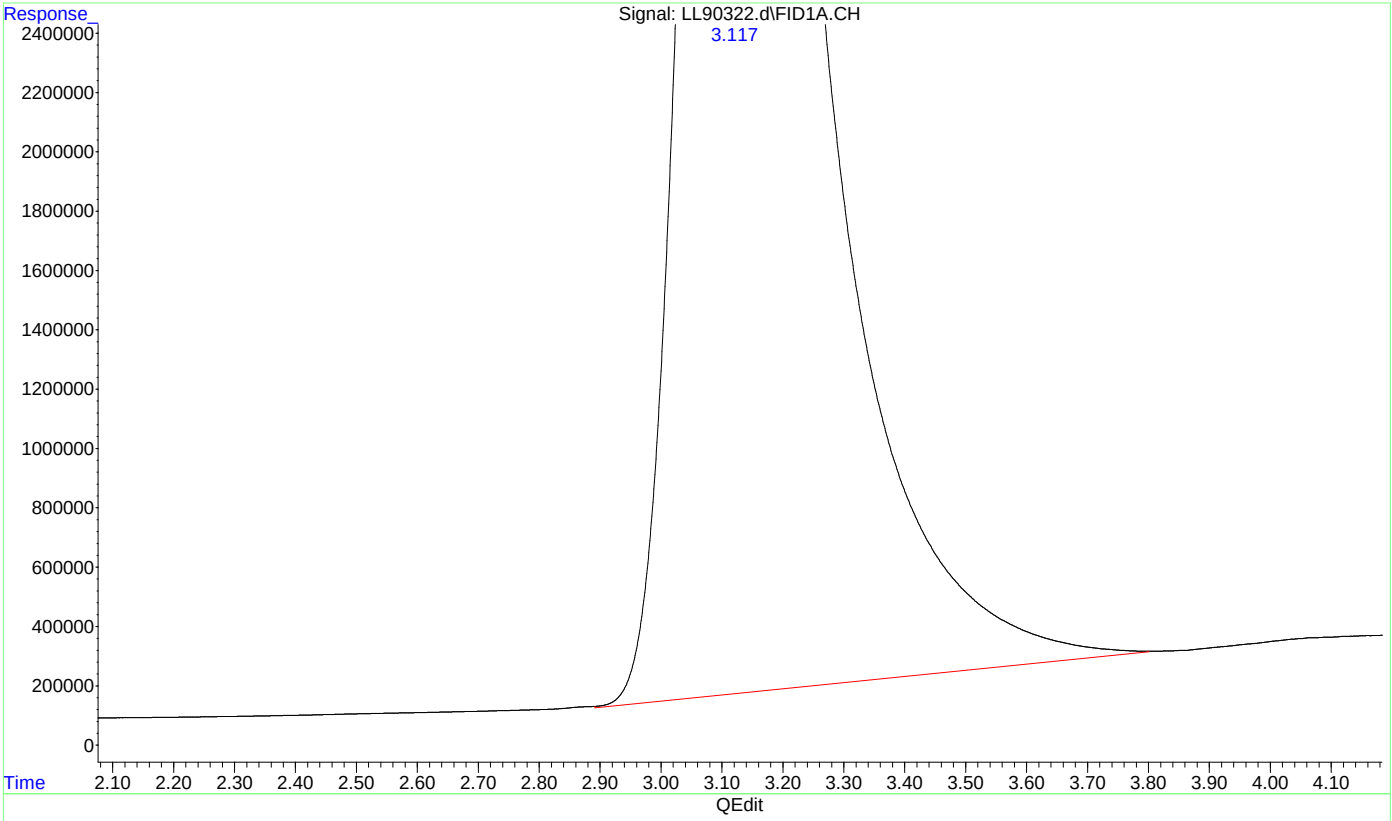
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:38 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 507.283 ppmv m

response 874026245

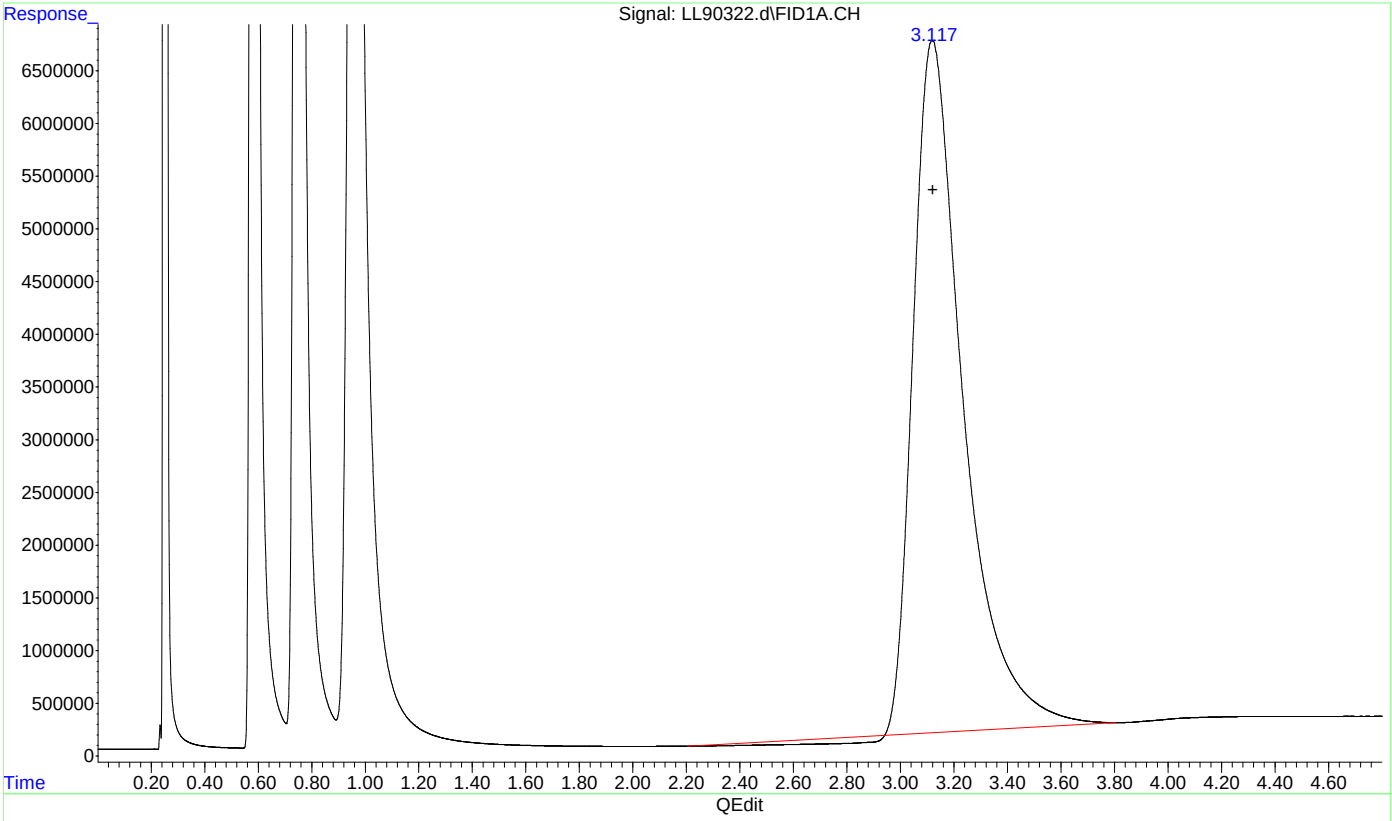
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:49 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 02 08:08:32 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.118min 488.751 ppmv

response 842096409

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	701276097	1014.850	ppmv	m
2)	Acetylene	0.582	1670943642	1077.297	ppmv	
3)	Ethylene	0.748	1207189121	1018.469	ppmv	
4)	Ethane	0.958	1270234246	1024.572	ppmv	
5)	Propane	3.116	1658503804	962.593	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

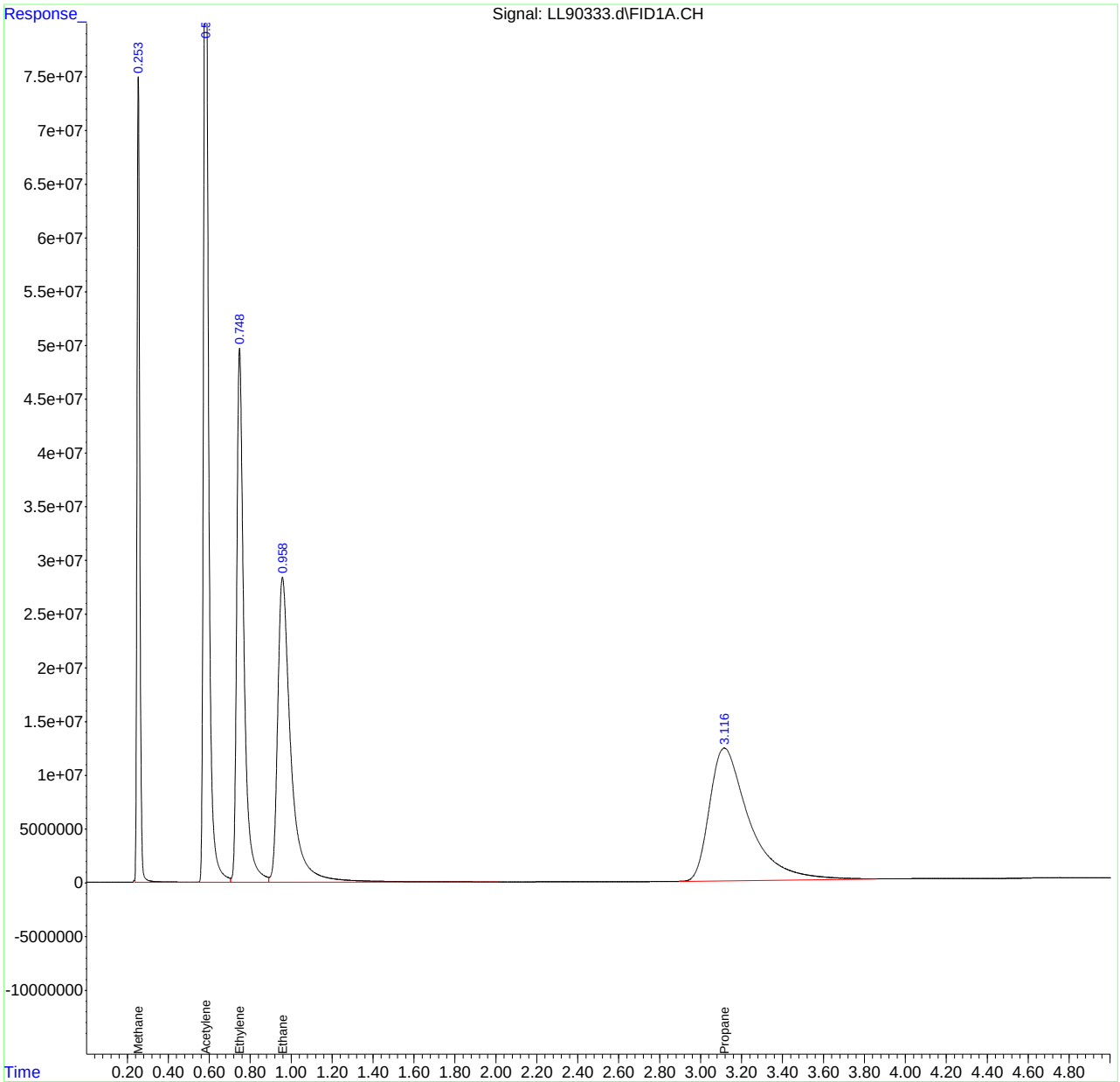
9.6.19
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90333.D
Injection Time: 06/28/24 13:05
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

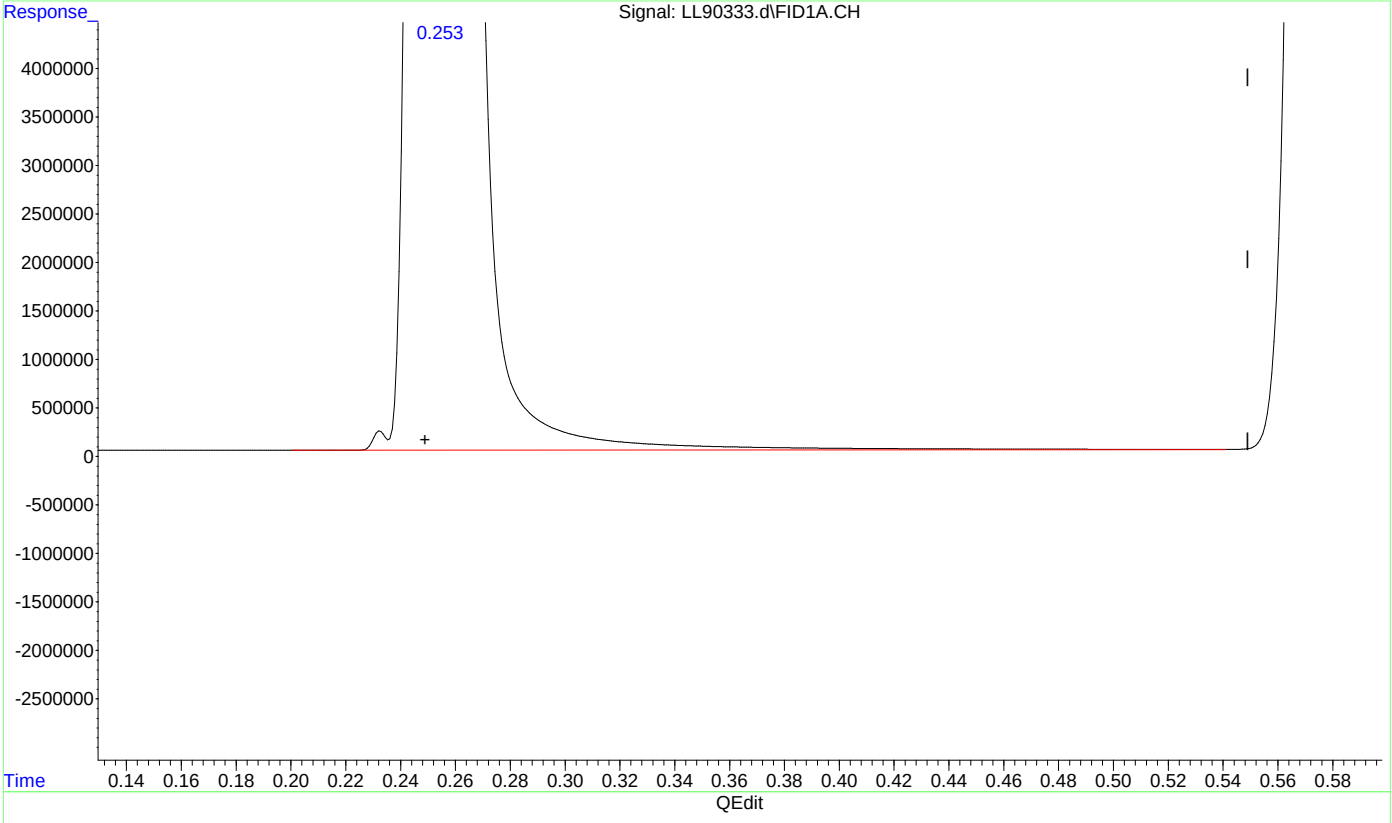
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 1015.549 ppmv

response 701758850

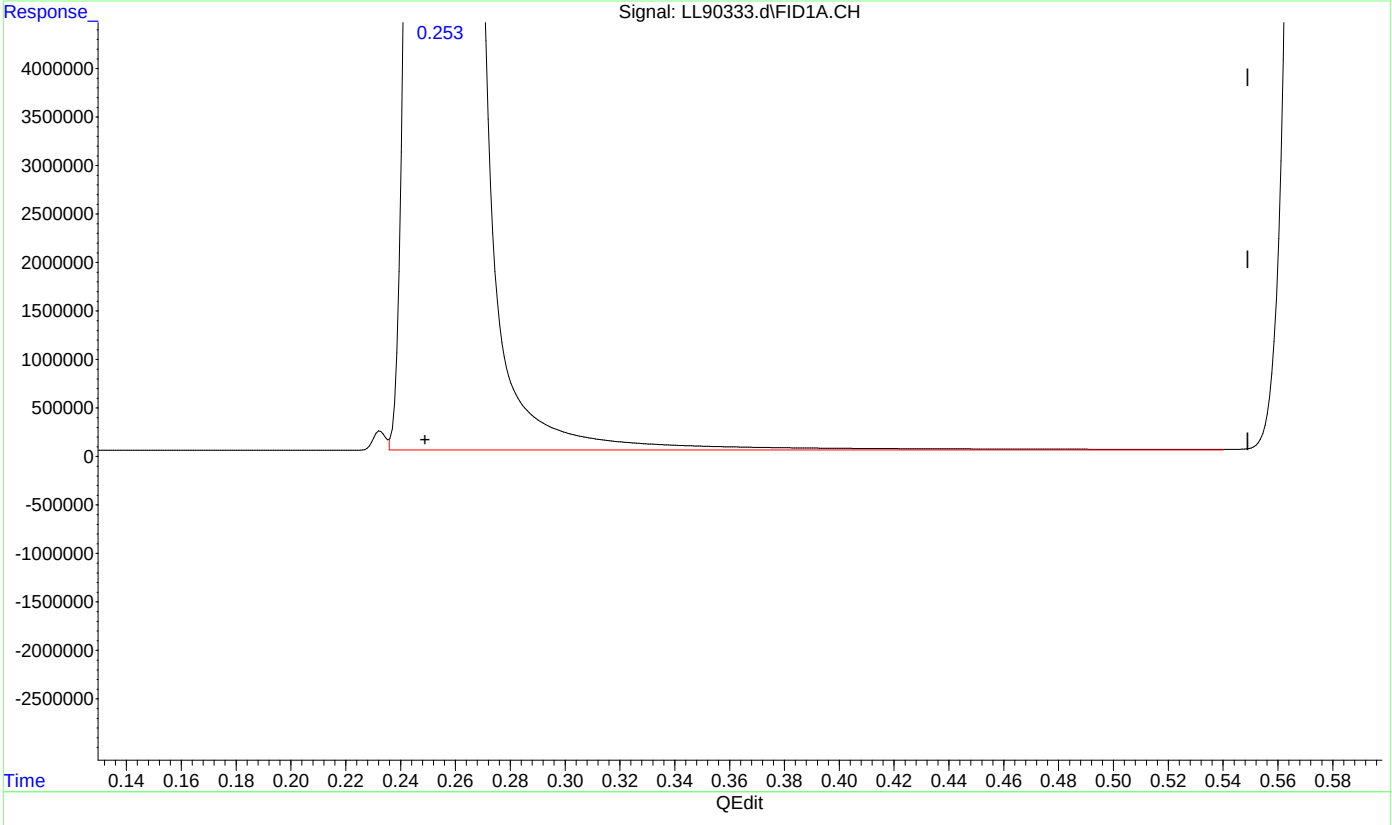
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:09 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 1014.850 ppmv m

response 701276097

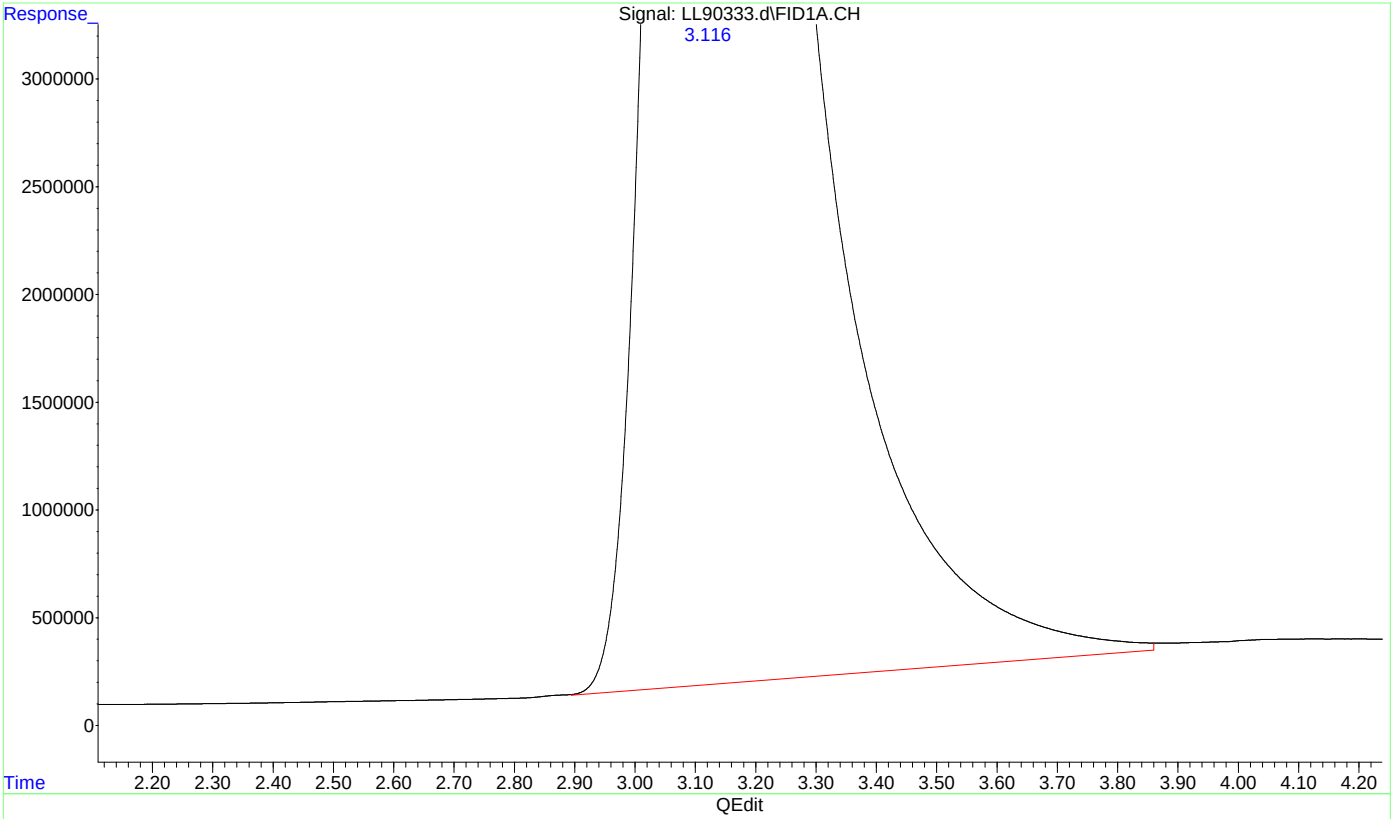
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:21 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.116min 962.593 ppmv m

response 1658503804

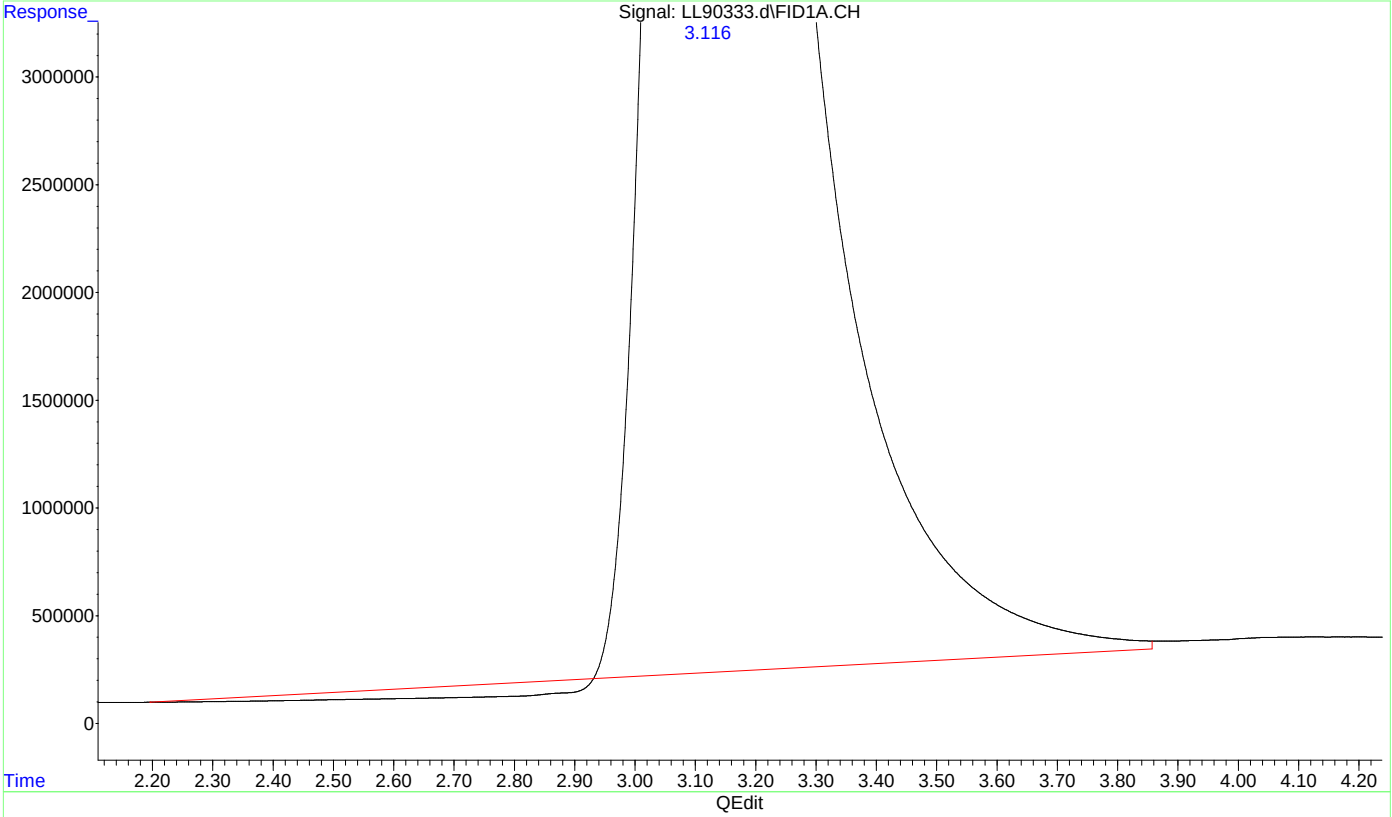
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:34 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 943.836 ppmv

response 1626186599

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:28 2024

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL
Date	1/10/2024
ANALYST:	jennr
Column Type	C1006
Detector	FID

METHODS:	NEWRSK 147/175
METHOD FILE:	RSK01102024.M
CALIB. DATE	1/10/2024
DataAqcMeth	DGMEE3.M
RUN ID:	GLL3025

STANDARDS:		**PH LOT**	230320
ICAL/CCV:	11151A,10973A,11530A	**KI PAPER LOT**	14-860
		AMBIENT TEMP.	21°C
ISTD/SURR:	NA	**THERM ID:**	170563327
		Sample ID Verified:	jennr
ICV/QC:	11171A	**DATE VERIFIED:**	1/10/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	CI	RR	Comments
LL87259	ccb, helium	-	-	-	-	-	-	-	-	-	
LL87260	mb	-	-	W	500	-	-	-	-	-	ND
LL87261	ic3025-1	10x	-	W	500	15	-	-	-	-	
LL87262	ic3025-2	-	-	W	500	15	-	-	-	-	
LL87263	ic3025-3	10x	-	W	500	1000	-	-	-	-	
LL87264	ic3025-4	-	-	W	250	1000	-	-	-	-	
LL87265	icc3025-5	-	-	W	500	1000	-	-	-	-	
LL87266	ic3025-6	-	-	W	250	10000	-	-	-	-	
LL87267	ic3025-7	-	-	W	500	10000	-	-	-	-	
LL87268	ccb, helium	-	-	-	-	-	-	-	-	-	
LL87269	icv3025-5	-	-	W	500	10000	-	-	-	-	Pass
LL87269a	cc3025-5	-	-	W	500	10000	-	-	-	-	Pass
LL87270	bs	-	-	W	500	10000	-	-	-	-	Pass
LL87271	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL87272	mb	-	-	W	500	-	-	-	-	-	ND
LL87273	fc12419-1B	1x	7	W	500	-	-	1	N	-	✔
LL87274	fc12419-2B	1x	3	W	500	-	-	1	N	-	✔
LL87275	fc12419-4B	1x	3	W	500	-	-	1	N	10x	Methane offscale
LL87276	fc12419-5B	1x	6	W	500	-	-	1	N	-	✔
LL87277	fc12419-1Bms	1x	8	W	500	10000	-	1	N	-	Pass
LL87278	fc12419-6B	1x	9	W	500	-	-	1	N	-	✔
LL87279	fc12419-6Bdup	1x	10	W	500	-	-	1	N	-	Pass
LL87280	ecc3025-4	-	-	-	250	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

GCVOA_RSK_Log_Rev0

SGS - ORLANDO

DGMEE Preparation Logbook

Date 1-10-24

RUN ID GLL3025

pH Paper Lot# 230320

KI Paper Lot # 14-860

Method: NPWRSK 147/175

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl ? Y/N	Sample Amount (ml)	Comments
FC12419-1B	7	5.0	1	N	38.0 ~~38.0~~ 39.0 JK	
FC12419-2B	3	5.0	1	N	37.5	
FC12419-4B	3	5.0	1	N	38.0	
FC12419-5B	6	5.0	1	N	38.0	
FC12419-1B	8	5.0	1	N	37.5	
~~FC12419-4~~	~~4~~	~~5.0~~				
FC12419-6B	9	4.9	1	N	38.0	
FC12419-6B	10	5.1	1	N	38.0	

JK 1-10-24

Analyst: Jennifer R.

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL	**METHODS**:	NEWRSK 147/175	**STANDARDS:**		**PH LOT**	211623A
Date	6/26/2024	**METHOD FILE:**	RSK01102024.M	**ICAL/CCV:**	11151A	**KI PAPER LOT**	14-860
ANALYST:	jennr	**CALIB. DATE**	1/10/2024			**AMBIENT TEMP.**	21°C
Column Type	C1006	**DataAqcMeth**	DGMEE3.M	**ISTD/SURR:**	NA	**THERM ID:**	170563327
Detector	FID					**Sample ID Verified:**	jennr
		RUN ID:	GLL3143	**ICV/QC:**	11171A	**DATE VERIFIED:**	6/26/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	CI	RR	Comments
LL90250	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90251	cc3025-5	-	-	-	500	1000	-	-	-	-	Pass
LL90252	bs	-	-	W	500	10000	-	-	-	-	Pass
LL90253	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL90254	mb	-	-	W	500	-	-	-	-	-	ND
LL90255	fc16559-3	1x	19	W	500	-	-	1	N	20x	Methane offscale
LL90256	fc16559-3	20x	20	W	500	-	250uL(-)5mL	1	N	-	✔
LL90257	fc16559-3dup	20x	21	W	500	-	250uL(-)5mL	1	N	-	Pass
LL90258	fc16559-4	1x	7	W	500	-	-	1	N	20x	Methane offscale
LL90259	fc16559-3ms	20x	22	W	500	10000	250uL(-)5mL	1	N	-	Pass
LL90260	fc16559-5	1x	4	W	500	-	-	1	N	20x	Methane offscale
LL90261	fc16559-6	1x	7	W	500	-	-	1	N	20x	Methane offscale
LL90262	cc3025-4	-	-	-	250	1000	-	-	-	-	Pass
LL90263	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90264	fc16559-7	1x	8	W	500	-	-	1	N	-	✔
LL90265	fc16559-8	1x	8	W	500	-	-	1	N	-	✔
LL90266	fc16559-1	10x	5	W	500	-	500uL(-)5mL	6	N	-	✔
LL90267	fc16559-2	10x	4	W	500	-	500uL(-)5mL	5	N	-	✔
LL90268	fc16561-2	1x	5	W	500	-	-	1	N	2x	Methane offscale
LL90269	fc16561-3	1x	7	W	500	-	-	1	N	-	✔
LL90270	fc16561-4	1x	8	W	500	-	-	1	N	-	✔
LL90271	fc16561-6	1x	6	W	500	-	-	1	N	10x	Methane offscale
LL90272	fc16561-7	1x	6	W	500	-	-	1	N	10x	Methane offscale
LL90273	cc3025-5	-	-	W	500	1000	-	-	-	-	Pass
LL90274	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90275	fc16561-8	1x	5	W	500	-	-	1	N	10x	Methane offscale
LL90276	fc16561-14	1x	1	W	500	-	-	1	N	-	✔
LL90277	ecc3025-5	-	-	W	500	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

GCVOA_RSK_Log_Rev0

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL	**METHODS**:	NEWRSK 147/175	**STANDARDS:**		**PH LOT**	211623A
Date	6/27/2024	**METHOD FILE:**	RSK01102024.M	**ICAL/CCV:**	11151A	**KI PAPER LOT**	14-860
ANALYST:	jennr	**CALIB. DATE**	1/10/2024			**AMBIENT TEMP.**	21°C
Column Type	C1006	**DataAqcMeth**	DGMEE3.M	**ISTD/SURR:**	NA	**THERM ID:**	170563327
Detector	FID					**Sample ID Verified:**	jennr
		RUN ID:	GLL3144	**ICV/QC:**	11171A	**DATE VERIFIED:**	6/27/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	Cl	RR	Comments
LL90278	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90279	cc3025-5	-	-	-	500	1000	-	-	-	-	Pass
LL90280	bs	-	-	W	500	10000	-	-	-	-	Pass
LL90281	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL90282	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90283	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90284	mb	-	-	W	500	-	-	-	-	-	Fresh DI water boiled; ND
LL90285	fc16561-5	1x	18	W	500	-	-	1	N	-	✔
LL90286	fc16561-5dup	1x	16	W	500	-	-	1	N	-	Pass
LL90287	fc16561-5ms	1x	15	W	500	10000	-	1	N	-	Pass
LL90288	fc16561-13	1x	8	W	500	-	-	1	N	-	✔
LL90289	fc16561-15	1x	6	W	500	-	-	1	N	20x	Methane offscale
LL90290	cc3025-4	-	-	-	250	1000	-	-	-	-	Pass
LL90291	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90292	fc16592-1	1x	5	W	500	-	-	1	N	-	✔
LL90293	fc16592-3	1x	5	W	500	-	-	1	N	10x	Methane offscale
LL90294	fc16592-20	1x	1	W	500	-	-	1	N	-	✔
LL90295	fc16725-1	1x	7	W	500	-	-	1	N	-	✔
LL90296	fc16725-2	1x	7	W	500	-	-	1	N	-	✔
LL90297	fc16725-6	1x	11	W	500	-	-	1	N	-	✔
LL90298	fc16725-7	1x	6	W	500	-	-	1	N	-	TB w/ J-value Methane hit
LL90299	fc16725-8	1x	7	W	500	-	-	1	N	-	✔
LL90300	fc16725-9	1x	4	W	500	-	-	1	N	-	✔
LL90301	cc3025-5	-	-	W	500	1000	-	-	-	-	Pass
LL90302	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90303	fc16559-4	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90304	fc16559-5	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90305	fc16559-6	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90306	fc16561-2	2x	6	W	250	-	-	1	N	-	✔
LL90307	fc16561-6	10x	5	W	500	-	500uL(-)5mL	1	N	-	✔
LL90308	fc16561-7	10x	5	W	500	-	500uL(-)5mL	1	N	-	✔
LL90309	ecc3025-5	-	-	W	500	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

SGS - ORLANDO

DGMEE Preparation Logbook

Date 6-27-24

Method: New RSK147/175

RUN ID GLL3144

pH Paper Lot# 211623A

KI Paper Lot # 14-860

DI H2O boiled for 10mins, cooled for 10mins

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl? Y/N	Sample Amount (ml)	Comments
FC16561-5	18	4.9	1	N	~~38.0~~ 39.0	
FC16561-5dup	16	5.0	1	N	39.0	
FC16561-5 ms	15	5.0	1	N	39.0	
FC16561-13	8	5.0	1	N	39.0	
FC16561-15	6	5.0	1	N	38.0	
FC16592-1	5	5.0	1	N	39.0	
FC16592-3	5	5.0	1	N	38.5	
FC16592-20	1	5.1	1	N	39.0	
FC16725-1	7	5.0	1	N	38.0	
FC16725-2	7	5.0	1	N	38.5	
FC16725-6	11	5.0	1	N	39.0	
FC16725-7	6	5.0	1	N	38.5	
FC16725-8	7	4.9	1	N	38.5	
FC16725-9	4	5.0	1	N	38.0	
FC16559-4 20x	5	5.1	1	N	39.0	
FC16559-5 20x	5	5.0	1	N	39.0	
FC16559-6 20x	5	5.0	1	N	39.0	
FC16561-2 2x	6	5.0	1	N	39.0	
FC16561-6 10x	5	5.0	1	N	38.5	
FC16561-7 10x	5	5.0	1	N	38.0	

Analyst: Jennifer R.

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL	**METHODS**:	NEWRSK 147/175	**STANDARDS:**		**PH LOT**	211623A
Date	6/28/2024	**METHOD FILE:**	RSK01102024.M	**ICAL/CCV:**	11151A	**KI PAPER LOT**	14-860
ANALYST:	jennr	**CALIB. DATE**	1/10/2024			**AMBIENT TEMP.**	21°C
Column Type	C1006	**DataAqcMeth**	DGMEE3.M	**ISTD/SURR:**	NA	**THERM ID:**	170563327
Detector	FID					**Sample ID Verified:**	jennr
		RUN ID:	GLL3145	**ICV/QC:**	11171A	**DATE VERIFIED:**	6/28/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	CI	RR	Comments
LL90310	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90311	cc3025-5	-	-	-	500	1000	-	-	-	-	Pass
LL90312	bs	-	-	W	500	10000	-	-	-	-	Pass
LL90313	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL90314	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90315	mb	-	-	W	500	-	-	-	-	Y	Fresh DI water boiled; J-value Methane hit
LL90316	mb	-	-	W	500	-	-	-	-	-	ND
LL90317	fc16768-1	1x	12	W	500	-	-	1	N	-	✔
LL90318	fc16768-3	1x	8	W	500	-	-	1	N	-	✔
LL90319	fc16768-6	1x	10	W	500	-	-	1	N	-	✔
LL90320	fc16671-10	1x	4	W	500	-	-	1	N	-	✔
LL90321	fc16768-1ms	1x	8	W	500	10000	-	1	N	-	Pass
LL90322	cc3025-4	-	-	-	250	1000	-	-	-	-	Pass
LL90323	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90324	fc16768-6dup	1x	8	W	500	-	-	1	N	-	Pass
LL90325	fc16561-8	10x	6	W	500	-	500uL(-)5mL	1	N	-	✔
LL90326	fc16561-15	20x	7	W	500	-	250uL(-)5mL	1	N	-	✔
LL90327	fc16680-2	1x	8	W	500	-	-	6	N	-	✔
LL90328	fc16680-3	1x	9	W	500	-	-	6	N	-	✔
LL90329	fc16680-4	1x	7	W	500	-	-	5	N	20x	Methane offscale
LL90330	fc16680-5	1x	9	W	500	-	-	6	N	-	✔
LL90331	fc16680-6	1x	8	W	500	-	-	6	N	-	✔
LL90332	fc16680-7	1x	9	W	500	-	-	13	N	-	✔
LL90333	cc3025-5	-	-	W	500	1000	-	-	-	-	Pass
LL90334	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90335	fc16671-6	1x	4	W	500	-	-	1	N	10x	Methane offscale
LL90336	fc16671-7	1x	2	W	500	-	-	1	N	20x	Methane offscale
LL90337	fc16592-3	10x	6	W	500	-	500uL(-)5mL	1	N	-	✔
LL90338	fc16768-2	1x	8	W	250	-	-	1	N	-	TB w/ J-value Methane hit
LL90339	fc16768-4	1x	7	W	500	-	-	1	N	-	✔
LL90340	fc16768-7	1x	6	W	500	-	-	1	N	-	TB w/ J-value Methane hit
LL90341	ecc3025-5	-	-	W	500	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

SGS - ORLANDO

DGMEE Preparation Logbook

Date 6-28-24

Method: NEWRSK147/175

RUN ID GLL3145

pH Paper Lot# 211623A

KI Paper Lot # 14-860

DI H_2O boiled for 10mins, cooled for 10mins

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl? Y/N	Sample Amount (ml)	Comments
FC16768-1	12	4.9	1	N	38.5	
FC16768-3	8	5.0	1	N	38.0	
FC16768-6	10	4.9	1	N	38.5	
FC16671-10	4	5.1	1	N	38.0	
FC16768-1ms	8	5.0	1	N	39.0	
FC16768-6dup	8	5.0	1	N	38.5	
FC16561-8 10x	6	5.0	1	N	39.0	
FC16561-15 20x	7	5.0	1	N	38.0	
FC16680-2	8	5.0	6	N	38.5	
FC16680-3	9	5.0	6	N	38.0	
FC16680-4	7	5.0	5	N	38.0	
FC16680-5	9	5.1	6	N	38.5	
FC16680-6	8	5.0	6	N	38.0	
FC16680-7	9	5.1	13	N	38.0	
FC16671-6	4	5.0	1	N	38.0	
FC16671-7	2	5.0	1	N	38.0	
FC16592-3 10x	6	5.0	1	N	38.0	
FC16768-2	8	5.2	1	N	38.0	
FC16768-4	7	4.9	1	N	39.0	
FC16768-7	6	5.0	1	N	38.0	

Analyst: Jennifer R.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP40145/GN97710	2.0	0.0	mg/l	50	48.8	97.6	90-110%
Chloride	GP40147/GN97719	2.0	0.0	mg/l	50	48.1	96.2	90-110%
Nitrogen, Nitrate	GP40145/GN97710	0.10	0.0	mg/l	2.5	2.35	94.0	90-110%
Nitrogen, Nitrate	GP40147/GN97719	0.10	0.0	mg/l	2.5	2.33	93.2	90-110%
Nitrogen, Nitrite	GP40145/GN97710	0.10	0.0	mg/l	2.5	2.44	97.6	90-110%
Sulfate	GP40147/GN97719	2.0	0.0	mg/l	50	46.7	93.4	90-110%
Total Organic Carbon	GP40152/GN97733	2.0	0.0	mg/l	15	15.0	100.0	90-110%

Associated Samples:
Batch GP40145: FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7
Batch GP40147: FC16561-5, FC16561-8, FC16561-13, FC16561-15
Batch GP40152: FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-13, FC16561-15
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP40145/GN97710	FC16546-1	mg/l	3.6	50	53.4	99.6	90-110%
Chloride	GP40147/GN97719	FC16561-5	mg/l	2.7	50	50.8	96.2	90-110%
Nitrogen, Nitrate	GP40145/GN97710	FC16546-1	mg/l	0.43	2.5	2.8	94.8	90-110%
Nitrogen, Nitrate	GP40147/GN97719	FC16561-5	mg/l	0.061	2.5	2.4	93.6	90-110%
Nitrogen, Nitrite	GP40145/GN97710	FC16546-1	mg/l	0.040 U	2.5	2.5	100.0	90-110%
Sulfate	GP40147/GN97719	FC16561-5	mg/l	26.4	50	72.0	91.2	90-110%
Total Organic Carbon	GP40152/GN97733	FC16561-5	mg/l	1.5	15	17.4	106.0	90-110%

Associated Samples:
Batch GP40145: FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7
Batch GP40147: FC16561-5, FC16561-8, FC16561-13, FC16561-15
Batch GP40152: FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-13, FC16561-15
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP40145/GN97710	FC16546-1	mg/l	3.6	50	53.4	0.0	15%
Chloride	GP40147/GN97719	FC16561-5	mg/l	2.7	50	50.8	0.0	15%
Nitrogen, Nitrate	GP40145/GN97710	FC16546-1	mg/l	0.43	2.5	2.8	0.0	15%
Nitrogen, Nitrate	GP40147/GN97719	FC16561-5	mg/l	0.061	2.5	2.4	0.0	15%
Nitrogen, Nitrite	GP40145/GN97710	FC16546-1	mg/l	0.040 U	2.5	2.5	0.0	15%
Sulfate	GP40147/GN97719	FC16561-5	mg/l	26.4	50	72.0	0.0	15%
Total Organic Carbon	GP40152/GN97733	FC16561-5	mg/l	1.5	15	17.3	0.6	20%

Associated Samples:
Batch GP40145: FC16561-2, FC16561-3, FC16561-4, FC16561-6, FC16561-7
Batch GP40147: FC16561-5, FC16561-8, FC16561-13, FC16561-15
Batch GP40152: FC16561-2, FC16561-3, FC16561-4, FC16561-5, FC16561-6, FC16561-7, FC16561-8, FC16561-13, FC16561-15
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024061901.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97710
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:40	GN97710-STD1	1		STDA
15:01	GN97710-STD2	1		STDB
15:21	GN97710-STD3	1		STDC
15:42	GN97710-STD4	1		STDD
16:03	GN97710-STD5	1		STDE
16:23	GN97710-STD6	1		STDF
16:44	GN97710-STD7	1		STDG
17:04	GN97710-STD8	1		STDH
17:25	GN97710-STD9	1		STDI
17:45	GN97710-STD10	1		STDJ
18:06	GN97710-STD11	1		STDK
18:27	GN97710-ICV1	1		
18:47	GN97710-ICB1	1		
19:08	GN97710-CRI1	1		
19:28	GN97710-CCV1	1		
19:49	GN97710-CCB1	1		
09:59	GN97710-CCV2	1		
10:24	GP40145-MB1	1		
10:45	GP40145-B1	1		
11:06	ZZZZZZ	5		
11:41	FC16546-1	1		(sample used for QC only; not part of login FC16561)
12:01	GP40145-S1	1		
12:22	GP40145-S2	1		
12:42	ZZZZZZ	10		
13:03	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:44	ZZZZZZ	1		
14:05	GN97710-CCV3	1		
14:25	GN97710-CCB2	1		
14:46	ZZZZZZ	200		
15:06	ZZZZZZ	25		
15:27	ZZZZZZ	25		
15:47	FC16559-3	5		(sample used for QC only; not part of login FC16561)

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024061901.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97710
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:07	GP40145-S3	5		
16:28	GP40145-S4	5		
16:48	ZZZZZZ	10		
17:08	ZZZZZZ	5		
17:29	ZZZZZZ	10		
17:49	ZZZZZZ	1		
18:10	GN97710-CCV4	1		
18:30	GN97710-CCB3	1		
18:51	ZZZZZZ	1		
19:12	FC16561-2	5		
19:32	FC16561-3	10		
19:52	FC16561-4	1		
20:13	FC16561-6	10		
20:33	FC16561-7	10		
00:19	GN97710-CCV5	1		
00:39	GN97710-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024061901.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Run ID: GN97710 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN97710-ICV1	Chloride	52.7	2.0	0.80	50	105.4	90-110
GN97710-ICV1	Nitrogen, Nitrate	2.53	0.10	0.040	2.5	101.2	90-110
GN97710-ICV1	Sulfate	50.4	2.0	0.60	50	100.8	90-110
GN97710-ICB1	Chloride	0.80 U	2.0	0.80			
GN97710-ICB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97710-ICB1	Sulfate	0.60 U	2.0	0.60			
GN97710-CRI1	Chloride	1.07	2.0	0.80	1	107.0	50-150
GN97710-CRI1	Nitrogen, Nitrate	0.121	0.10	0.040	.1	121.0	50-150
GN97710-CRI1	Sulfate	0.773	2.0	0.60	1	77.3	50-150
GN97710-CCV1	Chloride	50.5	2.0	0.80	50	101.0	90-110
GN97710-CCV1	Nitrogen, Nitrate	2.44	0.10	0.040	2.5	97.6	90-110
GN97710-CCV1	Sulfate	50.2	2.0	0.60	50	100.4	90-110
GN97710-CCB1	Chloride	0.80 U	2.0	0.80			
GN97710-CCB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97710-CCB1	Sulfate	0.60 U	2.0	0.60			
GN97710-CCV2	Chloride	50.3	2.0	0.80	50	100.6	90-110
GN97710-CCV2	Nitrogen, Nitrate	2.41	0.10	0.040	2.5	96.4	90-110
GN97710-CCV2	Sulfate	48.9	2.0	0.60	50	97.8	90-110
GN97710-CCV3	Chloride	50.5	2.0	0.80	50	101.0	90-110
GN97710-CCV3	Nitrogen, Nitrate	2.42	0.10	0.040	2.5	96.8	90-110
GN97710-CCV3	Sulfate	48.2	2.0	0.60	50	96.4	90-110
GN97710-CCB2	Chloride	0.80 U	2.0	0.80			
GN97710-CCB2	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97710-CCB2	Sulfate	0.60 U	2.0	0.60			
GN97710-CCV4	Chloride	50.6	2.0	0.80	50	101.2	90-110
GN97710-CCV4	Nitrogen, Nitrate	2.43	0.10	0.040	2.5	97.2	90-110
GN97710-CCV4	Sulfate	48.5	2.0	0.60	50	97.0	90-110
GN97710-CCB3	Chloride	0.80 U	2.0	0.80			
GN97710-CCB3	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97710-CCB3	Sulfate	0.60 U	2.0	0.60			
GN97710-CCV5	Chloride	50.8	2.0	0.80	50	101.6	90-110
GN97710-CCV5	Nitrogen, Nitrate	2.44	0.10	0.040	2.5	97.6	90-110
GN97710-CCV5	Sulfate	48.6	2.0	0.60	50	97.2	90-110
GN97710-CCB4	Chloride	0.80 U	2.0	0.80			
GN97710-CCB4	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97710-CCB4	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062001.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97719
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:40	GN97719-STD1	1		STDA
15:01	GN97719-STD2	1		STDB
15:21	GN97719-STD3	1		STDC
15:42	GN97719-STD4	1		STDD
16:03	GN97719-STD5	1		STDE
16:23	GN97719-STD6	1		STDF
16:44	GN97719-STD7	1		STDG
17:04	GN97719-STD8	1		STDH
17:25	GN97719-STD9	1		STDI
17:45	GN97719-STD10	1		STDJ
18:06	GN97719-STD11	1		STDK
18:27	GN97719-ICV1	1		
18:47	GN97719-ICB1	1		
19:08	GN97719-CRI1	1		
19:28	GN97719-CCV1	1		
19:49	GN97719-CCB1	1		
10:07	GN97719-CCV2	1		
10:32	GP40147-MB1	1		
10:53	GP40147-B1	1		
11:13	FC16561-13	1		
11:34	FC16561-15	5		
13:14	FC16561-8	10		
13:41	FC16561-5	1		
14:01	GP40147-S1	1		
14:22	GP40147-S2	1		
14:43	ZZZZZZ	100		
15:03	ZZZZZZ	100		
15:23	GN97719-CCV3	1		
15:44	GN97719-CCB2	1		
16:05	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:46	ZZZZZZ	1		
17:06	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062001.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97719
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:31	GN97719-CCV4	1		
19:51	GN97719-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062001.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Run ID: GN97719 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN97719-ICV1	Chloride	52.7	2.0	0.80	50	105.4	90-110
GN97719-ICV1	Nitrogen, Nitrate	2.53	0.10	0.040	2.5	101.2	90-110
GN97719-ICV1	Sulfate	50.4	2.0	0.60	50	100.8	90-110
GN97719-ICB1	Chloride	0.80 U	2.0	0.80			
GN97719-ICB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97719-ICB1	Sulfate	0.60 U	2.0	0.60			
GN97719-CRI1	Chloride	1.07	2.0	0.80	1	107.0	50-150
GN97719-CRI1	Nitrogen, Nitrate	0.121	0.10	0.040	.1	121.0	50-150
GN97719-CRI1	Sulfate	0.776	2.0	0.60	1	77.6	50-150
GN97719-CCV1	Chloride	50.4	2.0	0.80	50	100.8	90-110
GN97719-CCV1	Nitrogen, Nitrate	2.44	0.10	0.040	2.5	97.6	90-110
GN97719-CCV1	Sulfate	50.3	2.0	0.60	50	100.6	90-110
GN97719-CCB1	Chloride	0.80 U	2.0	0.80			
GN97719-CCB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97719-CCB1	Sulfate	0.60 U	2.0	0.60			
GN97719-CCV2	Chloride	50.2	2.0	0.80	50	100.4	90-110
GN97719-CCV2	Nitrogen, Nitrate	2.43	0.10	0.040	2.5	97.2	90-110
GN97719-CCV2	Sulfate	49.0	2.0	0.60	50	98.0	90-110
GN97719-CCV3	Chloride	50.5	2.0	0.80	50	101.0	90-110
GN97719-CCV3	Nitrogen, Nitrate	2.45	0.10	0.040	2.5	98.0	90-110
GN97719-CCV3	Sulfate	48.6	2.0	0.60	50	97.2	90-110
GN97719-CCB2	Chloride	0.80 U	2.0	0.80			
GN97719-CCB2	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97719-CCB2	Sulfate	0.60 U	2.0	0.60			
GN97719-CCV4	Chloride	51.0	2.0	0.80	50	102.0	90-110
GN97719-CCV4	Nitrogen, Nitrate	2.41	0.10	0.040	2.5	96.4	90-110
GN97719-CCV4	Sulfate	0.60 U	2.0	0.60	50	0.0!(a)	90-110
GN97719-CCB3	Chloride	0.80 U	2.0	0.80			
GN97719-CCB3	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97719-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits
(a) No samples for SO4 reported in the area bracketed by this CCV.

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240621W1.TXT Date Analyzed: 06/21/24 Methods: SM5310 B-14/SW9060A
Analyst: FN Run ID: GN97733
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:11	GN97733-CCV1	1		
22:34	GP40151-MB1	1		
22:54	GP40151-B1	1		
23:18	ZZZZZZ	1		
23:41	FC16494-15	1		(sample used for QC only; not part of login FC16561)
00:02	GP40151-S1	1		
00:23	GP40151-S2	1		
01:21	ZZZZZZ	1		
02:53	GN97733-CCV2	1		
03:17	GN97733-CCB1	1		
03:37	ZZZZZZ	1		
03:59	ZZZZZZ	1		
04:19	ZZZZZZ	1		
04:41	ZZZZZZ	1		
05:01	ZZZZZZ	1		
05:23	ZZZZZZ	1		
05:42	ZZZZZZ	1		
06:04	ZZZZZZ	1		
06:24	ZZZZZZ	1		
06:45	ZZZZZZ	1		
07:10	GN97733-CCV3	1		
07:33	GN97733-CCB2	1		
07:53	FC16589-2	1		(sample used for QC only; not part of login FC16561)
08:15	GP40151-S3	1		
08:37	GP40151-S4	1		
09:02	ZZZZZZ	1		
09:23	ZZZZZZ	1		
09:45	ZZZZZZ	1		
10:09	ZZZZZZ	1		
10:32	ZZZZZZ	1		
12:07	GN97733-CCV4	1		
12:31	GP40152-MB1	1		
12:51	GP40152-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240621W1.TXT Date Analyzed: 06/21/24 Methods: SM5310 B-14/SW9060A
Analyst: FN Run ID: GN97733
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:13	FC16559-3	1		(sample used for QC only; not part of login FC16561)
13:39	GP40152-S1	1		
14:01	GP40152-S2	1		
14:59	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:39	FC16561-2	1		
17:00	GN97733-CCV5	1		
17:21	GN97733-CCB3	1		
17:43	FC16561-3	1		
18:06	FC16561-4	1		
18:29	FC16561-5	1		
18:49	GP40152-S3	1		
19:12	GP40152-S4	1		
19:59	FC16561-7	1		
20:45	FC16561-13	1		
21:08	FC16561-15	1		
21:32	GN97733-CCV6	1		
21:53	GN97733-CCB4	1		
09:41	GN97733-CCV7	1		
10:03	GN97733-CCB5	1		
10:51	ZZZZZZ	5		
11:14	ZZZZZZ	40		
11:41	ZZZZZZ	4		
12:05	ZZZZZZ	10		
12:31	ZZZZZZ	10		
12:54	ZZZZZZ	5		
13:18	ZZZZZZ	4		
13:44	FC16561-6	2		
14:07	FC16561-8	2		
11:17	GN97733-CCV8	1		
11:41	GN97733-CCB6	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC16561
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240621W1.TXT Date Analyzed: 06/21/24 Methods: SM5310 B-14/SW9060A
Run ID: GN97733 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN97733-CCV1	Total Organic Carbon	14.6	2.0	0.54	15	97.3	90-110
GN97733-CCV2	Total Organic Carbon	14.8	2.0	0.54	15	98.7	90-110
GN97733-CCB1	Total Organic Carbon	0.54 U	2.0	0.54			
GN97733-CCV3	Total Organic Carbon	14.6	2.0	0.54	15	97.3	90-110
GN97733-CCB2	Total Organic Carbon	0.54 U	2.0	0.54			
GN97733-CCV4	Total Organic Carbon	15.2	2.0	0.54	15	101.3	90-110
GN97733-CCV5	Total Organic Carbon	15.0	2.0	0.54	15	100.0	90-110
GN97733-CCB3	Total Organic Carbon	0.54 U	2.0	0.54			
GN97733-CCV6	Total Organic Carbon	14.8	2.0	0.54	15	98.7	90-110
GN97733-CCB4	Total Organic Carbon	0.54 U	2.0	0.54			
GN97733-CCV7	Total Organic Carbon	15.1	2.0	0.54	15	100.7	90-110
GN97733-CCB5	Total Organic Carbon	0.54 U	2.0	0.54			
GN97733-CCV8	Total Organic Carbon	14.3	2.0	0.54	15	95.3	90-110
GN97733-CCB6	Total Organic Carbon	0.54 U	2.0	0.54			

(!) Outside of QC limits

General Chemistry

Raw Data

MagIC Net

2024-06-20 10:57:09

Sample data

Ident	STDK
Sample type	Standard 10
Determination start	2024-05-20 18:06:34 UTC-4
Method	SGS In-Vial Anions191003A
Operator	JR

Anions

Data source	Conductivity detector 1 (930 Compact IC Flex 1)	
Channel	Conductivity	
Recording time	16.0	min
Integration	Automatically	
Column type	Metrosep A Supp 5 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	7.76	MPa
Maximum pressure monitored	yes	
Temperature	30.0	°C

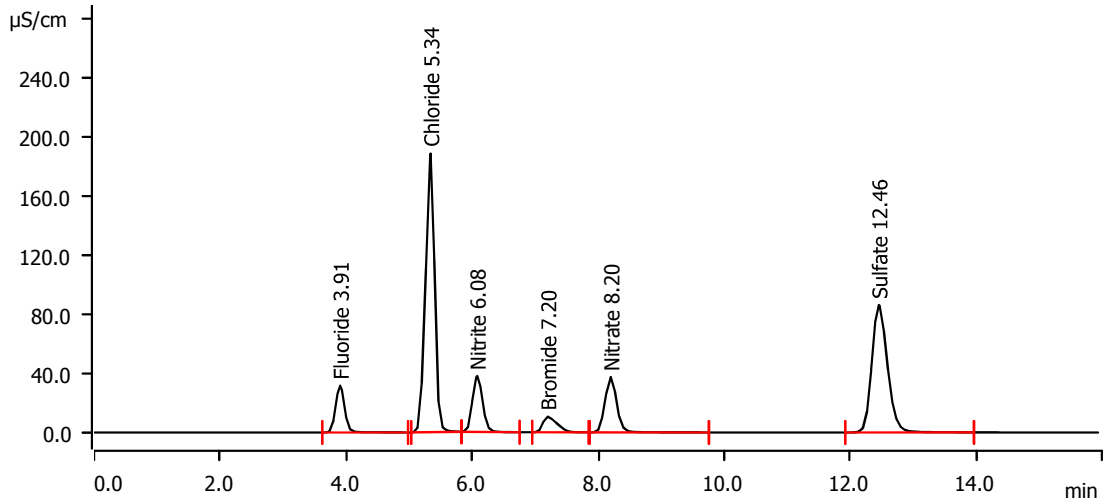
Pressure

Data source	Pump (930 Compact IC Flex 1)	
Channel	System pressure	
Recording time	17.5	min
Integration	Automatically	
Flow	-----	mL/min
Maximum flow monitored	no	
Pressure	-----	MPa
Maximum pressure monitored	no	
Temperature	-----	℃

MagIC Net

2024-06-20 10:57:09

Anions

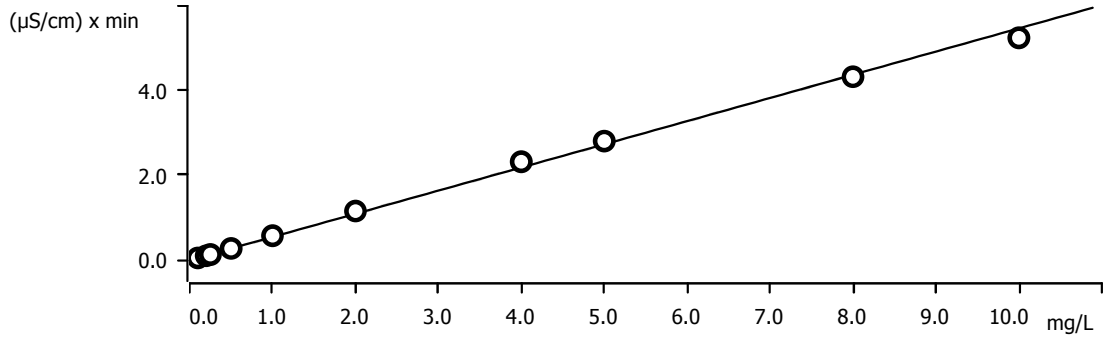


Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration mg/L	Component name
1	3.907	5.2427	31.608	9.593	Fluoride
2	5.343	31.7334	188.476	99.214	Chloride
3	6.082	7.0802	37.789	9.763	Nitrite
4	7.202	2.7680	10.586	20.446	Bromide
5	8.203	8.0532	37.438	10.061	Nitrate
6	12.455	24.7507	86.201	98.149	Sulfate

MagIC Net

2024-06-20 10:57:09

Fluoride (Anions)



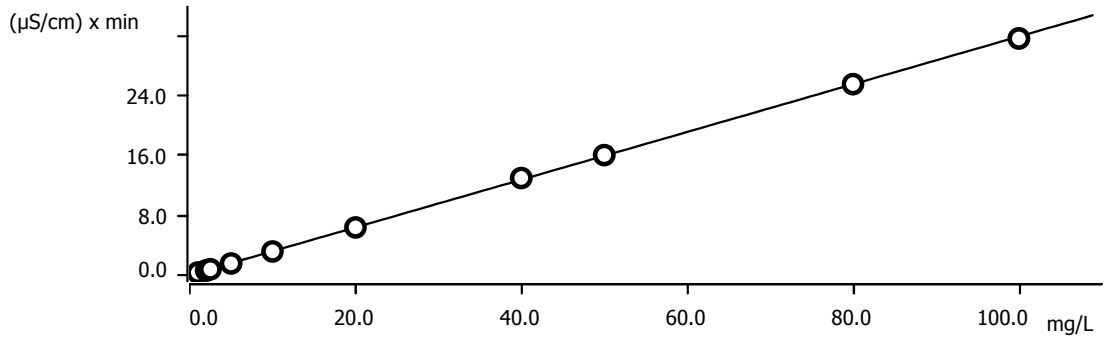
Function: . . . . . *A = - 6.43309E-3 + 0.0273591× Q*

Relative standard deviation . . . . . *5.926857 %*

Correlation coefficient *0.998755*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0457	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.0971	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1260	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.2701	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.5711	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.1532	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.3170	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	2.8043	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	4.3242	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	5.2427	STDK	2024-05-20 18:06:34 UTC-4

Chloride (Anions)



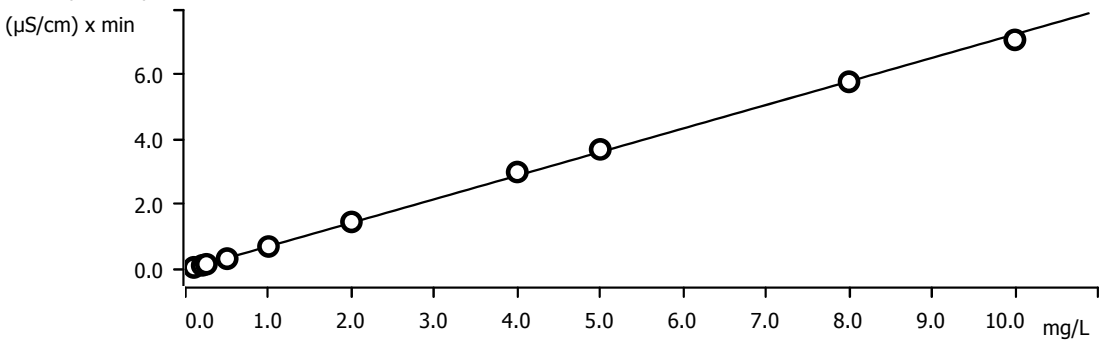
Function: . . . . . *A = - 0.0835196 + 0.0160345× Q*

Relative standard deviation . . . . . *1.273519 %*

Correlation coefficient *0.999946*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2539	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5420	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.7046	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.4822	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	3.1027	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	20.000	20.0	1.0	1.0	6.3213	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	12.9662	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	16.0545	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	25.5876	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	31.7334	STDK	2024-05-20 18:06:34 UTC-4

Nitrite (Anions)



Function: . . . . . *A = - 0.0237234 + 0.0363814× Q*

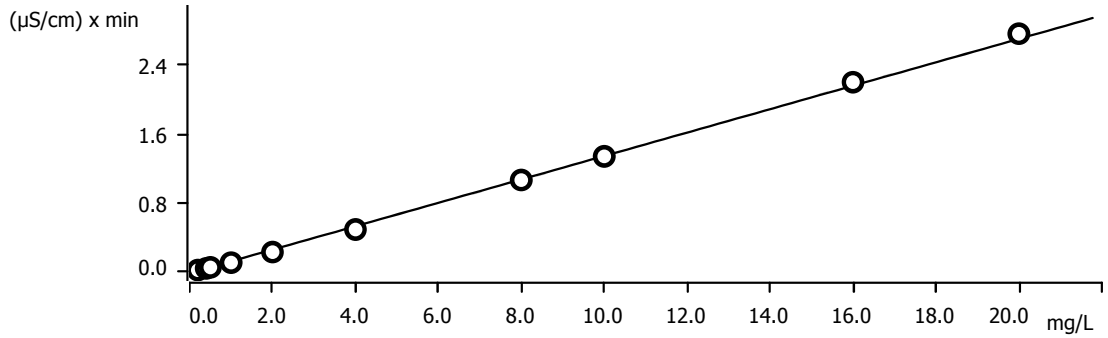
Relative standard deviation . . . . . *3.557326 %*

Correlation coefficient *0.999571*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0548	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1154	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3233	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7001	STDF	2024-05-20 16:23:35 UTC-4

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	2.000	20.0	1.0	1.0	1.4597	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.9983	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.6991	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	5.7865	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	7.0802	STDK	2024-05-20 18:06:34 UTC-4

Bromide (Anions)



Function: . . . . . *A = - 0.0148506 + 6.80534E-3× Q*

Relative standard deviation . . . . . *3.810724 %*

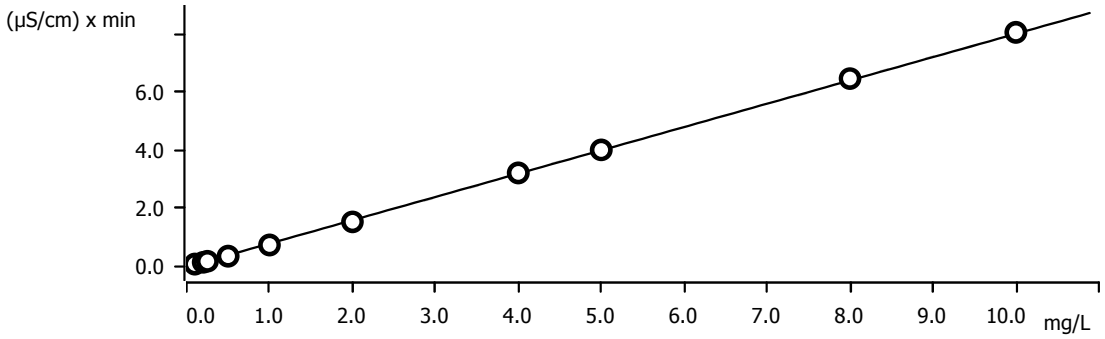
Correlation coefficient *0.999546*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.200	20.0	1.0	1.0	0.0192	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.400	20.0	1.0	1.0	0.0395	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.0512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.1063	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	2.000	20.0	1.0	1.0	0.2292	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	4.000	20.0	1.0	1.0	0.4910	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	8.000	20.0	1.0	1.0	1.0665	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	1.3418	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	16.000	20.0	1.0	1.0	2.2044	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	20.000	20.0	1.0	1.0	2.7680	STDK	2024-05-20 18:06:34 UTC-4

MagIC Net

2024-06-20 10:57:09

Nitrate (Anions)



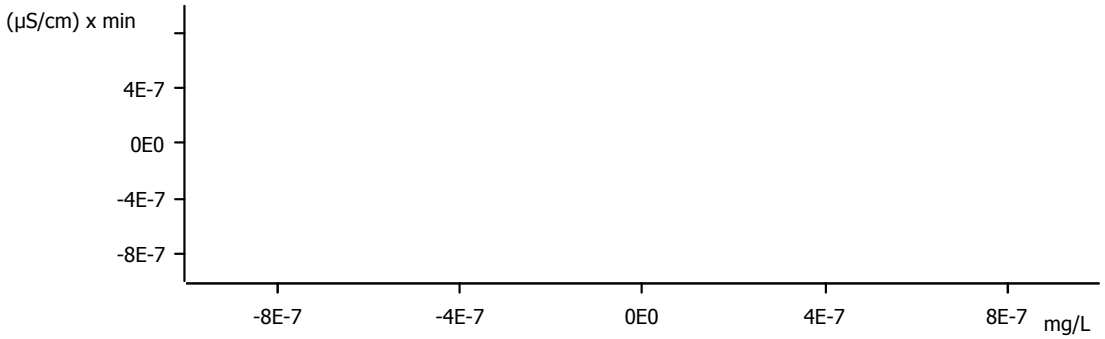
Function . . . . . *A = - 0.0389899 + 0.0402143× Q*

Relative standard deviation . . . . . *1.750039 %*

Correlation coefficient *0.999902*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0568	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1184	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1542	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3277	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7141	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.5133	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	3.2038	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.9974	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	6.4597	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	8.0532	STDK	2024-05-20 18:06:34 UTC-4

Phosphate (Anions)



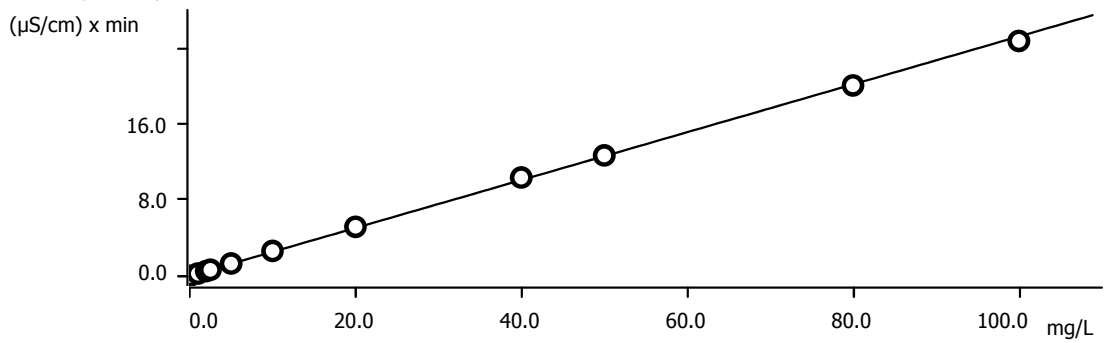
Function: . . . . . .

Relative standard deviation . . . . . *invalid %*

Correlation coefficient . . . . . *invalid*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.000	20.0	1.0	1.0	n. d.	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.000	20.0	1.0	1.0	n. d.	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.000	20.0	1.0	1.0	n. d.	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	0.000	20.0	1.0	1.0	n. d.	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	0.000	20.0	1.0	1.0	n. d.	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	0.000	20.0	1.0	1.0	n. d.	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	0.000	20.0	1.0	1.0	n. d.	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	0.000	20.0	1.0	1.0	n. d.	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	0.000	20.0	1.0	1.0	n. d.	STDK	2024-05-20 18:06:34 UTC-4

Sulfate (Anions)



Function: . . . . . *A = 1.16317E-3 + 0.0126081× Q*

Relative standard deviation . . . . . *2.720458 %*

Correlation coefficient *0.999778*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	0.0011	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2380	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5022	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.6367	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.3052	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	2.6269	STDF	2024-05-20 16:23:35 UTC-4

MagIC Net

2024-06-20 10:57:09

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	20.000	20.0	1.0	1.0	5.1680	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	10.3573	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	12.6883	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	20.0613	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	24.7507	STDK	2024-05-20 18:06:34 UTC-4

MagIC Net

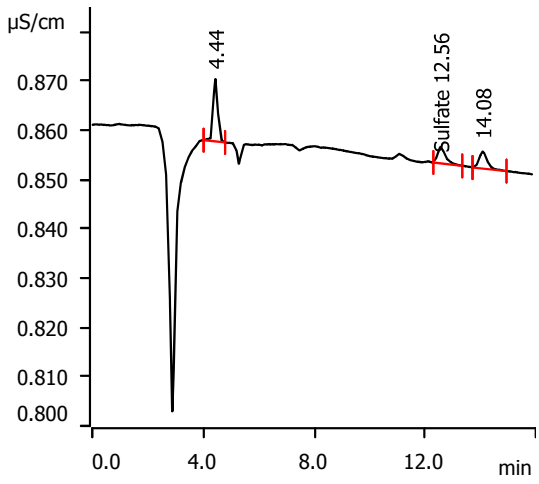
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDA
Sample type . . . . . Standard 100
Determination start 2024-05-20 14:40:36
Dilution factor 1.00

Anions

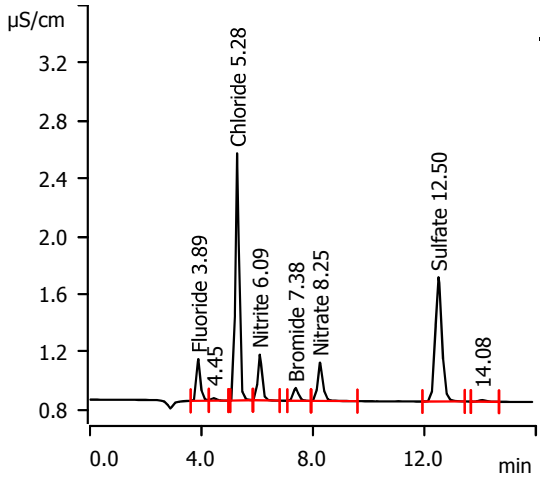


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.56	Sulfate	0.0011	0.000	0.000

Sample data

Ident . . . . . STDB
Sample type . . . . . Standard 1
Determination start 2024-05-20 15:01:11
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0457	0.095	0.095
5.28	Chloride	0.2539	1.052	1.052
6.09	Nitrite	0.0548	0.108	0.108
7.38	Bromide	0.0192	0.250	0.250
8.25	Nitrate	0.0568	0.119	0.119
12.50	Sulfate	0.2380	0.939	0.939

MagIC Net

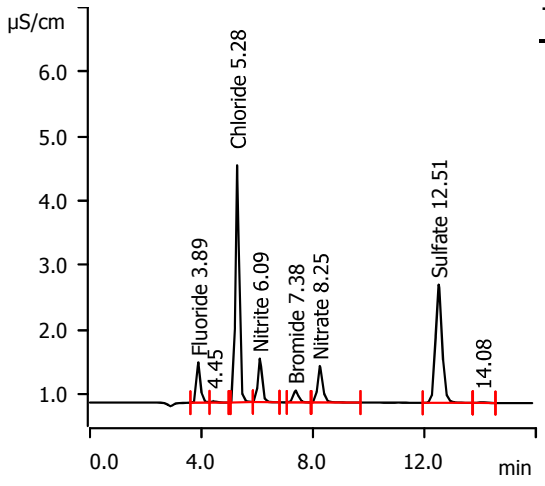
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDC
Sample type . . . . . Standard 2
Determination start 2024-05-20 15:21:48
Dilution factor 1.00

Anions

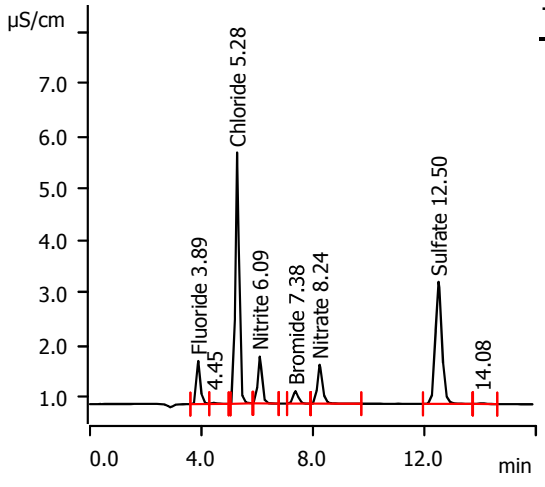


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0971	0.189	0.189
5.28	Chloride	0.5420	1.951	1.951
6.09	Nitrite	0.1154	0.191	0.191
7.38	Bromide	0.0395	0.399	0.399
8.25	Nitrate	0.1184	0.196	0.196
12.51	Sulfate	0.5022	1.987	1.987

Sample data

Ident . . . . . STDD
Sample type . . . . . Standard 3
Determination start 2024-05-20 15:42:25
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.1260	0.242	0.242
5.28	Chloride	0.7046	2.458	2.458
6.09	Nitrite	0.1512	0.240	0.240
7.38	Bromide	0.0512	0.485	0.485
8.24	Nitrate	0.1542	0.240	0.240
12.50	Sulfate	0.6367	2.520	2.520

MagIC Net

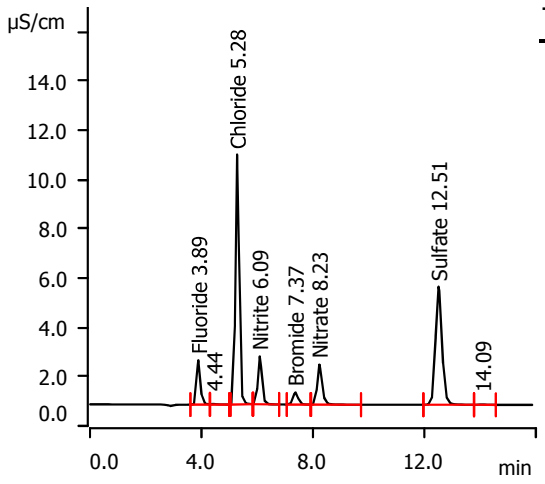
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDE
Sample type . . . . . Standard 4
Determination start 2024-05-20 16:03:00
Dilution factor 1.00

Anions

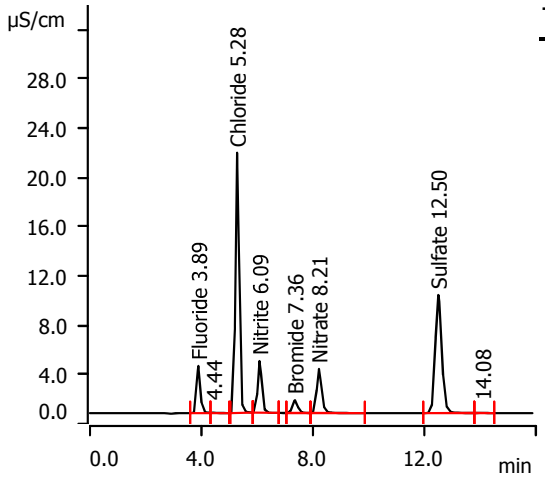


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.2701	0.505	0.505
5.28	Chloride	1.4822	4.882	4.882
6.09	Nitrite	0.3233	0.477	0.477
7.37	Bromide	0.1063	0.890	0.890
8.23	Nitrate	0.3277	0.456	0.456
12.51	Sulfate	1.3052	5.171	5.171

Sample data

Ident . . . . . STDF
Sample type . . . . . Standard 5
Determination start 2024-05-20 16:23:35
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.5711	1.055	1.055
5.28	Chloride	3.1027	9.935	9.935
6.09	Nitrite	0.7001	0.995	0.995
7.36	Bromide	0.2292	1.793	1.793
8.21	Nitrate	0.7141	0.936	0.936
12.50	Sulfate	2.6269	10.413	10.413

MagIC Net

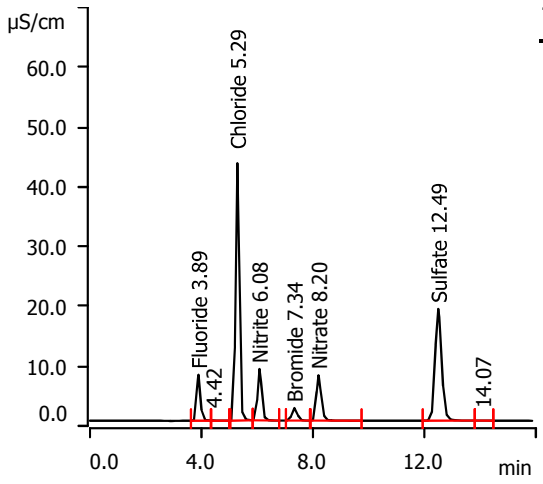
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDG
Sample type . . . . . Standard 6
Determination start 2024-05-20 16:44:11
Dilution factor 1.00

Anions

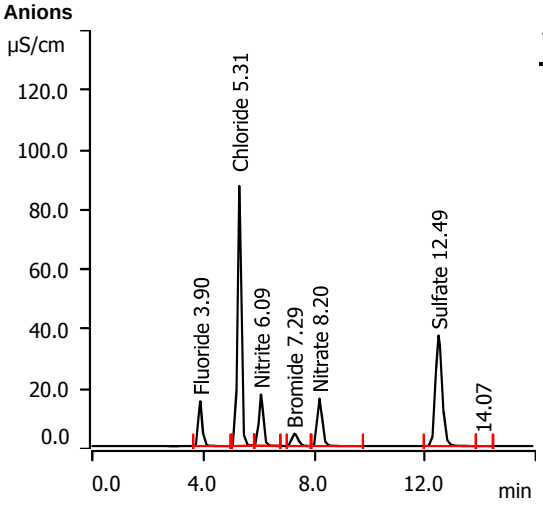


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.1532	2.119	2.119
5.29	Chloride	6.3213	19.972	19.972
6.08	Nitrite	1.4597	2.039	2.039
7.34	Bromide	0.4910	3.717	3.717
8.20	Nitrate	1.5133	1.930	1.930
12.49	Sulfate	5.1680	20.490	20.490

Sample data

Ident . . . . . STDH
Sample type . . . . . Standard 7
Determination start 2024-05-20 17:04:46
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.3170	4.246	4.246
5.31	Chloride	12.9662	40.693	40.693
6.09	Nitrite	2.9983	4.153	4.153
7.29	Bromide	1.0665	7.945	7.945
8.20	Nitrate	3.2038	4.032	4.032
12.49	Sulfate	10.3573	41.069	41.069

MagIC Net

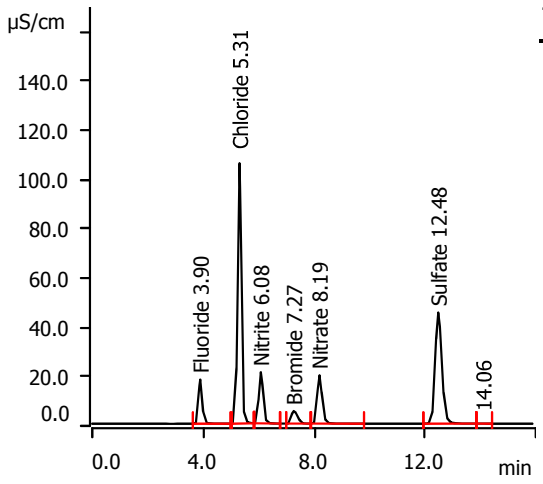
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDI
Sample type . . . . . Standard 8
Determination start 2024-05-20 17:25:23
Dilution factor 1.00

Anions

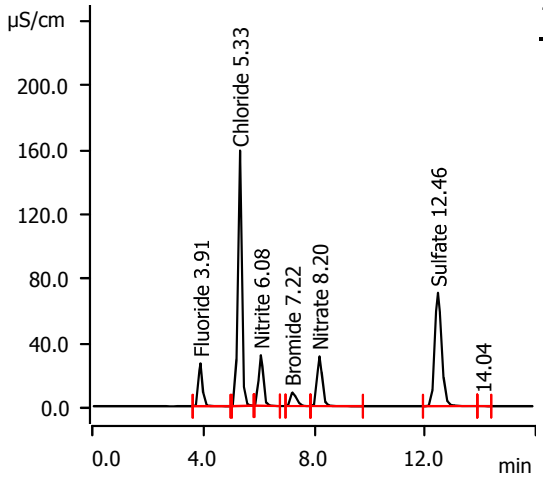


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.8043	5.137	5.137
5.31	Chloride	16.0545	50.323	50.323
6.08	Nitrite	3.6991	5.116	5.116
7.27	Bromide	1.3418	9.968	9.968
8.19	Nitrate	3.9974	5.019	5.019
12.48	Sulfate	12.6883	50.313	50.313

Sample data

Ident . . . . . STDJ
Sample type . . . . . Standard 9
Determination start 2024-05-20 17:45:59
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	4.3242	7.914	7.914
5.33	Chloride	25.5876	80.050	80.050
6.08	Nitrite	5.7865	7.985	7.985
7.22	Bromide	2.2044	16.305	16.305
8.20	Nitrate	6.4597	8.080	8.080
12.46	Sulfate	20.0613	79.552	79.552

MagIC Net

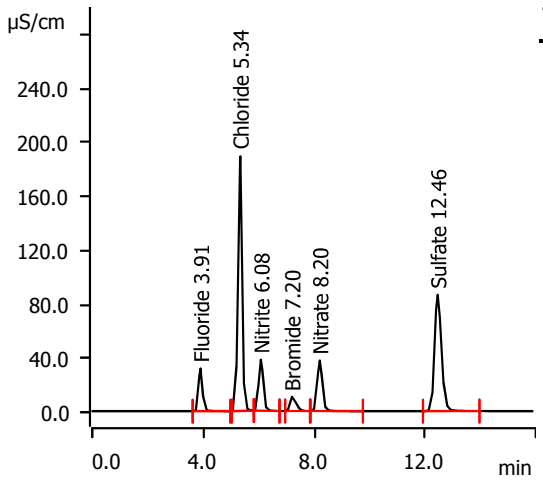
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDK
Sample type . . . . . Standard 10
Determination start 2024-05-20 18:06:34
Dilution factor 1.00

Anions

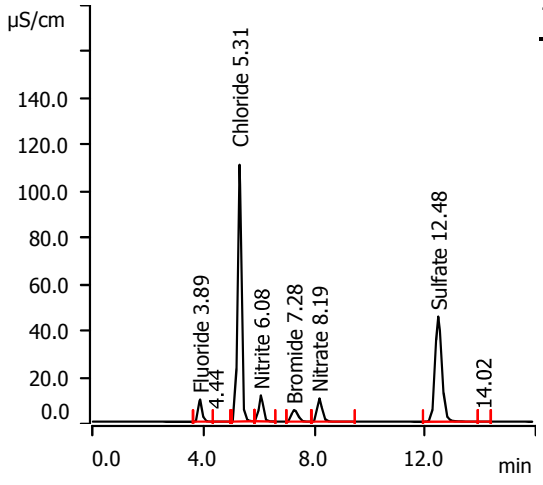


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	5.2427	9.593	9.593
5.34	Chloride	31.7334	99.214	99.214
6.08	Nitrite	7.0802	9.763	9.763
7.20	Bromide	2.7680	20.446	20.446
8.20	Nitrate	8.0532	10.061	10.061
12.46	Sulfate	24.7507	98.149	98.149

Sample data

Ident ICV
Sample type . . . . . Sample
Determination start 2024-05-20 18:27:10
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4340	2.633	2.633
5.31	Chloride	16.8274	52.733	52.733
6.08	Nitrite	1.8982	2.641	2.641
7.28	Bromide	1.3481	10.014	10.014
8.19	Nitrate	1.9977	2.532	2.532
12.48	Sulfate	12.7024	50.369	50.369

MagIC Net

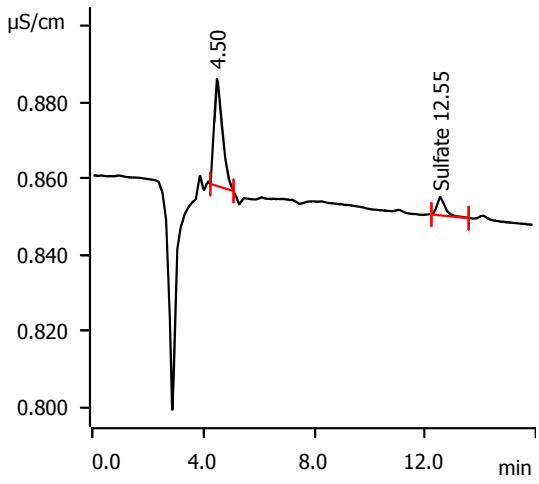
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . ICB
Sample type . . . . . Sample
Determination start 2024-05-20 18:47:46
Dilution factor 1.00

Anions

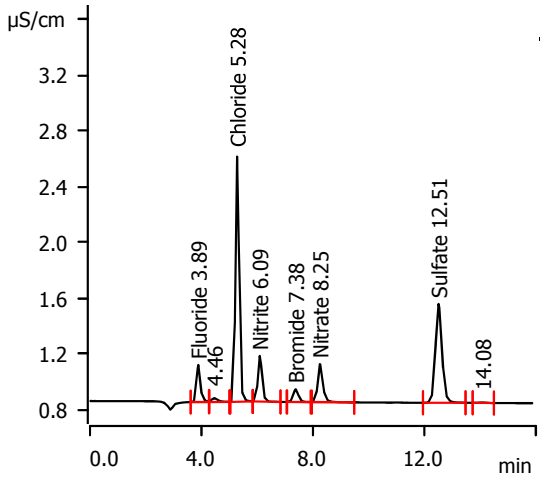


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.55	Sulfate	0.0016	0.002	0.002

Sample data

Ident . . . . . CRI
Sample type . . . . . Sample
Determination start 2024-05-20 19:08:20
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0422	0.089	0.089
5.28	Chloride	0.2606	1.073	1.073
6.09	Nitrite	0.0566	0.110	0.110
7.38	Bromide	0.0196	0.253	0.253
8.25	Nitrate	0.0582	0.121	0.121
12.51	Sulfate	0.1961	0.773	0.773

MagIC Net

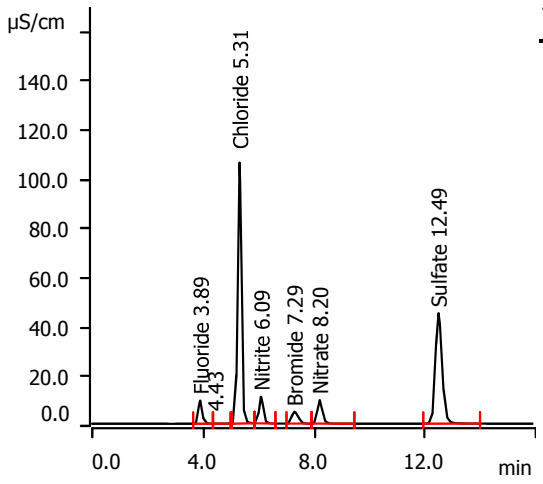
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-05-20 19:28:55
Dilution factor 1.00

Anions

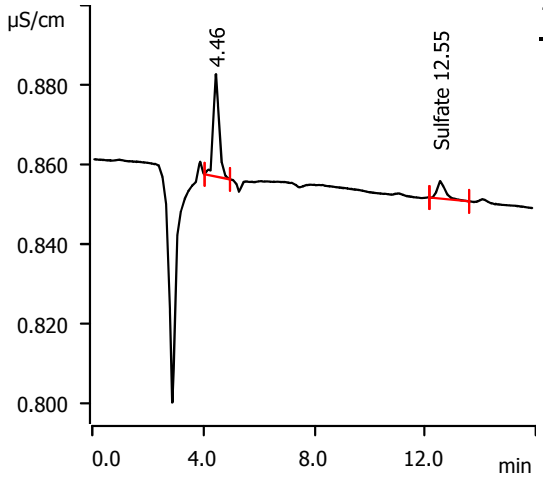


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4431	2.649	2.649
5.31	Chloride	16.1138	50.508	50.508
6.09	Nitrite	1.8409	2.563	2.563
7.29	Bromide	1.3338	9.909	9.909
8.20	Nitrate	1.9192	2.435	2.435
12.49	Sulfate	12.6721	50.249	50.249

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-05-20 19:49:38
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.55	Sulfate	0.0015	0.001	0.001

MagIC Net

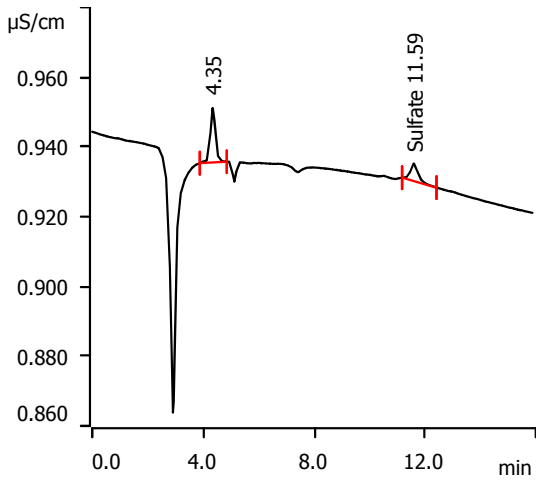
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident . . . . . Rinse
Sample type . . . . . Sample
Determination start 2024-06-19 09:34:10
Dilution factor 1.00

Anions

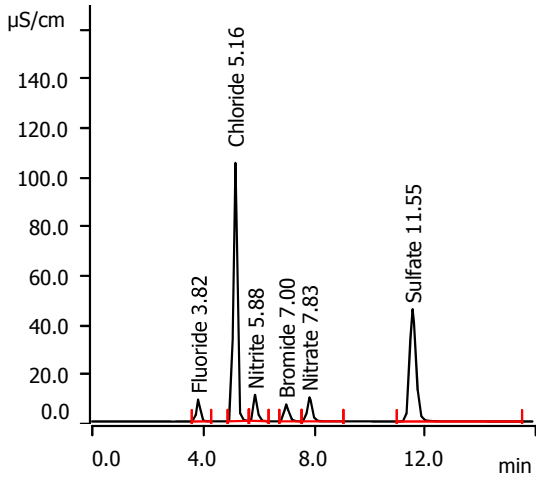


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.59	Sulfate	0.0017	0.002	0.002

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-19 09:59:32
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.3350	2.452	2.452
5.16	Chloride	16.0543	50.322	50.322
5.88	Nitrite	1.7815	2.481	2.481
7.00	Bromide	1.3206	9.812	9.812
7.83	Nitrate	1.8970	2.407	2.407
11.55	Sulfate	12.3195	48.851	48.851

MagIC Net

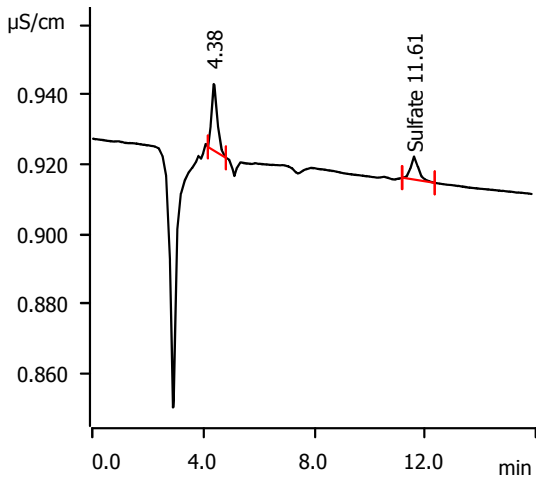
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-06-19 10:24:57
Dilution factor 1.00

Anions

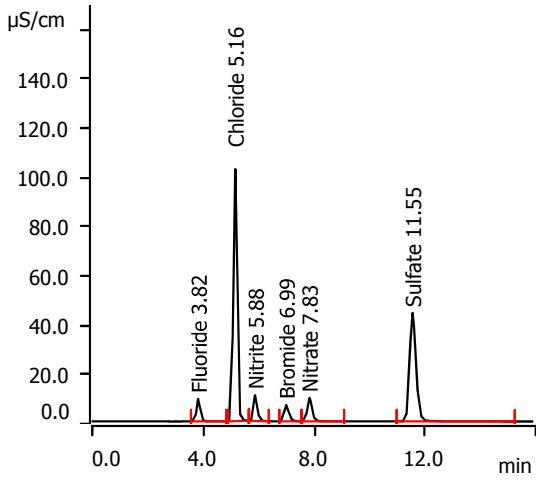


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.61	Sulfate	0.0022	0.004	0.004

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-06-19 10:45:35
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.4039	2.577	2.577
5.16	Chloride	15.5538	48.762	48.762
5.88	Nitrite	1.7522	2.441	2.441
6.99	Bromide	1.2649	9.402	9.402
7.83	Nitrate	1.8520	2.351	2.351
11.55	Sulfate	11.9080	47.219	47.219

MagIC Net

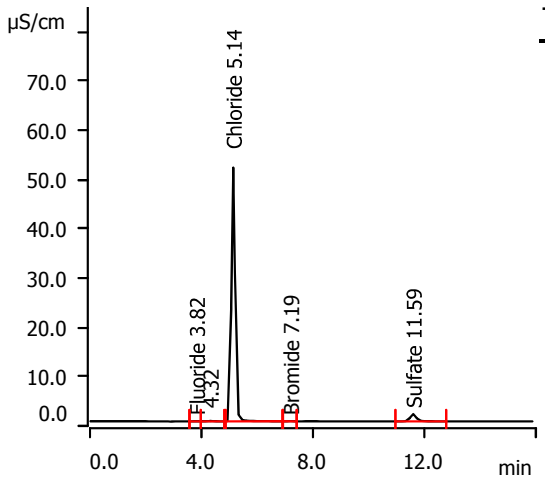
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16535-1
Sample type . . . . . Sample
Determination start 2024-06-19 11:06:10
Dilution factor 5.00

Anions

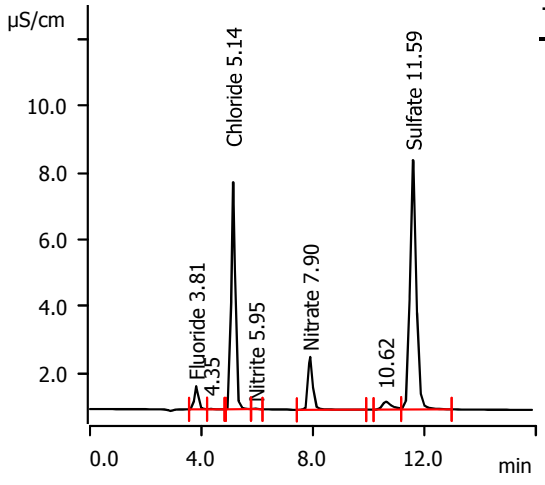


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0033	0.018	0.089
5.14	Chloride	7.8365	24.697	123.485
7.19	Bromide	0.0055	0.150	0.748
11.59	Sulfate	0.3862	1.527	7.635

Sample data

Ident FC16546-1
Sample type . . . . . Sample
Determination start 2024-06-19 11:41:04
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.1087	0.210	0.210
5.14	Chloride	1.0805	3.630	3.630
5.95	Nitrite	0.0028	0.036	0.036
7.90	Nitrate	0.3087	0.432	0.432
11.59	Sulfate	1.9508	7.732	7.732

MagIC Net

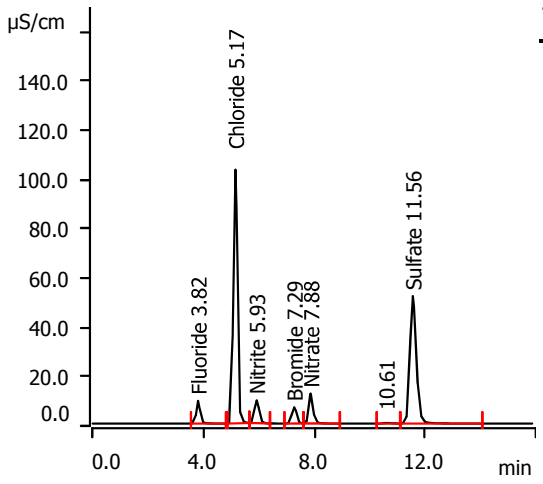
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16546-1S1
Sample type . . . . . Sample
Determination start 2024-06-19 12:01:40
Dilution factor 1.00

Anions

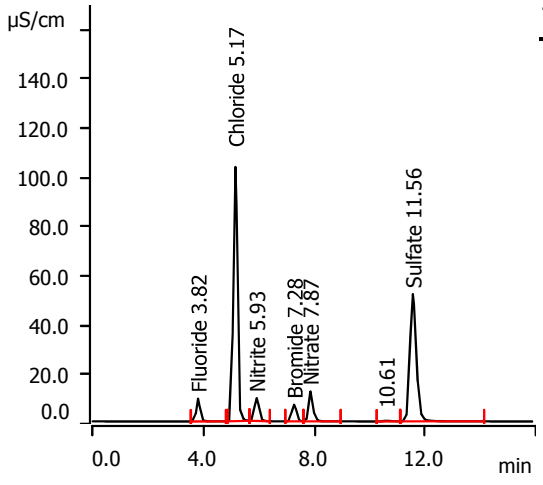


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.4583	2.677	2.677
5.17	Chloride	17.0346	53.379	53.379
5.93	Nitrite	1.7871	2.489	2.489
7.29	Bromide	1.2885	9.576	9.576
7.88	Nitrate	2.2379	2.831	2.831
11.56	Sulfate	13.9411	55.281	55.281

Sample data

Ident FC16546-1S2
Sample type . . . . . Sample
Determination start 2024-06-19 12:22:17
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.4592	2.679	2.679
5.17	Chloride	17.0332	53.375	53.375
5.93	Nitrite	1.7872	2.489	2.489
7.28	Bromide	1.2917	9.599	9.599
7.87	Nitrate	2.2393	2.833	2.833
11.56	Sulfate	13.9398	55.277	55.277

MagIC Net

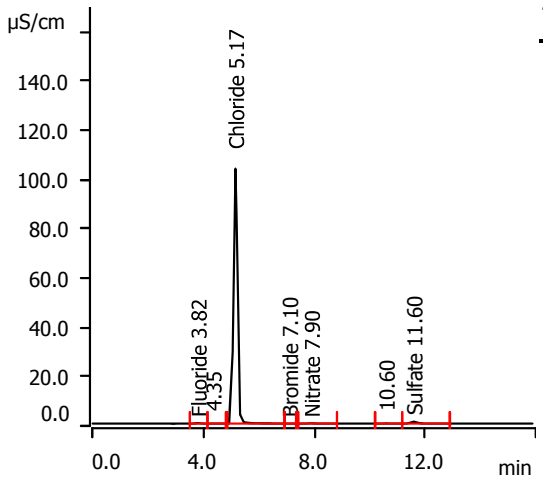
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16546-2
Sample type . . . . . Sample
Determination start 2024-06-19 12:42:51
Dilution factor 10.00

Anions

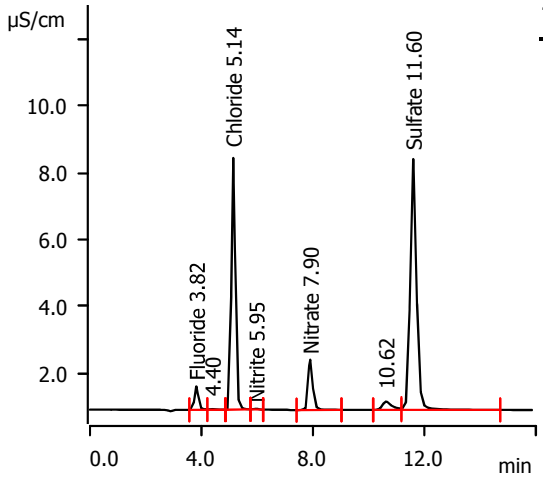


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0323	0.071	0.709
5.17	Chloride	15.8977	49.834	498.339
7.10	Bromide	0.0019	0.123	1.228
7.90	Nitrate	0.0220	0.076	0.758
11.60	Sulfate	0.2143	0.845	8.451

Sample data

Ident FC16546-3
Sample type . . . . . Sample
Determination start 2024-06-19 13:03:13
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.1102	0.213	0.213
5.14	Chloride	1.1976	3.995	3.995
5.95	Nitrite	0.0040	0.038	0.038
7.90	Nitrate	0.2891	0.408	0.408
11.60	Sulfate	1.9810	7.852	7.852

MagIC Net

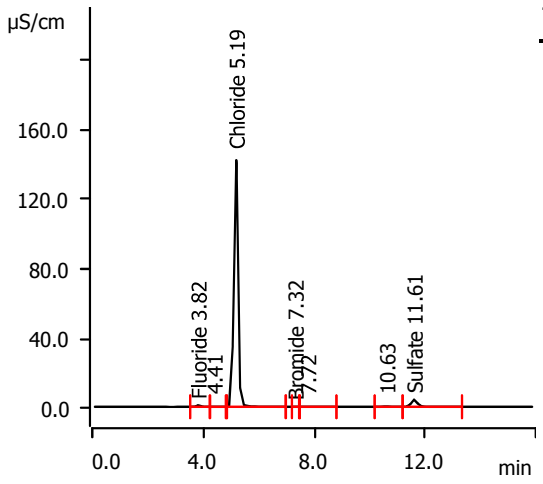
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16546-4
Sample type . . . . . Sample
Determination start 2024-06-19 13:23:51
Dilution factor 1.00

Anions

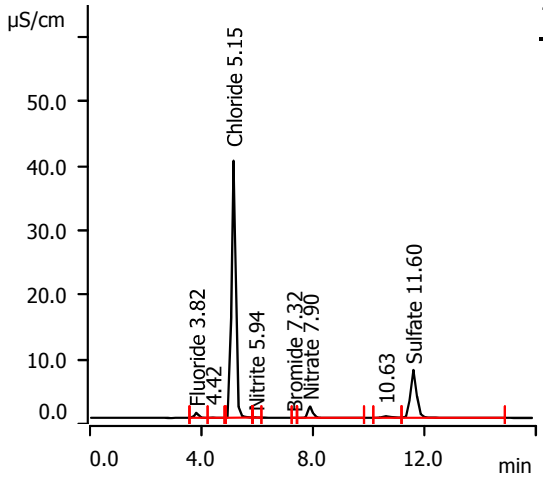


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.1470	0.280	0.280
5.19	Chloride	24.1793	75.658	75.658
7.32	Bromide	0.0018	0.122	0.122
11.61	Sulfate	1.0862	4.303	4.303

Sample data

Ident FC16546-5
Sample type . . . . . Sample
Determination start 2024-06-19 13:44:26
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.1221	0.235	0.235
5.15	Chloride	6.4093	20.246	20.246
5.94	Nitrite	0.0026	0.036	0.036
7.32	Bromide	0.0004	0.112	0.112
7.90	Nitrate	0.3379	0.469	0.469
11.60	Sulfate	1.9650	7.788	7.788

MagIC Net

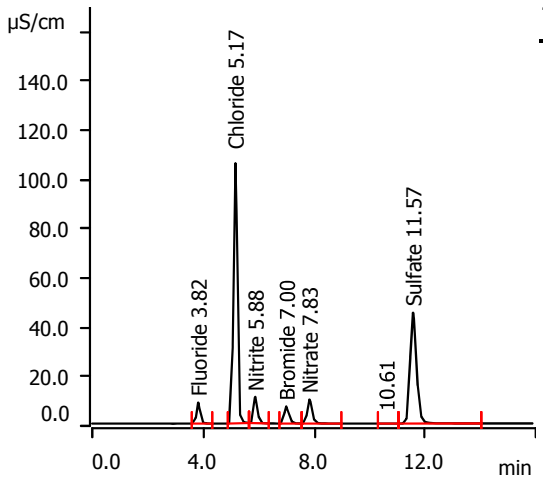
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-19 14:05:03
Dilution factor 1.00

Anions

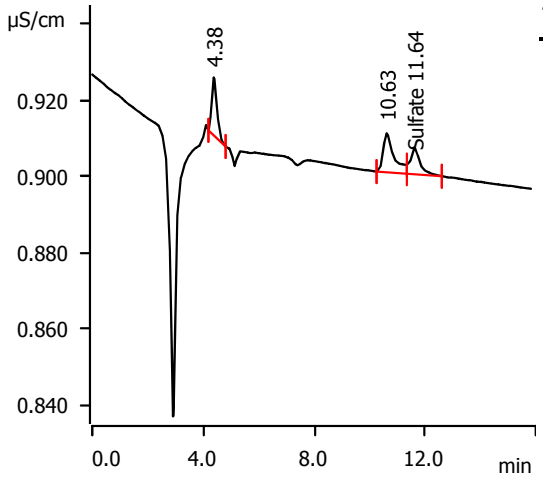


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.2638	2.321	2.321
5.17	Chloride	16.1073	50.488	50.488
5.88	Nitrite	1.7879	2.490	2.490
7.00	Bromide	1.3285	9.870	9.870
7.83	Nitrate	1.9074	2.420	2.420
11.57	Sulfate	12.1636	48.232	48.232

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-19 14:25:45
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.64	Sulfate	0.0028	0.007	0.007

MagIC Net

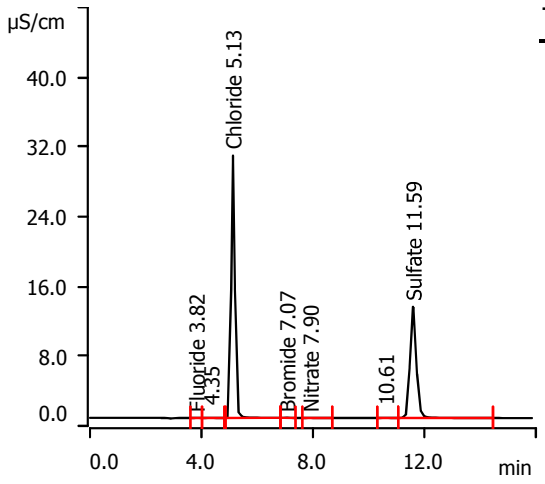
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16547-1
Sample type . . . . . Sample
Determination start 2024-06-19 14:46:21
Dilution factor 200.00

Anions

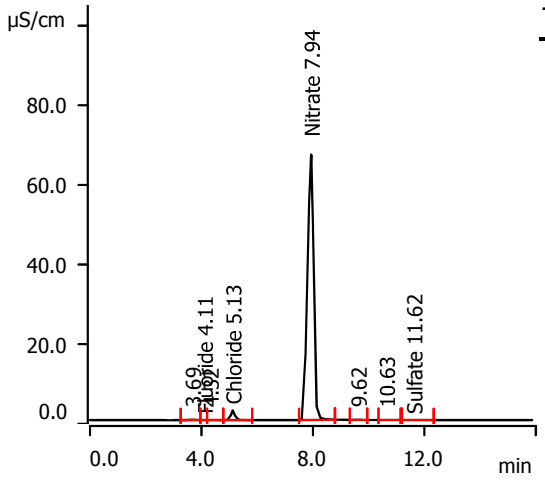


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0011	0.014	2.748
5.13	Chloride	4.4123	14.019	2803.834
7.07	Bromide	0.0040	0.139	27.721
7.90	Nitrate	0.0009	0.050	9.911
11.59	Sulfate	3.3486	13.275	2654.972

Sample data

Ident FC16559-1
Sample type . . . . . Sample
Determination start 2024-06-19 15:06:41
Dilution factor 25.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.11	Fluoride	0.0064	0.023	0.586
5.13	Chloride	0.3658	1.401	35.029
7.94	Nitrate	16.5769	20.659	516.480
11.62	Sulfate	0.0069	0.023	0.566

MagIC Net

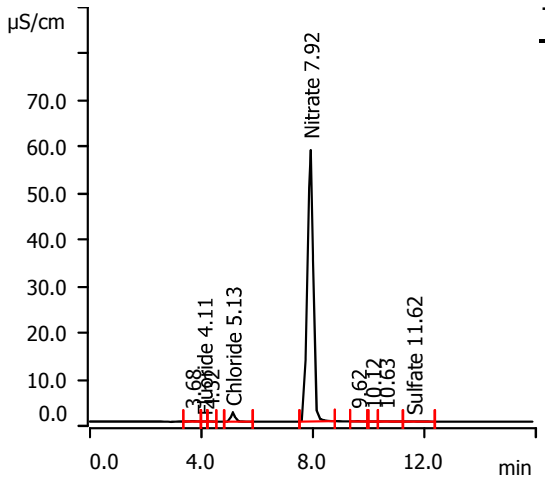
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-2
Sample type . . . . . Sample
Determination start 2024-06-19 15:27:02
Dilution factor 25.00

Anions

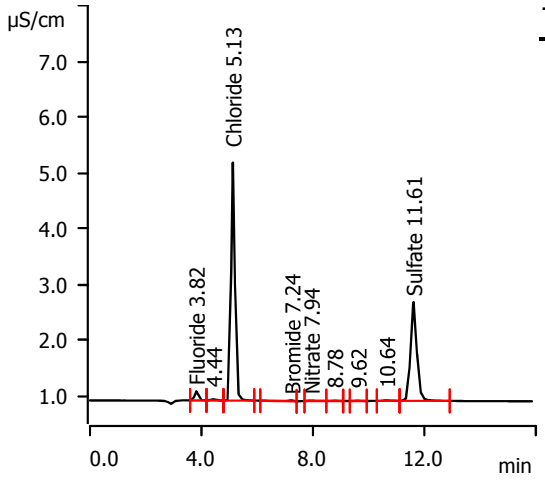


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.11	Fluoride	0.0007	0.013	0.327
5.13	Chloride	0.3055	1.213	30.328
7.92	Nitrate	13.7372	17.129	428.214
11.62	Sulfate	0.0063	0.020	0.512

Sample data

Ident FC16559-3
Sample type . . . . . Sample
Determination start 2024-06-19 15:47:23
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0255	0.058	0.292
5.13	Chloride	0.6492	2.285	11.424
7.24	Bromide	0.0050	0.146	0.730
7.94	Nitrate	0.0018	0.051	0.254
11.61	Sulfate	0.4646	1.838	9.189

MagIC Net

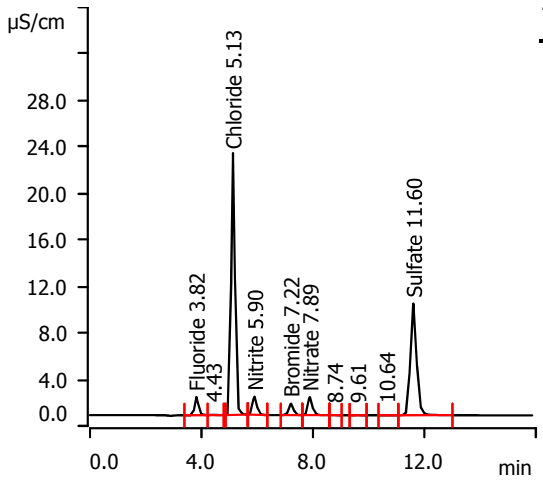
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-3S3
Sample type . . . . . Sample
Determination start 2024-06-19 16:07:45
Dilution factor 5.00

Anions

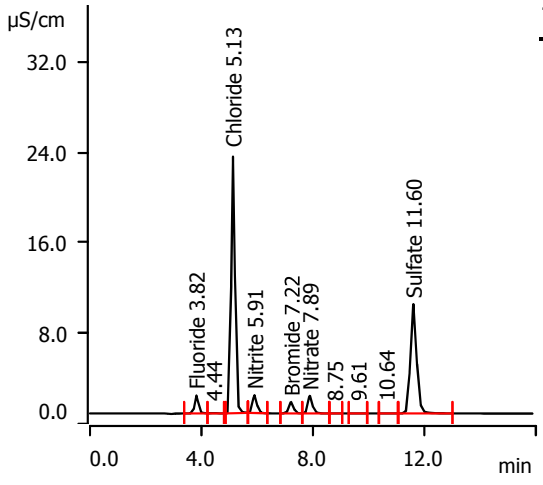


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.2386	0.448	2.239
5.13	Chloride	3.4077	10.887	54.433
5.90	Nitrite	0.2788	0.416	2.079
7.22	Bromide	0.1965	1.553	7.763
7.89	Nitrate	0.2905	0.410	2.048
11.60	Sulfate	2.5049	9.929	49.645

Sample data

Ident FC16559-3S4
Sample type . . . . . Sample
Determination start 2024-06-19 16:28:06
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.2394	0.449	2.247
5.13	Chloride	3.4268	10.946	54.731
5.91	Nitrite	0.2796	0.417	2.085
7.22	Bromide	0.1973	1.559	7.794
7.89	Nitrate	0.2917	0.411	2.056
11.60	Sulfate	2.5216	9.995	49.977

MagIC Net

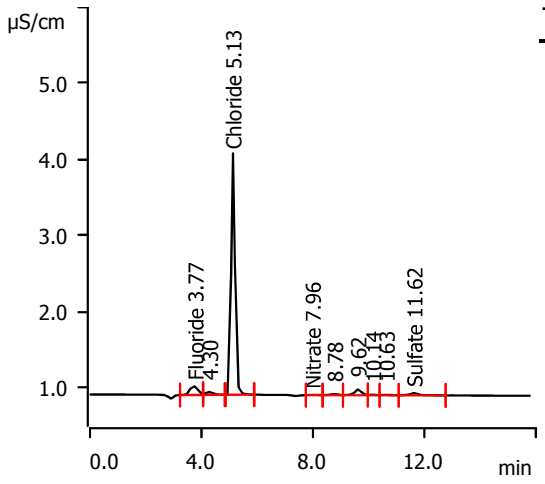
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-4
Sample type . . . . . Sample
Determination start 2024-06-19 16:48:26
Dilution factor 10.00

Anions

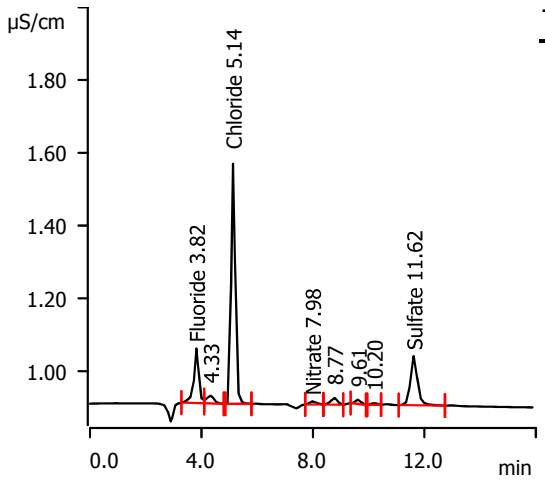


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.0398	0.084	0.844
5.13	Chloride	0.4908	1.791	17.910
7.96	Nitrate	0.0011	0.050	0.498
11.62	Sulfate	0.0113	0.040	0.403

Sample data

Ident FC16559-5
Sample type . . . . . Sample
Determination start 2024-06-19 17:08:48
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0290	0.065	0.324
5.14	Chloride	0.1075	0.596	2.979
7.98	Nitrate	0.0024	0.051	0.257
11.62	Sulfate	0.0400	0.154	0.770

MagIC Net

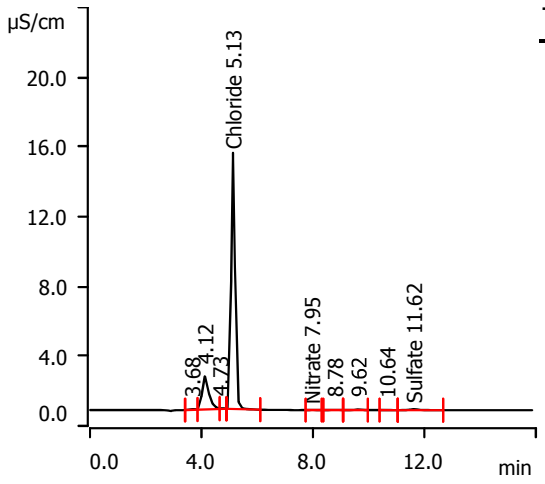
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-6
Sample type . . . . . Sample
Determination start 2024-06-19 17:29:08
Dilution factor 10.00

Anions

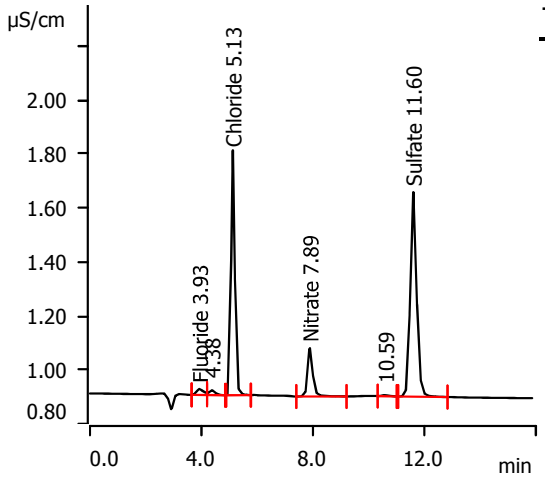


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.13	Chloride	2.2686	7.335	73.346
7.95	Nitrate	0.0009	0.050	0.496
11.62	Sulfate	0.0199	0.074	0.744

Sample data

Ident FC16559-7
Sample type . . . . . Sample
Determination start 2024-06-19 17:49:30
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.93	Fluoride	0.0063	0.023	0.023
5.13	Chloride	0.1369	0.687	0.687
7.89	Nitrate	0.0388	0.097	0.097
11.60	Sulfate	0.2018	0.796	0.796

MagIC Net

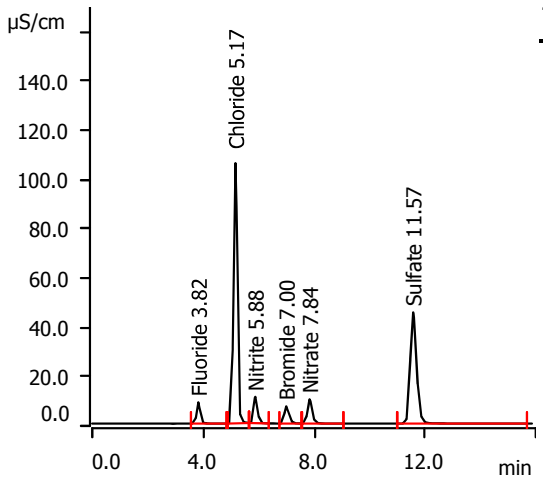
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-19 18:10:07
Dilution factor 1.00

Anions

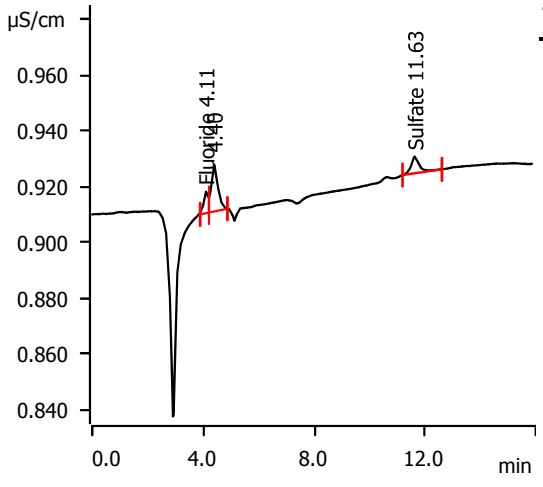


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.3114	2.408	2.408
5.17	Chloride	16.1536	50.632	50.632
5.88	Nitrite	1.7897	2.492	2.492
7.00	Bromide	1.3324	9.898	9.898
7.84	Nitrate	1.9140	2.428	2.428
11.57	Sulfate	12.2192	48.453	48.453

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-19 18:30:51
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.11	Fluoride	0.0014	0.014	0.014
11.63	Sulfate	0.0020	0.003	0.003

MagIC Net

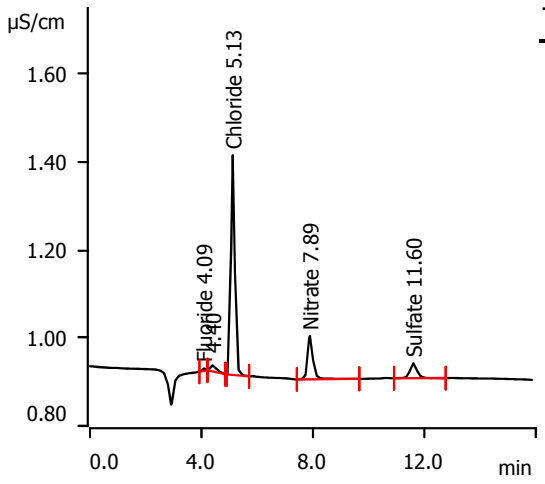
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-8
Sample type . . . . . Sample
Determination start 2024-06-19 18:51:27
Dilution factor 1.00

Anions

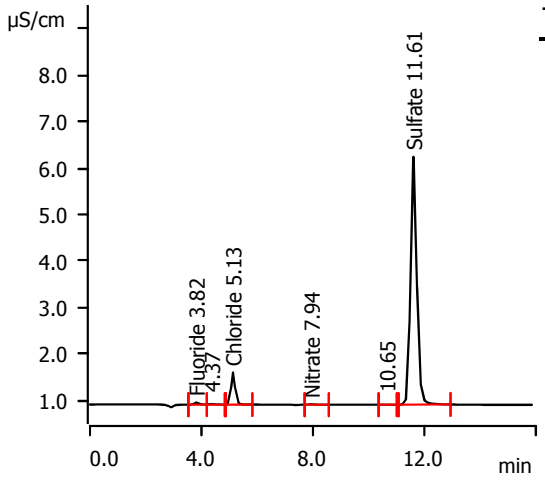


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.09	Fluoride	0.0008	0.013	0.013
5.13	Chloride	0.0762	0.498	0.498
7.89	Nitrate	0.0220	0.076	0.076
11.60	Sulfate	0.0103	0.036	0.036

Sample data

Ident FC16561-2
Sample type . . . . . Sample
Determination start 2024-06-19 19:12:09
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0089	0.028	0.140
5.13	Chloride	0.1095	0.602	3.009
7.94	Nitrate	0.0020	0.051	0.255
11.61	Sulfate	1.3896	5.506	27.531

MagIC Net

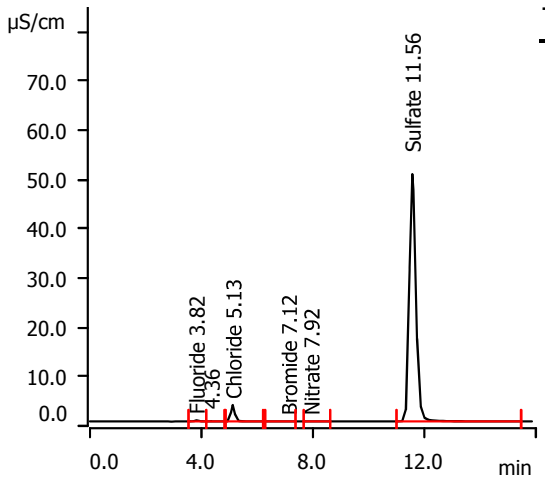
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16561-3
Sample type . . . . . Sample
Determination start 2024-06-19 19:32:29
Dilution factor 10.00

Anions

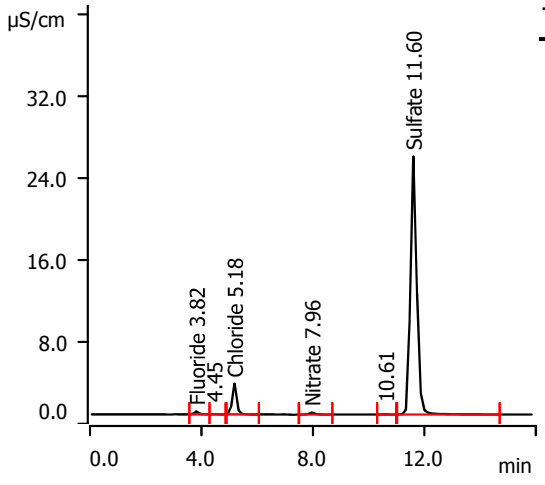


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0336	0.073	0.731
5.13	Chloride	0.4969	1.810	18.098
7.12	Bromide	0.0028	0.130	1.300
7.92	Nitrate	0.0014	0.050	0.502
11.56	Sulfate	13.6562	54.152	541.516

Sample data

Ident FC16561-4
Sample type . . . . . Sample
Determination start 2024-06-19 19:52:51
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0525	0.108	0.108
5.18	Chloride	0.5511	1.979	1.979
7.96	Nitrate	0.0426	0.101	0.101
11.60	Sulfate	6.6679	26.438	26.438

MagIC Net

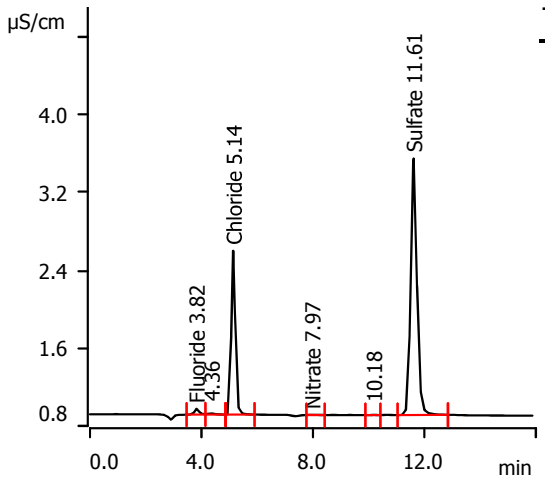
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16561-6
Sample type . . . . . Sample
Determination start 2024-06-19 20:13:29
Dilution factor 10.00

Anions

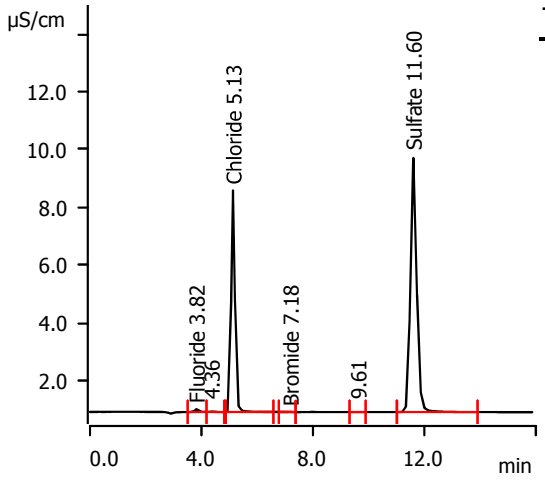


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0111	0.032	0.320
5.14	Chloride	0.2729	1.111	11.115
7.97	Nitrate	0.0008	0.049	0.494
11.61	Sulfate	0.6878	2.723	27.229

Sample data

Ident FC16561-7
Sample type . . . . . Sample
Determination start 2024-06-19 20:33:49
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0172	0.043	0.431
5.13	Chloride	1.1564	3.867	38.666
7.18	Bromide	0.0026	0.128	1.281
11.60	Sulfate	2.3105	9.158	91.581

MagIC Net

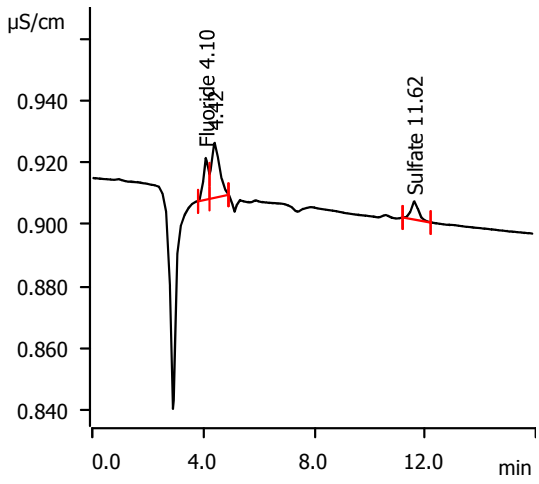
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-06-19 20:54:10
Dilution factor 1.00

Anions

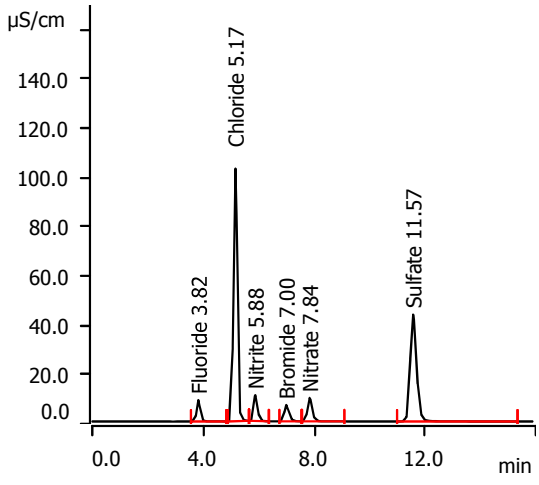


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.10	Fluoride	0.0027	0.017	0.017
11.62	Sulfate	0.0018	0.003	0.003

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-06-19 21:14:46
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.3188	2.422	2.422
5.17	Chloride	15.6519	49.067	49.067
5.88	Nitrite	1.7623	2.455	2.455
7.00	Bromide	1.2730	9.462	9.462
7.84	Nitrate	1.8649	2.367	2.367
11.57	Sulfate	11.7531	46.605	46.605

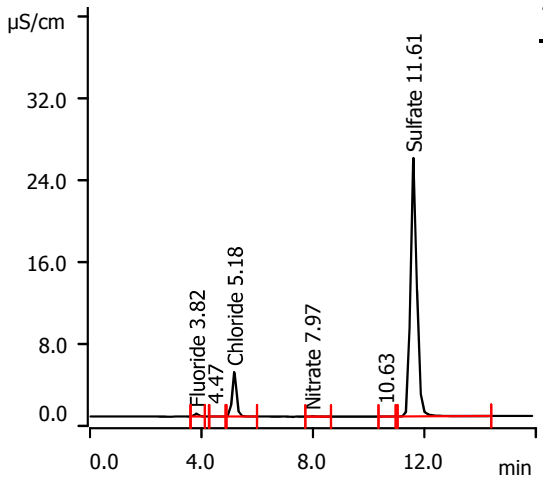
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16561-5
Sample type . . . . . Sample
Determination start 2024-06-19 21:35:21
Dilution factor 1.00

Anions

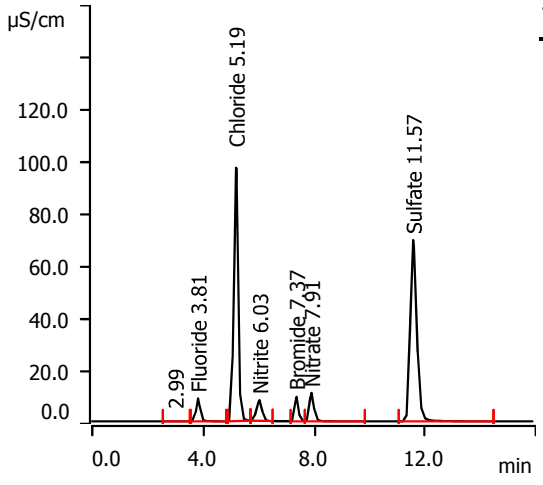


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0451	0.094	0.094
5.18	Chloride	0.7699	2.661	2.661
7.97	Nitrate	0.0049	0.055	0.055
11.61	Sulfate	6.6980	26.557	26.557

Sample data

Ident FC16561-5S1
Sample type . . . . . Sample
Determination start 2024-06-19 21:55:57
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	1.4422	2.647	2.647
5.19	Chloride	17.2259	53.976	53.976
6.03	Nitrite	1.8291	2.546	2.546
7.37	Bromide	1.3699	10.174	10.174
7.91	Nitrate	2.0008	2.536	2.536
11.57	Sulfate	18.8932	74.920	74.920

MagIC Net

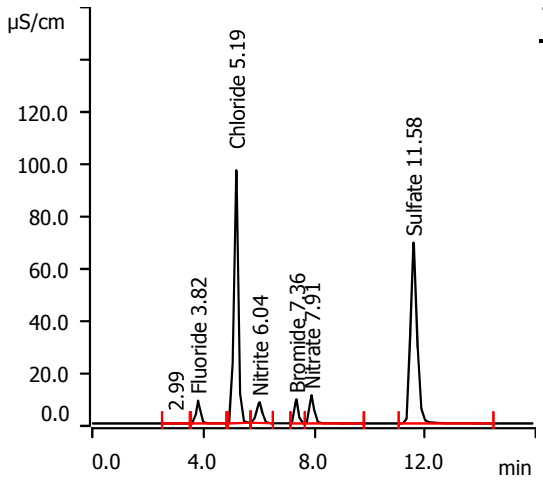
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16561-5S2
Sample type . . . . . Sample
Determination start 2024-06-19 22:16:32
Dilution factor 1.00

Anions

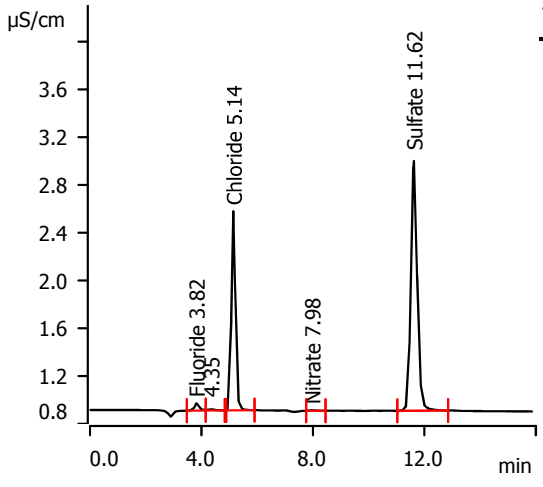


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.4414	2.646	2.646
5.19	Chloride	17.2254	53.974	53.974
6.04	Nitrite	1.8359	2.556	2.556
7.36	Bromide	1.3694	10.170	10.170
7.91	Nitrate	1.9999	2.535	2.535
11.58	Sulfate	18.8901	74.908	74.908

Sample data

Ident FC16561-8
Sample type . . . . . Sample
Determination start 2024-06-19 22:37:11
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0115	0.033	0.328
5.14	Chloride	0.2692	1.100	10.998
7.98	Nitrate	0.0009	0.050	0.496
11.62	Sulfate	0.5474	2.166	21.661

MagIC Net

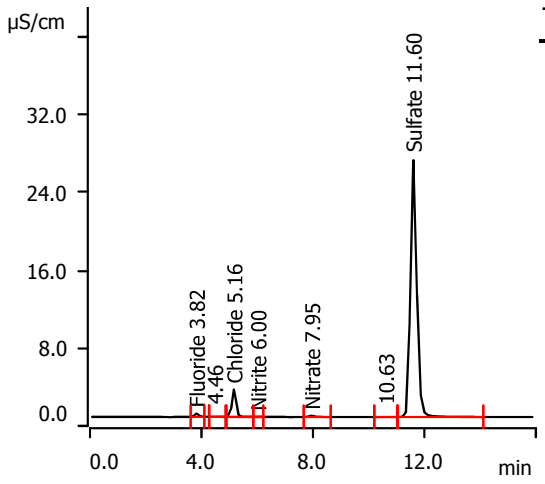
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16561-13
Sample type . . . . . Sample
Determination start 2024-06-19 22:57:31
Dilution factor 1.00

Anions

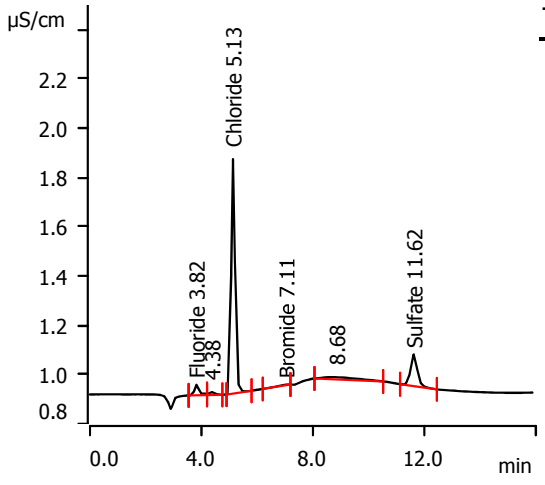


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0532	0.109	0.109
5.16	Chloride	0.4704	1.727	1.727
6.00	Nitrite	0.0005	0.033	0.033
7.95	Nitrate	0.0252	0.080	0.080
11.60	Sulfate	6.9974	27.745	27.745

Sample data

Ident FC16561-15
Sample type . . . . . Sample
Determination start 2024-06-19 23:18:10
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	0.0082	0.027	0.134
5.13	Chloride	0.1497	0.727	3.636
7.11	Bromide	0.0011	0.117	0.585
11.62	Sulfate	0.0366	0.140	0.702

MagIC Net

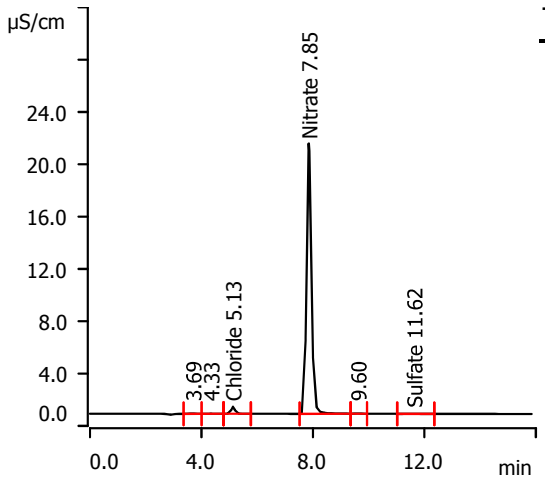
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident FC16559-1
Sample type . . . . . Sample
Determination start 2024-06-19 23:38:32
Dilution factor 100.00

Anions

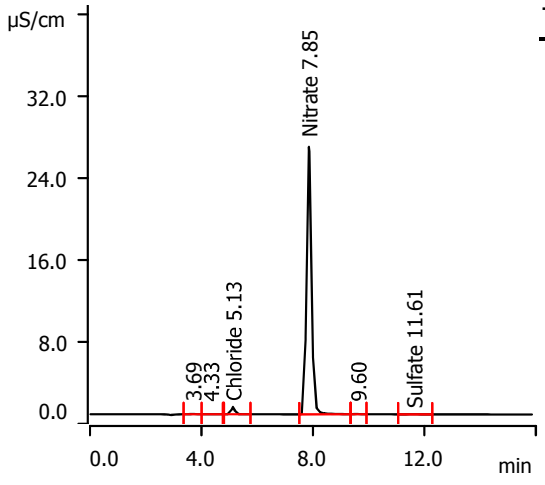


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.13	Chloride	0.0829	0.519	51.896
7.85	Nitrate	4.1463	5.204	520.375
11.62	Sulfate	0.0030	0.007	0.717

Sample data

Ident FC16559-2
Sample type . . . . . Sample
Determination start 2024-06-19 23:58:52
Dilution factor 75.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.13	Chloride	0.1100	0.604	45.265
7.85	Nitrate	5.3180	6.661	499.545
11.61	Sulfate	0.0034	0.009	0.651

MagIC Net

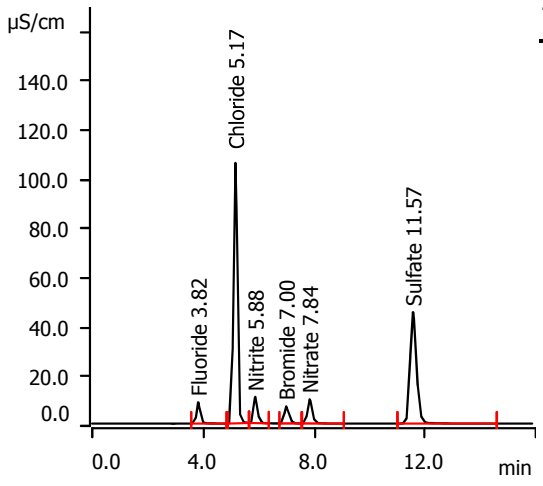
Summary Report

2024-06-20 10:57:16
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-20 00:19:13
Dilution factor 1.00

Anions

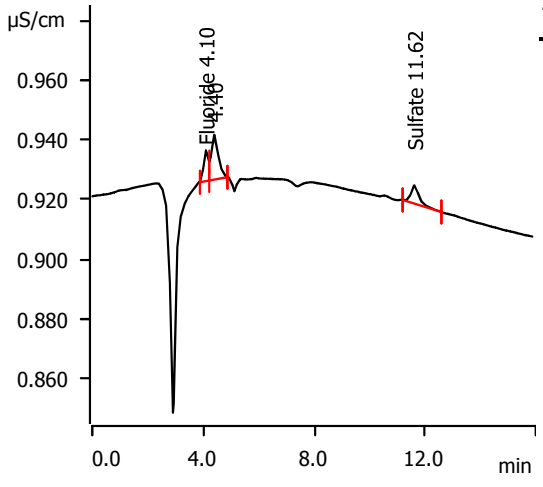


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.3242	2.432	2.432
5.17	Chloride	16.1952	50.761	50.761
5.88	Nitrite	1.7927	2.496	2.496
7.00	Bromide	1.3349	9.917	9.917
7.84	Nitrate	1.9194	2.435	2.435
11.57	Sulfate	12.2611	48.619	48.619

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-20 00:39:55
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.10	Fluoride	0.0019	0.015	0.015
11.62	Sulfate	0.0021	0.004	0.004

IC STANDARDS PREP LOG

STANDARD NAME	ANALYTES	STOCK LOT #	STOCK VENDOR	STOCK EXP. DATE	STOCK CONC. (mg/l)	VOLUME ADDED (ml)	TOTAL VOLUME (ml)	STANDARD CONC. (mg/l)	PREP DATE	INITIALS	STD LOT #	EXP. DATE
1'NO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/18/2024	gn	1IC110	6/19/2024
1'NO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/18/2024	gn	1IC111	6/19/2024
CCV	NO2/NO3	1IC110/111	REF	6/19/2024	100	5	200	2.5	6/18/2024	gn	1IC112	6/19/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/18/2024	gn	1IC112	6/19/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/18/2024	gn	1IC112	6/19/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/18/2024	gn	1IC112	6/19/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/18/2024	gn	1IC112	6/19/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/18/2024	gn	1IC113	6/19/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/18/2024	gn	1IC113	6/19/2024
B1	Br	---	---	---	400	---	---	10	6/18/2024	gn	1IC113	6/19/2024
1'NO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/19/2024	gn	1IC114	6/20/2024
1'NO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/19/2024	gn	1IC115	6/20/2024
CCV	NO2/NO3	1IC114/115	REF	6/20/2024	100	5	200	2.5	6/19/2024	gn	1IC116	6/20/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/19/2024	gn	1IC116	6/20/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/19/2024	gn	1IC116	6/20/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/19/2024	gn	1IC116	6/20/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/19/2024	gn	1IC116	6/20/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/19/2024	gn	1IC117	6/20/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/19/2024	gn	1IC117	6/20/2024
B1	Br	---	---	---	400	---	---	10	6/19/2024	gn	1IC117	6/20/2024

Method: EPA300.0 / SW846 9056A (circle one)

Date:	6/19/2024 9:34	**Prep Batchs:**	40145	**Vial lot#**	753964-H 23584	**ICAL:**	---
Analyst:	**GN**	**Analytical Batch:**	97710	**Eluent lot#**	GN36472	**ICV:**	---
Instrument:	**IC 4**	**Calibration Date:**	5/20/2024	**Suppressor regen. lot#**	GN37128	**CCV:**	1IC116
Inst. File Name:	42024061901.csv	**Pump pressure:**	8.16MPa	**Filter lot#**	---	**QC:**	1IC117

Sample#						**Ions Needed**						**Results OK or Dilution Needed**						**Comments**
Rinse	Bot#	Matrix	Scon	DF	Filter (y/n)	F	Cl	NO2	Br	NO3	SO4	F	Cl	NO2	Br	NO3	SO4	Scon Meter: Scon 7
MB1	---	AQ	---	1	N		x	x		x	x							
B1	---	AQ	---	1	N		x	x		x	x							
FC16535-1	5	AQ	800uS	5	N			x		x								
FC16546-1	2	AQ	(1)	1	N		x	x		x								
FC16546-1S1	2	AQ	(1)	1	N		x	x		x								
FC16546-1S2	2	AQ	(1)	1	N		x	x		x								
FC16546-2	2	AQ	(1)	10	N		x	x		x								
FC16546-3	2	AQ	(1)	1	N		x	x		x								
FC16546-4	2	AQ	(1)	1	N		x	x		x								
FC16546-5	2	AQ	(1)	1	N		x	x		x								
CCV	---	AQ	---	1	N		x	x		x								
CCB	---	AQ	---	1	N		x	x		x								
FC16547-1	4	AQ	12.6mS	200	N					x								
FC16559-1	10	AQ	4292uS	25	N					x	x					^		RR @ 100X Dilu
FC16559-2	10	AQ	4220uS	25	N					x	x					^		RR @ 100X Dilu
FC16559-3	27	AQ	897uS	5	N					x	x							
FC16559-3S3	27	AQ	897uS	5	N		x	x		x	x							
FC16559-3S4	27	AQ	897uS	5	N		x	x		x	x							
FC16559-4	10	AQ	1800uS	10	N					x	x							
FC16559-5	10	AQ	988uS	5	N					x	x							
FC16559-6	10	AQ	1880uS	10	N					x	x							
FC16559-7	10	AQ	30uS	1	N					x	x							
CCV	---	AQ	---	1	N		x	x		x	x							
CCB	---	AQ	---	1	N		x	x		x	x							
FC16559-8	10	AQ	3uS	1	N					x	x							
FC16561-2	10	AQ	850uS	5	N		x			x	x							
FC16561-3	10	AQ	1500uS	10	N		x			x	x							
FC16561-4	10	AQ	609uS	1	N		x			x	x							

Method: EPA300.0 / SW846 9056A (circle one)

Date:	6/19/2024 9:34	**Prep Batchs:**	40145	**Vial lot#**	753964-H 23584	**ICAL:**	---
Analyst:	GN	**Analytical Batch:**	97710	**Eluent lot#**	GN36472	**ICV:**	---
Instrument:	IC 4	**Calibration Date:**	5/20/2024	**Suppressor regen. lot#**	GN37128	**CCV:**	1IC116
Inst. File Name:	42024061901.csv	**Pump pressure:**	8.16MPa	**Filter lot#**	---	**QC:**	1IC117

Sample#						**Ions Needed**						**Results OK or Dilution Needed**						**Comments**
	Bot#	Matrix	Scon	DF	Filter (y/n)	F	Cl	NO2	Br	NO3	SO4	F	Cl	NO2	Br	NO3	SO4	Scon Meter: Scon 7
FC16561-6	10	AQ	1930uS	10	N		x			x	x							
FC16561-7	10	AQ	1282uS	10	N		x			x	x							
MB1	---	AQ	---	1	N		x			x	x							DNR
B1	---	AQ	---	1	N		x			x	x							DNR
FC16561-5	10	AQ	588uS	1	N		x			x	x							DNR
FC16561-5S1	10	AQ	588uS	1	N		x			x	x							DNR
FC16561-5S2	10	AQ	588uS	1	N		x			x	x							DNR
FC16561-8	10	AQ	2000uS	10	N		x			x	x							DNR
FC16561-13	10	AQ	528uS	1	N		x			x	x							DNR
FC16561-15	10	AQ	795uS	5	N		x			x	x							DNR
FC16559-1	10	AQ	4292uS	100	N					x	x							DNR
FC16559-2	10	AQ	4220uS	75	N					x	x							DNR
CCV	---	AQ	---	1	N		x			x	x							
CCB	---	AQ	---	1	N		x			x	x							

MagIC Net

2024-06-21 1:05:08

Sample data

Ident	STDK
Sample type	Standard 10
Determination start	2024-05-20 18:06:34 UTC-4
Method	SGS In-Vial Anions191003A
Operator	JR

Anions

Data source	Conductivity detector 1 (930 Compact IC Flex 1)	
Channel	Conductivity	
Recording time	16.0	min
Integration	Automatically	
Column type	Metrosep A Supp 5 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	7.76	MPa
Maximum pressure monitored	yes	
Temperature	30.0	°C

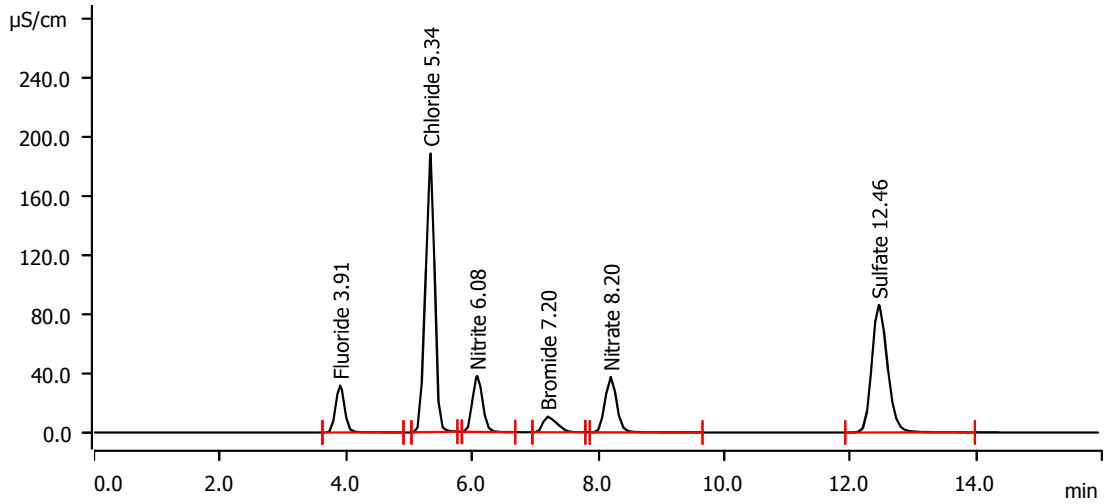
Pressure

Data source	Pump (930 Compact IC Flex 1)	
Channel	System pressure	
Recording time	17.5	min
Integration	Automatically	
Flow	-----	mL/min
Maximum flow monitored	no	
Pressure	-----	MPa
Maximum pressure monitored	no	
Temperature	-----	℃

MagIC Net

2024-06-21 1:05:08

Anions

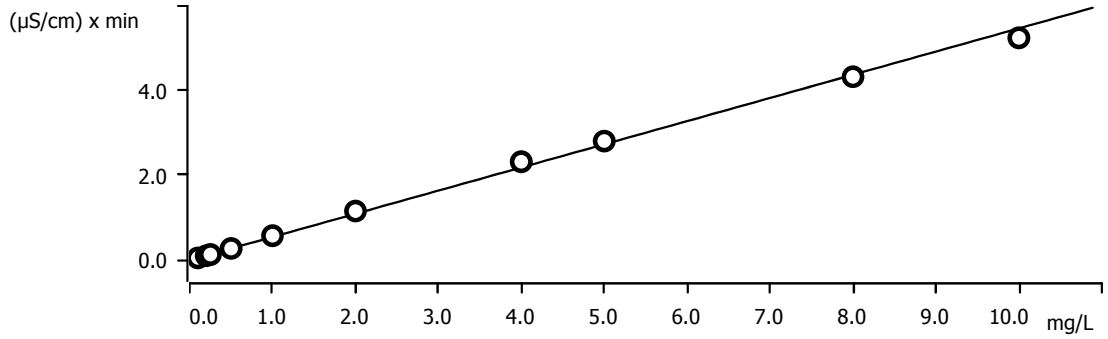


Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration mg/L	Component name
1	3.907	5.2381	31.601	9.585	Fluoride
2	5.343	31.6808	188.373	99.050	Chloride
3	6.082	7.0786	37.786	9.761	Nitrite
4	7.202	2.7628	10.582	20.408	Bromide
5	8.203	8.0529	37.435	10.061	Nitrate
6	12.455	24.7509	86.199	98.150	Sulfate

MagIC Net

2024-06-21 1:05:08

Fluoride (Anions)



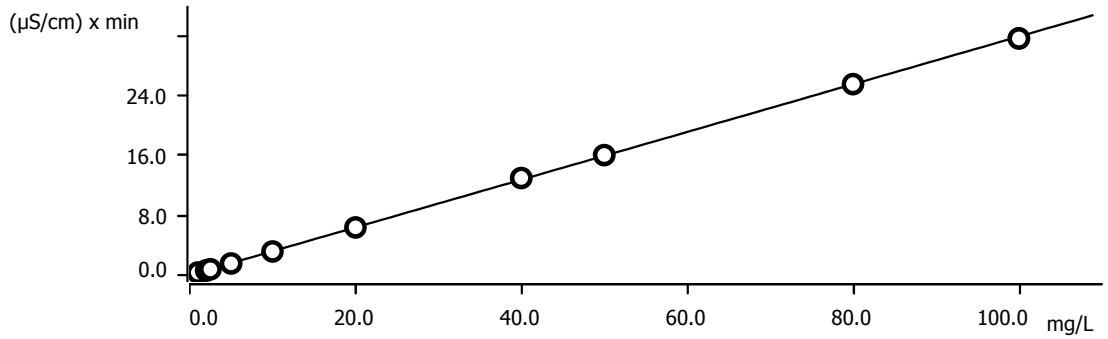
Function: . . . . . *A = - 6.43309E-3 + 0.0273591× Q*

Relative standard deviation . . . . . *5.926857 %*

Correlation coefficient *0.998755*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0457	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.0971	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1260	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.2701	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.5711	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.1532	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.3170	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	2.8043	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	4.3242	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	5.2427	STDK	2024-05-20 18:06:34 UTC-4

Chloride (Anions)



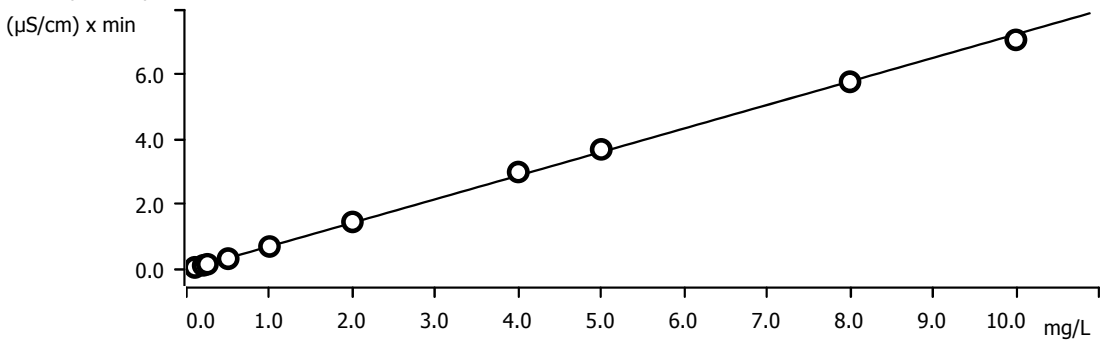
Function: . . . . . *A = - 0.0835196 + 0.0160345× Q*

Relative standard deviation . . . . . *1.273519 %*

Correlation coefficient *0.999946*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2539	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5420	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.7046	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.4822	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	3.1027	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	20.000	20.0	1.0	1.0	6.3213	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	12.9662	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	16.0545	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	25.5876	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	31.7334	STDK	2024-05-20 18:06:34 UTC-4

Nitrite (Anions)



Function: . . . . . *A = - 0.0237234 + 0.0363814× Q*

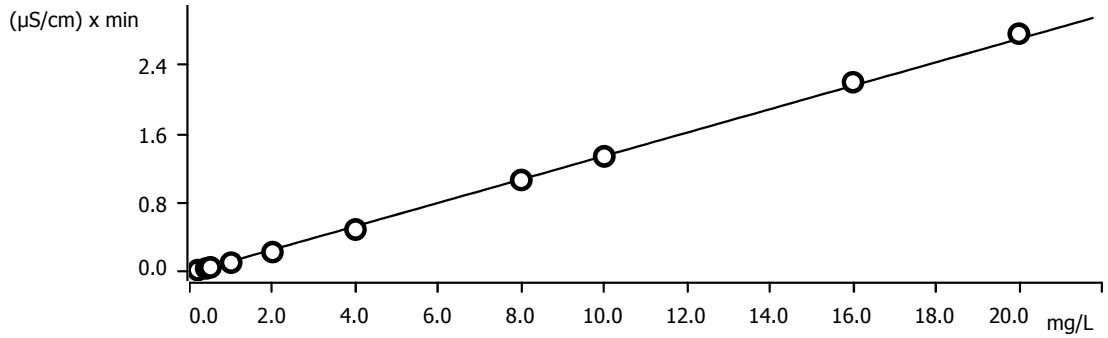
Relative standard deviation . . . . . *3.557326 %*

Correlation coefficient *0.999571*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0548	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1154	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3233	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7001	STDF	2024-05-20 16:23:35 UTC-4

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	2.000	20.0	1.0	1.0	1.4597	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.9983	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.6991	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	5.7865	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	7.0802	STDK	2024-05-20 18:06:34 UTC-4

Bromide (Anions)



Function: . . . . . *A = - 0.0148506 + 6.80534E-3× Q*

Relative standard deviation . . . . . *3.810724 %*

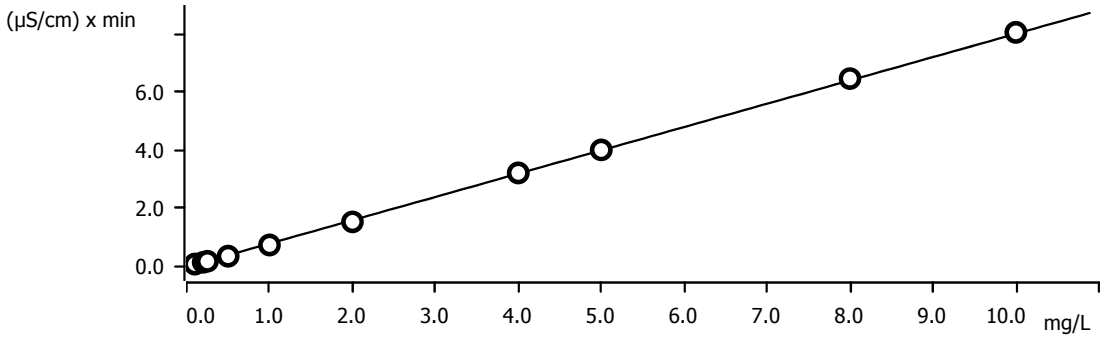
Correlation coefficient *0.999546*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.200	20.0	1.0	1.0	0.0192	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.400	20.0	1.0	1.0	0.0395	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.0512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.1063	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	2.000	20.0	1.0	1.0	0.2292	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	4.000	20.0	1.0	1.0	0.4910	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	8.000	20.0	1.0	1.0	1.0665	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	1.3418	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	16.000	20.0	1.0	1.0	2.2044	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	20.000	20.0	1.0	1.0	2.7680	STDK	2024-05-20 18:06:34 UTC-4

MagIC Net

2024-06-21 1:05:08

Nitrate (Anions)



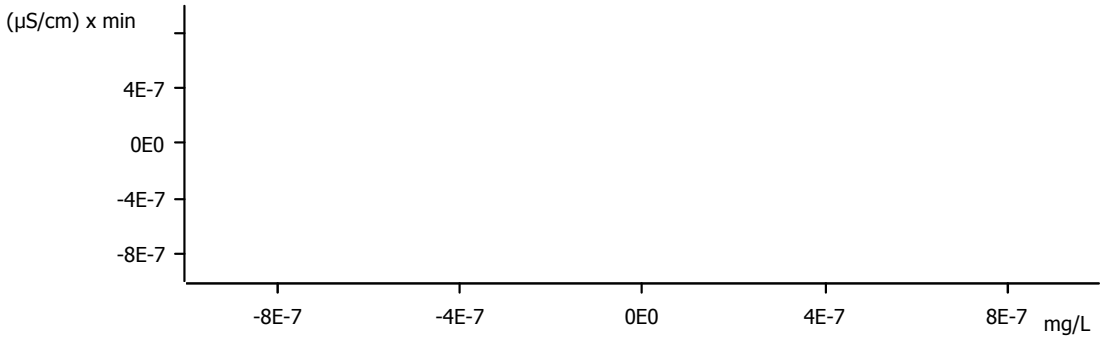
Function: . . . . . *A = - 0.0389899 + 0.0402143× Q*

Relative standard deviation . . . . . *1.750039 %*

Correlation coefficient *0.999902*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0568	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1184	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1542	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3277	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7141	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.5133	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	3.2038	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.9974	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	6.4597	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	8.0532	STDK	2024-05-20 18:06:34 UTC-4

Phosphate (Anions)



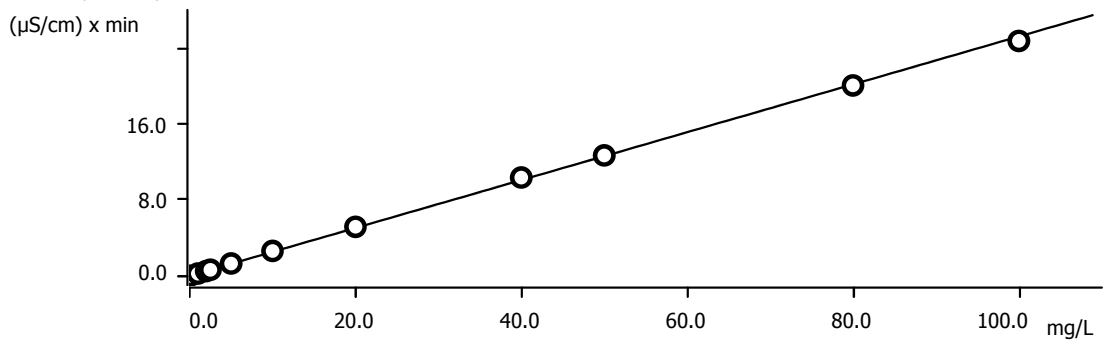
Function: . . . . . .

Relative standard deviation . . . . . *invalid %*

Correlation coefficient . . . . . *invalid*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.000	20.0	1.0	1.0	n. d.	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.000	20.0	1.0	1.0	n. d.	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.000	20.0	1.0	1.0	n. d.	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	0.000	20.0	1.0	1.0	n. d.	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	0.000	20.0	1.0	1.0	n. d.	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	0.000	20.0	1.0	1.0	n. d.	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	0.000	20.0	1.0	1.0	n. d.	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	0.000	20.0	1.0	1.0	n. d.	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	0.000	20.0	1.0	1.0	n. d.	STDK	2024-05-20 18:06:34 UTC-4

Sulfate (Anions)



Function: . . . . . *A = 1.16317E-3 + 0.0126081× Q*

Relative standard deviation . . . . . *2.720458 %*

Correlation coefficient *0.999778*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	0.0011	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2380	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5022	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.6367	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.3052	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	2.6269	STDF	2024-05-20 16:23:35 UTC-4

MagIC Net

2024-06-21 1:05:08

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	20.000	20.0	1.0	1.0	5.1680	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	10.3573	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	12.6883	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	20.0613	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	24.7507	STDK	2024-05-20 18:06:34 UTC-4

MagIC Net

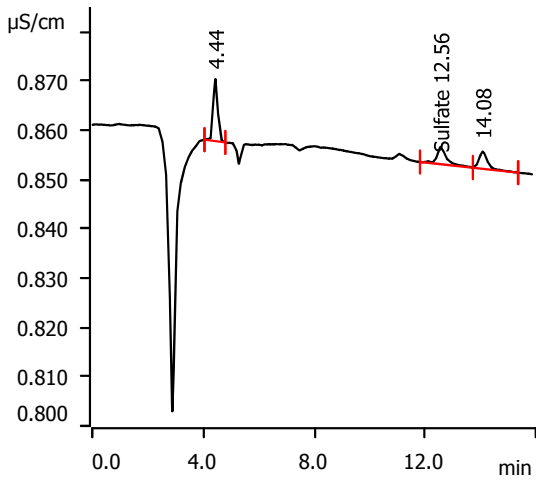
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDA
Sample type . . . . . Standard 100
Determination start 2024-05-20 14:40:36
Dilution factor 1.00

Anions

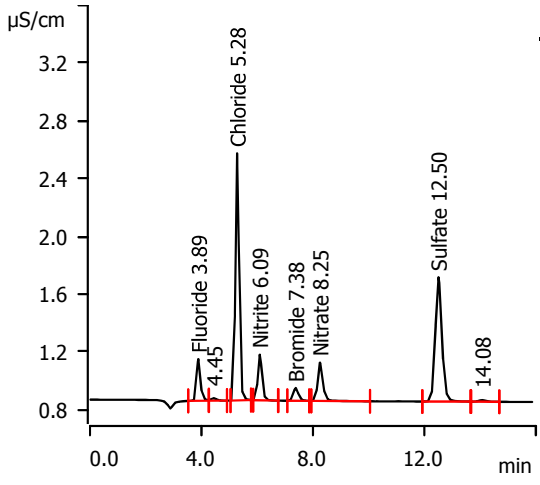


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.56	Sulfate	0.0014	0.001	0.001

Sample data

Ident . . . . . STDB
Sample type . . . . . Standard 1
Determination start 2024-05-20 15:01:11
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0460	0.096	0.096
5.28	Chloride	0.2534	1.051	1.051
6.09	Nitrite	0.0548	0.108	0.108
7.38	Bromide	0.0191	0.249	0.249
8.25	Nitrate	0.0569	0.119	0.119
12.50	Sulfate	0.2386	0.942	0.942

MagIC Net

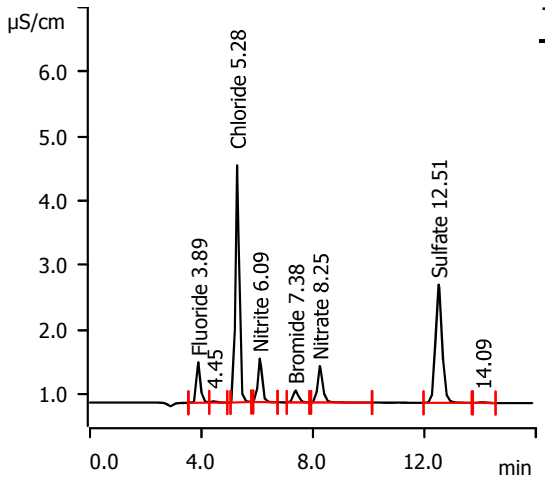
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDC
Sample type . . . . . Standard 2
Determination start 2024-05-20 15:21:48
Dilution factor 1.00

Anions

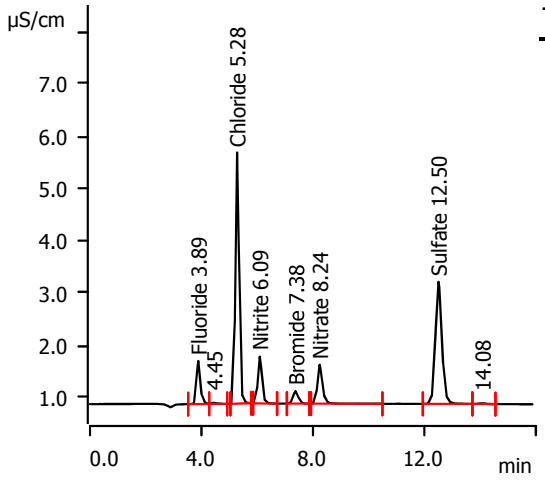


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0973	0.190	0.190
5.28	Chloride	0.5412	1.948	1.948
6.09	Nitrite	0.1154	0.191	0.191
7.38	Bromide	0.0393	0.398	0.398
8.25	Nitrate	0.1187	0.196	0.196
12.51	Sulfate	0.5021	1.986	1.986

Sample data

Ident . . . . . STDD
Sample type . . . . . Standard 3
Determination start 2024-05-20 15:42:25
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.1263	0.243	0.243
5.28	Chloride	0.7036	2.454	2.454
6.09	Nitrite	0.1512	0.240	0.240
7.38	Bromide	0.0511	0.484	0.484
8.24	Nitrate	0.1547	0.241	0.241
12.50	Sulfate	0.6367	2.520	2.520

MagIC Net

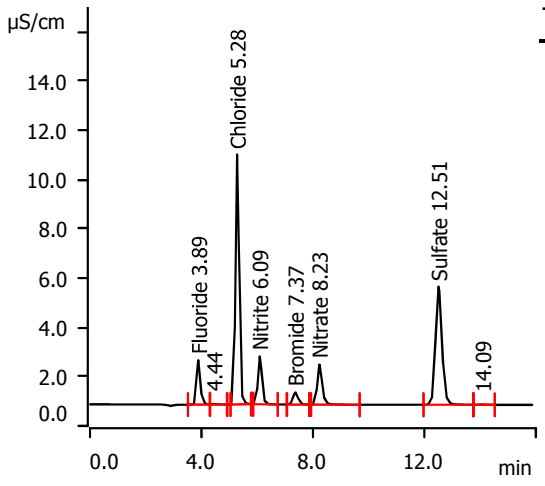
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDE
Sample type . . . . . Standard 4
Determination start 2024-05-20 16:03:00
Dilution factor 1.00

Anions

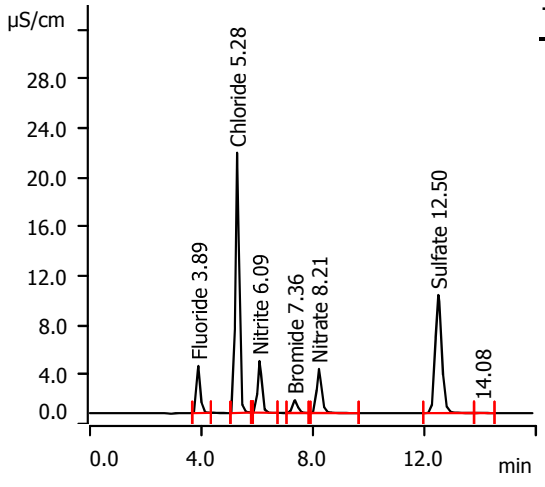


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.2702	0.506	0.506
5.28	Chloride	1.4801	4.876	4.876
6.09	Nitrite	0.3233	0.477	0.477
7.37	Bromide	0.1060	0.888	0.888
8.23	Nitrate	0.3276	0.456	0.456
12.51	Sulfate	1.3051	5.171	5.171

Sample data

Ident . . . . . STDF
Sample type . . . . . Standard 5
Determination start 2024-05-20 16:23:35
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.5629	1.040	1.040
5.28	Chloride	3.0984	9.922	9.922
6.09	Nitrite	0.7000	0.995	0.995
7.36	Bromide	0.2285	1.788	1.788
8.21	Nitrate	0.7140	0.936	0.936
12.50	Sulfate	2.6268	10.413	10.413

MagIC Net

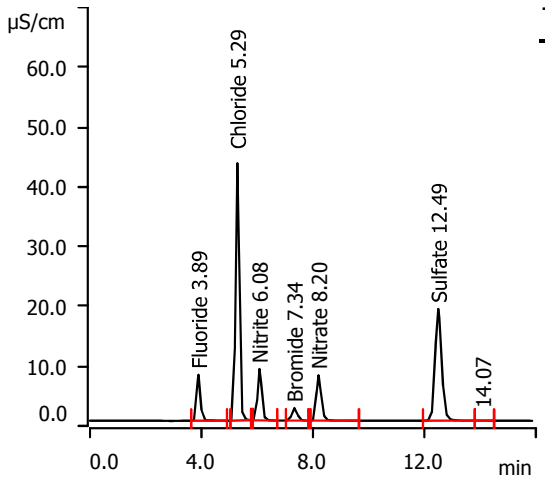
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDG
Sample type . . . . . Standard 6
Determination start 2024-05-20 16:44:11
Dilution factor 1.00

Anions

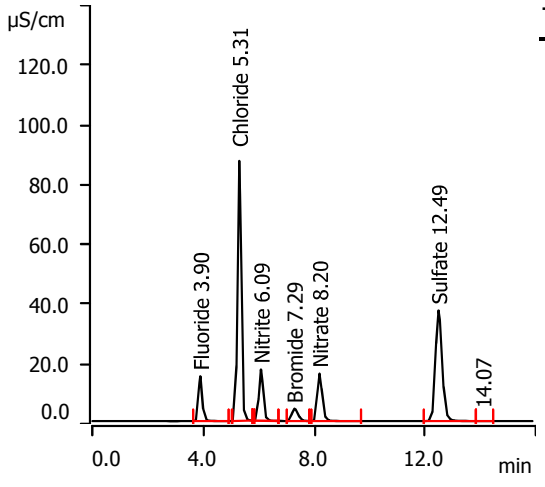


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.1636	2.138	2.138
5.29	Chloride	6.3124	19.944	19.944
6.08	Nitrite	1.4594	2.038	2.038
7.34	Bromide	0.4899	3.708	3.708
8.20	Nitrate	1.5131	1.930	1.930
12.49	Sulfate	5.1680	20.490	20.490

Sample data

Ident . . . . . STDH
Sample type . . . . . Standard 7
Determination start 2024-05-20 17:04:46
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.3147	4.242	4.242
5.31	Chloride	12.9472	40.633	40.633
6.09	Nitrite	2.9978	4.153	4.153
7.29	Bromide	1.0643	7.928	7.928
8.20	Nitrate	3.2037	4.032	4.032
12.49	Sulfate	10.3573	41.069	41.069

MagIC Net

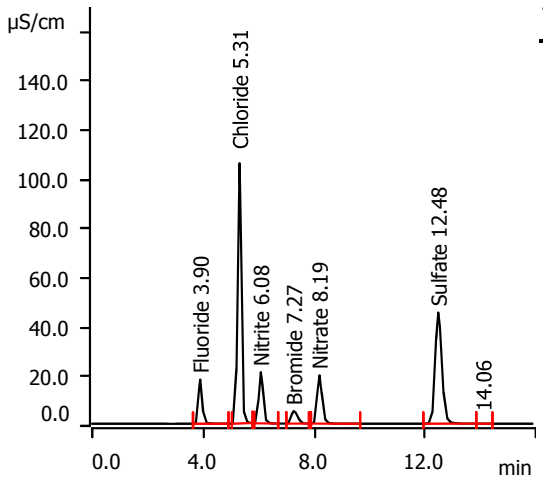
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDI
Sample type . . . . . Standard 8
Determination start 2024-05-20 17:25:23
Dilution factor 1.00

Anions

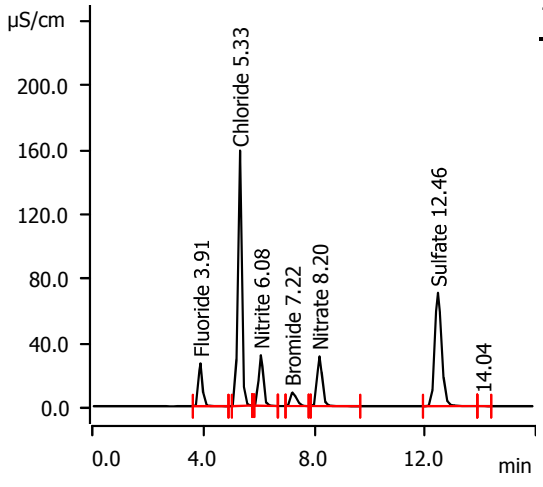


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.8017	5.132	5.132
5.31	Chloride	16.0310	50.249	50.249
6.08	Nitrite	3.6985	5.115	5.115
7.27	Bromide	1.3391	9.948	9.948
8.19	Nitrate	3.9972	5.018	5.018
12.48	Sulfate	12.6882	50.313	50.313

Sample data

Ident . . . . . STDJ
Sample type . . . . . Standard 9
Determination start 2024-05-20 17:45:59
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	4.3202	7.907	7.907
5.33	Chloride	25.5458	79.919	79.919
6.08	Nitrite	5.7852	7.983	7.983
7.22	Bromide	2.2002	16.275	16.275
8.20	Nitrate	6.4594	8.080	8.080
12.46	Sulfate	20.0614	79.553	79.553

MagIC Net

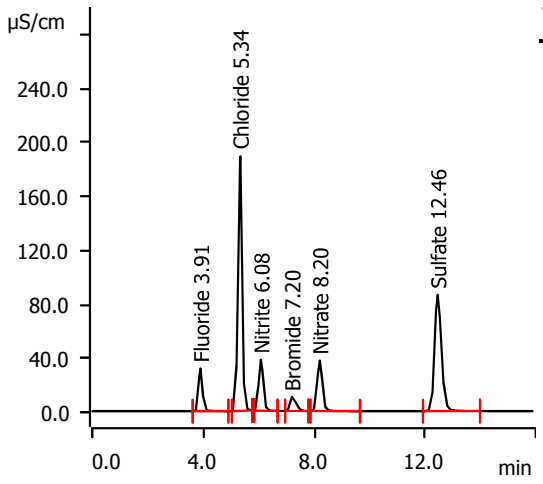
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDK
Sample type . . . . . Standard 10
Determination start 2024-05-20 18:06:34
Dilution factor 1.00

Anions

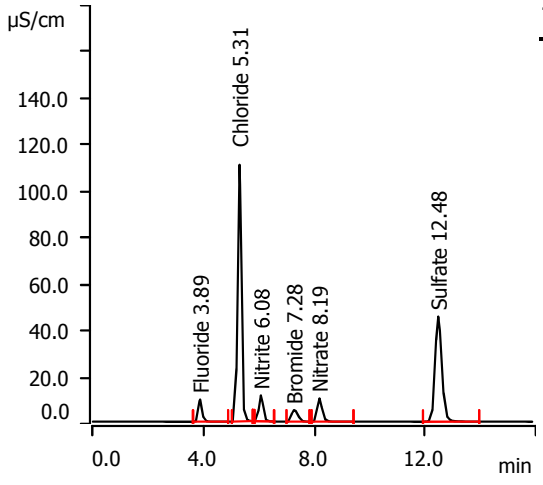


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	5.2381	9.585	9.585
5.34	Chloride	31.6808	99.050	99.050
6.08	Nitrite	7.0786	9.761	9.761
7.20	Bromide	2.7628	20.408	20.408
8.20	Nitrate	8.0529	10.061	10.061
12.46	Sulfate	24.7509	98.150	98.150

Sample data

Ident ICV
Sample type . . . . . Sample
Determination start 2024-05-20 18:27:10
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4443	2.651	2.651
5.31	Chloride	16.8052	52.664	52.664
6.08	Nitrite	1.8978	2.641	2.641
7.28	Bromide	1.3454	9.994	9.994
8.19	Nitrate	1.9977	2.532	2.532
12.48	Sulfate	12.7029	50.371	50.371

MagIC Net

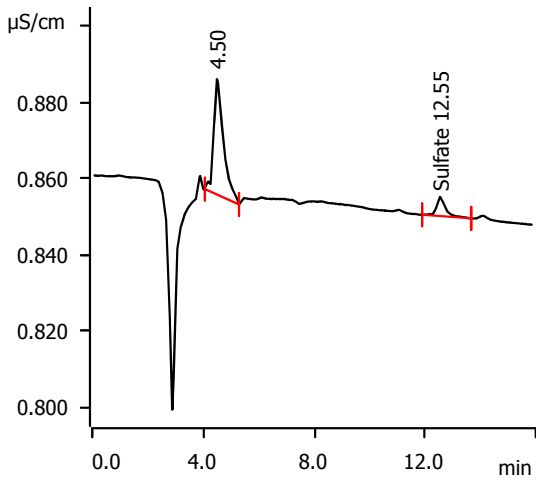
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . ICB
Sample type . . . . . Sample
Determination start 2024-05-20 18:47:46
Dilution factor 1.00

Anions

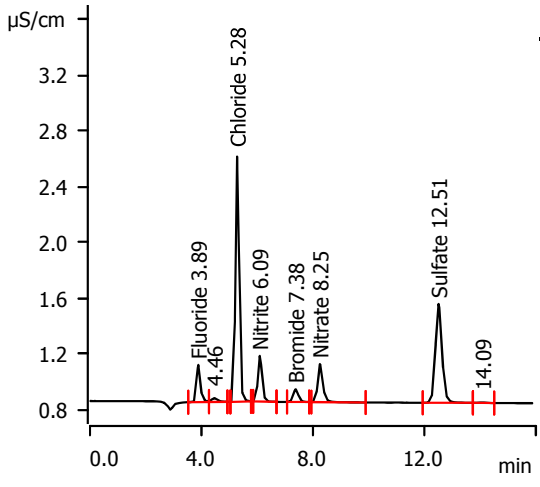


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.55	Sulfate	0.0018	0.003	0.003

Sample data

Ident . . . . . CRI
Sample type . . . . . Sample
Determination start 2024-05-20 19:08:20
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0424	0.089	0.089
5.28	Chloride	0.2601	1.071	1.071
6.09	Nitrite	0.0566	0.110	0.110
7.38	Bromide	0.0195	0.253	0.253
8.25	Nitrate	0.0583	0.121	0.121
12.51	Sulfate	0.1968	0.776	0.776

MagIC Net

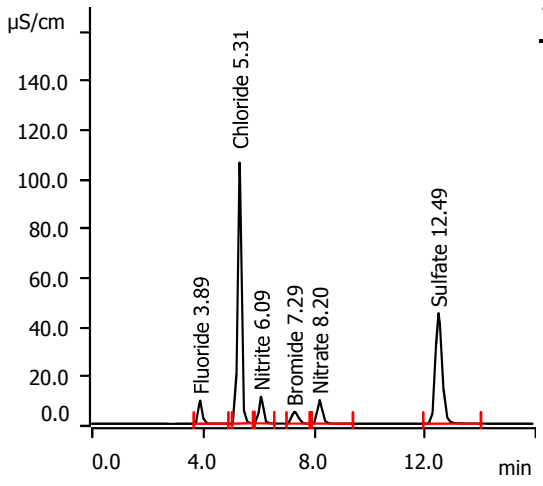
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-05-20 19:28:55
Dilution factor 1.00

Anions

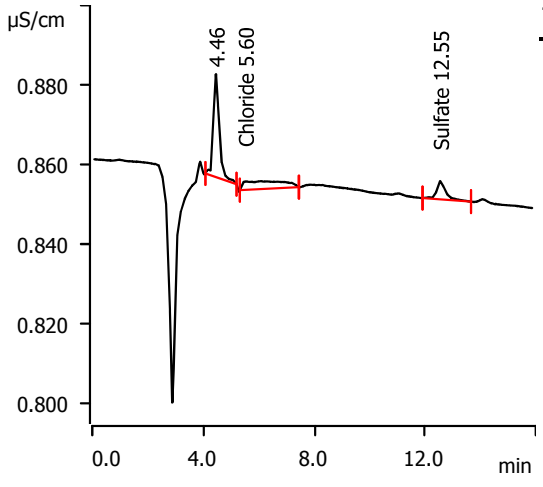


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4584	2.677	2.677
5.31	Chloride	16.0929	50.442	50.442
6.09	Nitrite	1.8405	2.562	2.562
7.29	Bromide	1.3312	9.890	9.890
8.20	Nitrate	1.9191	2.435	2.435
12.49	Sulfate	12.6728	50.252	50.252

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-05-20 19:49:38
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.60	Chloride	0.0033	0.271	0.271
12.55	Sulfate	0.0017	0.002	0.002

MagIC Net

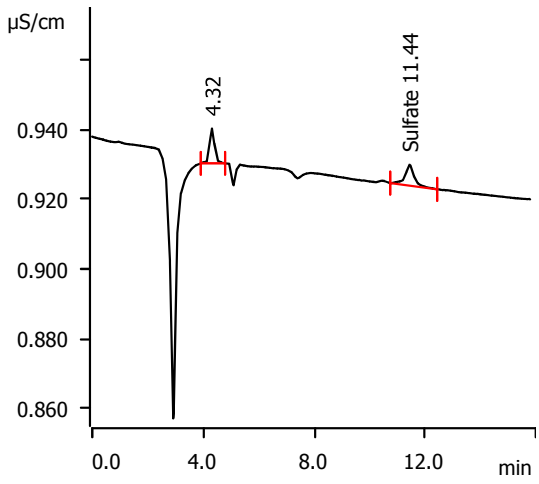
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident . . . . . Rinse
Sample type . . . . . Sample
Determination start 2024-06-20 09:41:52
Dilution factor 1.00

Anions

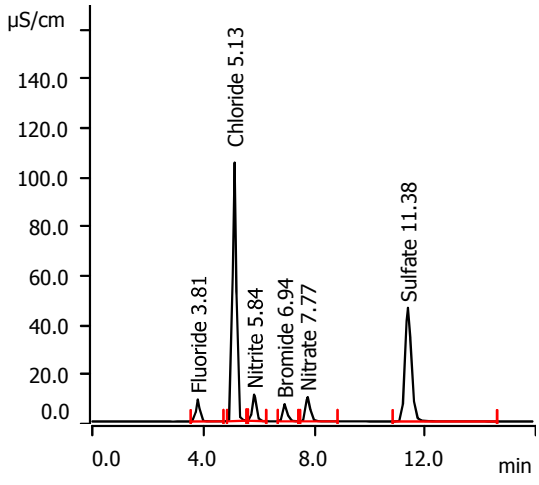


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.44	Sulfate	0.0023	0.004	0.004

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-20 10:07:15
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	1.3632	2.503	2.503
5.13	Chloride	16.0173	50.207	50.207
5.84	Nitrite	1.7911	2.494	2.494
6.94	Bromide	1.3210	9.815	9.815
7.77	Nitrate	1.9140	2.428	2.428
11.38	Sulfate	12.3646	49.030	49.030

MagIC Net

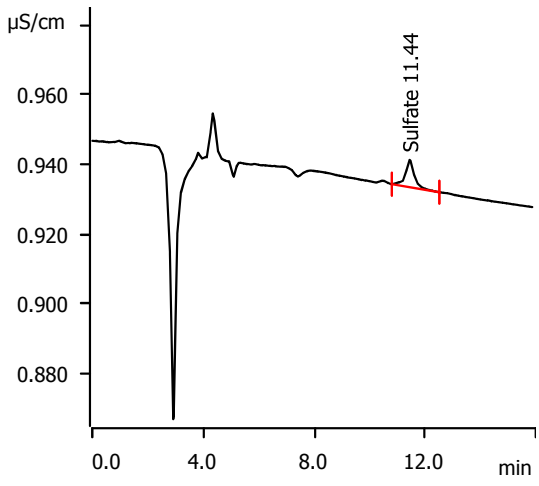
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-06-20 10:32:36
Dilution factor 1.00

Anions

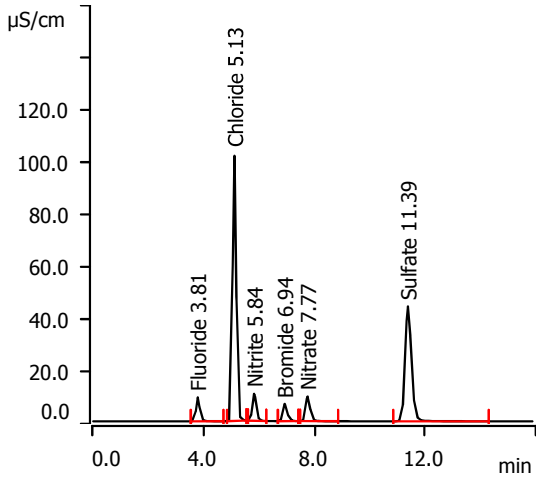


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.44	Sulfate	0.0029	0.007	0.007

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-06-20 10:53:14
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	1.4004	2.571	2.571
5.13	Chloride	15.3519	48.132	48.132
5.84	Nitrite	1.7308	2.411	2.411
6.94	Bromide	1.2498	9.292	9.292
7.77	Nitrate	1.8334	2.328	2.328
11.39	Sulfate	11.7795	46.709	46.709

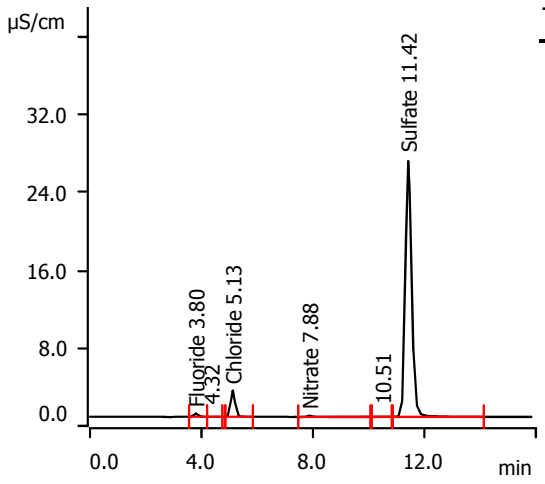
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16561-13
Sample type . . . . . Sample
Determination start 2024-06-20 11:13:51
Dilution factor 1.00

Anions

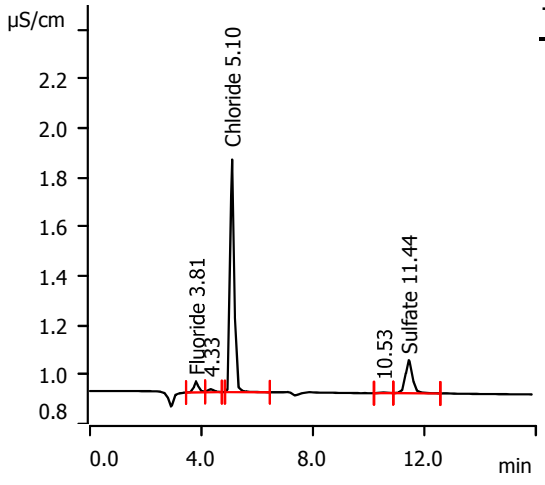


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	0.0587	0.119	0.119
5.13	Chloride	0.4601	1.695	1.695
7.88	Nitrate	0.0389	0.097	0.097
11.42	Sulfate	6.9155	27.420	27.420

Sample data

Ident FC16561-15
Sample type . . . . . Sample
Determination start 2024-06-20 11:34:32
Dilution factor 5.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0082	0.027	0.134
5.10	Chloride	0.1509	0.731	3.655
11.44	Sulfate	0.0389	0.149	0.747

MagIC Net

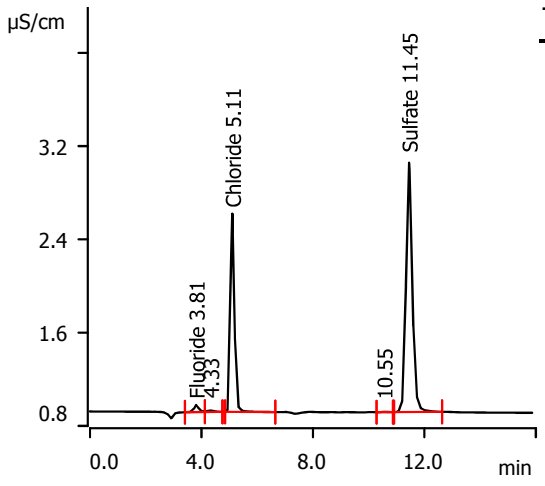
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16561-8
Sample type . . . . . Sample
Determination start 2024-06-20 13:14:59
Dilution factor 10.00

Anions

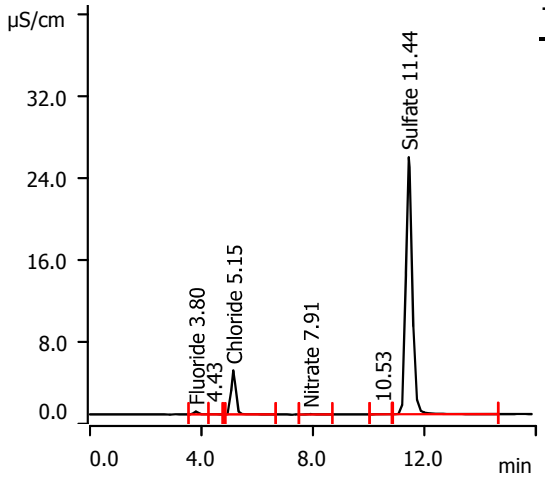


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0118	0.033	0.333
5.11	Chloride	0.2755	1.120	11.195
11.45	Sulfate	0.5616	2.222	22.223

Sample data

Ident FC16561-5
Sample type . . . . . Sample
Determination start 2024-06-20 13:41:19
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	0.0499	0.103	0.103
5.15	Chloride	0.7856	2.710	2.710
7.91	Nitrate	0.0099	0.061	0.061
11.44	Sulfate	6.6502	26.368	26.368

MagIC Net

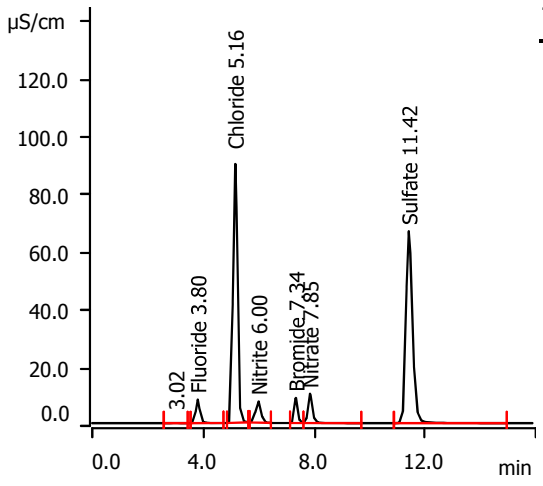
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16561-5S1
Sample type . . . . . Sample
Determination start 2024-06-20 14:01:56
Dilution factor 1.00

Anions

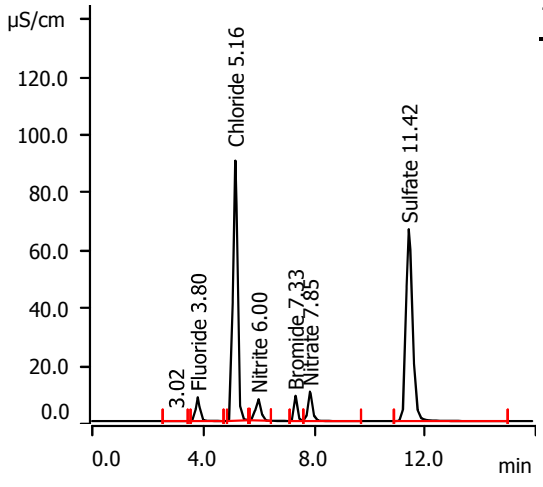


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	1.3621	2.501	2.501
5.16	Chloride	16.1987	50.772	50.772
6.00	Nitrite	1.7161	2.391	2.391
7.34	Bromide	1.2817	9.526	9.526
7.85	Nitrate	1.8766	2.382	2.382
11.42	Sulfate	18.1498	71.972	71.972

Sample data

Ident FC16561-5S2
Sample type . . . . . Sample
Determination start 2024-06-20 14:22:32
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	1.3624	2.502	2.502
5.16	Chloride	16.2087	50.804	50.804
6.00	Nitrite	1.7136	2.388	2.388
7.33	Bromide	1.2812	9.522	9.522
7.85	Nitrate	1.8748	2.380	2.380
11.42	Sulfate	18.1547	71.991	71.991

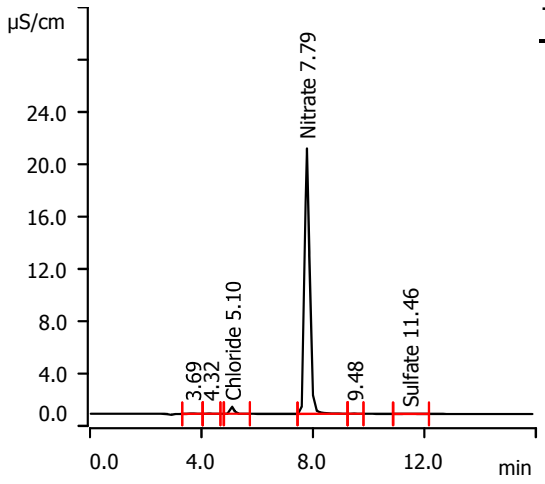
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16559-1
Sample type . . . . . Sample
Determination start 2024-06-20 14:43:07
Dilution factor 100.00

Anions

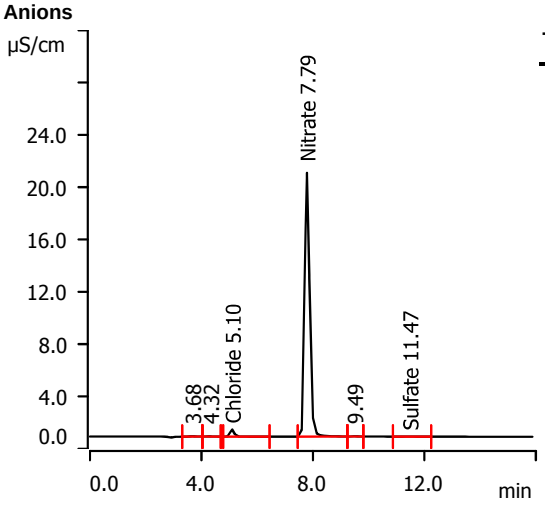


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.10	Chloride	0.0835	0.521	52.066
7.79	Nitrate	4.1292	5.182	518.245
11.46	Sulfate	0.0036	0.010	0.968

Sample data

Ident FC16559-2
Sample type . . . . . Sample
Determination start 2024-06-20 15:03:28
Dilution factor 100.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.10	Chloride	0.0850	0.525	52.539
7.79	Nitrate	4.0887	5.132	513.212
11.47	Sulfate	0.0034	0.009	0.902

MagIC Net

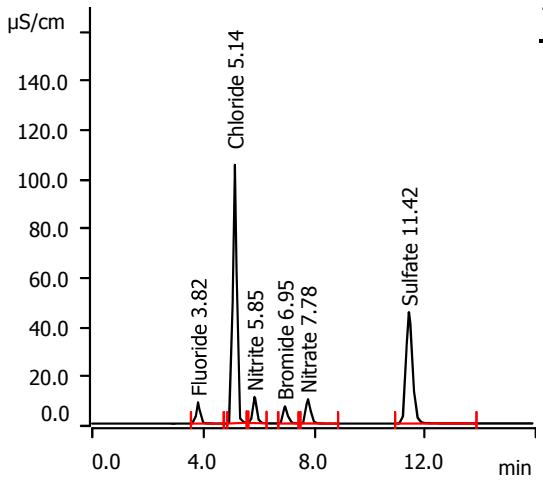
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-20 15:23:49
Dilution factor 1.00

Anions

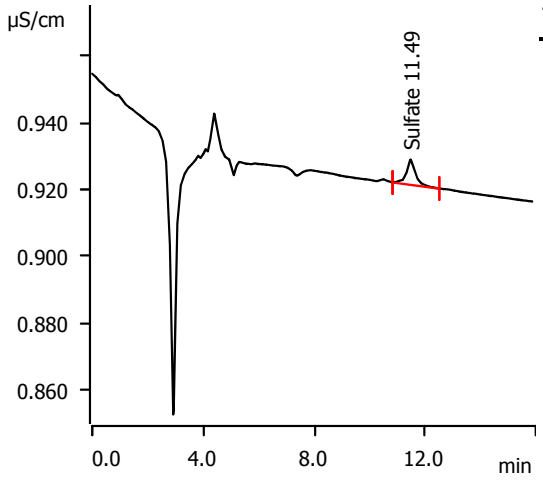


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.82	Fluoride	1.3118	2.409	2.409
5.14	Chloride	16.0959	50.452	50.452
5.85	Nitrite	1.7955	2.500	2.500
6.95	Bromide	1.3304	9.884	9.884
7.78	Nitrate	1.9279	2.446	2.446
11.42	Sulfate	12.2540	48.591	48.591

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-20 15:44:29
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.49	Sulfate	0.0029	0.007	0.007

MagIC Net

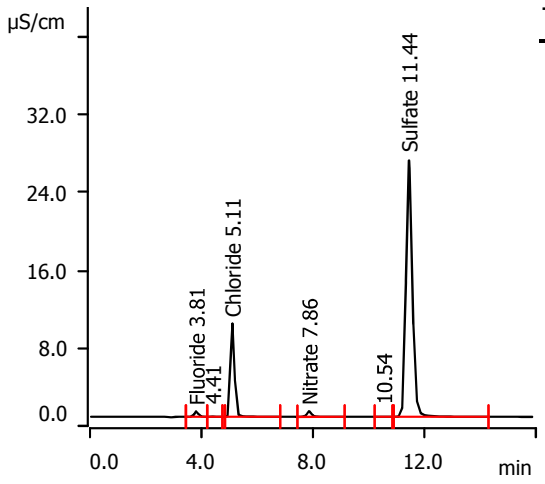
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-1
Sample type . . . . . Sample
Determination start 2024-06-20 16:05:08
Dilution factor 1.00

Anions

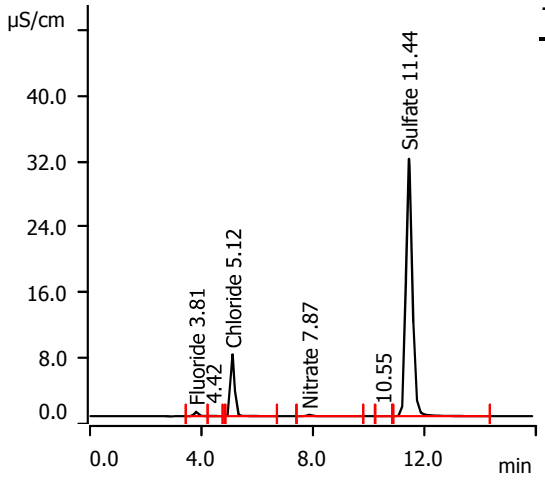


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0874	0.172	0.172
5.11	Chloride	1.5252	5.016	5.016
7.86	Nitrate	0.1175	0.195	0.195
11.44	Sulfate	7.0046	27.774	27.774

Sample data

Ident FC16591-2
Sample type . . . . . Sample
Determination start 2024-06-20 16:25:49
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0843	0.166	0.166
5.12	Chloride	1.1958	3.989	3.989
7.87	Nitrate	0.0448	0.104	0.104
11.44	Sulfate	8.3852	33.249	33.249

MagIC Net

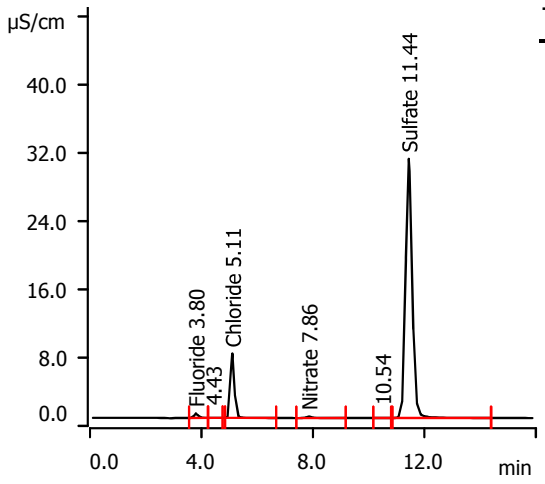
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-3
Sample type . . . . . Sample
Determination start 2024-06-20 16:46:23
Dilution factor 1.00

Anions

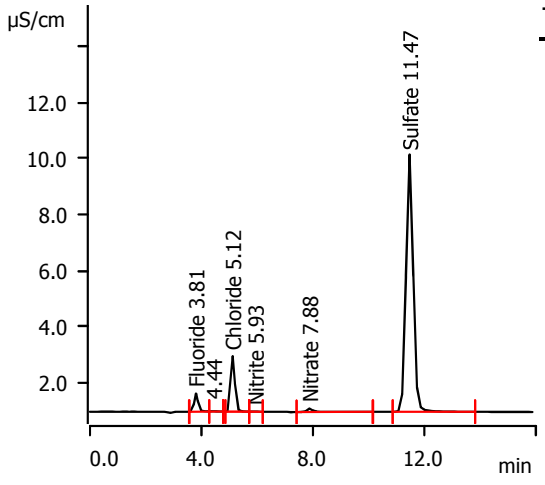


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	0.0846	0.166	0.166
5.11	Chloride	1.1926	3.979	3.979
7.86	Nitrate	0.0450	0.104	0.104
11.44	Sulfate	8.3774	33.218	33.218

Sample data

Ident FC16591-4
Sample type . . . . . Sample
Determination start 2024-06-20 17:06:57
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.1032	0.200	0.200
5.12	Chloride	0.3369	1.311	1.311
5.93	Nitrite	0.0013	0.034	0.034
7.88	Nitrate	0.0393	0.097	0.097
11.47	Sulfate	2.7840	11.036	11.036

MagIC Net

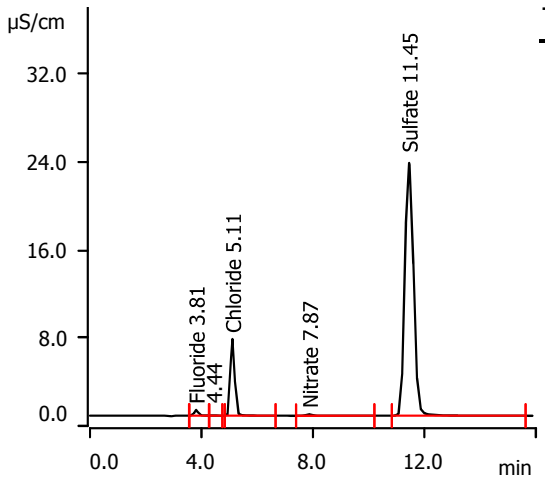
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-5
Sample type . . . . . Sample
Determination start 2024-06-20 17:27:34
Dilution factor 1.00

Anions

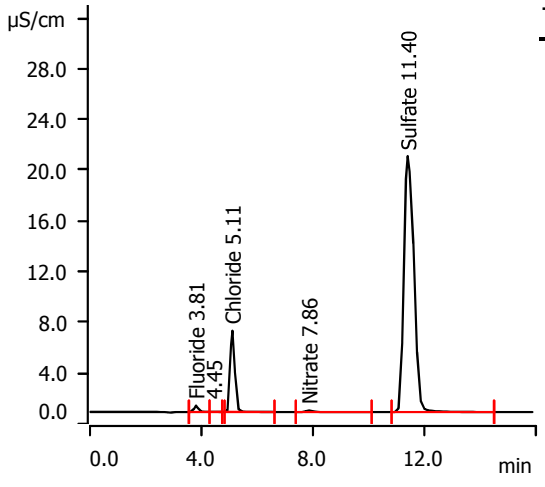


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0857	0.168	0.168
5.11	Chloride	1.1862	3.959	3.959
7.87	Nitrate	0.0469	0.107	0.107
11.45	Sulfate	8.3763	33.213	33.213

Sample data

Ident FC16591-6
Sample type . . . . . Sample
Determination start 2024-06-20 17:48:09
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.81	Fluoride	0.0861	0.169	0.169
5.11	Chloride	1.1833	3.950	3.950
7.86	Nitrate	0.0459	0.106	0.106
11.40	Sulfate	8.3639	33.164	33.164

MagIC Net

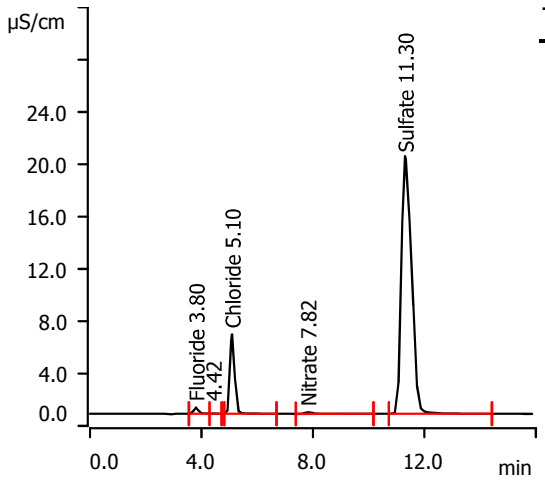
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-7
Sample type . . . . . Sample
Determination start 2024-06-20 18:08:45
Dilution factor 1.00

Anions

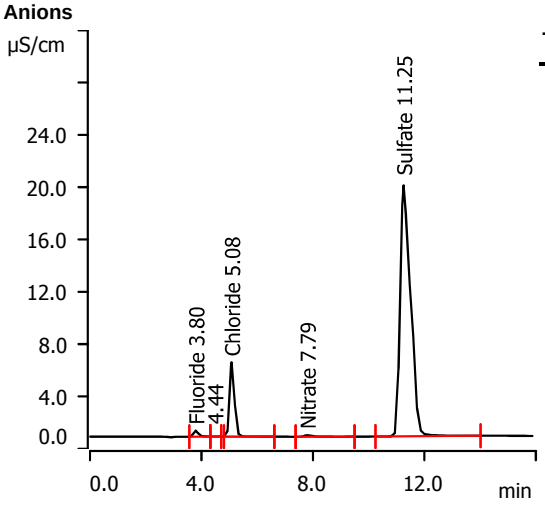


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	0.0861	0.169	0.169
5.10	Chloride	1.1667	3.898	3.898
7.82	Nitrate	0.0474	0.107	0.107
11.30	Sulfate	8.3121	32.958	32.958

Sample data

Ident FC16591-8
Sample type . . . . . Sample
Determination start 2024-06-20 18:29:19
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.80	Fluoride	0.0839	0.165	0.165
5.08	Chloride	1.1510	3.850	3.850
7.79	Nitrate	0.0465	0.106	0.106
11.25	Sulfate	8.3206	32.992	32.992

MagIC Net

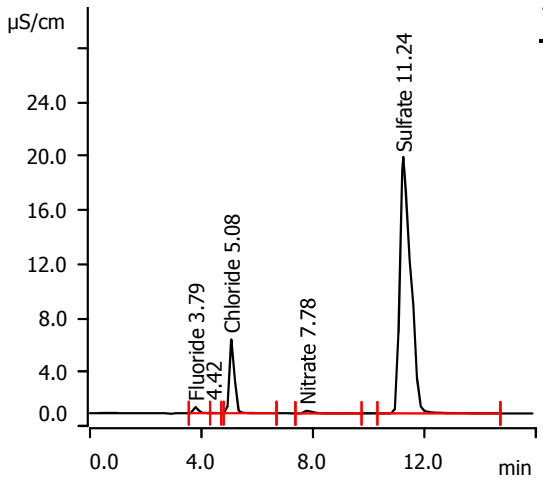
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-9
Sample type . . . . . Sample
Determination start 2024-06-20 18:49:54
Dilution factor 1.00

Anions

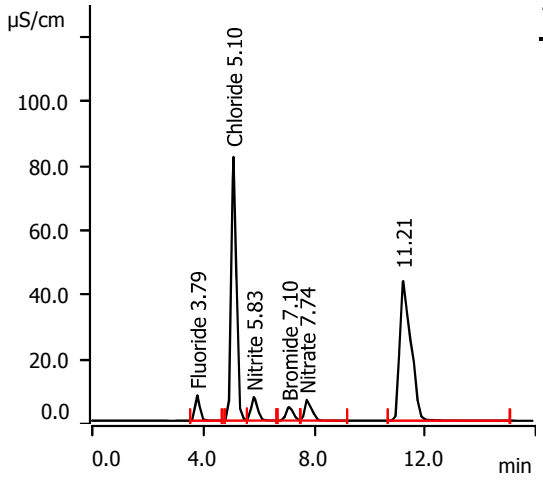


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	0.0874	0.171	0.171
5.08	Chloride	1.1439	3.827	3.827
7.78	Nitrate	0.0680	0.133	0.133
11.24	Sulfate	8.4857	33.647	33.647

Sample data

Ident FC16591-9S3
Sample type . . . . . Sample
Determination start 2024-06-20 19:10:29
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	1.4281	2.622	2.622
5.10	Chloride	17.1470	53.730	53.730
5.83	Nitrite	1.8994	2.643	2.643
7.10	Bromide	1.2659	9.410	9.410
7.74	Nitrate	1.9497	2.473	2.473

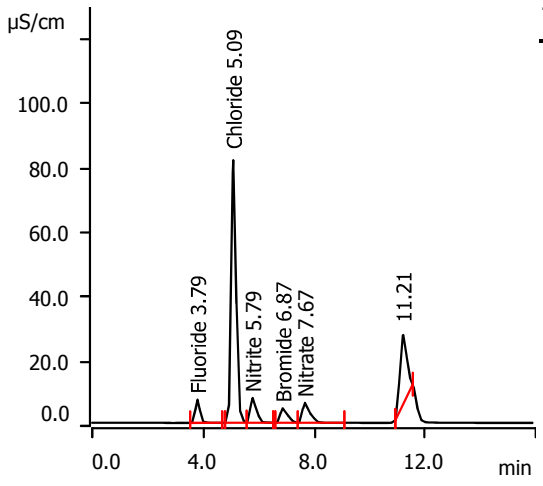
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-20 19:31:04
Dilution factor 1.00

Anions

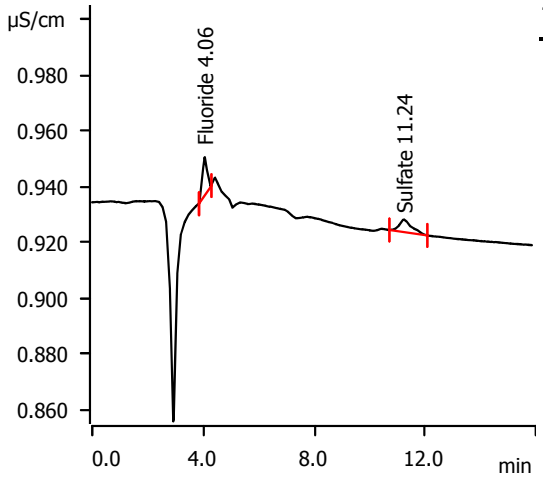


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	1.2883	2.366	2.366
5.09	Chloride	16.2699	50.994	50.994
5.79	Nitrite	1.9006	2.645	2.645
6.87	Bromide	1.3083	9.721	9.721
7.67	Nitrate	1.9010	2.412	2.412

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-20 19:51:46
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.06	Fluoride	0.0026	0.017	0.017
11.24	Sulfate	0.0023	0.005	0.005

MagIC Net

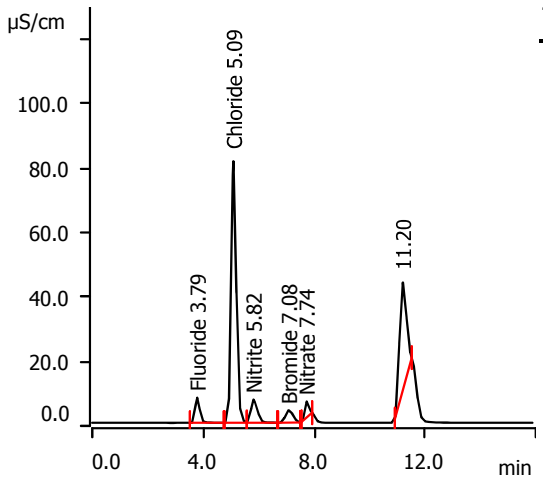
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-9S4
Sample type . . . . . Sample
Determination start 2024-06-20 20:12:22
Dilution factor 1.00

Anions

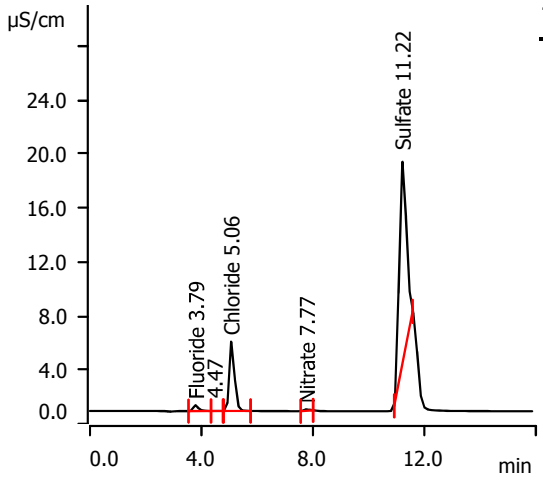


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	1.4351	2.635	2.635
5.09	Chloride	17.1518	53.745	53.745
5.82	Nitrite	1.9014	2.646	2.646
7.08	Bromide	1.2244	9.105	9.105
7.74	Nitrate	0.9137	1.185	1.185

Sample data

Ident FC16591-10
Sample type . . . . . Sample
Determination start 2024-06-20 20:33:05
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	0.0896	0.176	0.176
5.06	Chloride	1.1225	3.761	3.761
7.77	Nitrate	0.0234	0.078	0.078
11.22	Sulfate	4.5200	17.920	17.920

MagIC Net

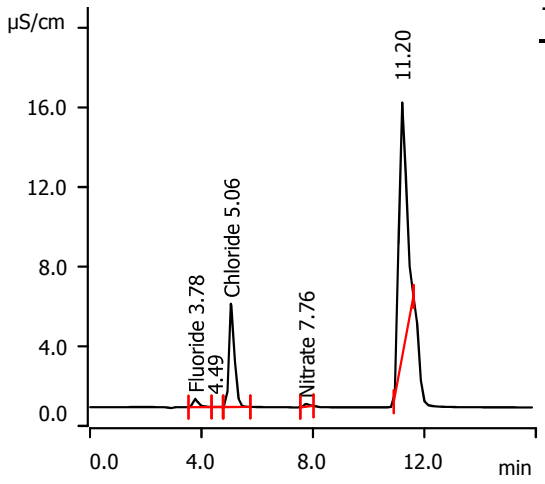
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16591-11
Sample type . . . . . Sample
Determination start 2024-06-20 20:53:41
Dilution factor 1.00

Anions

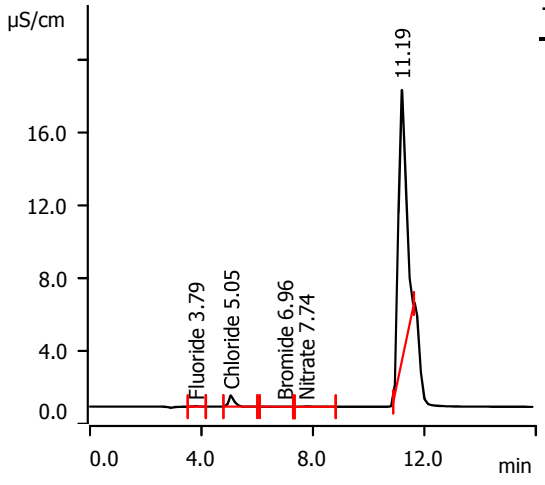


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0888	0.174	0.174
5.06	Chloride	1.1587	3.873	3.873
7.76	Nitrate	0.0301	0.086	0.086

Sample data

Ident FC16592-1
Sample type . . . . . Sample
Determination start 2024-06-20 21:14:15
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.79	Fluoride	0.0064	0.023	0.235
5.05	Chloride	0.1384	0.692	6.921
6.96	Bromide	0.0028	0.130	1.296
7.74	Nitrate	0.0110	0.062	0.622

MagIC Net

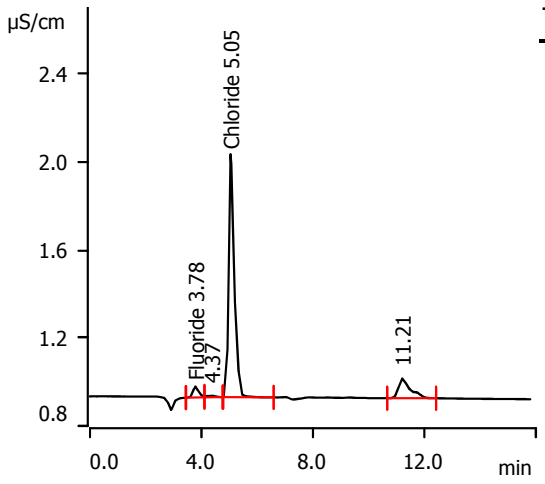
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16592-3
Sample type . . . . . Sample
Determination start 2024-06-20 21:34:35
Dilution factor 10.00

Anions

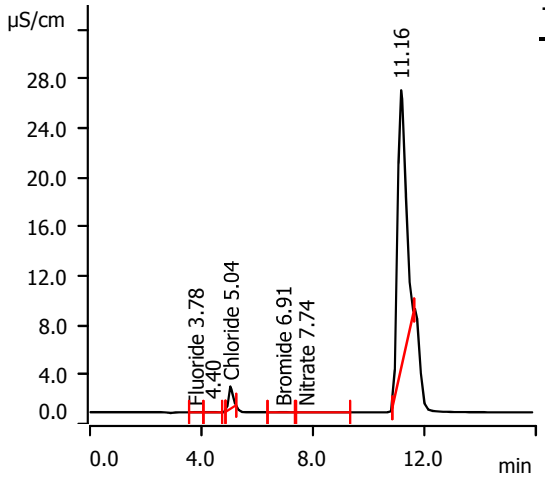


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0114	0.033	0.325
5.05	Chloride	0.2505	1.042	10.417

Sample data

Ident FC16590-1
Sample type . . . . . Sample
Determination start 2024-06-20 21:54:55
Dilution factor 100.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0014	0.014	1.435
5.04	Chloride	0.2987	1.192	119.172
6.91	Bromide	0.0019	0.123	12.280
7.74	Nitrate	0.0020	0.051	5.098

MagIC Net

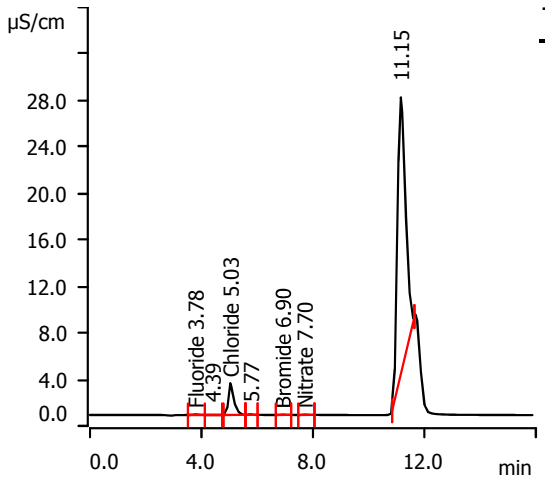
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16590-1S5
Sample type . . . . . Sample
Determination start 2024-06-20 22:15:16
Dilution factor 100.00

Anions

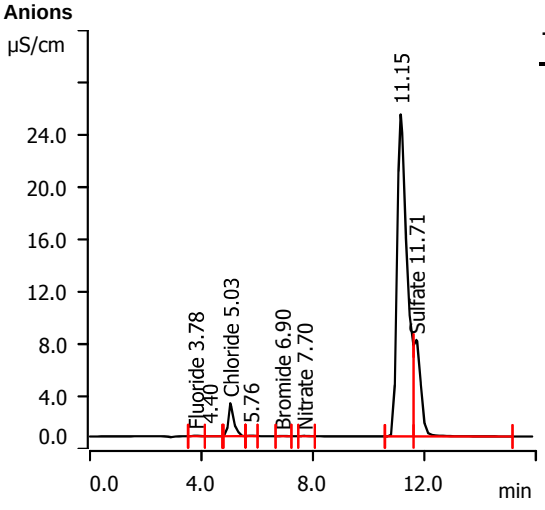


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0108	0.032	3.156
5.03	Chloride	0.5961	2.119	211.936
6.90	Bromide	0.0068	0.159	15.940
7.70	Nitrate	0.0083	0.059	5.886

Sample data

Ident FC16590-1S6
Sample type . . . . . Sample
Determination start 2024-06-20 22:35:38
Dilution factor 100.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0108	0.031	3.143
5.03	Chloride	0.5533	1.986	198.580
6.90	Bromide	0.0065	0.157	15.715
7.70	Nitrate	0.0079	0.058	5.834
11.71	Sulfate	2.1505	8.523	852.345

MagIC Net

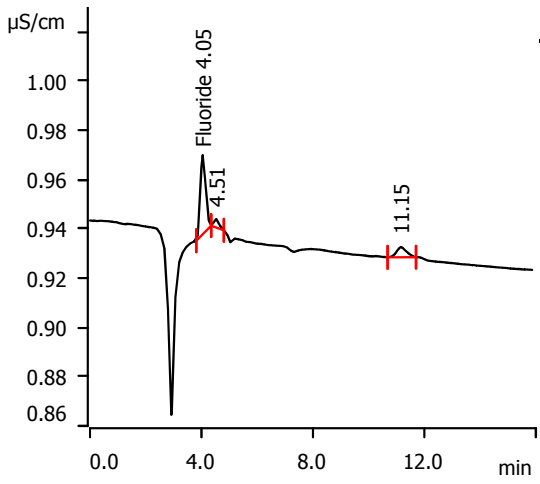
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-06-20 22:55:59
Dilution factor 1.00

Anions

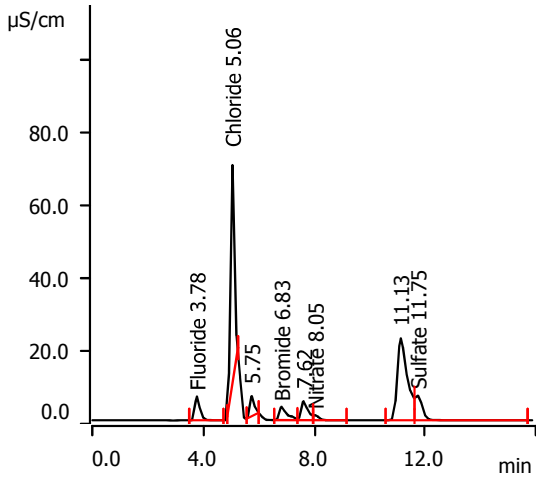


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.05	Fluoride	0.0071	0.025	0.025

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-06-20 23:16:38
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	1.3087	2.403	2.403
5.06	Chloride	9.5673	30.094	30.094
6.83	Bromide	1.2018	8.939	8.939
8.05	Nitrate	0.3080	0.431	0.431
11.75	Sulfate	2.0794	8.242	8.242

MagIC Net

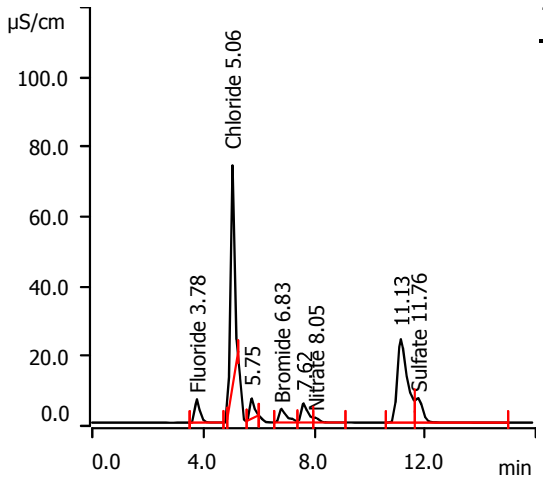
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-20 23:37:14
Dilution factor 1.00

Anions

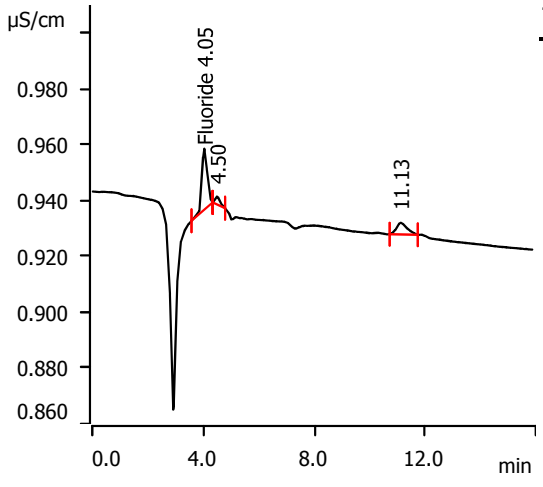


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	1.3407	2.462	2.462
5.06	Chloride	10.1013	31.759	31.759
6.83	Bromide	1.2745	9.473	9.473
8.05	Nitrate	0.3200	0.446	0.446
11.76	Sulfate	2.1828	8.652	8.652

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-20 23:57:56
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.05	Fluoride	0.0049	0.021	0.021

MagIC Net

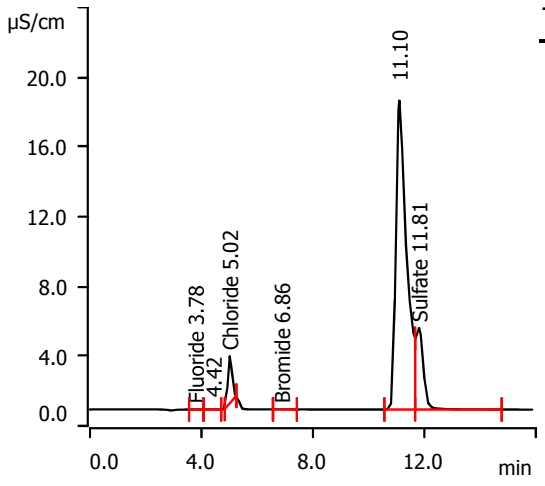
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16588-4
Sample type . . . . . Sample
Determination start 2024-06-21 00:18:31
Dilution factor 200.00

Anions

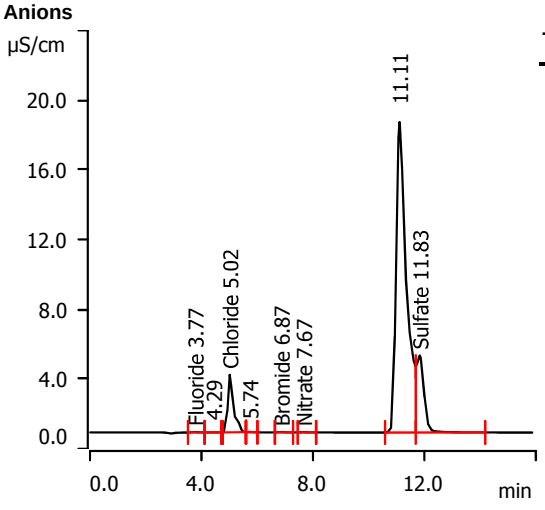


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.78	Fluoride	0.0006	0.013	2.581
5.02	Chloride	0.4602	1.695	339.097
6.86	Bromide	0.0019	0.123	24.617
11.81	Sulfate	1.4739	5.840	1168.072

Sample data

Ident FC16588-4S1
Sample type . . . . . Sample
Determination start 2024-06-21 00:38:50
Dilution factor 200.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.0044	0.020	3.973
5.02	Chloride	0.7496	2.598	519.569
6.87	Bromide	0.0044	0.141	28.284
7.67	Nitrate	0.0040	0.053	10.695
11.83	Sulfate	1.4125	5.597	1119.361

MagIC Net

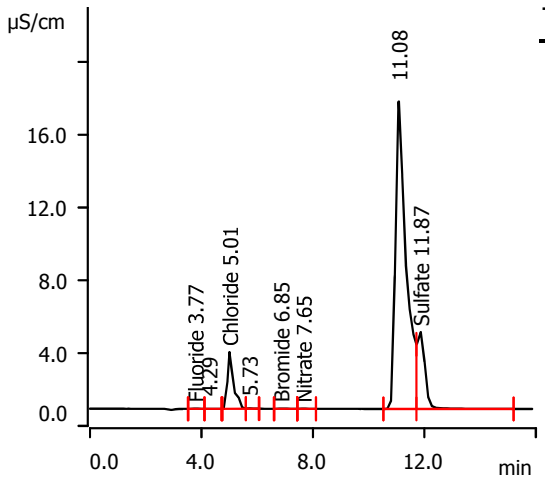
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16588-4S2
Sample type . . . . . Sample
Determination start 2024-06-21 00:59:12
Dilution factor 200.00

Anions

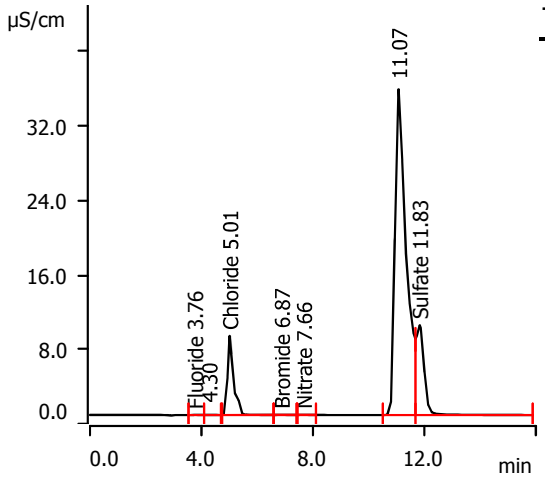


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.0049	0.021	4.157
5.01	Chloride	0.7440	2.580	516.065
6.85	Bromide	0.0049	0.145	29.035
7.65	Nitrate	0.0038	0.053	10.639
11.87	Sulfate	1.3868	5.495	1098.999

Sample data

Ident FC16589-2
Sample type . . . . . Sample
Determination start 2024-06-21 01:19:33
Dilution factor 50.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	0.0026	0.017	0.829
5.01	Chloride	2.0185	6.555	327.729
6.87	Bromide	0.0040	0.139	6.940
7.66	Nitrate	0.0043	0.054	2.690
11.83	Sulfate	3.2004	12.687	634.367

MagIC Net

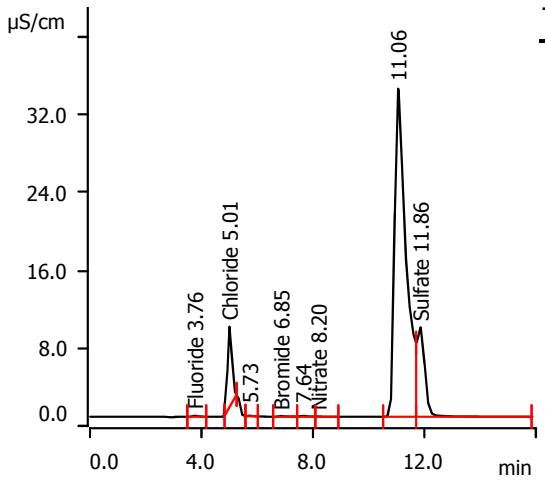
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16589-2S3
Sample type . . . . . Sample
Determination start 2024-06-21 01:39:55
Dilution factor 50.00

Anions

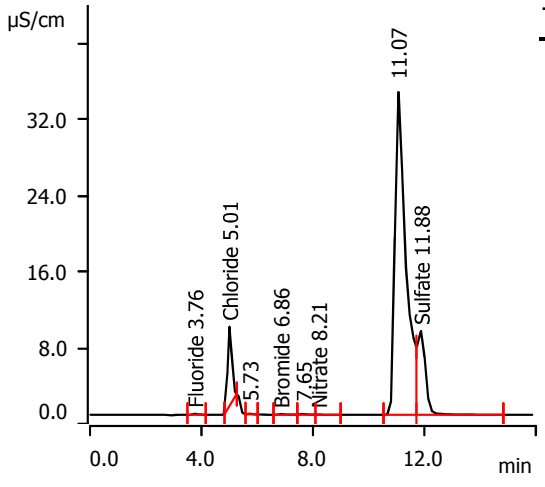


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	0.0213	0.051	2.537
5.01	Chloride	1.4399	4.750	237.516
6.85	Bromide	0.0222	0.272	13.597
8.20	Nitrate	0.0052	0.055	2.748
11.86	Sulfate	3.0803	12.211	610.543

Sample data

Ident FC16589-2S4
Sample type . . . . . Sample
Determination start 2024-06-21 02:00:16
Dilution factor 50.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	0.0210	0.050	2.511
5.01	Chloride	1.4141	4.670	233.505
6.86	Bromide	0.0216	0.268	13.399
8.21	Nitrate	0.0052	0.055	2.747
11.88	Sulfate	2.9982	11.885	594.270

MagIC Net

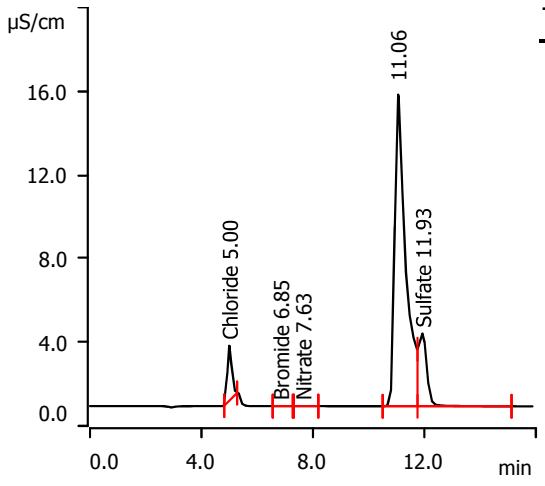
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16589-3
Sample type . . . . . Sample
Determination start 2024-06-21 02:20:36
Dilution factor 200.00

Anions

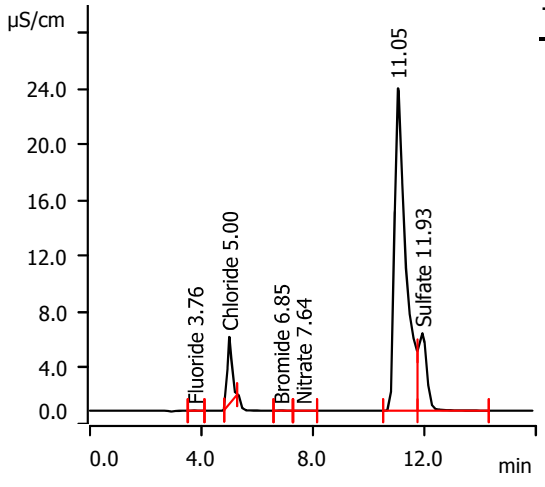


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.00	Chloride	0.4636	1.706	341.219
6.85	Bromide	0.0018	0.122	24.469
7.63	Nitrate	0.0020	0.051	10.199
11.93	Sulfate	1.2023	4.763	952.649

Sample data

Ident FC16589-4
Sample type . . . . . Sample
Determination start 2024-06-21 02:40:58
Dilution factor 100.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	0.0018	0.015	1.497
5.00	Chloride	0.8472	2.902	290.220
6.85	Bromide	0.0034	0.134	13.395
7.64	Nitrate	0.0007	0.049	4.937
11.93	Sulfate	1.9169	7.597	759.707

MagIC Net

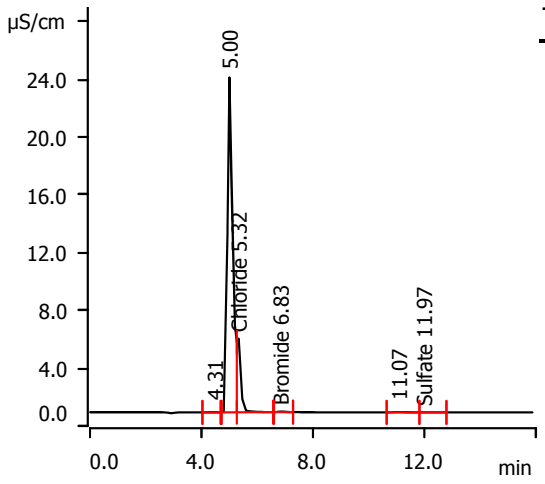
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16589-6
Sample type . . . . . Sample
Determination start 2024-06-21 03:01:19
Dilution factor 500.00

Anions

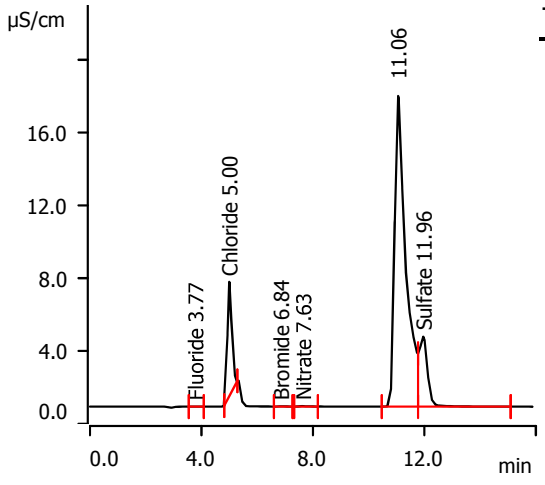


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.32	Chloride	0.8226	2.826	1412.761
6.83	Bromide	0.0122	0.199	99.525
11.97	Sulfate	0.0019	0.003	1.513

Sample data

Ident FC16589-7
Sample type . . . . . Sample
Determination start 2024-06-21 03:21:41
Dilution factor 200.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.0009	0.013	2.675
5.00	Chloride	1.1146	3.736	747.202
6.84	Bromide	0.0028	0.130	25.951
7.63	Nitrate	0.0068	0.057	11.394
11.96	Sulfate	1.3387	5.304	1060.871

MagIC Net

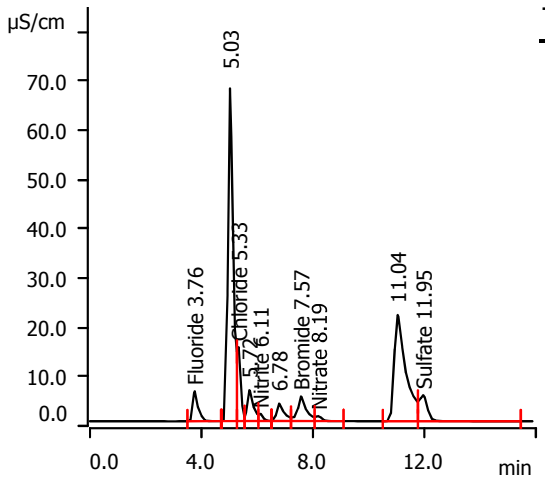
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-21 03:42:02
Dilution factor 1.00

Anions

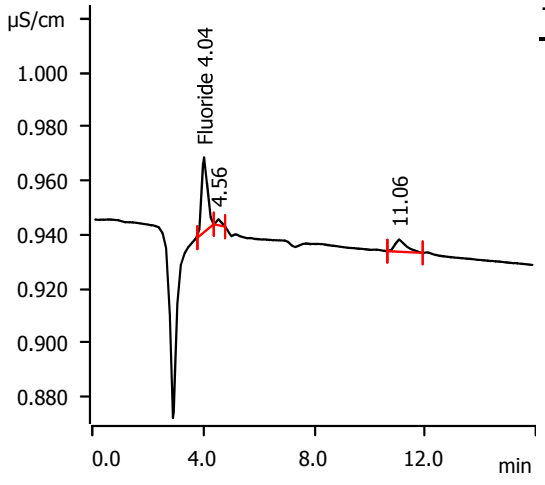


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	1.3053	2.397	2.397
5.33	Chloride	2.3058	7.451	7.451
6.11	Nitrite	0.2671	0.400	0.400
7.57	Bromide	1.7710	13.121	13.121
8.19	Nitrate	0.2674	0.381	0.381
11.95	Sulfate	1.8326	7.263	7.263

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-21 04:02:45
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.04	Fluoride	0.0066	0.024	0.024

MagIC Net

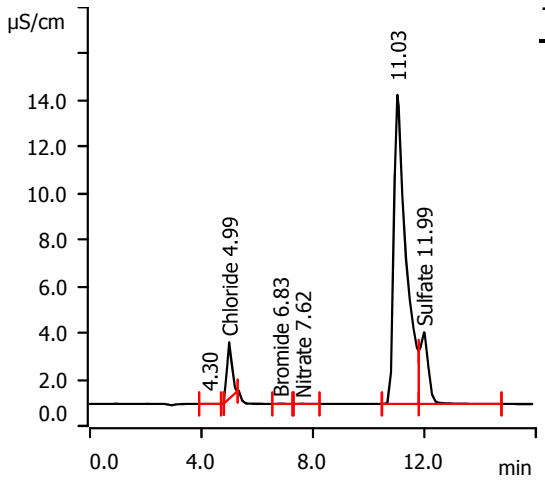
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident FC16589-8
Sample type . . . . . Sample
Determination start 2024-06-21 04:23:20
Dilution factor 200.00

Anions

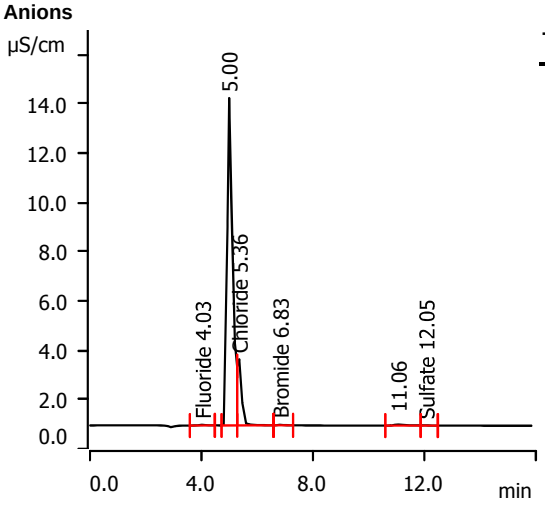


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.99	Chloride	0.4646	1.709	341.849
6.83	Bromide	0.0018	0.122	24.495
7.62	Nitrate	0.0015	0.050	10.060
11.99	Sulfate	1.0751	4.259	851.803

Sample data

Ident FC16572-1
Sample type . . . . . Sample
Determination start 2024-06-21 04:43:42
Dilution factor 500.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.03	Fluoride	0.0064	0.023	11.730
5.36	Chloride	0.4625	1.702	851.250
6.83	Bromide	0.0058	0.152	75.773
12.05	Sulfate	0.0032	0.008	3.971

MagIC Net

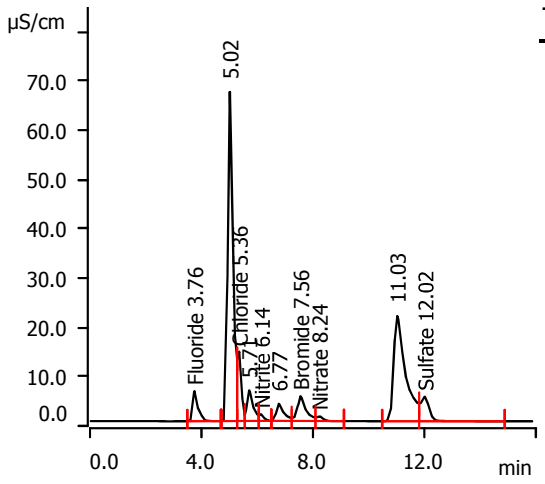
Summary Report

2024-06-21 1:05:28
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-21 05:04:03
Dilution factor 1.00

Anions

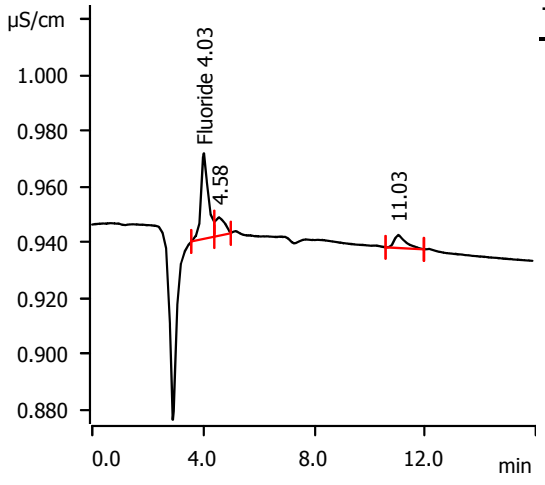


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	1.3206	2.425	2.425
5.36	Chloride	2.3045	7.447	7.447
6.14	Nitrite	0.2590	0.389	0.389
7.56	Bromide	1.7776	13.169	13.169
8.24	Nitrate	0.2566	0.368	0.368
12.02	Sulfate	1.7698	7.014	7.014

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-21 05:24:45
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.03	Fluoride	0.0092	0.029	0.029

IC STANDARDS PREP LOG

STANDARD NAME	ANALYTES	STOCK LOT #	STOCK VENDOR	STOCK EXP. DATE	STOCK CONC. (mg/l)	VOLUME ADDED (ml)	TOTAL VOLUME (ml)	STANDARD CONC. (mg/l)	PREP DATE	INITIALS	STD LOT #	EXP. DATE
1ꞌNO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/18/2024	gn	1IC110	6/19/2024
1ꞌNO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/18/2024	gn	1IC111	6/19/2024
CCV	NO2/NO3	1IC110/111	REF	6/19/2024	100	5	200	2.5	6/18/2024	gn	1IC112	6/19/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/18/2024	gn	1IC112	6/19/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/18/2024	gn	1IC112	6/19/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/18/2024	gn	1IC112	6/19/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/18/2024	gn	1IC112	6/19/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/18/2024	gn	1IC113	6/19/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/18/2024	gn	1IC113	6/19/2024
B1	Br	---	---	---	400	---	---	10	6/18/2024	gn	1IC113	6/19/2024
1ꞌNO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/19/2024	gn	1IC114	6/20/2024
1ꞌNO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/19/2024	gn	1IC115	6/20/2024
CCV	NO2/NO3	1IC114/115	REF	6/20/2024	100	5	200	2.5	6/19/2024	gn	1IC116	6/20/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/19/2024	gn	1IC116	6/20/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/19/2024	gn	1IC116	6/20/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/19/2024	gn	1IC116	6/20/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/19/2024	gn	1IC116	6/20/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/19/2024	gn	1IC117	6/20/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/19/2024	gn	1IC117	6/20/2024
B1	Br	---	---	---	400	---	---	10	6/19/2024	gn	1IC117	6/20/2024
1ꞌNO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/20/2024	gn	1IC118	6/21/2024
1ꞌNO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/20/2024	gn	1IC119	6/21/2024
CCV	NO2/NO3	1IC118/119	REF	6/21/2024	100	5	200	2.5	6/20/2024	gn	1IC120	6/21/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/20/2024	gn	1IC120	6/21/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/20/2024	gn	1IC120	6/21/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/20/2024	gn	1IC120	6/21/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/20/2024	gn	1IC120	6/21/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/20/2024	gn	1IC121	6/21/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/20/2024	gn	1IC121	6/21/2024
B1	Br	---	---	---	400	---	---	10	6/20/2024	gn	1IC121	6/21/2024

Method: EPA300.0 / SW846 9056A (circle one)

Date:	6/20/2024 9:41	**Prep Batchs:**	40147	**Vial lot#**	753964-H 23584	**ICAL:**	---
Analyst:	GN	**Analytical Batch:**	97719	**Eluent lot#**	GN37268	**ICV:**	---
Instrument:	IC 4	**Calibration Date:**	5/20/2024	**Suppressor regen. lot#**	GN37128	**CCV:**	1IC120
Inst. File Name:	42024062001.csv	**Pump pressure:**	8.66MPa	**Filter lot#**	---	**QC:**	1IC121

Sample#						**Ions Needed**						**Results OK or Dilution Needed**						**Comments**
Rinse	Bot#	Matrix	Scon	DF	Filter (y/n)	F	Cl	NO2	Br	NO3	SO4	F	Cl	NO2	Br	NO3	SO4	Scon Meter: Scon 7
MB1	---	AQ	---	1	N	x	x	x	x	x	x							
B1	---	AQ	---	1	N	x	x	x	x	x	x							
FC16561-13	10	AQ	528uS	1	N		x			x	x							
FC16561-15	10	AQ	795uS	5	N		x			x	x							
FC16561-8	10	AQ	2000uS	10	N		x			x	x							
FC16561-5	27	AQ	600uS	1	N		x			x	x							
FC16561-5S1	27	AQ	600uS	1	N	x	x	x	x	x	x							
FC16561-5S2	27	AQ	600uS	1	N	x	x	x	x	x	x							
FC16559-1	10	AQ	4292uS	100	N					x	x							
FC16559-2	10	AQ	4220uS	100	N					x	x							
CCV	---	AQ	---	1	N	x	x	x	x	x	x							
CCB	---	AQ	---	1	N	x	x	x	x	x	x							
FC16591-1	6	AQ	322uS	1	N		x	x	x	x	x							
FC16591-2	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-3	6	AQ	350uS	1	N		x	x	x	x	x							
FC16591-4	6	AQ	390uS	1	N		x	x	x	x	x							
FC16591-5	6	AQ	360uS	1	N		x	x	x	x	x							DNR Instrument Issue
FC16591-6	6	AQ	353uS	1	N		x	x	x	x	x							DNR
FC16591-7	6	AQ	353uS	1	N		x	x	x	x	x							DNR
FC16591-8	6	AQ	346uS	1	N		x	x	x	x	x							DNR
FC16591-9	16	AQ	355uS	1	N		x	x	x	x	x							DNR
FC16591-9S3	16	AQ	355uS	1	N	x	x	x	x	x	x							DNR
CCV	---	AQ	---	1	N	x	x	x	x	x	x						v	
CCB	---	AQ	---	1	N	x	x	x	x	x	x							
FC16591-9S4	16	AQ	355uS	1	N	x	x	x	x	x	x							DNR
FC16591-10	6	AQ	360uS	1	N		x	x	x	x	x							DNR
FC16591-11	6	AQ	331uS	1	N		x	x	x	x	x							DNR
FC16592-1	10	AQ	1264uS	10	N		x	x			x							DNR

Method: EPA300.0 / SW846 9056A (circle one)

Date:	6/20/2024 9:41	**Prep Batchs:**	40147	**Vial lot#**	753964-H 23584	**ICAL:**	---
Analyst:	**GN**	**Analytical Batch:**	97719	**Eluent lot#**	GN37268	**ICV:**	---
Instrument:	**IC 4**	**Calibration Date:**	5/20/2024	**Suppressor regen. lot#**	GN37128	**CCV:**	1IC120
Inst. File Name:	42024062001.csv	**Pump pressure:**	8.66MPa	**Filter lot#**	---	**QC:**	1IC121

Sample#						**Ions Needed**						**Results OK or Dilution Needed**						**Comments**
	Bot#	Matrix	Scon	DF	Filter (y/n)	F	Cl	NO2	Br	NO3	SO4	F	Cl	NO2	Br	NO3	SO4	Scon Meter: Scon 7
FC16592-3	10	AQ	1300uS	10	N		x	x		x								DNR
FC16590-1	18	AQ	8869uS	100	N	x	x	x	x	x	x							DNR
FC16590-1S5	18	AQ	8869uS	100	N	x	x	x	x	x	x							DNR
FC16590-1S6	18	AQ	8869uS	100	N	x	x	x	x	x	x							DNR
MB1	---	AQ	---	1	N	x	x	x	x	x	x							DNR
B1	---	AQ	---	1	N	x	x	x	x	x	x							DNR
CCV	---	AQ	---	1	N	x	x	x	x	x	x							DNR
CCB	---	AQ	---	1	N	x	x	x	x	x	x							DNR
FC16588-4	18	AQ	11.8mS	200	N	x	x	x	x	x	x							DNR
FC16588-4S1	18	AQ	11.8mS	200	N	x	x	x	x	x	x							DNR
FC16588-4S2	18	AQ	11.8mS	200	N	x	x	x	x	x	x							DNR
FC16589-2	18	AQ	7310uS	50	N	x	x	x	x	x	x							DNR
FC16589-2S3	18	AQ	7310uS	50	N	x	x	x	x	x	x							DNR
FC16589-2S4	18	AQ	7310uS	50	N	x	x	x	x	x	x							DNR
FC16589-3	7	AQ	11.28mS	200	N	x	x	x	x	x	x							DNR
FC16589-4	7	AQ	8729uS	100	N	x	x	x	x	x	x							DNR
FC16589-6	7	AQ	24.3mS	500	N	x	x	x	x	x	x							DNR
FC16589-7	7	AQ	13.5mS	200	N	x	x	x	x	x	x							DNR
CCV	---	AQ	---	1	N	x	x	x	x	x	x							DNR
CCB	---	AQ	---	1	N	x	x	x	x	x	x							DNR
FC16589-8	7	AQ	11.7mS	200	N	x	x	x	x	x	x							DNR
FC16572-1	13	AQ	16.2mS	500	N		x											DNR
CCV	---	AQ	---	1	N	x	x	x	x	x	x							DNR
CCB	---	AQ	---	1	N	x	x	x	x	x	x							DNR

TOC Analysis Logbook, Aqueous

Date:	6/21/2024	Methods:	SM5310B SW8469060A	pH paper Lot#	230320	ICAL:	List in comments
Analyst:	F. N.	Method File:	NPOC - met.	Pipette ID#	UU36927	ICV:	TOC-4336
Instrumet	TOC3	Cal. File:	4/17/2024	Pipette ID#	UU42734	CCV:	TOC-4337
Instr. File name	c20240621w1.txt	GN Batch:	GN97733	Pipette ID#	-	QC:	WC2232
Filter Lot#	-						

Autosampler Position	Sample ID	Bottle#	pH, sU	Injected Volume, ml	Manual Dilution	Instrument Dilution	GP Batch	Comments
1	BLANK	-	-	50 uL	1	1	-	
2	500	-	1.0'	40 uL	1	15	-	} TOC-4338
3	CCV	-	1.5	50 uL	1	1	-	
4	GP40151-MB1	-	-	50 uL	1	1	GP40151	
5	GP40151-B1	-	1.5	50 uL	1	1	GP40151	
6	FC16494-14	1	1.5	50 uL	1	1	GP40151	
7	FC16494-15	1	1.5	50 uL	1	1	GP40151	
8	GP40151-S1	2	1.5	50 uL	1	1	GP40151	
8	GP40151-S2	2	1.5	50 uL	1	1	GP40151	
9	FC16494-16	1	1.5	40 uL	1	5	GP40151	} DNR! Sample needs confirmation
10	FC16494-17	1	1.5	50 uL	1	1	GP40151	
11	FC16494-18	1	1.0*	40 uL	1	38	GP40151	} DNR! Sample needs confirmation
12	FC16494-19	1	1.5	40 uL	1	4	GP40151	} DNR! Sample needs confirmation
13	CCV	-	1.5	50 uL	1	1	-	
14	CCB	-	-	50 uL	1	1	-	
15	FC16494-20	1	1.5	50 uL	1	1	GP40151	
16	FC16494-21	1	1.5	50 uL	1	1	GP40151	
17	FC16499-1	1	1.5	50 uL	1	1	GP40151	
18	FC16499-2	1	1.5	50 uL	1	1	GP40151	} black sediment/centrifuged & decanted
19	FC16499-3	1	1.5	50 uL	1	1	GP40151	
20	FC16499-4	1	1.5	50 uL	1	1	GP40151	
21	FC16499-5	1	1.5	50 uL	1	1	GP40151	
22	FC16499-6	1	1.5	50 uL	1	1	GP40151	
23	FC16589-3	1	1.0*	50 uL	1	1	GP40151	
24	FC16589-4	1	1.0*	50 uL	1	1	GP40151	
25	CCV	-	1.5	50 uL	1	1	-	(*) => Initial PH =/> 2 , added drops conc.
26	CCB	-	-	50 uL	1	1	-	HCL to acidify. / HCL lot ID# : 24008337
27	FC16589-2	1	1.0*	50 uL	1	1	GP40151	
28	GP40151-S3	2	1.0*	50 uL	1	1	GP40151	
29	GP40151-S4	3	1.0*	50 uL	1	1	GP40151	
30	FC16589-6	1	1.0*	50 uL	1	1	GP40151	
30	FC16589-7	1	1.0*	50 uL	1	1	GP40151	
32	FC16589-8	1	1.0*	50 uL	1	1	GP40151	
33	FC16462-2	1	1.0*	50 uL	1	1	GP40152	

TOC Analysis Logbook, Aqueous

Date:	6/21/2024	Methods:	SM5310B SW8469060A	pH paper Lot#	230320	ICAL:	List in comments
Analyst:	F. N.	Method File:	NPOC - met.	Pipette ID#	UU36927	ICV:	TOC-4336
Instrumet	TOC3	Cal. File:	4/17/2024	Pipette ID#	UU42734	CCV:	TOC-4337
Instr. File name	c20240621w1.txt	GN Batch:	GN97733	Pipette ID#	-	QC:	WC2232
Filter Lot#	-						

Autosampler Position	Sample ID	Bottle#	pH, sU	Injected Volume, ml	Manual Dilution	Instrument Dilution	GP Batch	Comments
34	FC16462-3	1	1.0*	50 uL	1	1	GP40152	
35	FC16559-1	1	1.0*	40 uL	1	9	GP40152	} DNR! Sample needs confirmation
36	FC16559-2	1	1.0*	40 uL	1	9	GP40152	} DNR! Sample needs confirmation
37	CCV	-	1.5	50 uL	1	1	-	
38	GP40152-MB1	-	-	50 uL	1	1	GP40152	
39	GP40152-B1	-	1.5	50 uL	1	1	GP40152	
40	FC16559-3	1	1.5	50 uL	1	1	GP40152	
41	GP40152-S1	2	1.0'	50 uL	1	1	GP40152	
42	GP40152-S2	3	1.0'	50 uL	1	1	GP40152	
43	FC16559-4	1	1.0*	40 uL	1	5	GP40152	} DNR! Sample needs confirmation
44	FC16559-5	1	1.5	50 uL	1	1	GP40152	
45	FC16559-6	1	1.0*	40 uL	1	4	GP40152	} DNR! Sample needs confirmation
46	FC16559-7	1	1.5	50 uL	1	1	GP40152	
47	FC16559-8	1	1.5	50 uL	1	1	GP40152	
48	FC16561-2	1	1.5	50 uL	1	1	GP40152	
49	CCV	-	1.5	50 uL	1	1	-	
50	CCB	-	-	50 uL	1	1	-	
51	FC16561-3	1	1.5	50 uL	1	1	GP40152	
52	FC16561-4	1	1.5	50 uL	1	1	GP40152	
53	FC16561-5	1	1.5	50 uL	1	1	GP40152	
54	GP40152-S3	2	1.0'	50 uL	1	1	GP40152	
55	GP40152-S4	3	1.0'	50 uL	1	1	GP40152	
56	FC16561-6	1	1.0*	50 uL	1	1	GP40152	} DNR! Sample needs higher dilution
57	FC16561-7	1	1.5	50 uL	1	1	GP40152	
58	FC16561-8	1	1.0*	50 uL	1	1	GP40152	} DNR! Sample needs higher dilution
59	FC16561-13	1	1.5	50 uL	1	1	GP40152	
60	FC16561-15	1	1.5	50 uL	1	1	GP40152	
61	CCV	-	1.5	50 uL	1	1	-	
62	CCB	-	-	50 uL	1	1	-	
37	CCV	-	1.5	50 uL	1	1	-	
38	MB1	-	-	50 uL	1	1	-	} MB1 = CCB in report.
39	B1	-	1.5	50 uL	1	1	-	} DNR! For confirmation only
9	FC16494-16	1	1.5	50 uL	1	5	-	
11	FC16494-18	1	1.0*	50 uL	1	40	GP40151	

TOC Analysis Logbook, Aqueous

Date:	6/21/2024	Methods:	SM5310B SW8469060A	pH paper Lot#	230320	ICAL:	List in comments
Analyst:	F. N.	Method File:	NPOC - met.	Pipette ID#	UU36927	ICV:	TOC-4336
Instrumet	TOC3	Cal. File:	4/17/2024	Pipette ID#	UU42734	CCV:	TOC-4337
Instr. File name	c20240621w1.txt	GN Batch:	GN97733	Pipette ID#	-	QC:	WC2232
Filter Lot#	-						

Autosampler Position	Sample ID	Bottle#	pH, sU	Injected Volume, ml	Manual Dilution	Instrument Dilution	GP Batch	Comments
7	FC16494-19	1	1.5	50 uL	1	4	GP40151	
8	FC16559-1	1	1.5	50 uL	1	10	GP40152	
9	FC16559-2	1	1.5	50 uL	1	10	GP40152	
13	FC16559-4	1	1.0*	50 uL	1	5	GP40152	
16	FC16559-6	1	1.0*	50 uL	1	4	GP40152	
17	FC16561-6	1	1.0*	50 uL	1	2	GP40152	
18	FC16561-8	1	1.0*	50 uL	1	2	GP40152	
14	CCV	-	1.5	50 uL	1	1	-	
15	CCB	-	-	50 uL	1	1	-	

	Type	Analysis	Sample Name	Origin	Manual Dilution	Result	Comment	Status	Date / Time	Vial
1	Unknown	NPOC	BLANK	NPOC.met	1.000	NPOC:-0.1217mg/L	SM5310B SW846 9060A	Completed	6/21/2024 9:21:36 PM	1
2	Unknown	NPOC	500	NPOC.met	1.000	NPOC:478.7mg/L	SM5310B SW846 9060A	Completed	6/21/2024 9:57:47 PM	2
3	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.59mg/L	SM5310B SW846 9060A	Completed	6/21/2024 10:20:05 PM	3
4	Unknown	NPOC	GP40151-MB1	NPOC.met	1.000	NPOC:-0.09006mg/L	SM5310B SW846 9060A	Completed	6/21/2024 10:41:14 PM	4
5	Unknown	NPOC	GP40151-B1	NPOC.met	1.000	NPOC:14.30mg/L	SM5310B SW846 9060A	Completed	6/21/2024 11:03:16 PM	5
6	Unknown	NPOC	FC16494-14	NPOC.met	1.000	NPOC:4.489mg/L	SM5310B SW846 9060A	Completed	6/21/2024 11:26:11 PM	6
7	Unknown	NPOC	FC16494-15	NPOC.met	1.000	NPOC:2.566mg/L	SM5310B SW846 9060A	Completed	6/21/2024 11:48:57 PM	7
8	Unknown	NPOC	GP40151-S1	NPOC.met	1.000	NPOC:17.81mg/L	SM5310B SW846 9060A	Completed	6/22/2024 12:11:02 AM	8
9	Unknown	NPOC	GP40151-S2	NPOC.met	1.000	NPOC:17.92mg/L	SM5310B SW846 9060A	Completed	6/22/2024 12:32:26 AM	8
10	Unknown	NPOC	FC16494-16	NPOC.met	1.000	NPOC:118.7mg/L	SM5310B SW846 9060A	Completed	6/22/2024 1:08:03 AM	9
11	Unknown	NPOC	FC16494-17	NPOC.met	1.000	NPOC:3.651mg/L	SM5310B SW846 9060A	Completed	6/22/2024 1:28:21 AM	10
12	Unknown	NPOC	FC16494-18	NPOC.met	1.000	NPOC:1021mg/L	SM5310B SW846 9060A	Completed	6/22/2024 2:04:46 AM	11
13	Unknown	NPOC	FC16494-19	NPOC.met	1.000	NPOC:88.76mg/L	SM5310B SW846 9060A	Completed	6/22/2024 2:40:37 AM	12
14	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.79mg/L	SM5310B SW846 9060A	Completed	6/22/2024 3:02:54 AM	13
15	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.05758mg/L	SM5310B SW846 9060A	Completed	6/22/2024 3:24:14 AM	14
16	Unknown	NPOC	FC16494-20	NPOC.met	1.000	NPOC:1.984mg/L	SM5310B SW846 9060A	Completed	6/22/2024 3:46:40 AM	15
17	Unknown	NPOC	FC16494-21	NPOC.met	1.000	NPOC:1.759mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:06:39 AM	16
18	Unknown	NPOC	FC16499-1	NPOC.met	1.000	NPOC:0.2309mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:28:07 AM	17
19	Unknown	NPOC	FC16499-2	NPOC.met	1.000	NPOC:2.255mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:48:52 AM	18
20	Unknown	NPOC	FC16499-3	NPOC.met	1.000	NPOC:1.602mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:10:57 AM	19
21	Unknown	NPOC	FC16499-4	NPOC.met	1.000	NPOC:0.01470mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:29:53 AM	20
22	Unknown	NPOC	FC16499-5	NPOC.met	1.000	NPOC:0.5034mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:51:29 AM	21
23	Unknown	NPOC	FC16499-6	NPOC.met	1.000	NPOC:1.761mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:11:12 AM	22
24	Unknown	NPOC	FC16589-3	NPOC.met	1.000	NPOC:9.187mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:32:21 AM	23
25	Unknown	NPOC	FC16589-4	NPOC.met	1.000	NPOC:25.91mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:54:21 AM	24
26	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.62mg/L	SM5310B SW846 9060A	Completed	6/22/2024 7:19:10 AM	25
27	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.06987mg/L	SM5310B SW846 9060A	Completed	6/22/2024 7:40:14 AM	26
28	Unknown	NPOC	FC16589-2	NPOC.met	1.000	NPOC:8.577mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:01:52 AM	27
29	Unknown	NPOC	GP40151-S3	NPOC.met	1.000	NPOC:24.37mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:24:26 AM	28
30	Unknown	NPOC	GP40151-S4	NPOC.met	1.000	NPOC:24.60mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:46:53 AM	29
31	Unknown	NPOC	FC16589-6	NPOC.met	1.000	NPOC:3.586mg/L	SM5310B SW846 9060A	Completed	6/22/2024 9:10:04 AM	30
32	Unknown	NPOC	FC16589-7	NPOC.met	1.000	NPOC:13.98mg/L	SM5310B SW846 9060A	Completed	6/22/2024 9:32:04 AM	31
33	Unknown	NPOC	FC16589-8	NPOC.met	1.000	NPOC:9.420mg/L	SM5310B SW846 9060A	Completed	6/22/2024 9:53:44 AM	32
34	Unknown	NPOC	FC16462-2	NPOC.met	1.000	NPOC:4.283mg/L	SM5310B SW846 9060A	Completed	6/22/2024 10:17:07 AM	33
35	Unknown	NPOC	FC16462-3	NPOC.met	1.000	NPOC:3.673mg/L	SM5310B SW846 9060A	Completed	6/22/2024 10:40:17 AM	34
36	Unknown	NPOC	FC16559-1	NPOC.met	1.000	NPOC:246.2mg/L	SM5310B SW846 9060A	Completed	6/22/2024 11:15:55 AM	35
37	Unknown	NPOC	FC16559-2	NPOC.met	1.000	NPOC:240.7mg/L	SM5310B SW846 9060A	Completed	6/22/2024 11:51:30 AM	36
38	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.24mg/L	SM5310B SW846 9060A	Completed	6/22/2024 12:16:29 PM	37
39	Unknown	NPOC	GP40152-MB1	NPOC.met	1.000	NPOC:0.00469mg/L	SM5310B SW846 9060A	Completed	6/22/2024 12:37:36 PM	38
40	Unknown	NPOC	GP40152-B1	NPOC.met	1.000	NPOC:14.95mg/L	SM5310B SW846 9060A	Completed	6/22/2024 1:00:09 PM	39

	Type	Analysis	Sample Name	Origin	Manual Dilution	Result	Comment	Status	Date / Time	Vial
41	Unknown	NPOC	FC16559-3	NPOC.met	1.000	NPOC:3.763mg/L	SM5310B SW846 9060A	Completed	6/22/2024 1:23:07 PM	40
42	Unknown	NPOC	GP40152-S1	NPOC.met	1.000	NPOC:19.87mg/L	SM5310B SW846 9060A	Completed	6/22/2024 1:48:17 PM	41
43	Unknown	NPOC	GP40152-S2	NPOC.met	1.000	NPOC:20.13mg/L	SM5310B SW846 9060A	Completed	6/22/2024 2:10:24 PM	42
44	Unknown	NPOC	FC16559-4	NPOC.met	1.000	NPOC:137.3mg/L	SM5310B SW846 9060A	Completed	6/22/2024 2:45:59 PM	43
45	Unknown	NPOC	FC16559-5	NPOC.met	1.000	NPOC:20.40mg/L	SM5310B SW846 9060A	Completed	6/22/2024 3:08:02 PM	44
46	Unknown	NPOC	FC16559-6	NPOC.met	1.000	NPOC:111.6mg/L	SM5310B SW846 9060A	Completed	6/22/2024 3:44:02 PM	45
47	Unknown	NPOC	FC16559-7	NPOC.met	1.000	NPOC:0.3622mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:05:25 PM	46
48	Unknown	NPOC	FC16559-8	NPOC.met	1.000	NPOC:0.2825mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:26:25 PM	47
49	Unknown	NPOC	FC16561-2	NPOC.met	1.000	NPOC:3.213mg/L	SM5310B SW846 9060A	Completed	6/22/2024 4:46:51 PM	48
50	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.95mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:09:10 PM	49
51	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.01327mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:30:23 PM	50
52	Unknown	NPOC	FC16561-3	NPOC.met	1.000	NPOC:4.754mg/L	SM5310B SW846 9060A	Completed	6/22/2024 5:51:25 PM	51
53	Unknown	NPOC	FC16561-4	NPOC.met	1.000	NPOC:1.322mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:13:43 PM	52
54	Unknown	NPOC	FC16561-5	NPOC.met	1.000	NPOC:1.540mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:36:11 PM	53
55	Unknown	NPOC	GP40152-S3	NPOC.met	1.000	NPOC:17.39mg/L	SM5310B SW846 9060A	Completed	6/22/2024 6:58:47 PM	54
56	Unknown	NPOC	GP40152-S4	NPOC.met	1.000	NPOC:17.31mg/L	SM5310B SW846 9060A	Completed	6/22/2024 7:21:13 PM	55
57	Unknown	NPOC	FC16561-6	NPOC.met	1.000	NPOC:33.14mg/L	SM5310B SW846 9060A	Completed	6/22/2024 7:43:44 PM	56
58	Unknown	NPOC	FC16561-7	NPOC.met	1.000	NPOC:6.468mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:07:52 PM	57
59	Unknown	NPOC	FC16561-8	NPOC.met	1.000	NPOC:32.79mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:30:05 PM	58
60	Unknown	NPOC	FC16561-13	NPOC.met	1.000	NPOC:1.557mg/L	SM5310B SW846 9060A	Completed	6/22/2024 8:52:29 PM	59
61	Unknown	NPOC	FC16561-15	NPOC.met	1.000	NPOC:3.899mg/L	SM5310B SW846 9060A	Completed	6/22/2024 9:15:52 PM	60
62	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.83mg/L	SM5310B SW846 9060A	Completed	6/22/2024 9:41:23 PM	61
63	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.03261mg/L	SM5310B SW846 9060A	Completed	6/22/2024 10:02:44 PM	62
64	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.06mg/L	SM5310B SW846 9060A	Completed	6/23/2024 9:50:23 AM	37
65	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.07778mg/L	SM5310B SW846 9060A	Completed	6/23/2024 10:11:42 AM	38
66	Unknown	NPOC	B1	NPOC.met	1.000	NPOC:15.06mg/L	SM5310B SW846 9060A	Completed	6/23/2024 10:36:57 AM	39
67	Unknown	NPOC	FC16494-16	NPOC.met	1.000	NPOC:117.9mg/L	SM5310B SW846 9060A	Completed	6/23/2024 11:00:17 AM	9
68	Unknown	NPOC	FC16494-18	NPOC.met	1.000	NPOC:938.1mg/L	SM5310B SW846 9060A	Completed	6/23/2024 11:24:03 AM	11
69	Unknown	NPOC	FC16494-19	NPOC.met	1.000	NPOC:88.16mg/L	SM5310B SW846 9060A	Completed	6/23/2024 11:50:37 AM	12
70	Unknown	NPOC	FC16559-1	NPOC.met	1.000	NPOC:243.5mg/L	SM5310B SW846 9060A	Completed	6/23/2024 12:14:07 PM	35
71	Unknown	NPOC	FC16559-2	NPOC.met	1.000	NPOC:242.0mg/L	SM5310B SW846 9060A	Completed	6/23/2024 12:40:22 PM	36
72	Unknown	NPOC	FC16559-4	NPOC.met	1.000	NPOC:143.0mg/L	SM5310B SW846 9060A	Completed	6/23/2024 1:03:55 PM	43
73	Unknown	NPOC	FC16559-6	NPOC.met	1.000	NPOC:112.9mg/L	SM5310B SW846 9060A	Completed	6/23/2024 1:27:03 PM	45
74	Unknown	NPOC	FC16561-6	NPOC.met	1.000	NPOC:33.34mg/L	SM5310B SW846 9060A	Completed	6/23/2024 1:53:10 PM	56
75	Unknown	NPOC	FC16561-8	NPOC.met	1.000	NPOC:32.90mg/L	SM5310B SW846 9060A	Completed	6/23/2024 2:16:20 PM	58
76	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:14.33mg/L	SM5310B SW846 9060A	Completed	6/24/2024 11:26:51 AM	61
77	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.05638mg/L	SM5310B SW846 9060A	Completed	6/24/2024 11:48:12 AM	62

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	BLANK
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

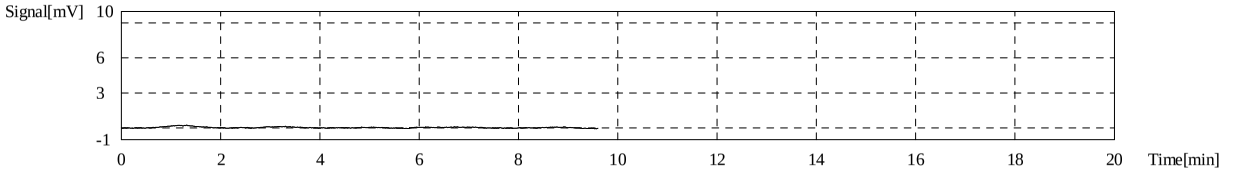
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1217mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9253	0.09244mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:13:03 PM
2	0.5073	-0.01964mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:15:12 PM
3	0.000	-0.1557mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:17:19 PM
4	0.000	-0.1557mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:19:29 PM
5	0.000	-0.1557mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:21:36 PM

Mean Area	0.1268
Mean Conc.	-0.1217mg/L



Sample

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample Name: 500
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

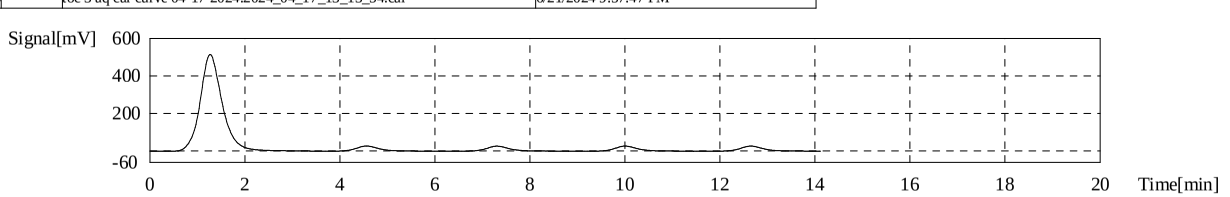
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:478.7mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1648	484.8mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:35:35 PM
2	88.80	487.4mg/L	40uL	15.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:49:03 PM
3	86.64	475.5mg/L	40uL	15.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:52:01 PM
4	86.54	475.0mg/L	40uL	15.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:54:53 PM
5	86.89	476.9mg/L	40uL	15.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 9:57:47 PM

Mean Area 87.22
Mean Conc. 478.7mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.59mg/L

1. Det

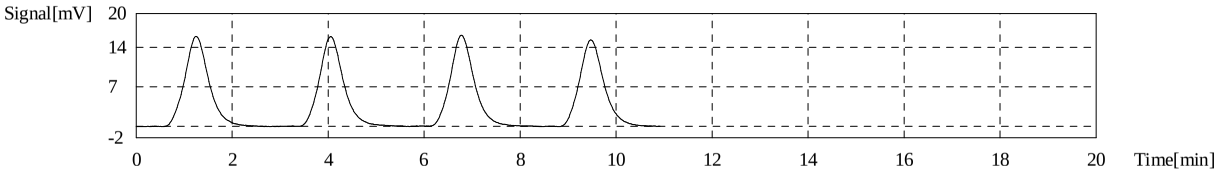
TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.06	14.88mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:11:18 PM
2	54.76	14.53mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:14:15 PM
3	55.16	14.64mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:17:13 PM
4	54.00	14.32mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:20:05 PM

Mean Area 55.00
Mean Conc. 14.59mg/L



Sample

Sample Name: GP40151-MB1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.09006mg/L

1. Det

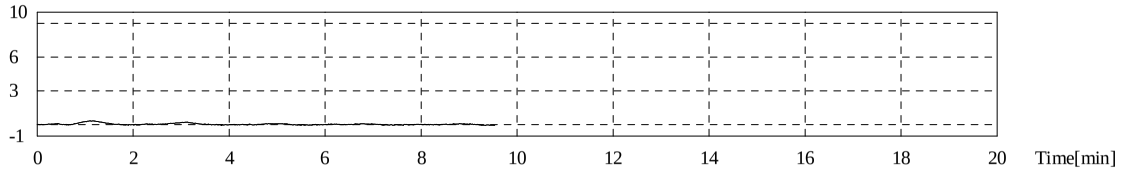
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.187	0.1626mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:32:41 PM
2	0.4424	-0.03704mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:34:53 PM
3	0.3681	-0.05697mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:37:00 PM
4	0.07320	-0.1360mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:39:07 PM
5	0.09500	-0.1302mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:41:14 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 0.2447
Mean Conc. -0.09006mg/L



Sample

Sample Name: GP40151-B1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

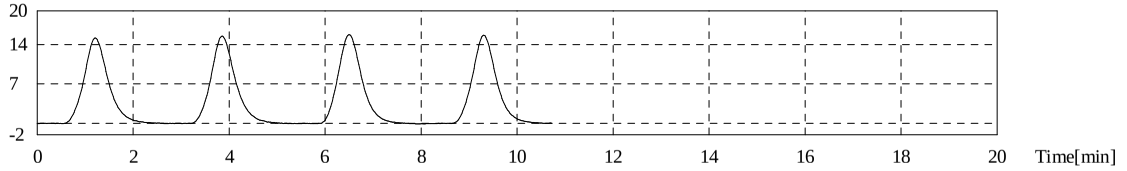
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.30mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.00	14.06mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:54:29 PM
2	54.38	14.43mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 10:57:22 PM
3	54.23	14.39mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:00:22 PM
4	54.00	14.32mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:03:16 PM

Mean Area 53.90
Mean Conc. 14.30mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16494-14
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

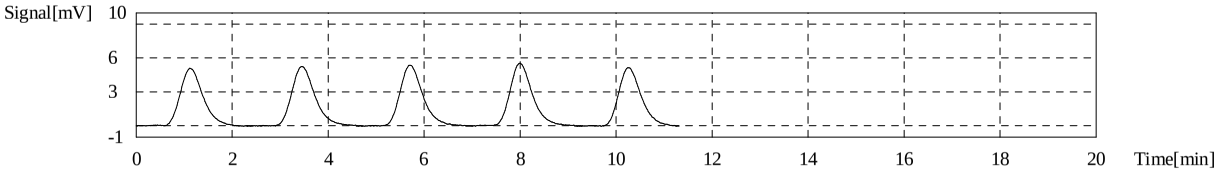
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.489mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.61	4.298mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:16:17 PM
2	17.29	4.481mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:18:46 PM
3	17.51	4.540mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:21:18 PM
4	17.70	4.590mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:23:47 PM
5	16.79	4.346mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:26:11 PM

Mean Area 17.32
Mean Conc. 4.489mg/L



Sample

Sample Name: FC16494-15
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.566mg/L

TOC-Control L Report

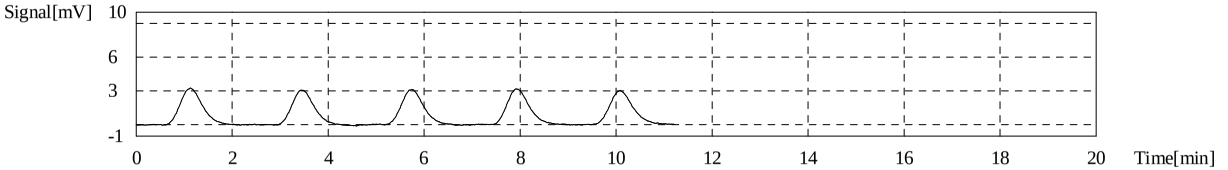
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.62	2.692mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:39:07 PM
2	10.26	2.595mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:41:37 PM
3	10.29	2.604mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:44:07 PM
4	10.13	2.561mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:46:28 PM
5	9.920	2.504mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/21/2024 11:48:57 PM

Mean Area 10.15
Mean Conc. 2.566mg/L



Sample

Sample Name: GP40151-S1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.81mg/L

1. Det

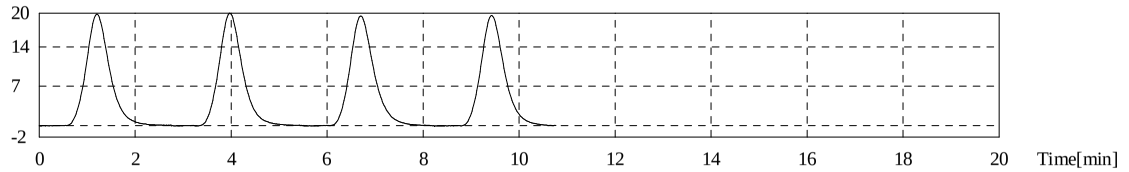
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.91	17.79mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:02:19 AM
2	67.51	17.95mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:05:20 AM
3	67.59	17.97mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:08:16 AM
4	65.92	17.52mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:11:02 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 66.98
Mean Conc. 17.81mg/L



Sample

Sample Name: GP40151-S2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

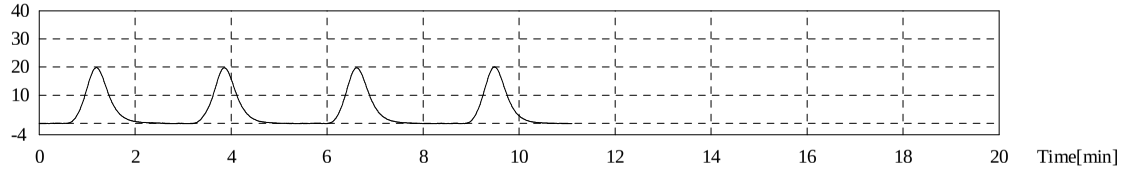
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.92mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	67.28	17.88mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:23:15 AM
2	67.33	17.90mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:26:19 AM
3	67.69	17.99mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:29:24 AM
4	67.36	17.91mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:32:26 AM

Mean Area 67.42
Mean Conc. 17.92mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16494-16
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

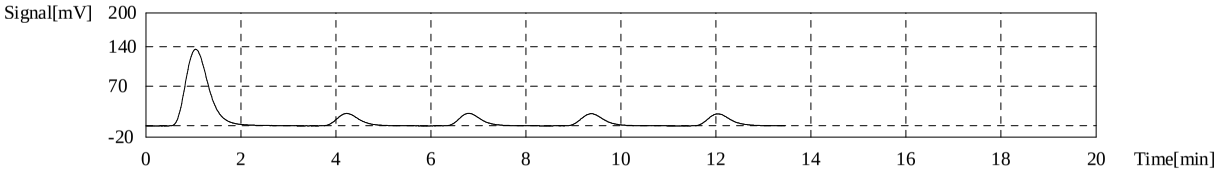
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:118.7mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	454.3	121.7mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:46:18 AM
2	71.81	119.6mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:59:36 AM
3	70.92	118.1mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:02:22 AM
4	71.59	119.2mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:05:18 AM
5	70.77	117.8mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:08:03 AM

Mean Area 71.27
Mean Conc. 118.7mg/L



Sample

Sample Name: FC16494-17
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.651mg/L

TOC-Control L Report

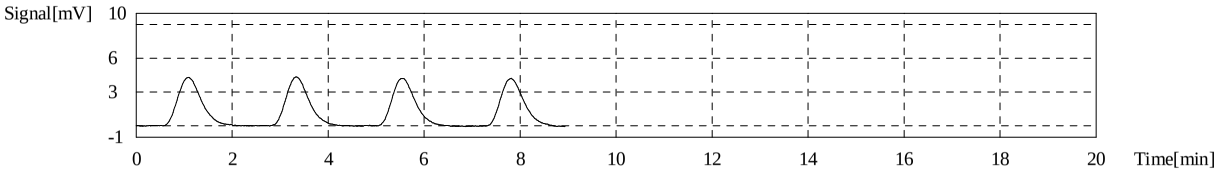
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.60	3.759mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:21:00 AM
2	14.05	3.612mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:23:25 AM
3	14.03	3.606mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:25:54 AM
4	14.11	3.628mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:28:21 AM

Mean Area 14.20
Mean Conc. 3.651mg/L



Sample

Sample Name: FC16494-18
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1021mg/L

1. Det

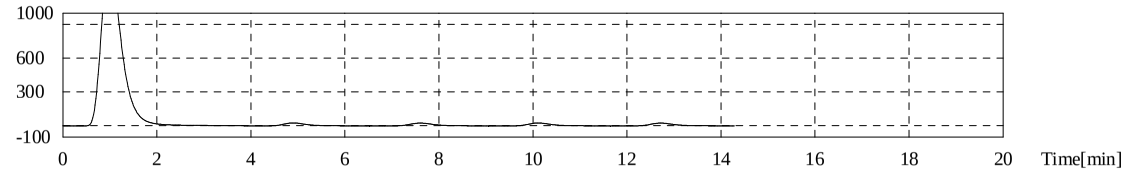
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4187	1123mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:42:54 AM
2	81.48	1032mg/L	40uL	38.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:56:18 AM
3	80.76	1023mg/L	40uL	38.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:59:06 AM
4	80.60	1021mg/L	40uL	38.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:01:55 AM
5	79.73	1010mg/L	40uL	38.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:04:46 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 80.64
Mean Conc. 1021mg/L



Sample

Sample Name: FC16494-19
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

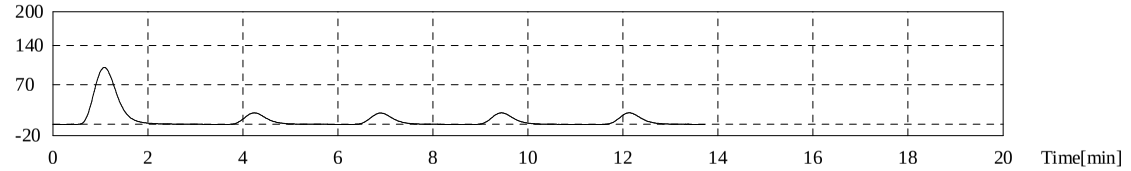
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:88.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	339.4	90.85mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:18:36 AM
2	66.64	88.72mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:31:58 AM
3	66.61	88.68mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:34:48 AM
4	66.50	88.53mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:37:42 AM
5	66.93	89.11mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:40:37 AM

Mean Area 66.67
Mean Conc. 88.76mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

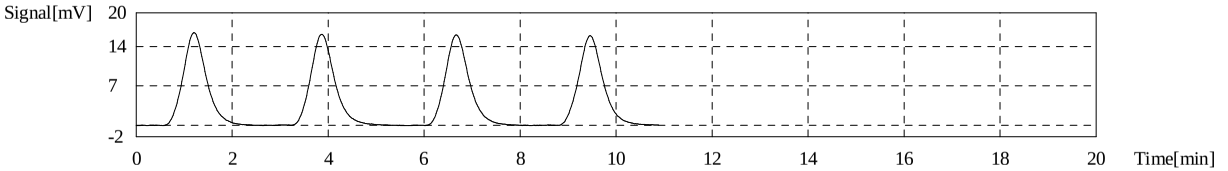
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.85	14.82mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:53:59 AM
2	55.70	14.78mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:57:02 AM
3	55.67	14.77mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:00:00 AM
4	55.73	14.79mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:02:54 AM

Mean Area 55.74
Mean Conc. 14.79mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.05758mg/L

TOC-Control L Report

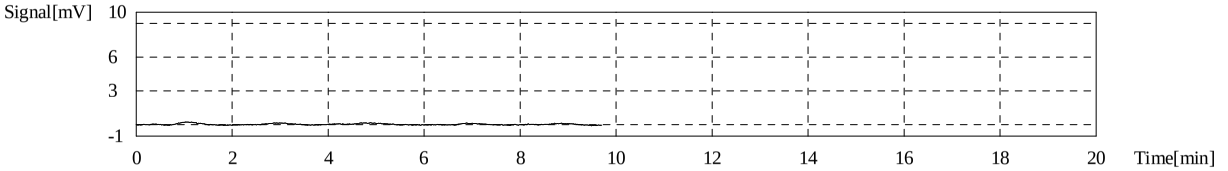
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7351	0.04144mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:15:30 AM
2	0.3386	-0.06488mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:17:38 AM
3	0.3824	-0.05313mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:19:58 AM
4	0.3835	-0.05284mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:22:06 AM
5	0.3588	-0.05946mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:24:14 AM

Mean Area 0.3658
Mean Conc. -0.05758mg/L



Sample

Sample Name: FC16494-20
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.984mg/L

1. Det

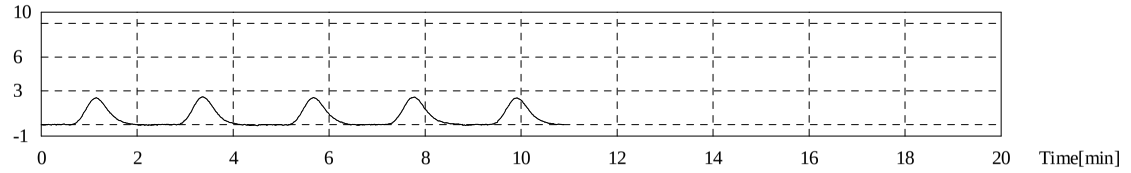
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.918	1.967mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:37:05 AM
2	8.395	2.095mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:39:37 AM
3	7.984	1.985mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:41:56 AM
4	8.175	2.036mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:44:20 AM
5	7.846	1.948mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:46:40 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 7.981
Mean Conc. 1.984mg/L



Sample

Sample Name: FC16494-21
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

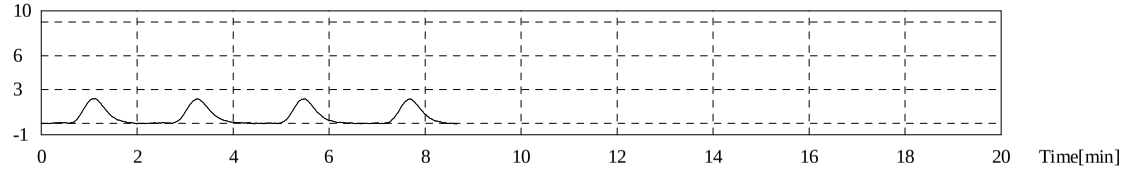
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.759mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.234	1.784mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:59:25 AM
2	7.038	1.732mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:01:52 AM
3	7.190	1.772mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:04:19 AM
4	7.100	1.748mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:06:39 AM

Mean Area 7.141
Mean Conc. 1.759mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16499-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

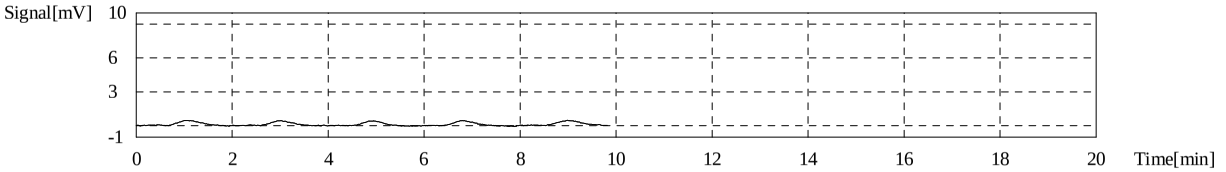
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2309mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.586	0.2696mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:19:18 AM
2	1.106	0.1409mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:21:26 AM
3	1.290	0.1902mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:23:34 AM
4	1.466	0.2374mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:25:59 AM
5	1.425	0.2264mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:28:07 AM

Mean Area 1.442
Mean Conc. 0.2309mg/L



Sample

Sample Name: FC16499-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.255mg/L

TOC-Control L Report

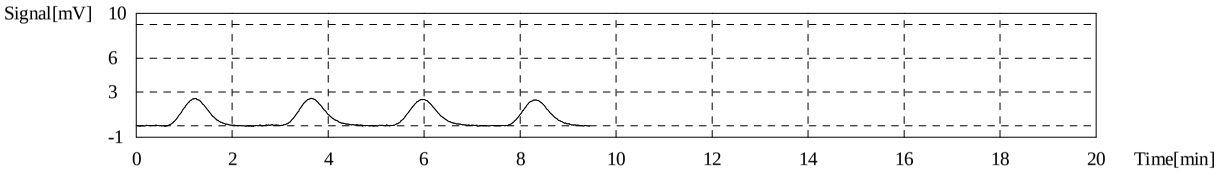
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.112	2.288mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:41:10 AM
2	9.025	2.264mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:43:41 AM
3	9.071	2.277mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:46:17 AM
4	8.757	2.192mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:48:52 AM

Mean Area 8.991
Mean Conc. 2.255mg/L



Sample

Sample Name: FC16499-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.602mg/L

1. Det

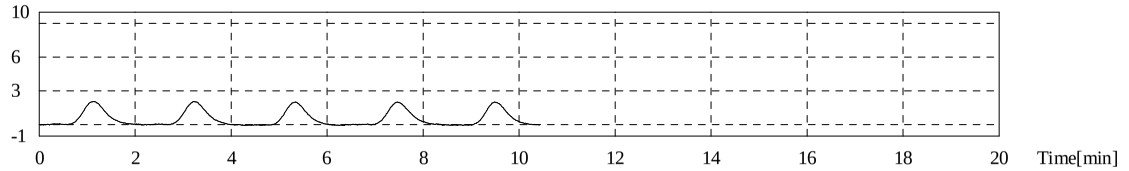
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.600	1.614mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:01:41 AM
2	6.656	1.629mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:04:04 AM
3	6.424	1.567mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:06:26 AM
4	6.354	1.548mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:08:41 AM
5	6.535	1.597mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:10:57 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 6.554
Mean Conc. 1.602mg/L



Sample

Sample Name: FC16499-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

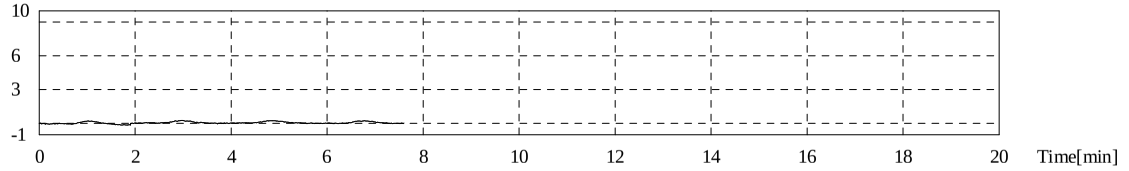
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01470mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7624	0.04876mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:23:28 AM
2	0.5646	-0.00428mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:25:37 AM
3	0.6061	0.00685mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:27:45 AM
4	0.6084	0.00747mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:29:53 AM

Mean Area 0.6354
Mean Conc. 0.01470mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16499-5
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

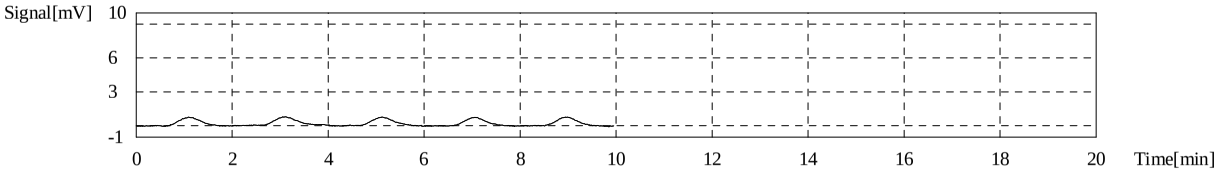
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5034mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.504	0.5158mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:42:35 AM
2	2.335	0.4704mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:44:50 AM
3	2.572	0.5340mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:47:01 AM
4	2.421	0.4935mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:49:10 AM
5	2.169	0.4259mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:51:29 AM

Mean Area 2.458
Mean Conc. 0.5034mg/L



Sample

Sample Name: FC16499-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.761mg/L

TOC-Control L Report

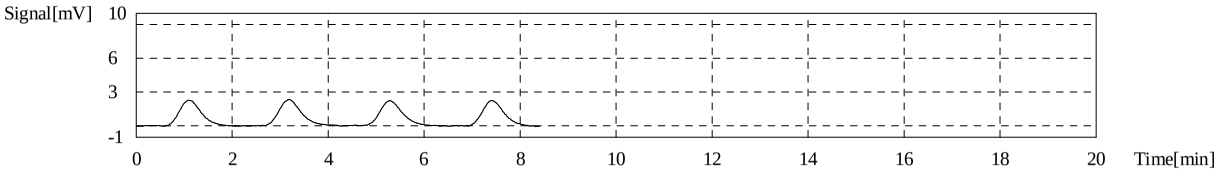
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.244	1.787mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:04:10 AM
2	7.198	1.774mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:06:31 AM
3	7.037	1.731mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:08:52 AM
4	7.120	1.754mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:11:12 AM

Mean Area 7.150
Mean Conc. 1.761mg/L



Sample

Sample Name: FC16589-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.187mg/L

1. Det

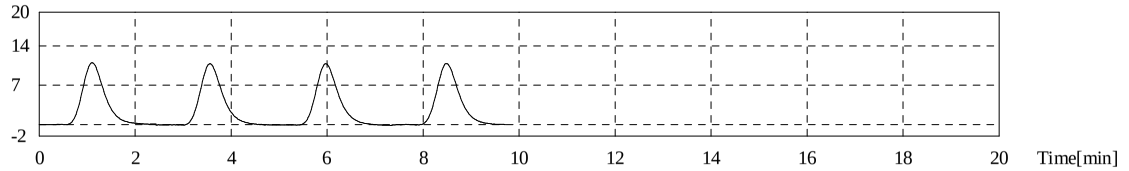
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.51	9.098mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:24:20 AM
2	34.68	9.144mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:27:01 AM
3	35.26	9.299mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:29:44 AM
4	34.92	9.208mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:32:21 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 34.84
Mean Conc. 9.187mg/L



Sample

Sample Name: FC16589-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

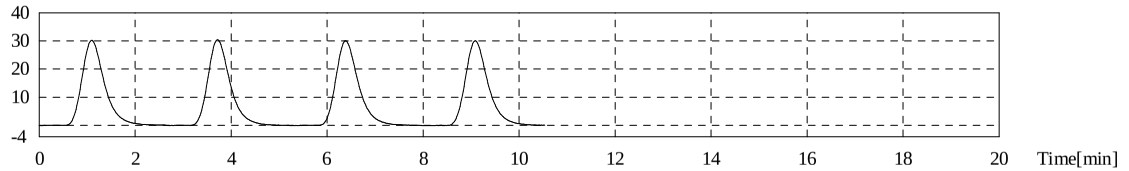
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.18	25.90mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:45:40 AM
2	96.90	25.83mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:48:36 AM
3	97.14	25.89mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:51:33 AM
4	97.60	26.02mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:54:21 AM

Mean Area 97.21
Mean Conc. 25.91mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

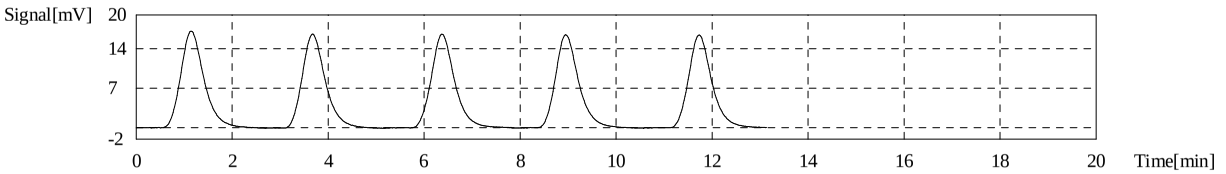
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.62mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	57.50	15.26mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:07:35 AM
2	55.61	14.76mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:10:28 AM
3	55.31	14.68mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:13:21 AM
4	54.97	14.58mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:16:22 AM
5	54.50	14.46mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:19:10 AM

Mean Area 55.10
Mean Conc. 14.62mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.06987mg/L

TOC-Control L Report

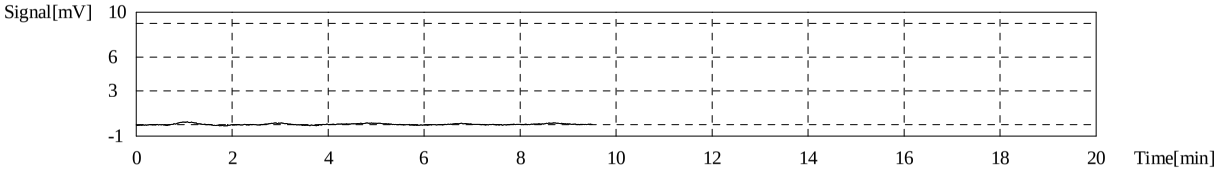
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8856	0.08180mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:31:41 AM
2	0.6637	0.02230mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:33:51 AM
3	0.4038	-0.04739mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:35:58 AM
4	0.2124	-0.09872mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:38:06 AM
5	0.000	-0.1557mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:40:14 AM

Mean Area 0.3200
Mean Conc. -0.06987mg/L



Sample

Sample Name: FC16589-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.577mg/L

1. Det

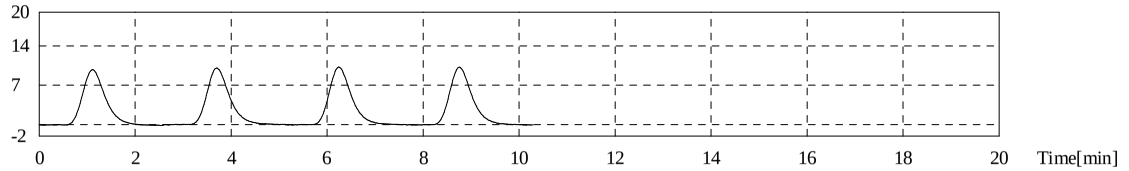
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.08	8.446mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:53:26 AM
2	32.81	8.642mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:56:15 AM
3	32.45	8.546mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:59:00 AM
4	32.93	8.674mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:01:52 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 32.57
Mean Conc. 8.577mg/L



Sample

Sample Name: GP40151-S3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

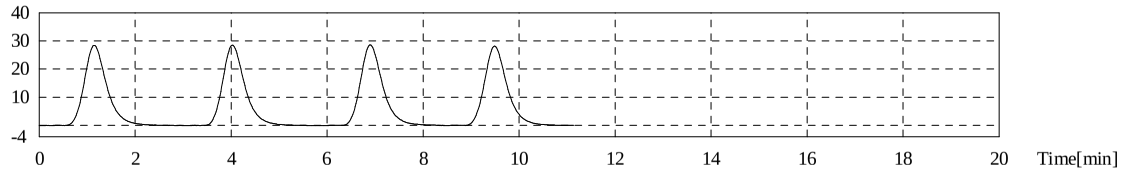
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.37mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.30	24.59mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:15:29 AM
2	91.09	24.27mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:18:35 AM
3	91.05	24.26mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:21:23 AM
4	91.42	24.36mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:24:26 AM

Mean Area 91.47
Mean Conc. 24.37mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: GP40151-S4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

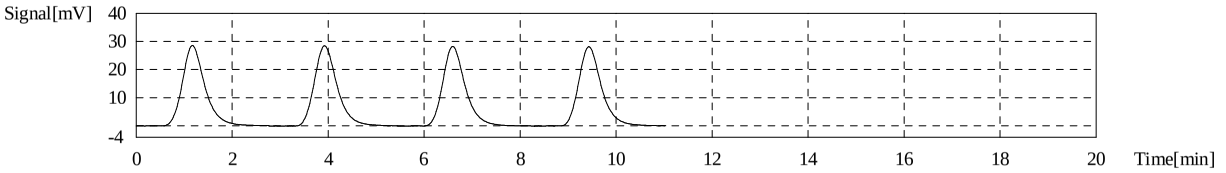
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.60mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.42	24.63mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:37:55 AM
2	93.36	24.88mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:40:51 AM
3	91.85	24.47mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:43:55 AM
4	91.62	24.41mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:46:53 AM

Mean Area 92.31
Mean Conc. 24.60mg/L



Sample

Sample Name: FC16589-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.586mg/L

1. Det

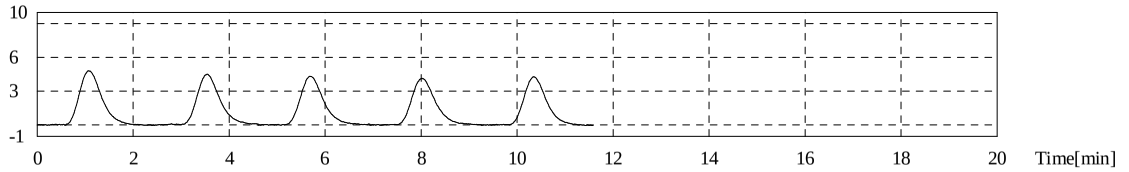
TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.51	4.003mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:00:02 AM
2	14.17	3.644mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:02:24 AM
3	14.17	3.644mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:04:59 AM
4	13.71	3.521mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:07:31 AM
5	13.77	3.537mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:10:04 AM

Mean Area 13.96
Mean Conc. 3.586mg/L



Sample

Sample Name: FC16589-7
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.98mg/L

1. Det

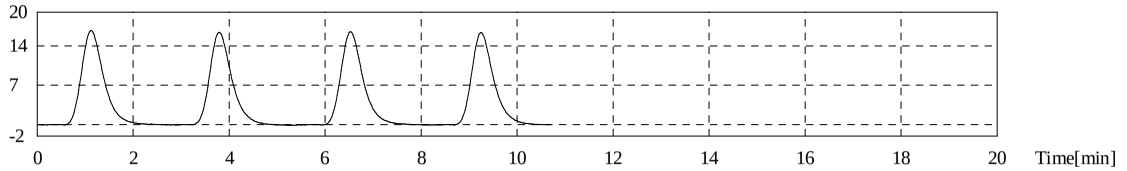
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	53.63	14.22mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:23:22 AM
2	52.36	13.88mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:26:18 AM
3	52.95	14.04mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:29:18 AM
4	51.98	13.78mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:32:04 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 52.73
Mean Conc. 13.98mg/L



Sample

Sample Name: FC16589-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

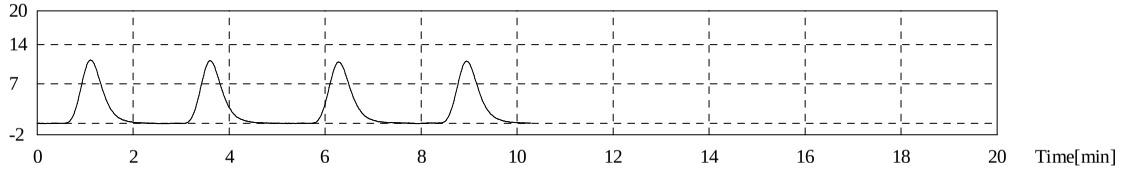
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.420mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.01	9.500mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:45:15 AM
2	35.60	9.390mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:48:09 AM
3	35.72	9.422mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:51:02 AM
4	35.51	9.366mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:53:44 AM

Mean Area 35.71
Mean Conc. 9.420mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16462-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

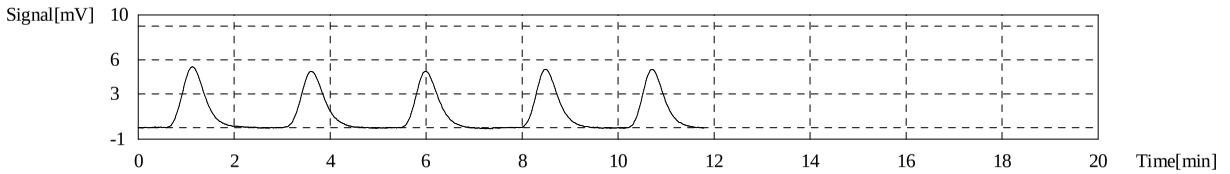
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.283mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.71	4.593mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:06:55 AM
2	16.86	4.365mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:09:32 AM
3	16.57	4.287mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:12:15 AM
4	16.46	4.258mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:14:43 AM
5	16.32	4.220mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:17:07 AM

Mean Area 16.55
Mean Conc. 4.283mg/L



Sample

Sample Name: FC16462-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.673mg/L

TOC-Control L Report

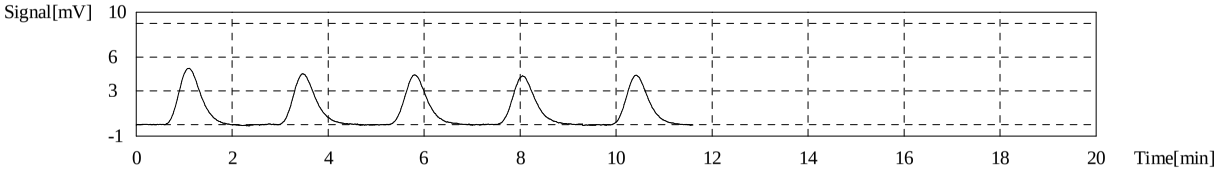
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.19	4.186mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:30:07 AM
2	14.71	3.789mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:32:40 AM
3	14.23	3.660mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:35:10 AM
4	14.04	3.609mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:37:45 AM
5	14.14	3.636mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:40:17 AM

Mean Area 14.28
Mean Conc. 3.673mg/L



Sample

Sample Name: FC16559-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:246.2mg/L

1. Det

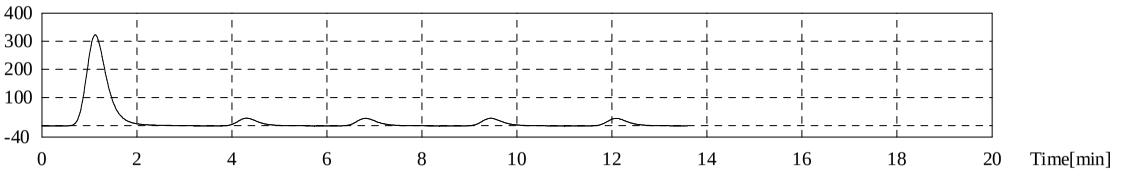
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	975.6	261.4mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:54:06 AM
2	82.36	247.0mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:07:21 AM
3	81.42	244.2mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:10:14 AM
4	82.52	247.5mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:13:07 AM
5	82.03	246.1mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:15:55 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 82.08
Mean Conc. 246.2mg/L



Sample

Sample Name: FC16559-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

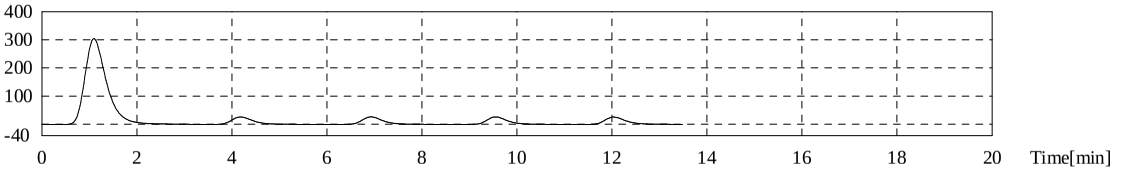
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:240.7mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	953.7	255.6mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:29:43 AM
2	81.07	243.2mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:43:11 AM
3	80.87	242.6mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:46:02 AM
4	79.49	238.4mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:48:44 AM
5	79.65	238.9mg/L	40uL	9.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 11:51:30 AM

Mean Area 80.27
Mean Conc. 240.7mg/L



TOC-Control L Report

Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

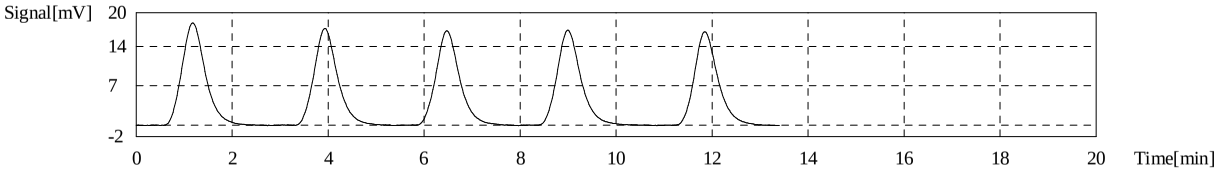
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.15	16.51mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:04:57 PM
2	57.98	15.39mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:07:42 PM
3	57.18	15.18mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:10:27 PM
4	57.96	15.39mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:13:33 PM
5	56.52	15.00mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:16:29 PM

Mean Area 57.41
Mean Conc. 15.24mg/L



Sample

Sample Name: GP40152-MB1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

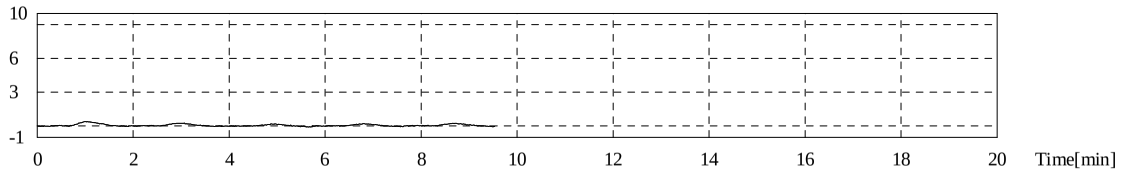
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00469mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.105	0.1406mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:29:01 PM
2	0.5936	0.00350mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:31:11 PM
3	0.6104	0.00800mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:33:19 PM
4	0.4730	-0.02884mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:35:28 PM
5	0.7151	0.03608mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:37:36 PM

Mean Area 0.5980
Mean Conc. 0.00469mg/L



Sample

Sample Name: GP40152-B1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.95mg/L

1. Det

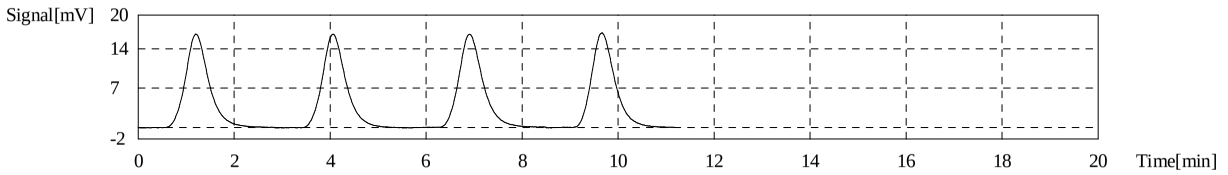
Anal.: NPOC

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.05	14.87mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:51:05 PM
2	56.21	14.92mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:54:12 PM
3	56.98	15.12mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 12:57:13 PM
4	56.04	14.87mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:00:09 PM

Mean Area 56.32
Mean Conc. 14.95mg/L



Sample

Sample Name: FC16559-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.763mg/L

1. Det

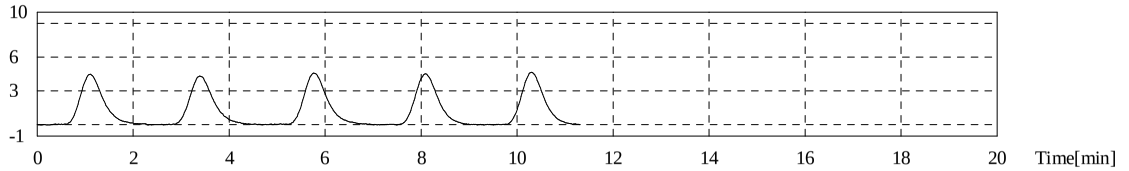
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.33	3.687mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:13:08 PM
2	14.55	3.746mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:15:46 PM
3	15.32	3.952mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:18:19 PM
4	14.66	3.775mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:20:46 PM
5	14.91	3.842mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:23:07 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 14.61
Mean Conc. 3.763mg/L



Sample

Sample Name: GP40152-S1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

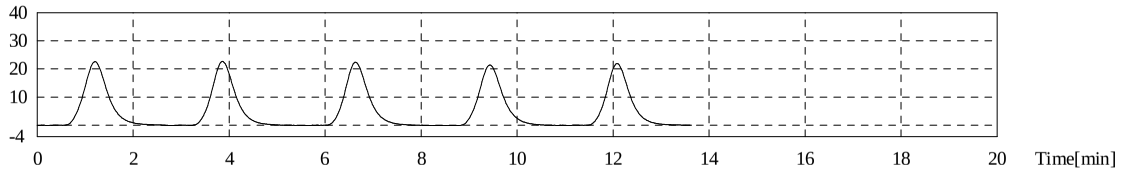
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.87mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.67	20.67mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:36:24 PM
2	76.45	20.34mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:39:26 PM
3	75.18	20.00mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:42:27 PM
4	73.89	19.66mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:45:20 PM
5	73.26	19.49mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 1:48:17 PM

Mean Area 74.69
Mean Conc. 19.87mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: GP40152-S2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

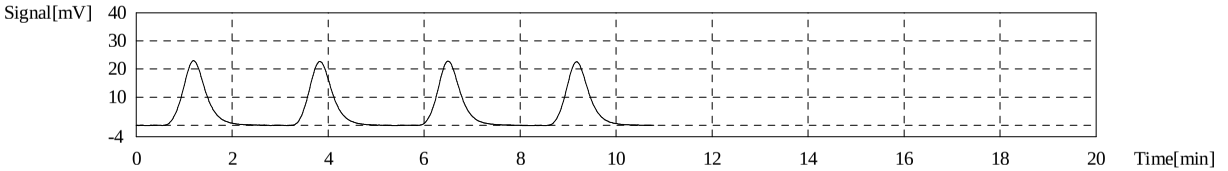
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.62	20.39mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:01:35 PM
2	75.93	20.20mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:04:29 PM
3	75.06	19.97mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:07:23 PM
4	74.99	19.95mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:10:24 PM

Mean Area 75.65
Mean Conc. 20.13mg/L



Sample

Sample Name: FC16559-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:137.3mg/L

TOC-Control L Report

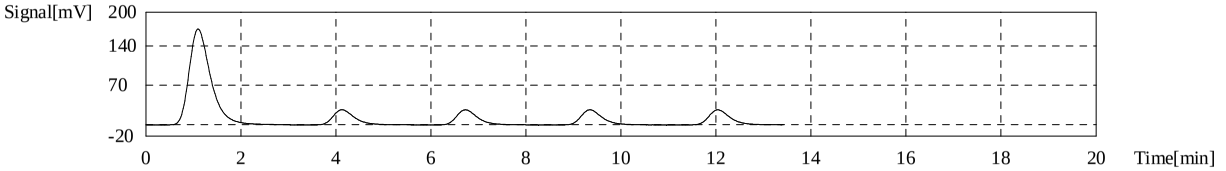
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	534.6	143.2mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:24:09 PM
2	83.41	139.0mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:37:29 PM
3	81.79	136.3mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:40:22 PM
4	82.15	136.9mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:43:17 PM
5	82.11	136.8mg/L	40uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:45:59 PM

Mean Area 82.37
Mean Conc. 137.3mg/L



Sample

Sample Name: FC16559-5
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.40mg/L

1. Det

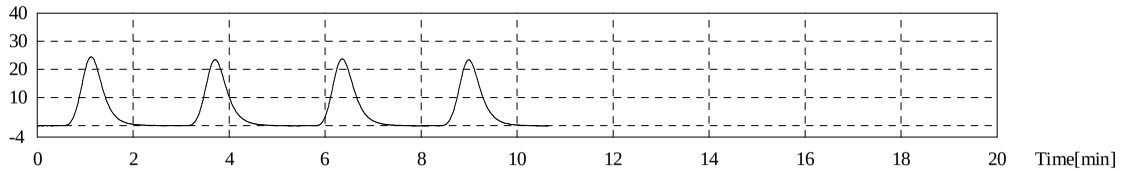
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	77.74	20.69mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 2:59:17 PM
2	75.75	20.16mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:02:11 PM
3	76.99	20.49mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:05:01 PM
4	76.16	20.27mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:08:02 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 76.66
Mean Conc. 20.40mg/L



Sample

Sample Name: FC16559-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

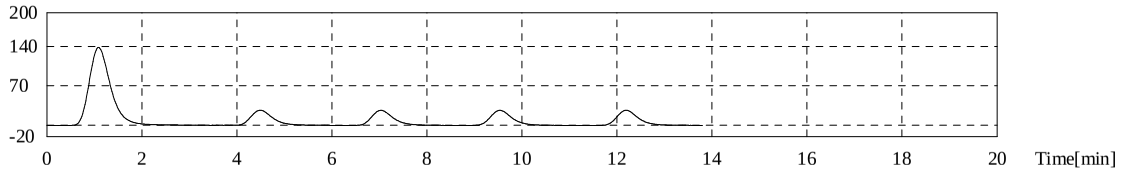
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:111.6mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	430.2	115.2mg/L	50uL	1.000	R	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:22:10 PM
2	84.32	112.4mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:35:26 PM
3	83.55	111.4mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:38:11 PM
4	84.17	112.2mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:41:05 PM
5	82.87	110.5mg/L	40uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:44:02 PM

Mean Area 83.73
Mean Conc. 111.6mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16559-7
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

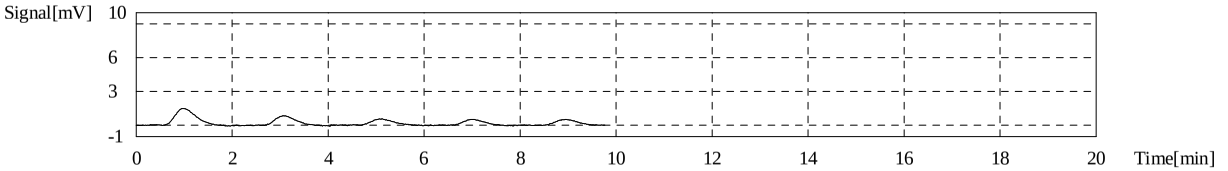
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3622mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.524	1.057mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:56:48 PM
2	2.714	0.5721mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 3:59:03 PM
3	1.785	0.3230mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:01:10 PM
4	1.649	0.2865mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:03:18 PM
5	1.577	0.2672mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:05:25 PM

Mean Area 1.931
Mean Conc. 0.3622mg/L



Sample

Sample Name: FC16559-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

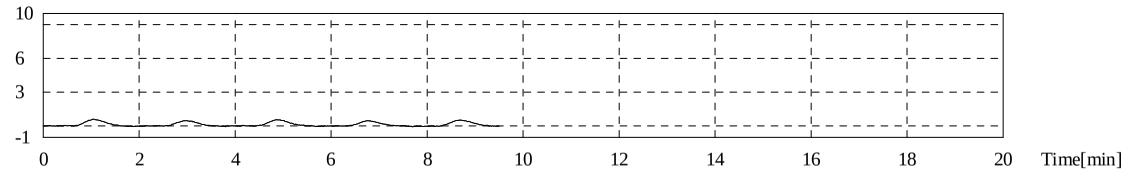
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2825mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.790	0.3243mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:17:57 PM
2	1.358	0.2085mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:20:04 PM
3	1.795	0.3256mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:22:11 PM
4	1.352	0.2069mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:24:18 PM
5	1.593	0.2715mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:26:25 PM

Mean Area 1.634
Mean Conc. 0.2825mg/L



Sample

Sample Name: FC16561-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.213mg/L

1. Det

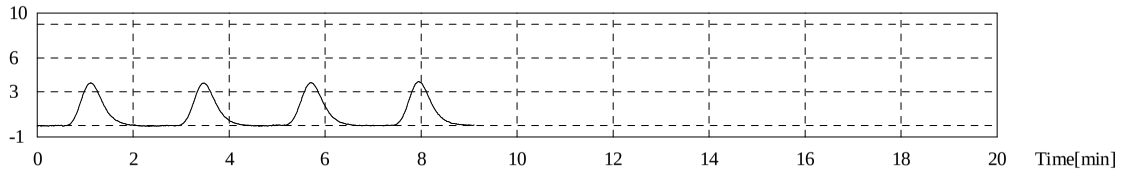
Anal.: NPOC

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.54	3.207mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:39:24 PM
2	12.23	3.124mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:41:52 PM
3	12.75	3.263mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:44:21 PM
4	12.73	3.258mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 4:46:51 PM

Mean Area 12.56
Mean Conc. 3.213mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.95mg/L

1. Det

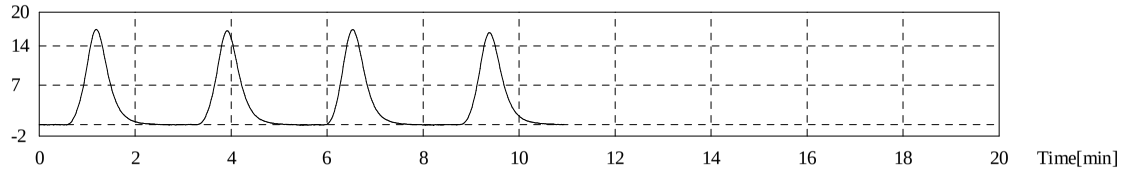
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.94	15.11mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:00:18 PM
2	56.22	14.92mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:03:10 PM
3	56.76	15.06mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:06:13 PM
4	55.48	14.72mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:09:10 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 56.35
Mean Conc. 14.95mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

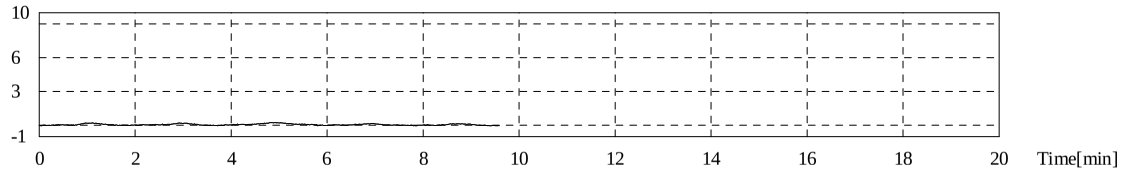
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01327mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5313	-0.01321mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:21:48 PM
2	0.4747	-0.02838mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:23:55 PM
3	0.9745	0.1056mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:26:07 PM
4	0.4452	-0.03629mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:28:16 PM
5	0.6730	0.02479mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:30:23 PM

Mean Area 0.5311
Mean Conc. -0.01327mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16561-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

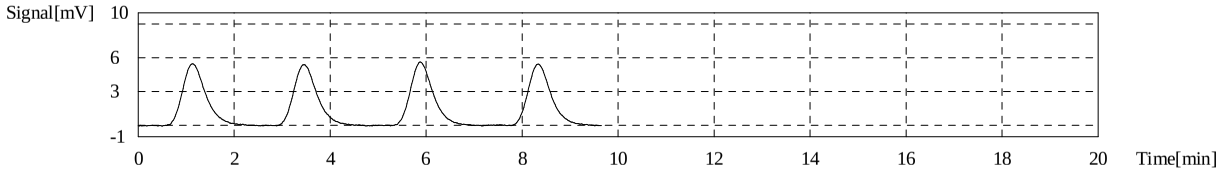
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.754mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.43	4.786mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:43:20 PM
2	18.22	4.730mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:46:00 PM
3	18.55	4.818mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:48:42 PM
4	18.04	4.682mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 5:51:25 PM

Mean Area 18.31
Mean Conc. 4.754mg/L



Sample

Sample Name: FC16561-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.322mg/L

TOC-Control L Report

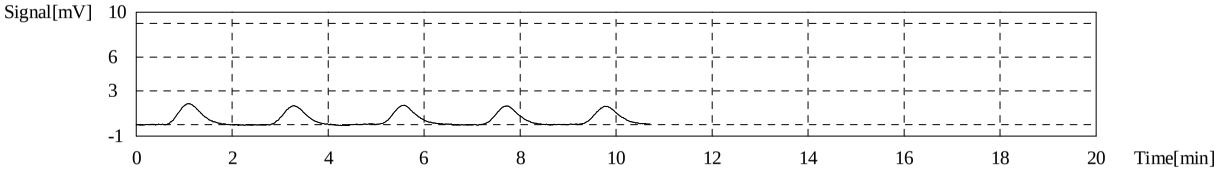
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.324	1.540mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:04:17 PM
2	5.616	1.350mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:06:48 PM
3	5.484	1.315mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:09:09 PM
4	5.570	1.338mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:11:26 PM
5	5.375	1.286mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:13:43 PM

Mean Area 5.511
Mean Conc. 1.322mg/L



Sample

Sample Name: FC16561-5
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.540mg/L

1. Det

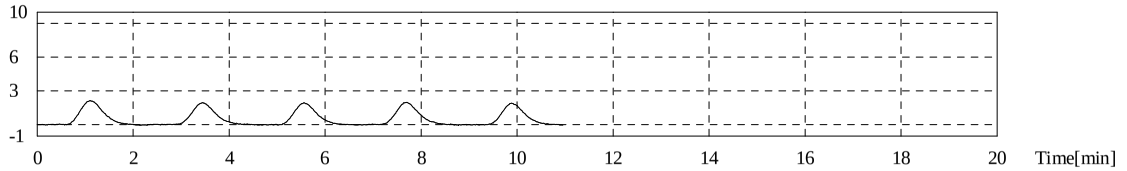
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.986	1.718mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:26:40 PM
2	6.268	1.525mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:29:01 PM
3	6.285	1.530mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:31:21 PM
4	6.482	1.582mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:33:47 PM
5	6.253	1.521mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:36:11 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 6.322
Mean Conc. 1.540mg/L



Sample

Sample Name: GP40152-S3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

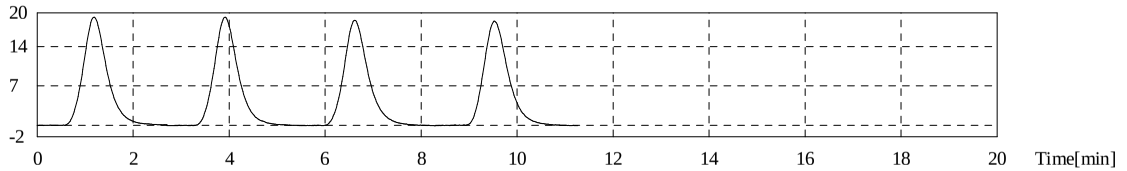
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.88	17.51mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:49:32 PM
2	65.64	17.45mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:52:30 PM
3	65.26	17.34mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:55:40 PM
4	64.95	17.26mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 6:58:47 PM

Mean Area 65.43
Mean Conc. 17.39mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: GP40152-S4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

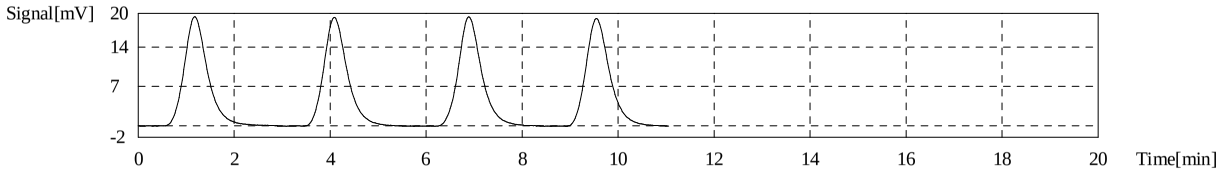
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.31mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.17	17.32mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:12:25 PM
2	65.27	17.35mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:15:24 PM
3	65.20	17.33mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:18:19 PM
4	64.91	17.25mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:21:13 PM

Mean Area 65.14
Mean Conc. 17.31mg/L



Sample

Sample Name: FC16561-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.14mg/L

1. Det

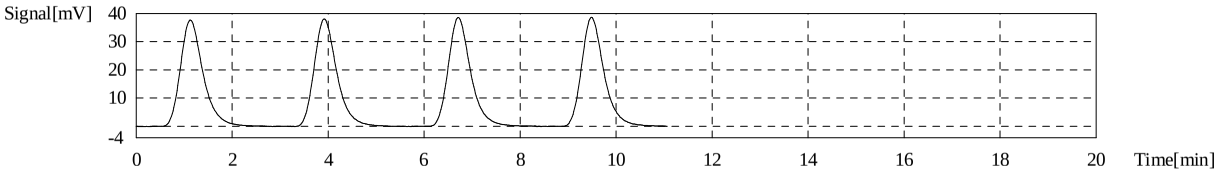
TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	123.3	32.91mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:34:43 PM
2	124.4	33.20mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:37:44 PM
3	124.7	33.28mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:40:44 PM
4	124.3	33.17mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:43:44 PM

Mean Area 124.2
Mean Conc. 33.14mg/L



Sample

Sample Name: FC16561-7
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.468mg/L

1. Det

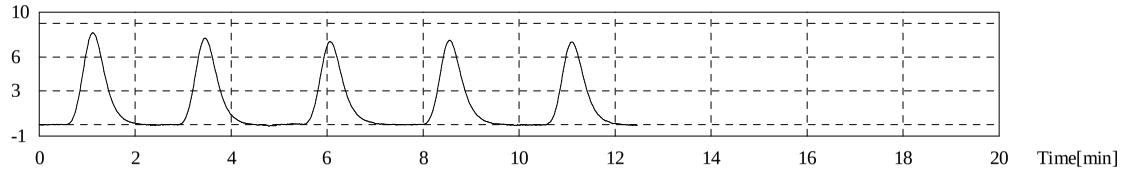
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.95	7.071mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:56:47 PM
2	25.60	6.709mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 7:59:39 PM
3	24.28	6.355mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:02:23 PM
4	24.90	6.521mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:05:09 PM
5	24.03	6.288mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:07:52 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 24.70
Mean Conc. 6.468mg/L



Sample

Sample Name: FC16561-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

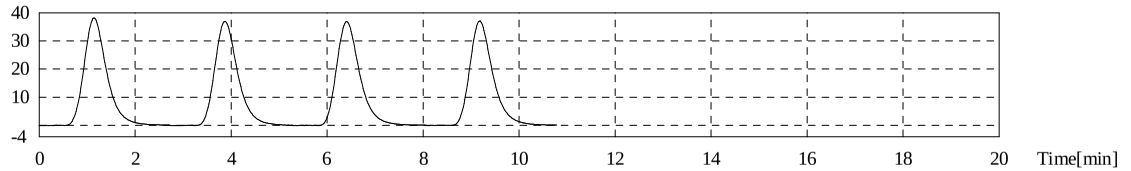
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.6	33.25mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:21:15 PM
2	121.9	32.53mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:24:05 PM
3	122.3	32.64mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:27:05 PM
4	122.7	32.75mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:30:05 PM

Mean Area 122.9
Mean Conc. 32.79mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16561-13
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

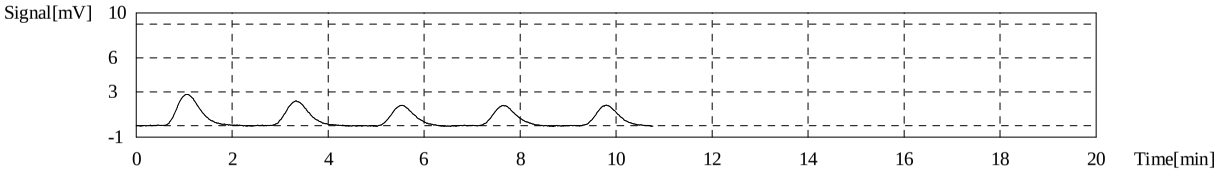
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.557mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.306	2.340mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:43:02 PM
2	7.420	1.834mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:45:29 PM
3	6.154	1.494mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:47:50 PM
4	6.005	1.455mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:50:11 PM
5	5.976	1.447mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 8:52:29 PM

Mean Area 6.389
Mean Conc. 1.557mg/L



Sample

Sample Name: FC16561-15
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.899mg/L

TOC-Control L Report

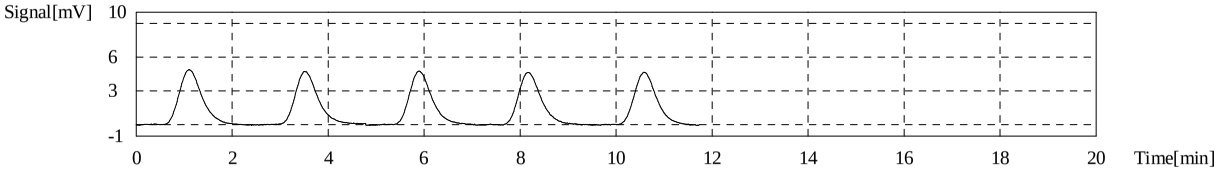
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.52	4.274mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:05:32 PM
2	15.13	3.901mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:08:08 PM
3	15.16	3.909mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:10:39 PM
4	15.15	3.907mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:13:21 PM
5	15.05	3.880mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:15:52 PM

Mean Area 15.12
Mean Conc. 3.899mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.83mg/L

1. Det

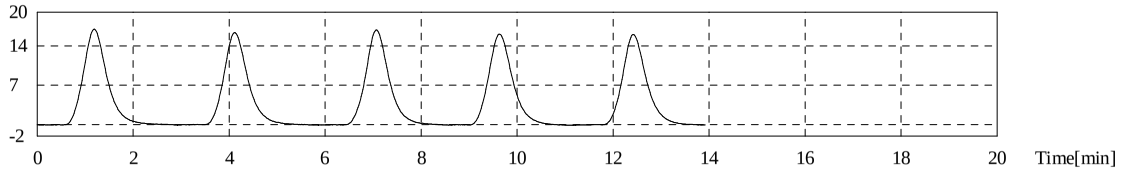
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.38	15.50mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:29:26 PM
2	56.42	14.97mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:32:36 PM
3	56.18	14.91mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:35:26 PM
4	55.74	14.79mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:38:26 PM
5	55.15	14.63mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:41:23 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area	55.87
Mean Conc.	14.83mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

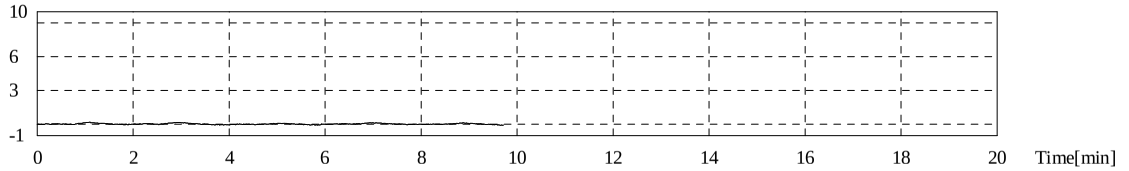
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5315	-0.01315mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:53:57 PM
2	0.5454	-0.00943mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:56:20 PM
3	0.3759	-0.05488mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 9:58:28 PM
4	0.2014	-0.1017mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:00:36 PM
5	0.3830	-0.05297mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/22/2024 10:02:44 PM

Mean Area	0.4589
Mean Conc.	-0.03261mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

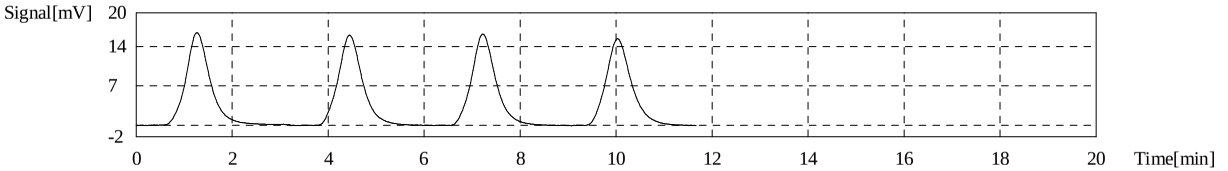
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	57.09	15.15mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 9:41:14 AM
2	56.30	14.94mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 9:44:15 AM
3	56.83	15.08mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 9:47:18 AM
4	56.73	15.06mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 9:50:23 AM

Mean Area	56.74
Mean Conc.	15.06mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.07778mg/L

TOC-Control L Report

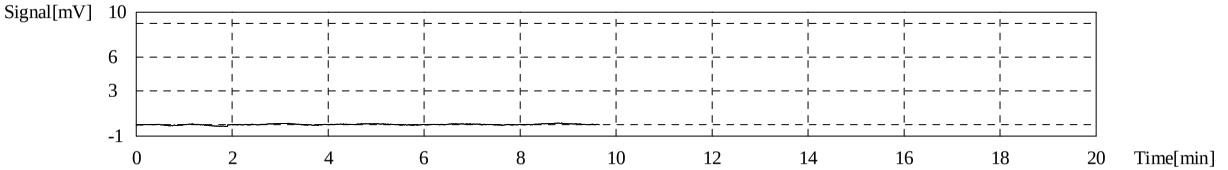
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3248	-0.06858mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:03:00 AM
2	0.5724	-0.00219mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:05:10 AM
3	0.3000	-0.07523mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:07:17 AM
4	0.1782	-0.1079mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:09:25 AM
5	0.3590	-0.05941mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:11:42 AM

Mean Area 0.2905
Mean Conc. -0.07778mg/L



Sample

Sample Name: B1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.06mg/L

1. Det

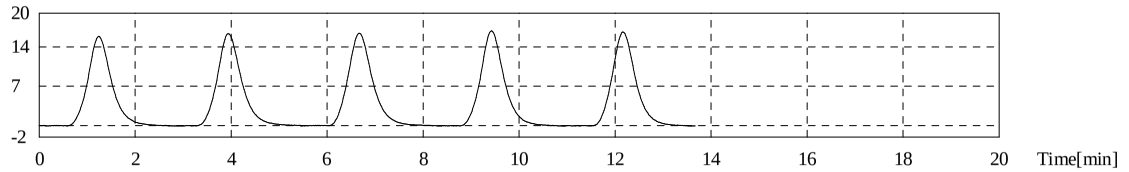
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.05	14.34mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:25:03 AM
2	56.67	15.04mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:28:01 AM
3	57.25	15.20mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:30:59 AM
4	56.81	15.08mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:33:59 AM
5	56.24	14.92mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:36:57 AM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 56.74
Mean Conc. 15.06mg/L



Sample

Sample Name: FC16494-16
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

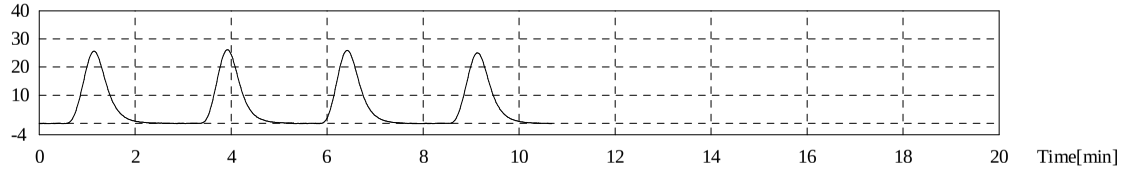
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:117.9mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.45	119.1mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:51:38 AM
2	88.16	117.4mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:54:23 AM
3	88.58	118.0mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 10:57:21 AM
4	87.96	117.2mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:00:17 AM

Mean Area 88.54
Mean Conc. 117.9mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16494-18
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

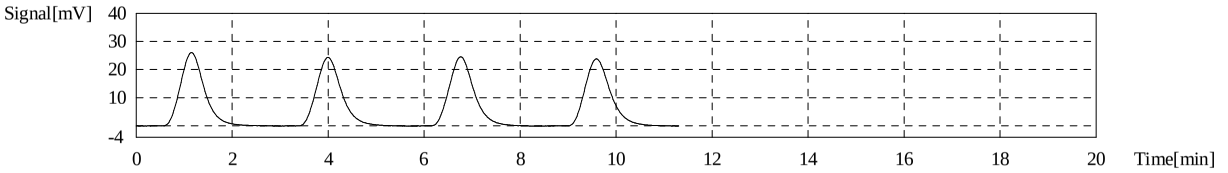
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:938.1mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.68	955.7mg/L	50uL	40.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:14:53 AM
2	87.17	928.7mg/L	50uL	40.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:17:52 AM
3	88.31	941.0mg/L	50uL	40.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:20:57 AM
4	87.03	927.2mg/L	50uL	40.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:24:03 AM

Mean Area 88.05
Mean Conc. 938.1mg/L



Sample

Sample Name: FC16494-19
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:88.16mg/L

1. Det

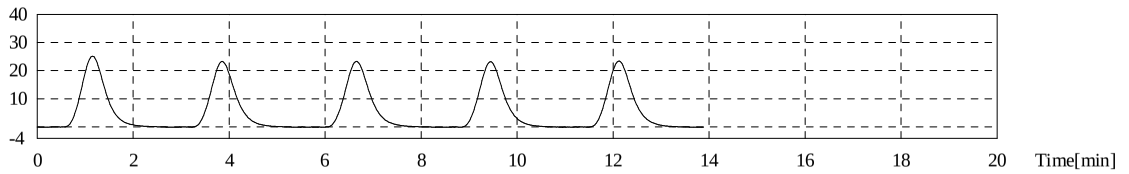
TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.32	91.96mg/L	50uL	4.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:38:30 AM
2	82.63	88.00mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:41:32 AM
3	83.14	88.55mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:44:34 AM
4	81.74	87.05mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:47:28 AM
5	83.60	89.04mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 11:50:37 AM

Mean Area 82.78
Mean Conc. 88.16mg/L



Sample

Sample Name: FC16559-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:243.5mg/L

1. Det

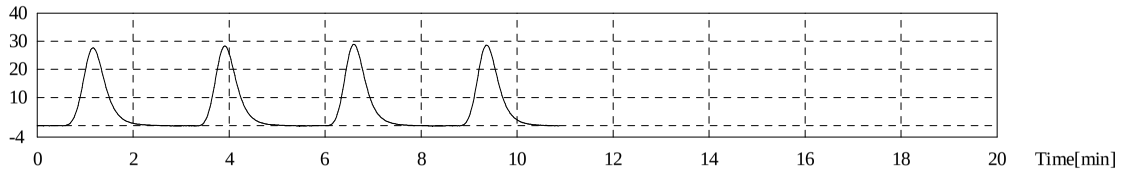
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.55	243.9mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:05:21 PM
2	90.95	242.3mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:08:16 PM
3	91.57	244.0mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:11:15 PM
4	91.49	243.8mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:14:07 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 91.39
Mean Conc. 243.5mg/L



Sample

Sample Name: FC16559-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

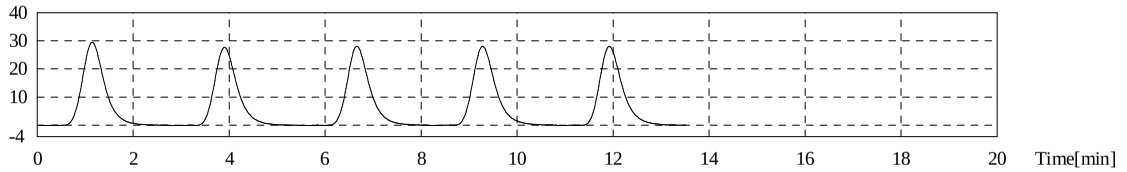
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:242.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.62	252.2mg/L	50uL	10.00	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:28:40 PM
2	90.57	241.3mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:31:37 PM
3	90.34	240.7mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:34:29 PM
4	91.12	242.8mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:37:25 PM
5	91.35	243.4mg/L	50uL	10.00		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:40:22 PM

Mean Area 90.85
Mean Conc. 242.0mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: FC16559-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

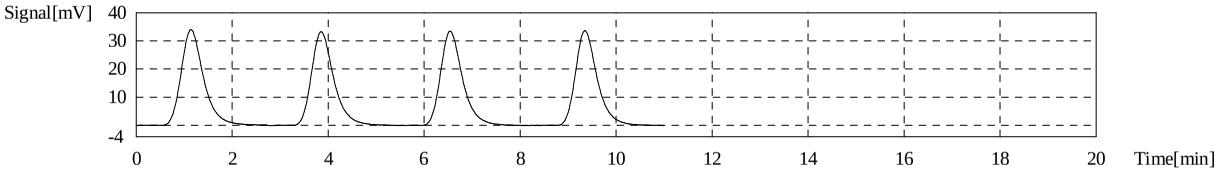
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:143.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	109.9	146.6mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:54:53 PM
2	106.6	142.1mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 12:57:49 PM
3	106.7	142.3mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:00:53 PM
4	105.9	141.2mg/L	50uL	5.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:03:55 PM

Mean Area 107.3
Mean Conc. 143.0mg/L



Sample

Sample Name: FC16559-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:112.9mg/L

TOC-Control L Report

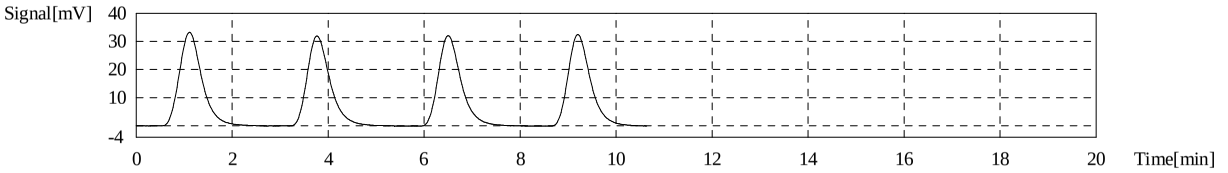
toc 3 aq 06-21-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	108.5	115.8mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:18:22 PM
2	105.0	112.0mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:21:20 PM
3	105.0	112.0mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:24:16 PM
4	104.8	111.8mg/L	50uL	4.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:27:03 PM

Mean Area 105.8
Mean Conc. 112.9mg/L



Sample

Sample Name: FC16561-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.34mg/L

1. Det

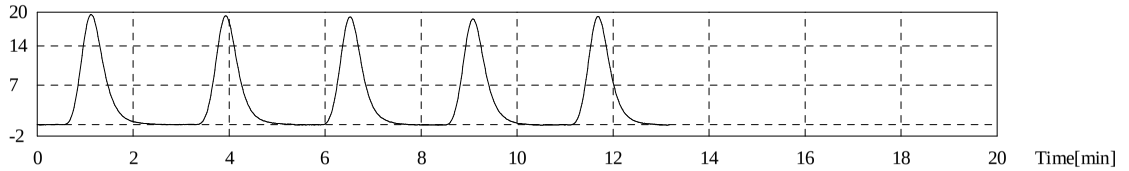
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.58	34.86mg/L	50uL	2.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:41:48 PM
2	63.65	33.82mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:44:37 PM
3	62.69	33.31mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:47:27 PM
4	62.17	33.03mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:50:17 PM
5	62.50	33.21mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 1:53:10 PM

TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Mean Area 62.75
Mean Conc. 33.34mg/L



Sample

Sample Name: FC16561-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

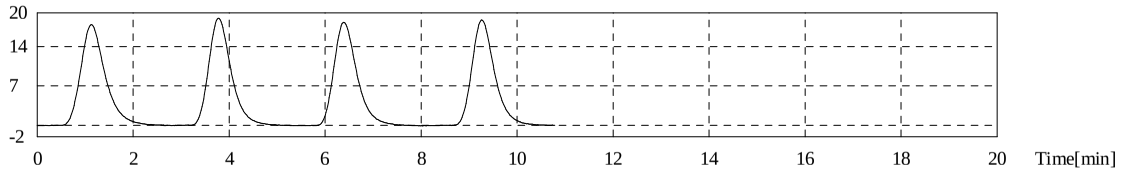
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.44	33.71mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 2:07:32 PM
2	61.65	32.75mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 2:10:23 PM
3	61.23	32.53mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 2:13:27 PM
4	61.40	32.62mg/L	50uL	2.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/23/2024 2:16:20 PM

Mean Area 61.93
Mean Conc. 32.90mg/L



TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

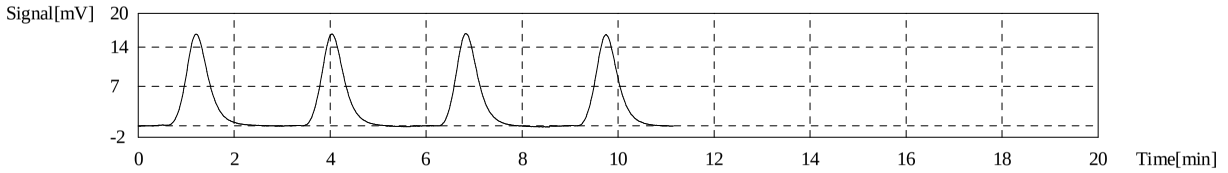
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.21	14.38mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:17:49 AM
2	54.83	14.55mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:20:52 AM
3	54.22	14.38mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:24:01 AM
4	52.83	14.01mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:26:51 AM

Mean Area 54.02
Mean Conc. 14.33mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.05638mg/L

1. Det

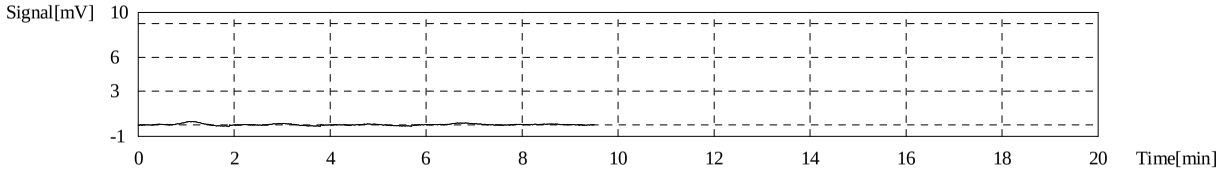
TOC-Control L Report

toc 3 aq 06-21-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8900	0.08298mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:39:30 AM
2	0.5377	-0.01149mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:41:44 AM
3	0.3389	-0.06480mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:43:55 AM
4	0.5291	-0.01380mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:46:04 AM
5	0.07540	-0.1355mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	6/24/2024 11:48:12 AM

Mean Area 0.3703
Mean Conc. -0.05638mg/L



TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 04-17-2024.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

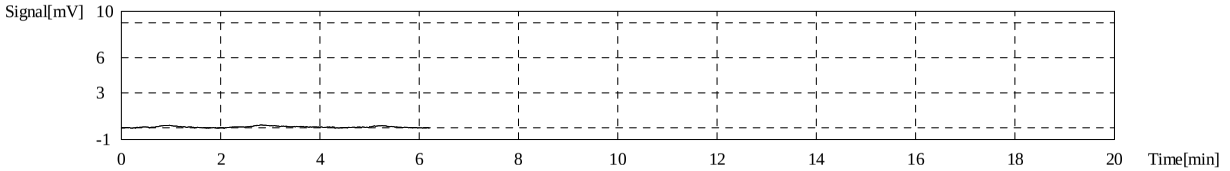
Sample Name:	NPOC METHOD
Sample ID:	Untitled
Cal. Curve:	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.7482	50uL	1.000	*******		4/17/2024 1:25:31 PM
2	1.206	50uL	1.000	*******	E	4/17/2024 1:28:08 PM
3	0.3406	50uL	1.000	*******		4/17/2024 1:30:16 PM

Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	0.5444



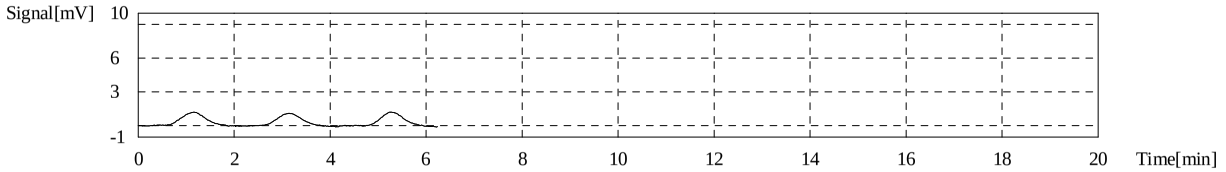
Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.362	50uL	1.000	*******		4/17/2024 1:42:08 PM
2	4.101	50uL	1.000	*******	E	4/17/2024 1:44:30 PM
3	4.255	50uL	1.000	*******		4/17/2024 1:46:48 PM

TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 04-17-2024.tlx

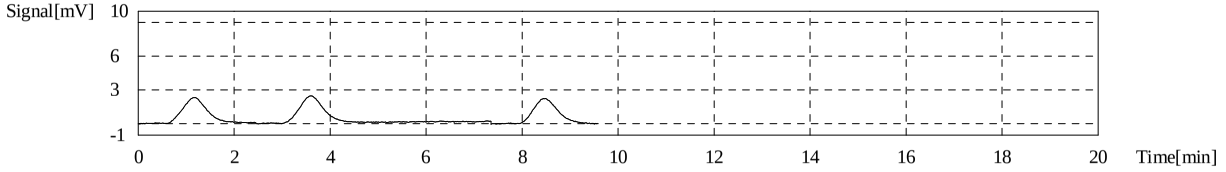
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	4.309



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.942	50uL	1.000	*******		4/17/2024 1:59:05 PM
2	8.381	50uL	1.000	T*******	E	4/17/2024 2:04:16 PM
3	7.963	50uL	1.000	*******		4/17/2024 2:06:44 PM

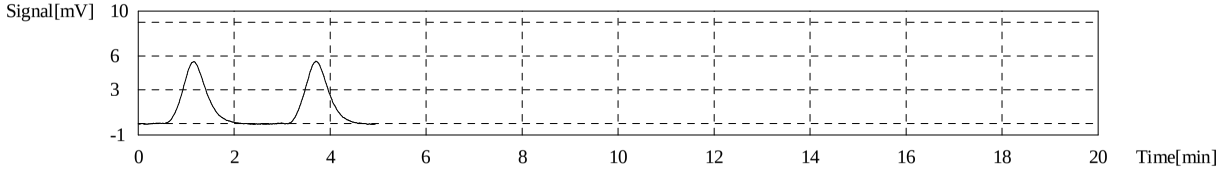
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	7.953



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	19.33	50uL	1.000	*******		4/17/2024 2:19:07 PM
2	19.37	50uL	1.000	*******		4/17/2024 2:21:43 PM

Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	19.35



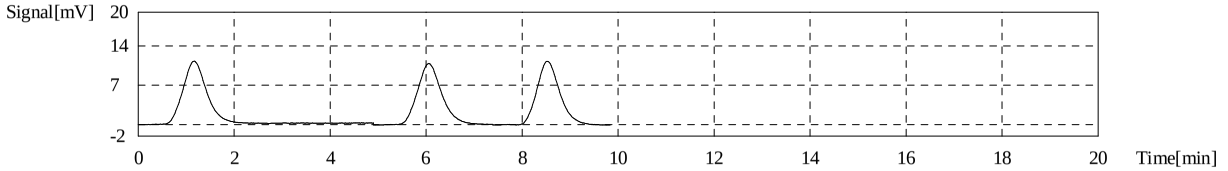
Conc: 10.00mg/L

TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 04-17-2024.tlx

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.95	50uL	1.000	T*******	E	4/17/2024 2:36:32 PM
2	38.18	50uL	1.000	*******		4/17/2024 2:39:16 PM
3	37.44	50uL	1.000	*******		4/17/2024 2:41:59 PM

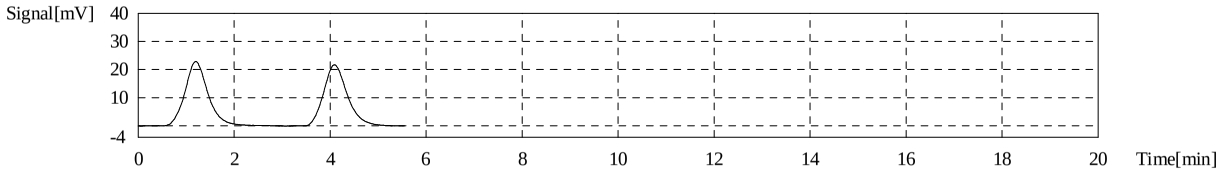
Acid Add. 0.000%
Sparge Gas Flow 80mL/min
Sp. Time 360.0sec
Mean Area 37.81



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	75.89	50uL	1.000	*******		4/17/2024 2:54:45 PM
2	74.80	50uL	1.000	*******		4/17/2024 2:57:37 PM

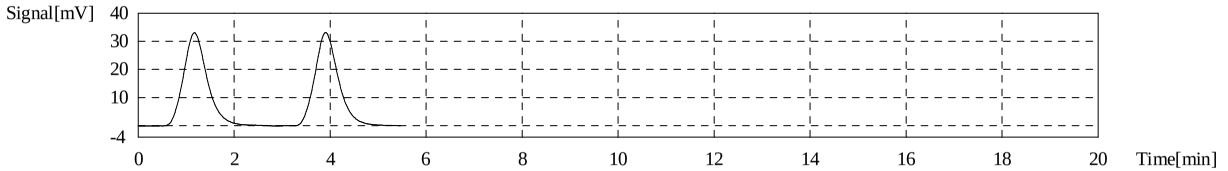
Acid Add. 0.000%
Sparge Gas Flow 80mL/min
Sp. Time 360.0sec
Mean Area 75.34



Conc: 30.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	112.5	50uL	1.000	*******		4/17/2024 3:10:17 PM
2	112.2	50uL	1.000	*******		4/17/2024 3:13:15 PM

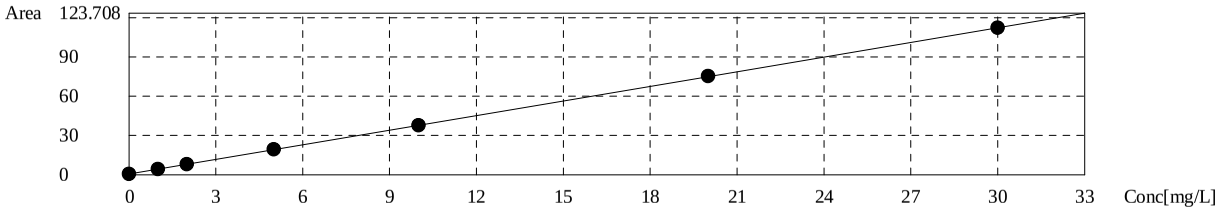
Acid Add. 0.000%
Sparge Gas Flow 80mL/min
Sp. Time 360.0sec
Mean Area 112.3



TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 04-17-2024.tlx

Slope:	3.729
Intercept	0.5806
r^2	1.0000
r	1.0000
RSE(%)	N/A
Zero Shift	No



Sample

Sample Name:	ICV
Sample ID:	Untitled
Origin:	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal
Status	Completed
Chk. Result	

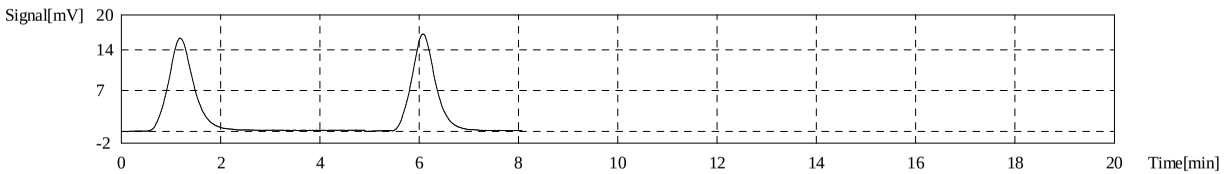
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.98mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	57.25	15.20mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	4/17/2024 3:35:13 PM
2	55.66	14.77mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	4/17/2024 3:38:38 PM

Mean Area	56.45
Mean Conc.	14.98mg/L



Sample

TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 04-17-2024.tlx

Sample Name: Low ICV
Sample ID: Untitled
Origin: toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal
Status Completed
Chk. Result

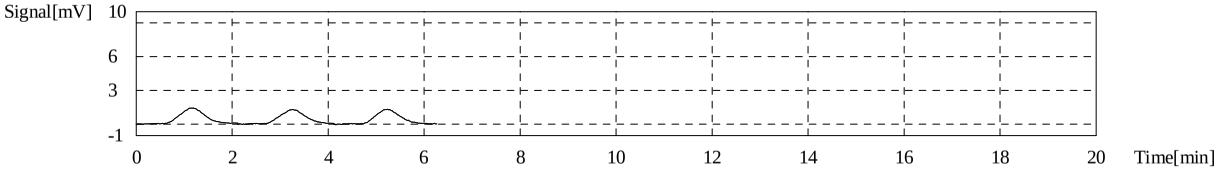
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.027mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.740	1.115mg/L	50uL	1.000	E	toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	4/17/2024 3:50:40 PM
2	4.449	1.037mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	4/17/2024 3:52:55 PM
3	4.374	1.017mg/L	50uL	1.000		toc 3 aq cal-curve 04-17-2024.2024_04_17_13_13_54.cal	4/17/2024 3:55:19 PM

Mean Area 4.412
Mean Conc. 1.027mg/L



GN97733

SGS Std#	Name Description	Parent Std. #	Parent Name	Parent Vendor	Parent Exp. Date	Parent conc. mg/l	Weight/Vol Used g/ml	Bal.ID#	Pipette#	Final Vol. ml	Final Conc. mg/l	pH paper Lot#	Prep Date	Exp. Date

TOC 4323	Cal. Std #1 1 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	0.1 ml	-	NU04977	100	1	230320	Apr. 17 2024	17-May 2024
TOC 4324	Cal. Std #2 2 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	0.2 ml	-	NU04977	100	2	230320	Apr. 17 2024	17-May 2024
TOC 4325	Cal. Std #3 5 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	0.5 ml	-	UU09872	100	5	230320	Apr. 17 2024	17-May 2024
TOC 4326	Cal. Std #4 10 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	1 ml	-	UU09872	100	10	230320	Apr. 17 2024	17-May 2024
TOC 4327	Cal. Std #5 20 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	2 ml	-	UU09872	100	20	230320	Apr. 17 2024	17-May 2024
TOC 4328	Cal. Std #6 30 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	3 ml	-	UU09872	100	30	230320	Apr. 17 2024	17-May 2024
TOC 4329	ICV STD 15 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	3.75 ml	-	UU07485	250	15	230320	Apr. 17 2024	17-May 2024
TOC 4330	CCV STD 15 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	3.75 ml	-	UU07485	250	15	230320	Apr. 17 2024	17-May 2024
TOC 4331	ICV STD 1 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	0.1 ml	-	NU04977	100	1	230320	Apr. 17 2024	17-May 2024
TOC 4332	500 STD 500 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	60 ml	-	Volum. cylinder	120	500	230320	Apr. 17 2024	17-May 2024
TOC 4333	ICV STD 15 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	3.75 ml	-	UU07485	250	15	230320	8-May 2024	31-May 2024
TOC 4334	CCV STD 15 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	3.75 ml	-	UU07485	250	15	230320	8-May 2024	31-May 2024
TOC 4335	500 STD 500 ppm	WC 2090	TOC KHP1	Inorg. Vent.	31-May 2024	1000	60 ml	-	Volum. cylinder	120	500	230320	8-May 2024	31-May 2024
TOC 4336	ICV STD 15 ppm	WC 2232	TOC KHP1	Inorg. Vent.	2-Jun 2025	1000	3.75 ml	-	UU42734	250	15	230320	2-Jun 2024	2-Jul 2024
TOC 4337	CCV STD 15 ppm	WC 2232	TOC KHP1	Inorg. Vent.	2-Jun 2025	1000	3.75 ml	-	UU42734	250	15	230320	2-Jun 2024	2-Jul 2024
TOC 4338	500 STD 500 ppm	WC 2232	TOC KHP1	Inorg. Vent.	2-Jun 2025	1000	60 ml	-	Volum. cylinder	120	500	230320	2-Jun 2024	2-Jul 2024

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

Former Seneca Army Depot; Romulus, NY

SGS Job Number: FC16634

Sampling Date: 06/20/24

Report to:

EA Science and Technology
269 W Jefferson St
Syracuse, NY 13202
fdesantis@eaest.com; mwright@eaest.com

ATTN: Frank DeSantis

Total number of pages in report: **173**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

Table of Contents

SGS North America Inc.

Sample Summary

EA Engineering

Job No: FC16634

Former Seneca Army Depot; Romulus, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC16634-1	06/20/24	09:40	MW	06/21/24	AQ	Ground Water	SEAD-AL-MWT-2-20240620
FC16634-2	06/20/24	10:25	MW	06/21/24	AQ	Ground Water	SEAD-AL-MWT-3-20240620
FC16634-3	06/20/24	10:35	MW	06/21/24	AQ	Ground Water	SEAD-AL-MW-29-20240620
FC16634-4	06/20/24	09:35	MW	06/21/24	AQ	Ground Water	SEAD-AL-MWT-8-20240620
FC16634-5	06/20/24	10:35	MW	06/21/24	AQ	Ground Water	SEAD-AL-MWT-4-20240620
FC16634-6	06/20/24	11:10	MW	06/21/24	AQ	Ground Water	SEAD-AL-MWT-6-20240620
FC16634-7	06/20/24	00:00	MW	06/21/24	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: EA Engineering **Job No:** FC16634

Site: Former Seneca Army Depot; Romulus, NY **Report Date:** 7/1/2024 2:11:57 PM

On 06/21/2024, 6 Sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC16634 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V5E2118

Sample(s) FC16592-2MS, FC16592-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Methyl Bromide are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC16592-2MSD. Probable cause is due to sample non-homogeneity.

V5E2118-MB: Sample was treated with an anti-foaming agent.

FC16634-1 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-1 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-2 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-2 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-3 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-3 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-4 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-4 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-5 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-5 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-6 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-6 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-7 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16634-7 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Report Generation (signature on file)

Summary of Hits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16634-1	**SEAD-AL-MWT-2-20240620**					
Benzene		1.1	1.0	0.50	ug/l	SW846 8260D
Toluene		0.38 J	1.0	0.50	ug/l	SW846 8260D
FC16634-2	**SEAD-AL-MWT-3-20240620**					
cis-1,2-Dichloroethylene		2.2	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.3	1.0	0.50	ug/l	SW846 8260D
FC16634-3	**SEAD-AL-MW-29-20240620**					
1,1-Dichloroethane		0.68 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		33.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		2.6	1.0	0.50	ug/l	SW846 8260D
FC16634-4	**SEAD-AL-MWT-8-20240620**					
Benzene		0.58 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		2.7	1.0	0.50	ug/l	SW846 8260D
Toluene		0.43 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		0.48 J	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		0.50 J	1.0	0.50	ug/l	SW846 8260D
FC16634-5	**SEAD-AL-MWT-4-20240620**					
1,1-Dichloroethane		0.64 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		37.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.7	1.0	0.50	ug/l	SW846 8260D
FC16634-6	**SEAD-AL-MWT-6-20240620**					
1,1-Dichloroethane		0.38 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		23.2	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.2	1.0	0.50	ug/l	SW846 8260D
FC16634-7	**TRIP BLANK**					

No hits reported in this sample.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-2-20240620		
Lab Sample ID:	FC16634-1	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47537.D	1	06/28/24 16:29	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	1.1	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-2-20240620		
Lab Sample ID:	FC16634-1	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.38	1.0	0.50	0.30	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-3-20240620		
Lab Sample ID:	FC16634-2	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47538.D	1	06/28/24 16:51	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.2	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-3-20240620		
Lab Sample ID:	FC16634-2	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.3	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-29-20240620		
Lab Sample ID:	FC16634-3	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47539.D	1	06/28/24 17:14	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.68	1.0	0.50	0.34	ug/l	J
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	33.4	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-29-20240620		
Lab Sample ID:	FC16634-3	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	2.6	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-8-20240620		
Lab Sample ID:	FC16634-4	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47540.D	1	06/28/24 17:37	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.58	1.0	0.50	0.31	ug/l	J
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.7	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-8-20240620		
Lab Sample ID:	FC16634-4	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.43	1.0	0.50	0.30	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.48	1.0	0.50	0.35	ug/l	J
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50	1.0	0.50	0.41	ug/l	J
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-4-20240620		
Lab Sample ID:	FC16634-5	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47541.D	1	06/28/24 17:59	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.64	1.0	0.50	0.34	ug/l	J
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	37.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-4-20240620		
Lab Sample ID:	FC16634-5	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.7	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-6-20240620		
Lab Sample ID:	FC16634-6	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47542.D	1	06/28/24 18:22	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.38	1.0	0.50	0.34	ug/l	J
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	23.2	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-6-20240620		
Lab Sample ID:	FC16634-6	**Date Sampled:**	06/20/24
Matrix:	AQ - Ground Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.2	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16634-7	**Date Sampled:**	06/20/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47543.D	1	06/28/24 18:45	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16634-7	**Date Sampled:**	06/20/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/21/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC16634 PAGE 1 OF 1

SGS - ORLANDO Quote # SKIFF #

Client / Reporting Information		Project Information		Analytical Information	Matrix Codes
Company Name: EA Engineering		Project Name: Seneca Army Depot			DW - Drinking Water
Address: 333 W Washington St		Street Ash Land Fill			GW - Ground Water
City: Syracuse	State: NY Zip: 13202	City Romulus	State NY		WW - Water
Project Contact: mwright@eaest.com	Email:	Project #			SW - Surface Water
Phone #:		Fax #			SO - Soil
Sampler(s) Name(s) (Printed) Sampler 1: MW	Sampler 2:	Client Purchase Order #			SL- Sludge
					OI - Oil
					LIQ - Other Liquid
					AIR - Air
					SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	CONTAINER INFORMATION MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MECH	VOC	LAB USE ONLY
1	SEAD-AL-MWT-2-20240620	6/20/24	0940	MW	GW				X							X	
2	SEAD-AL-MWT-3-20240620		1025						X							X	
3	SEAD-AL-MW-29-20240620		1035						X							X	
4	SEAD-AL-MWT-8-20240620		0935						X							X	
5	SEAD-AL-MWT-4-20240620		1035						X							X	
6	SEAD-AL-MWT-6-20240620		1110						X							X	
7	Trip Blank	—	—	—	WW				X							X	

Turnaround Time (Business days)	Data Deliverable Information	Comments / Remarks
10 Day (Business) Approved By: / Date:	☐ COMMERCIAL "A" (RESULTS ONLY)	INITIAL ASSESSMENT 2B
7 Day	☒ COMMERCIAL "B" (RESULTS PLUS QC)	LABEL VERIFICATION 2B
5 Day	☐ REDT1 (EPA LEVEL 3)	
3 Day *RUSH*	☐ FULLT1 (EPA LEVEL 4)	
2 Day *RUSH*	☒ EDD'S NYS DEC	
1 Day *RUSH*		
Other		
Rush T/A Data Available VIA Email or Lablink		

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	6/20/24 1700	2	3		4 06/21/24 0930
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 3.0 FR#/

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FC16634: Chain of Custody
Page 1 of 2

SGS - Orlando Sample Receipt Summary

Job Number: fc16634 **Client:** EA ENGINEERING **Project:** SENECA ARMY DEPOT

Date / Time Received: 6/21/2024 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7024 6629 8582

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Sufficient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar Received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: 226422 pH 10-12: Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #

Comments

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 6/21/2024 12:25:09 PM Reviewer: Date:

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E2118	SW846 8260D						
V5E2118-BS	67-64-1	Acetone	BSP	REC	107	%	39-160
V5E2118-BS	71-43-2	Benzene	BSP	REC	99	%	79-120
V5E2118-BS	74-97-5	Bromochloromethane	BSP	REC	104	%	78-123
V5E2118-BS	75-27-4	Bromodichloromethane	BSP	REC	102	%	79-125
V5E2118-BS	75-25-2	Bromoform	BSP	REC	104	%	66-130
V5E2118-BS	78-93-3	2-Butanone (MEK)	BSP	REC	89	%	56-143
V5E2118-BS	75-15-0	Carbon Disulfide	BSP	REC	88	%	64-133
V5E2118-BS	56-23-5	Carbon Tetrachloride	BSP	REC	95	%	72-136
V5E2118-BS	108-90-7	Chlorobenzene	BSP	REC	100	%	82-118
V5E2118-BS	75-00-3	Chloroethane	BSP	REC	122	%	60-138
V5E2118-BS	67-66-3	Chloroform	BSP	REC	103	%	79-124
V5E2118-BS	110-82-7	Cyclohexane	BSP	REC	105	%	71-130
V5E2118-BS	124-48-1	Dibromochloromethane	BSP	REC	96	%	74-126
V5E2118-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	101	%	62-128
V5E2118-BS	106-93-4	1,2-Dibromoethane	BSP	REC	96	%	77-121
V5E2118-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	91	%	32-152
V5E2118-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	101	%	80-119
V5E2118-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	99	%	80-119
V5E2118-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	100	%	79-118
V5E2118-BS	75-34-3	1,1-Dichloroethane	BSP	REC	100	%	77-125
V5E2118-BS	107-06-2	1,2-Dichloroethane	BSP	REC	102	%	73-128
V5E2118-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	106	%	71-131
V5E2118-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	100	%	78-123
V5E2118-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	104	%	75-124
V5E2118-BS	78-87-5	1,2-Dichloropropane	BSP	REC	108	%	78-122
V5E2118-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	93	%	75-124
V5E2118-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	89	%	73-127
V5E2118-BS	100-41-4	Ethylbenzene	BSP	REC	97	%	79-121
V5E2118-BS	76-13-1	Freon 113	BSP	REC	100	%	70-136
V5E2118-BS	591-78-6	2-Hexanone	BSP	REC	100	%	57-139
V5E2118-BS	98-82-8	Isopropylbenzene	BSP	REC	104	%	72-131
V5E2118-BS	79-20-9	Methyl Acetate	BSP	REC	94	%	56-136
V5E2118-BS	74-83-9	Methyl Bromide	BSP	REC	98	%	53-141
V5E2118-BS	74-87-3	Methyl Chloride	BSP	REC	90	%	50-139
V5E2118-BS	108-87-2	Methylcyclohexane	BSP	REC	95	%	72-132
V5E2118-BS	75-09-2	Methylene Chloride	BSP	REC	104	%	74-124
V5E2118-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	104	%	67-130
V5E2118-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	71-124
V5E2118-BS	100-42-5	Styrene	BSP	REC	99	%	78-123
V5E2118-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	104	%	71-121
V5E2118-BS	127-18-4	Tetrachloroethylene	BSP	REC	102	%	74-129
V5E2118-BS	108-88-3	Toluene	BSP	REC	99	%	80-121

* Sample used for QC is not from job FC16634

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E2118-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	103	%	69-129
V5E2118-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	105	%	69-130
V5E2118-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	101	%	74-131
V5E2118-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	104	%	80-119
V5E2118-BS	79-01-6	Trichloroethylene	BSP	REC	101	%	79-123
V5E2118-BS	75-69-4	Trichlorofluoromethane	BSP	REC	90	%	65-141
V5E2118-BS	75-01-4	Vinyl Chloride	BSP	REC	86	%	58-137
V5E2118-BS		m,p-Xylene	BSP	REC	98	%	80-121
V5E2118-BS	95-47-6	o-Xylene	BSP	REC	98	%	78-122
V5E2118-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	98	%	80-119
V5E2118-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V5E2118-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	89-112
V5E2118-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	85-114
FC16592-2MS*	67-64-1	Acetone	MS	REC	99	%	39-160
FC16592-2MS*	71-43-2	Benzene	MS	REC	102	%	79-120
FC16592-2MS*	74-97-5	Bromochloromethane	MS	REC	108	%	78-123
FC16592-2MS*	75-27-4	Bromodichloromethane	MS	REC	99	%	79-125
FC16592-2MS*	75-25-2	Bromoform	MS	REC	91	%	66-130
FC16592-2MS*	78-93-3	2-Butanone (MEK)	MS	REC	89	%	56-143
FC16592-2MS*	75-15-0	Carbon Disulfide	MS	REC	80	%	64-133
FC16592-2MS*	56-23-5	Carbon Tetrachloride	MS	REC	90	%	72-136
FC16592-2MS*	108-90-7	Chlorobenzene	MS	REC	100	%	82-118
FC16592-2MS*	75-00-3	Chloroethane	MS	REC	86	%	60-138
FC16592-2MS*	67-66-3	Chloroform	MS	REC	106	%	79-124
FC16592-2MS*	110-82-7	Cyclohexane	MS	REC	110	%	71-130
FC16592-2MS*	124-48-1	Dibromochloromethane	MS	REC	90	%	74-126
FC16592-2MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	84	%	62-128
FC16592-2MS*	106-93-4	1,2-Dibromoethane	MS	REC	98	%	77-121
FC16592-2MS*	75-71-8	Dichlorodifluoromethane	MS	REC	90	%	32-152
FC16592-2MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	102	%	80-119
FC16592-2MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	99	%	80-119
FC16592-2MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	98	%	79-118
FC16592-2MS*	75-34-3	1,1-Dichloroethane	MS	REC	102	%	77-125
FC16592-2MS*	107-06-2	1,2-Dichloroethane	MS	REC	109	%	73-128
FC16592-2MS*	75-35-4	1,1-Dichloroethylene	MS	REC	105	%	71-131
FC16592-2MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	95	%	78-123
FC16592-2MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	103	%	75-124
FC16592-2MS*	78-87-5	1,2-Dichloropropane	MS	REC	113	%	78-122
FC16592-2MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	84	%	75-124
FC16592-2MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	82	%	73-127
FC16592-2MS*	100-41-4	Ethylbenzene	MS	REC	96	%	79-121
FC16592-2MS*	76-13-1	Freon 113	MS	REC	98	%	70-136
FC16592-2MS*	591-78-6	2-Hexanone	MS	REC	98	%	57-139
FC16592-2MS*	98-82-8	Isopropylbenzene	MS	REC	99	%	72-131
FC16592-2MS*	79-20-9	Methyl Acetate	MS	REC	99	%	56-136

* Sample used for QC is not from job FC16634

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MS*	74-83-9	Methyl Bromide	MS	REC	56	%	53-141
FC16592-2MS*	74-87-3	Methyl Chloride	MS	REC	92	%	50-139
FC16592-2MS*	108-87-2	Methylcyclohexane	MS	REC	98	%	72-132
FC16592-2MS*	75-09-2	Methylene Chloride	MS	REC	107	%	74-124
FC16592-2MS*	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	108	%	67-130
FC16592-2MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	102	%	71-124
FC16592-2MS*	100-42-5	Styrene	MS	REC	99	%	78-123
FC16592-2MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	106	%	71-121
FC16592-2MS*	127-18-4	Tetrachloroethylene	MS	REC	98	%	74-129
FC16592-2MS*	108-88-3	Toluene	MS	REC	97	%	80-121
FC16592-2MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	98	%	69-129
FC16592-2MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	99	%	69-130
FC16592-2MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	104	%	74-131
FC16592-2MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	109	%	80-119
FC16592-2MS*	79-01-6	Trichloroethylene	MS	REC	96	%	79-123
FC16592-2MS*	75-69-4	Trichlorofluoromethane	MS	REC	85	%	65-141
FC16592-2MS*	75-01-4	Vinyl Chloride	MS	REC	86	%	58-137
FC16592-2MS*		m,p-Xylene	MS	REC	95	%	80-121
FC16592-2MS*	95-47-6	o-Xylene	MS	REC	95	%	78-122
FC16592-2MS*	1868-53-7	Dibromofluoromethane	MS	SURR	96	%	80-119
FC16592-2MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FC16592-2MS*	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FC16592-2MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC16592-2MSD*	67-64-1	Acetone	MSD	REC	89	%	39-160
FC16592-2MSD*	67-64-1	Acetone	MSD	RPD	10	%	20
FC16592-2MSD*	71-43-2	Benzene	MSD	REC	100	%	79-120
FC16592-2MSD*	71-43-2	Benzene	MSD	RPD	2	%	20
FC16592-2MSD*	74-97-5	Bromochloromethane	MSD	REC	108	%	78-123
FC16592-2MSD*	74-97-5	Bromochloromethane	MSD	RPD	0	%	20
FC16592-2MSD*	75-27-4	Bromodichloromethane	MSD	REC	97	%	79-125
FC16592-2MSD*	75-27-4	Bromodichloromethane	MSD	RPD	2	%	20
FC16592-2MSD*	75-25-2	Bromoform	MSD	REC	89	%	66-130
FC16592-2MSD*	75-25-2	Bromoform	MSD	RPD	3	%	20
FC16592-2MSD*	78-93-3	2-Butanone (MEK)	MSD	REC	85	%	56-143
FC16592-2MSD*	78-93-3	2-Butanone (MEK)	MSD	RPD	5	%	20
FC16592-2MSD*	75-15-0	Carbon Disulfide	MSD	REC	80	%	64-133
FC16592-2MSD*	75-15-0	Carbon Disulfide	MSD	RPD	0	%	20
FC16592-2MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	91	%	72-136
FC16592-2MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FC16592-2MSD*	108-90-7	Chlorobenzene	MSD	REC	100	%	82-118
FC16592-2MSD*	108-90-7	Chlorobenzene	MSD	RPD	0	%	20
FC16592-2MSD*	75-00-3	Chloroethane	MSD	REC	92	%	60-138
FC16592-2MSD*	75-00-3	Chloroethane	MSD	RPD	6	%	20
FC16592-2MSD*	67-66-3	Chloroform	MSD	REC	103	%	79-124
FC16592-2MSD*	67-66-3	Chloroform	MSD	RPD	2	%	20

* Sample used for QC is not from job FC16634

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MSD*	110-82-7	Cyclohexane	MSD	REC	110	%	71-130
FC16592-2MSD*	110-82-7	Cyclohexane	MSD	RPD	0	%	20
FC16592-2MSD*	124-48-1	Dibromochloromethane	MSD	REC	93	%	74-126
FC16592-2MSD*	124-48-1	Dibromochloromethane	MSD	RPD	3	%	20
FC16592-2MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	83	%	62-128
FC16592-2MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	1	%	20
FC16592-2MSD*	106-93-4	1,2-Dibromoethane	MSD	REC	94	%	77-121
FC16592-2MSD*	106-93-4	1,2-Dibromoethane	MSD	RPD	4	%	20
FC16592-2MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	86	%	32-152
FC16592-2MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	5	%	20
FC16592-2MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	104	%	80-119
FC16592-2MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	2	%	20
FC16592-2MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	98	%	80-119
FC16592-2MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	1	%	20
FC16592-2MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	102	%	79-118
FC16592-2MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	3	%	20
FC16592-2MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	100	%	77-125
FC16592-2MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	2	%	20
FC16592-2MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	104	%	73-128
FC16592-2MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	5	%	20
FC16592-2MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	106	%	71-131
FC16592-2MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	94	%	78-123
FC16592-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	102	%	75-124
FC16592-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	113	%	78-122
FC16592-2MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	0	%	20
FC16592-2MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	86	%	75-124
FC16592-2MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	2	%	20
FC16592-2MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	81	%	73-127
FC16592-2MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	2	%	20
FC16592-2MSD*	100-41-4	Ethylbenzene	MSD	REC	95	%	79-121
FC16592-2MSD*	100-41-4	Ethylbenzene	MSD	RPD	1	%	20
FC16592-2MSD*	76-13-1	Freon 113	MSD	REC	95	%	70-136
FC16592-2MSD*	76-13-1	Freon 113	MSD	RPD	2	%	20
FC16592-2MSD*	591-78-6	2-Hexanone	MSD	REC	97	%	57-139
FC16592-2MSD*	591-78-6	2-Hexanone	MSD	RPD	1	%	20
FC16592-2MSD*	98-82-8	Isopropylbenzene	MSD	REC	101	%	72-131
FC16592-2MSD*	98-82-8	Isopropylbenzene	MSD	RPD	2	%	20
FC16592-2MSD*	79-20-9	Methyl Acetate	MSD	REC	93	%	56-136
FC16592-2MSD*	79-20-9	Methyl Acetate	MSD	RPD	6	%	20
FC16592-2MSD*	74-83-9	Methyl Bromide	MSD	REC	74	%	53-141
FC16592-2MSD*	74-83-9	Methyl Bromide	MSD	RPD	26	%	20
FC16592-2MSD*	74-87-3	Methyl Chloride	MSD	REC	94	%	50-139

* Sample used for QC is not from job FC16634

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MSD*	74-87-3	Methyl Chloride	MSD	RPD	2	%	20
FC16592-2MSD*	108-87-2	Methylcyclohexane	MSD	REC	94	%	72-132
FC16592-2MSD*	108-87-2	Methylcyclohexane	MSD	RPD	4	%	20
FC16592-2MSD*	75-09-2	Methylene Chloride	MSD	REC	106	%	74-124
FC16592-2MSD*	75-09-2	Methylene Chloride	MSD	RPD	2	%	20
FC16592-2MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	104	%	67-130
FC16592-2MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	3	%	20
FC16592-2MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	102	%	71-124
FC16592-2MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	0	%	20
FC16592-2MSD*	100-42-5	Styrene	MSD	REC	98	%	78-123
FC16592-2MSD*	100-42-5	Styrene	MSD	RPD	2	%	20
FC16592-2MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	106	%	71-121
FC16592-2MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	20
FC16592-2MSD*	127-18-4	Tetrachloroethylene	MSD	REC	96	%	74-129
FC16592-2MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	2	%	20
FC16592-2MSD*	108-88-3	Toluene	MSD	REC	98	%	80-121
FC16592-2MSD*	108-88-3	Toluene	MSD	RPD	1	%	20
FC16592-2MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	101	%	69-129
FC16592-2MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	3	%	20
FC16592-2MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	104	%	69-130
FC16592-2MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	5	%	20
FC16592-2MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	98	%	74-131
FC16592-2MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	6	%	20
FC16592-2MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	105	%	80-119
FC16592-2MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	4	%	20
FC16592-2MSD*	79-01-6	Trichloroethylene	MSD	REC	94	%	79-123
FC16592-2MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC16592-2MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	83	%	65-141
FC16592-2MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	2	%	20
FC16592-2MSD*	75-01-4	Vinyl Chloride	MSD	REC	84	%	58-137
FC16592-2MSD*	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FC16592-2MSD*		m,p-Xylene	MSD	REC	96	%	80-121
FC16592-2MSD*		m,p-Xylene	MSD	RPD	1	%	20
FC16592-2MSD*	95-47-6	o-Xylene	MSD	REC	96	%	78-122
FC16592-2MSD*	95-47-6	o-Xylene	MSD	RPD	1	%	20
FC16592-2MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	97	%	80-119
FC16592-2MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	102	%	81-118
FC16592-2MSD*	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
FC16592-2MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	101	%	85-114
V5E2118-MB	1868-53-7	Dibromofluoromethane	MB	SURR	96	%	80-119
V5E2118-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	95	%	81-118
V5E2118-MB	2037-26-5	Toluene-D8	MB	SURR	106	%	89-112
V5E2118-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	108	%	85-114
FC16634-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16634-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118

* Sample used for QC is not from job FC16634

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16634
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/20/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16634-1	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16634-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC16634-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16634-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC16634-2	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
FC16634-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC16634-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16634-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16634-3	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC16634-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC16634-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16634-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16634-4	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16634-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
FC16634-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC16634-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16634-5	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16634-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	107	%	85-114
FC16634-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16634-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC16634-6	2037-26-5	Toluene-D8	SAMP	SURR	108	%	89-112
FC16634-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16634-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16634-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	81-118
FC16634-7	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16634-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	85-114

* Sample used for QC is not from job FC16634

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-MB [a]	5E47523.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.39	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
76-13-1	Freon 113	ND	1.0	0.48	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.44	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-MB [a]	5E47523.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	2.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-BS	5E47521.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	134	107	50-147
71-43-2	Benzene	25	24.7	99	81-122
74-97-5	Bromochloromethane	25	26.1	104	76-123
75-27-4	Bromodichloromethane	25	25.4	102	79-123
75-25-2	Bromoform	25	26.0	104	66-123
78-93-3	2-Butanone (MEK)	125	111	89	56-143
75-15-0	Carbon Disulfide	25	21.9	88	66-148
56-23-5	Carbon Tetrachloride	25	23.7	95	76-136
108-90-7	Chlorobenzene	25	25.0	100	82-124
75-00-3	Chloroethane	25	30.4	122	62-144
67-66-3	Chloroform	25	25.8	103	80-124
110-82-7	Cyclohexane	25	26.2	105	73-138
124-48-1	Dibromochloromethane	25	24.1	96	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.2	101	64-123
106-93-4	1,2-Dibromoethane	25	24.0	96	75-120
75-71-8	Dichlorodifluoromethane	25	22.8	91	42-167
95-50-1	1,2-Dichlorobenzene	25	25.2	101	82-124
541-73-1	1,3-Dichlorobenzene	25	24.8	99	84-125
106-46-7	1,4-Dichlorobenzene	25	25.0	100	78-120
75-34-3	1,1-Dichloroethane	25	24.9	100	81-122
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125
75-35-4	1,1-Dichloroethylene	25	26.4	106	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	27.0	108	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.2	89	80-120
100-41-4	Ethylbenzene	25	24.2	97	81-121
76-13-1	Freon 113	25	24.9	100	72-134
591-78-6	2-Hexanone	125	125	100	61-129
98-82-8	Isopropylbenzene	25	25.9	104	83-132
79-20-9	Methyl Acetate	125	117	94	65-126
74-83-9	Methyl Bromide	25	24.4	98	59-143
74-87-3	Methyl Chloride	25	22.6	90	50-159
108-87-2	Methylcyclohexane	25	23.8	95	76-129
75-09-2	Methylene Chloride	25	26.0	104	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-BS	5E47521.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	130	104	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.5	98	72-117
100-42-5	Styrene	25	24.7	99	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	26.0	104	72-120
127-18-4	Tetrachloroethylene	25	25.4	102	76-135
108-88-3	Toluene	25	24.7	99	80-120
87-61-6	1,2,3-Trichlorobenzene	25	25.7	103	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.2	105	73-129
71-55-6	1,1,1-Trichloroethane	25	25.3	101	75-130
79-00-5	1,1,2-Trichloroethane	25	26.1	104	76-119
79-01-6	Trichloroethylene	25	25.3	101	81-126
75-69-4	Trichlorofluoromethane	25	22.5	90	71-156
75-01-4	Vinyl Chloride	25	21.5	86	69-159
	m,p-Xylene	50	48.8	98	79-126
95-47-6	o-Xylene	25	24.4	98	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16592-2MS	5E47544.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2MSD	5E47545.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2	5E47525.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	FC16592-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		625	619	99	625	559	89	10	50-147/21
71-43-2	Benzene	1.0 U		125	128	102	125	125	100	2	81-122/14
74-97-5	Bromochloromethane	1.0 U		125	135	108	125	135	108	0	76-123/14
75-27-4	Bromodichloromethane	1.0 U		125	124	99	125	121	97	2	79-123/19
75-25-2	Bromoform	1.0 U		125	114	91	125	111	89	3	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		625	558	89	625	531	85	5	56-143/18
75-15-0	Carbon Disulfide	2.0 U		125	99.9	80	125	100	80	0	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		125	113	90	125	114	91	1	76-136/23
108-90-7	Chlorobenzene	1.0 U		125	125	100	125	125	100	0	82-124/14
75-00-3	Chloroethane	2.0 U		125	108	86	125	115	92	6	62-144/20
67-66-3	Chloroform	1.0 U		125	132	106	125	129	103	2	80-124/15
110-82-7	Cyclohexane	1.0 U		125	137	110	125	137	110	0	73-138/18
124-48-1	Dibromochloromethane	1.0 U		125	113	90	125	116	93	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		125	105	84	125	104	83	1	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		125	123	98	125	118	94	4	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		125	112	90	125	107	86	5	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		125	128	102	125	130	104	2	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		125	124	99	125	123	98	1	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		125	123	98	125	127	102	3	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		125	128	102	125	125	100	2	81-122/15
107-06-2	1,2-Dichloroethane	1.3		125	138	109	125	131	104	5	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		125	131	105	125	132	106	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	29.1		125	148	95	125	146	94	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.88	J	125	130	103	125	129	102	1	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		125	141	113	125	141	113	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		125	105	84	125	107	86	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		125	103	82	125	101	81	2	80-120/22
100-41-4	Ethylbenzene	1.0 U		125	120	96	125	119	95	1	81-121/14
76-13-1	Freon 113	1.0 U		125	122	98	125	119	95	2	72-134/20
591-78-6	2-Hexanone	10 U		625	612	98	625	607	97	1	61-129/18
98-82-8	Isopropylbenzene	1.0 U		125	124	99	125	126	101	2	83-132/15
79-20-9	Methyl Acetate	20 U		625	618	99	625	583	93	6	65-126/18
74-83-9	Methyl Bromide	5.0 U		125	70.4	56*	125	91.9	74	26*	59-143/19
74-87-3	Methyl Chloride	2.0 U		125	115	92	125	117	94	2	50-159/19
108-87-2	Methylcyclohexane	1.0 U		125	122	98	125	117	94	4	76-129/17
75-09-2	Methylene Chloride	5.0 U		125	134	107	125	132	106	2	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16592-2MS	5E47544.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2MSD	5E47545.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2	5E47525.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16634-1, FC16634-2, FC16634-3, FC16634-4, FC16634-5, FC16634-6, FC16634-7

CAS No.	Compound	FC16592-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		625	674	108	625	651	104	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		125	128	102	125	128	102	0	72-117/14
100-42-5	Styrene	1.0 U		125	124	99	125	122	98	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		125	133	106	125	132	106	1	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		125	122	98	125	120	96	2	76-135/16
108-88-3	Toluene	1.0 U		125	121	97	125	122	98	1	80-120/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		125	122	98	125	126	101	3	68-131/25
120-82-1	1,2,4-Trichlorobenzene	2.0 U		125	124	99	125	130	104	5	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		125	130	104	125	123	98	6	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		125	136	109	125	131	105	4	76-119/14
79-01-6	Trichloroethylene	12.5		125	133	96	125	130	94	2	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		125	106	85	125	104	83	2	71-156/21
75-01-4	Vinyl Chloride	2.0		125	109	86	125	107	84	2	69-159/18
	m,p-Xylene	2.0 U		250	238	95	250	241	96	1	79-126/15
95-47-6	o-Xylene	1.0 U		125	119	95	125	120	96	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FC16592-2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	95%	79-125%
2037-26-5	Toluene-D8	100%	99%	107%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	106%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-BFB
Lab File ID: 5E47450.D
Instrument ID: GCMS5E
Injection Date: 06/25/24
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	52048	100.0		Pass
96	5.0 - 9.0% of mass 95	3740	7.19		Pass
173	Less than 2.0% of mass 174	195	0.37	(0.40) [a]	Pass
174	50.0 - 200.0% of mass 95	48613	93.4		Pass
175	5.0 - 9.0% of mass 174	3397	6.53	(6.99) [a]	Pass
176	95.0 - 105.0% of mass 174	46925	90.2	(96.5) [a]	Pass
177	5.0 - 10.0% of mass 176	3166	6.08	(6.75) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2113-IC2113	5E47451.D	06/25/24	12:49	00:28	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24	13:12	00:51	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24	13:34	01:13	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24	13:57	01:36	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24	14:20	01:59	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24	14:43	02:22	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24	15:06	02:45	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24	15:29	03:08	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24	16:14	03:53	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-BFB
Lab File ID: 5E47519.D
Instrument ID: GCMS5E
Injection Date: 06/28/24
Injection Time: 09:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	54888	100.0		Pass
96	5.0 - 9.0% of mass 95	3723	6.78		Pass
173	Less than 2.0% of mass 174	228	0.42	(0.45) [a]	Pass
174	50.0 - 200.0% of mass 95	50243	91.5		Pass
175	5.0 - 9.0% of mass 174	3625	6.60	(7.21) [a]	Pass
176	95.0 - 105.0% of mass 174	48149	87.7	(95.8) [a]	Pass
177	5.0 - 10.0% of mass 176	3302	6.02	(6.86) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2118-CC2113	5E47520.D	06/28/24	09:44	00:27	Continuing cal 5
V5E2118-BS	5E47521.D	06/28/24	10:16	00:59	Blank Spike
V5E2118-MB	5E47523.D	06/28/24	11:02	01:45	Method Blank
ZZZZZZ	5E47524.D	06/28/24	11:33	02:16	(unrelated sample)
FC16592-2	5E47525.D	06/28/24	11:56	02:39	(used for QC only; not part of job FC16634)
ZZZZZZ	5E47526.D	06/28/24	12:18	03:01	(unrelated sample)
ZZZZZZ	5E47527.D	06/28/24	12:41	03:24	(unrelated sample)
ZZZZZZ	5E47528.D	06/28/24	13:04	03:47	(unrelated sample)
ZZZZZZ	5E47529.D	06/28/24	13:27	04:10	(unrelated sample)
ZZZZZZ	5E47530.D	06/28/24	13:50	04:33	(unrelated sample)
ZZZZZZ	5E47531.D	06/28/24	14:12	04:55	(unrelated sample)
ZZZZZZ	5E47532.D	06/28/24	14:35	05:18	(unrelated sample)
ZZZZZZ	5E47533.D	06/28/24	14:57	05:40	(unrelated sample)
ZZZZZZ	5E47534.D	06/28/24	15:20	06:03	(unrelated sample)
ZZZZZZ	5E47535.D	06/28/24	15:43	06:26	(unrelated sample)
ZZZZZZ	5E47536.D	06/28/24	16:06	06:49	(unrelated sample)
FC16634-1	5E47537.D	06/28/24	16:29	07:12	SEAD-AL-MWT-2-20240620
FC16634-2	5E47538.D	06/28/24	16:51	07:34	SEAD-AL-MWT-3-20240620
FC16634-3	5E47539.D	06/28/24	17:14	07:57	SEAD-AL-MW-29-20240620
FC16634-4	5E47540.D	06/28/24	17:37	08:20	SEAD-AL-MWT-8-20240620
FC16634-5	5E47541.D	06/28/24	17:59	08:42	SEAD-AL-MWT-4-20240620
FC16634-6	5E47542.D	06/28/24	18:22	09:05	SEAD-AL-MWT-6-20240620
FC16634-7	5E47543.D	06/28/24	18:45	09:28	TRIP BLANK
FC16592-2MS	5E47544.D	06/28/24	19:08	09:51	Matrix Spike
FC16592-2MSD	5E47545.D	06/28/24	19:30	10:13	Matrix Spike Duplicate
V5E2118-ECC2113	5E47546.D	06/28/24	19:53	10:36	Ending cal 5

Internal Standard Area Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2118-CC2113	**Injection Date:**	06/28/24
Lab File ID:	5E47520.D	**Injection Time:**	09:44
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	422604	8.46	286059	11.59	149134	13.95
Check Std [b]	385180	8.46	260456	11.59	141008	13.95
Upper Limit [c]	770360	8.63	520912	11.76	282016	14.12
Lower Limit [d]	192590	8.29	130228	11.42	70504	13.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E2118-BS	395794	8.46	257380	11.59	132416	13.95
V5E2118-MB [e]	342088	8.46	215338	11.59	106839	13.95
ZZZZZZ	344926	8.46	216116	11.60	104830	13.95
FC16592-2	331856	8.46	208662	11.59	103136	13.95
ZZZZZZ	325674	8.46	202467	11.59	99672	13.95
ZZZZZZ	310124	8.46	199293	11.59	95954	13.95
ZZZZZZ	306922	8.46	192780	11.59	93579	13.95
ZZZZZZ	303062	8.46	190060	11.59	93906	13.95
ZZZZZZ	299503	8.46	189977	11.59	93594	13.95
ZZZZZZ	297344	8.46	188275	11.59	89315	13.95
ZZZZZZ	293382	8.46	185376	11.59	90478	13.95
ZZZZZZ	289197	8.46	182651	11.59	88562	13.95
ZZZZZZ	283116	8.46	180269	11.60	87640	13.95
ZZZZZZ	283834	8.46	180220	11.59	88720	13.95
ZZZZZZ	280786	8.46	178543	11.59	86491	13.95
FC16634-1	279615	8.46	177669	11.59	85684	13.95
FC16634-2	272247	8.46	177797	11.59	84921	13.95
FC16634-3	274701	8.46	174737	11.59	84049	13.95
FC16634-4	272114	8.46	173803	11.60	84839	13.95
FC16634-5	272225	8.46	169353	11.59	83141	13.95
FC16634-6	268426	8.46	168637	11.60	82529	13.95
FC16634-7	266357	8.46	169684	11.60	84075	13.95
FC16592-2MS	295535	8.46	198523	11.59	103918	13.95
FC16592-2MSD	307205	8.46	203767	11.59	105377	13.95
V5E2118-ECC2113	320948	8.46	222025	11.59	118502	13.95

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E2113-ICC2113 5E47456.D 06/25/24 14:43
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2118-CC2113	**Injection Date:**	06/28/24
Lab File ID:	5E47520.D	**Injection Time:**	09:44
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC16634-1	5E47537.D	94	95	105	105
FC16634-2	5E47538.D	96	97	104	105
FC16634-3	5E47539.D	97	95	106	105
FC16634-4	5E47540.D	94	95	105	104
FC16634-5	5E47541.D	95	95	107	107
FC16634-6	5E47542.D	94	97	108	106
FC16634-7	5E47543.D	96	97	105	102
FC16592-2MS	5E47544.D	96	102	100	98
FC16592-2MSD	5E47545.D	97	102	99	101
V5E2118-BS	5E47521.D	98	100	101	103
V5E2118-MB	5E47523.D	96	95	106	108

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

Response Factor Report MSVOA20_5E

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Calibration Files
1 =5E47451.D 2 =5E47453.D 3 =5E47454.D 4 =5E47455.D
5 =5E47456.D 6 =5E47457.D 7 =5E47458.D 8 =5E47452.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------									
2) Dichlorodifl	0.176	0.151	0.154	0.144	0.158	0.159	0.162	0.146	0.156	6.38
3) Chloromethan	0.369	0.253	0.253	0.231	0.237	0.241	0.247	0.264	0.262	16.94
---- Linear regr., Force(0,0) ---- Coefficient = 0.9991										
Response Ratio = 0.00000 + 0.24308 *A										
4) Vinyl Chlori	0.433	0.309	0.319	0.293	0.308	0.306	0.291	0.299	0.320	14.61
5) 1,3-Butadien	0.724	0.566	0.490	0.411	0.405	0.374	0.366	0.535	0.484	25.28
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.39044 *A										
6) Bromomethane	0.313	0.190	0.203	0.185	0.201	0.221	0.235	0.223	0.222	18.32
---- Linear regr., Force(0,0) ---- Coefficient = 0.9921										
Response Ratio = 0.00000 + 0.21907 *A										
7) Chloroethane	0.277	0.204	0.228	0.261	0.213			0.212	0.232	12.81
8) Trichloroflu	0.373	0.281	0.279	0.275	0.308	0.323	0.371	0.269	0.310	13.65
9) Ethyl Ether	0.141	0.133	0.161	0.142	0.151	0.156	0.165	0.151	0.150	7.21
10) Ethanol		0.000	0.001	0.003	0.003	0.003	0.003		0.002	60.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.00314 *A										
11) 1,2-Dichloro	0.124	0.143	0.157	0.150	0.161	0.163	0.175	0.195	0.158	13.28
12) 1,1-Dichloro	0.238	0.241	0.272	0.240	0.270	0.280	0.300	0.294	0.267	9.25
13) Freon 113	0.125	0.153	0.188	0.166	0.184	0.188	0.197	0.203	0.175	14.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9968										
Response Ratio = 0.00000 + 0.18777 *A										
14) Carbon Disul	0.549	0.484	0.518	0.457	0.502	0.524	0.561	0.607	0.525	8.94
15) Iodomethane	0.074	0.115	0.174	0.180	0.196	0.208	0.220	0.099	0.158	34.48
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.20337 *A										
16) Acrolein	0.023	0.034	0.033	0.038	0.041	0.044	0.045	0.034	0.036	19.96
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.04237 *A										
17) Allyl chlori	0.371	0.327	0.275	0.270	0.288	0.302	0.310	0.246	0.298	12.88
18) Methylene Ch	0.955	0.397	0.380	0.270	0.276	0.274	0.285	0.673	0.439	56.68
---- Linear regr., Force(0,0) ---- Coefficient = 0.9965										
Response Ratio = 0.00000 + 0.29052 *A										
19) Acetone	0.087	0.084	0.084	0.089	0.084	0.091	0.094	0.093	0.088	4.69
20) Methyl aceta	0.165	0.172	0.206	0.201	0.210	0.234	0.248	0.171	0.201	15.17
---- Linear regr., Force(0,0) ---- Coefficient = 0.9939										
Response Ratio = 0.00000 + 0.22958 *A										

Initial Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

21)	trans-1,2-Di	0.254	0.231	0.268	0.238	0.263	0.282	0.308	0.281	0.266	9.45
22)	Hexane	0.110	0.155	0.172	0.151	0.170	0.171	0.180	0.189	0.162	14.99

---- Linear regr., Force(0,0) ---- Coefficient = 0.9969
Response Ratio = 0.00000 + 0.17216 *A

23)	Methyl Tert	0.452	0.442	0.514	0.477	0.513	0.545	0.574	0.513	0.504	8.93
24)	Acetonitrile	0.034	0.033	0.032	0.032	0.033	0.037	0.038	0.028	0.033	9.39
25)	Di-isopropyl	0.627	0.606	0.726	0.635	0.667	0.688	0.722	0.724	0.674	7.11
26)	Chloroprene	0.193	0.241	0.213	0.222	0.242	0.261	0.280	0.199	0.231	13.00
27)	1,1-Dichloro	0.326	0.313	0.376	0.328	0.350	0.364	0.390	0.372	0.352	7.83
28)	Acrylonitril	0.082	0.103	0.082	0.097	0.102	0.111	0.115	0.090	0.098	12.73
29)	ETBE	0.447	0.457	0.567	0.507	0.551	0.598	0.648	0.545	0.540	12.63
30)	Tert Butyl A	0.025	0.030	0.036	0.035	0.037	0.042	0.043	0.032	0.035	16.79

---- Linear regr., Force(0,0) ---- Coefficient = 0.9944
Response Ratio = 0.00000 + 0.04020 *A

31)	Vinyl acetat	0.012	0.422	0.420	0.500	0.545	0.610	0.652	0.384	0.443	44.80

---- Linear regr., Force(0,0) ---- Coefficient = 0.9915
Response Ratio = 0.00000 + 0.59015 *A

32)	cis-1,2-Dich	0.174	0.179	0.211	0.189	0.199	0.200	0.216	0.202	0.196	7.43
33)	2,2-Dichloro	0.209	0.206	0.229	0.215	0.236	0.241	0.259	0.221	0.227	7.89
34)	Bromochlorom	0.067	0.083	0.096	0.084	0.088	0.090	0.096	0.068	0.084	13.41
35)	Cyclohexane	0.241	0.297	0.341	0.310	0.349	0.363	0.384	0.341	0.328	13.63
36)	Chloroform	0.277	0.292	0.342	0.317	0.334	0.349	0.372	0.331	0.327	9.41
37)	Ethyl acetat	0.291	0.285	0.273	0.303	0.318	0.343	0.355	0.276	0.306	10.03
38)	Tetrahydrofu	0.088	0.127	0.140	0.112	0.111	0.119	0.118	0.133	0.118	13.42
39)	Dibromofluor	0.251	0.255	0.257	0.256	0.259	0.267	0.271	0.259	0.259	2.52
40)	Carbon Tetra	0.138	0.165	0.193	0.180	0.207	0.223	0.243	0.205	0.194	17.03

---- Linear regr., Force(0,0) ---- Coefficient = 0.9910
Response Ratio = 0.00000 + 0.22110 *A

41)	1,1,1-Trichl	0.230	0.217	0.260	0.232	0.254	0.264	0.285	0.265	0.251	9.06
42)	2-Butanone	0.011	0.134	0.145	0.164	0.154	0.168	0.171	0.138	0.136	38.39

---- Linear regr., Force(0,0) ---- Coefficient = 0.9983
Response Ratio = 0.00000 + 0.16399 *A

43)	1,1-Dichloro	0.206	0.203	0.245	0.228	0.253	0.259	0.275	0.249	0.240	10.63
44)	tert-Butyl f	0.030	0.031	0.042	0.043	0.049	0.060	0.066	0.035	0.044	29.70

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990
Response Ratio = 0.00000 + 0.03655 *A + 0.00153 *A^2

45)	Propionitril	0.037	0.043	0.042	0.044	0.046	0.055	0.059	0.030	0.045	20.58

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994
Response Ratio = 0.00000 + 0.03910 *A + 0.00102 *A^2

46)	Methacryloni	0.178	0.188	0.186	0.191	0.210	0.244	0.263	0.149	0.201	18.39

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995
Response Ratio = 0.00000 + 0.17446 *A + 0.00456 *A^2

47)	Benzene	0.806	0.703	0.797	0.719	0.788	0.843	0.913	0.836	0.801	8.44
48)	TAME	0.443	0.436	0.523	0.498	0.536	0.567	0.611	0.500	0.514	11.47
49)	1,2-Dichloro	0.290	0.289	0.297	0.310	0.303	0.322	0.329	0.294	0.304	4.97
50)	1,2-Dichloro	0.208	0.212	0.255	0.232	0.249	0.260	0.274	0.249	0.242	9.60
51)	tert Amyl al	0.017	0.020	0.026	0.026	0.028	0.031	0.033	0.019	0.025	22.72

---- Linear regr., Force(0,0) ---- Coefficient = 0.9933
Response Ratio = 0.00000 + 0.03016 *A

52)	Trichloroeth	0.181	0.184	0.197	0.178	0.194	0.211	0.228	0.201	0.197	8.47

Initial Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
53) Methylcycloh 0.222 0.275 0.321 0.291 0.345 0.356 0.386 0.339 0.317  16.45
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9930
              Response Ratio = 0.00000 + 0.35604 *A

54) Dibromometha 0.071 0.099 0.123 0.112 0.120 0.129 0.133 0.114 0.113  17.84
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9968
              Response Ratio = 0.00000 + 0.12645 *A

55) 1,2-Dichloro 0.165 0.170 0.200 0.181 0.193 0.196 0.208 0.193 0.188   7.93
56) Bromodichlor 0.171 0.180 0.220 0.203 0.222 0.242 0.258 0.218 0.214  13.56
57) Methyl metha 0.057 0.192 0.195 0.197 0.204 0.218 0.222 0.070 0.169  39.21
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.21217 *A

58) 1,4-Dioxane        0.002 0.002 0.002 0.003 0.003 0.003 0.001 0.002  37.49
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9934
              Response Ratio = 0.00000 + 0.00281 *A

59) 2-Chloroethy 0.058 0.069 0.087 0.088 0.089 0.101 0.098 0.073 0.083  17.87
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.09496 *A

60) cis-1,3-Dich 0.152 0.192 0.254 0.242 0.267 0.285 0.301 0.213 0.238  20.93
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9949
              Response Ratio = 0.00000 + 0.28014 *A


61) I   Chlorobenzene-d5      ----------------ISTD--------------------
62) Toluene-d8   1.452 1.446 1.470 1.426 1.374 1.310 1.221 1.473 1.397   6.43
63) Toluene      1.479 1.067 1.245 1.059 1.101 1.085 1.099 1.353 1.186  13.23
64) Isobutyl alc 0.020 0.019 0.019 0.021 0.022 0.025 0.024 0.016 0.021  13.81
65) 2-Nitropropa 0.035 0.047 0.054 0.059 0.066 0.077 0.081 0.050 0.059  26.56
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.05308 *A + 0.00300 *A^2

66) 4-Methyl-2-p 0.374 0.451 0.454 0.509 0.467 0.498 0.501 0.497 0.469   9.47
67) trans-1,3-Di 0.153 0.248 0.346 0.333 0.363 0.393 0.407 0.257 0.312  27.65
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9956
              Response Ratio = 0.00000 + 0.38113 *A

68) Tetrachloroe 0.259 0.253 0.289 0.272 0.294 0.298 0.310 0.316 0.286   8.02
69) Ethyl methac 0.161 0.305 0.333 0.346 0.367 0.376 0.370 0.129 0.298  32.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.36326 *A

70) 1,1,2-Trichl 0.179 0.198 0.236 0.217 0.222 0.223 0.219 0.214 0.213   8.10
71) Dibromochlor 0.134 0.175 0.212 0.212 0.229 0.238 0.246 0.189 0.204  18.16
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 0.23388 *A

72) 1,3-Dichloro 0.309 0.366 0.453 0.399 0.406 0.404 0.397 0.388 0.390  10.47
73) 1,2-Dibromoe 0.101 0.194 0.259 0.239 0.247 0.255 0.248 0.222 0.220  23.89
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.24720 *A

74) 3,3-Dimethyl 0.018 0.015 0.019 0.024 0.027 0.037 0.041 0.015 0.024  40.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.01783 *A + 0.00024 *A^2

75) 2-hexanone   0.215 0.275 0.307 0.356 0.334 0.365 0.365 0.264 0.310  17.69
```

Initial Calibration Summary

Job Number: FC16634 **Sample:** V5E2113-ICC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47456.D
Project: Former Seneca Army Depot; Romulus, NY

```
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.35355 *A

 76) 1-Chlorohexa 0.246 0.297 0.367 0.346 0.382 0.380 0.387 0.329 0.342  14.42
 77) Ethylbenzene 1.587 1.222 1.361 1.251 1.321 1.365 1.449 1.521 1.385   9.18
 78) Chlorobenzen 0.715 0.663 0.773 0.716 0.740 0.758 0.798 0.818 0.748   6.68
 79) 1,1,1,2-Tetr 0.189 0.176 0.224 0.213 0.228 0.232 0.239 0.207 0.214  10.37
 80) m,p-Xylene   1.091 0.848 0.998 0.906 0.984 1.033 1.116 1.037 1.002   8.95
 81) o-Xylene     1.042 0.806 0.994 0.893 0.927 0.927 0.958 0.985 0.941   7.61
 82) Styrene      0.390 0.520 0.668 0.639 0.668 0.691 0.719 0.550 0.606  18.27
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.68669 *A

 83) Bromoform    0.035 0.097 0.123 0.137 0.154 0.170 0.180 0.090 0.123  38.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.12052 *A + 0.03150 *A^2

 84) Isopropylben 0.978 0.989 1.135 1.024 1.101 1.117 1.167 1.150 1.083   6.90

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86) 4-Bromofluor 0.876 0.858 0.858 0.833 0.816 0.762 0.700 0.891 0.824   7.77
 87) cis-1,4-Dich 0.164 0.100 0.101 0.123 0.136 0.142 0.146 0.208 0.140  25.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
               Response Ratio = 0.00000 + 0.12058 *A + 0.01369 *A^2

 88) n-Propylbenz 2.660 2.493 2.825 2.477 2.675 2.558 2.579 2.970 2.655   6.39
 89) Bromobenzene 0.406 0.465 0.540 0.482 0.500 0.491 0.483 0.552 0.490   9.21
 90) 1,1,2,2-Tetr 0.593 0.631 0.804 0.710 0.743 0.721 0.687 0.722 0.701   9.33
 91) 1,3,5-Trimet 1.491 1.470 1.736 1.543 1.709 1.700 1.780 1.710 1.642   7.37
 92) 2-Chlorotolu 1.775 1.597 1.836 1.589 1.730 1.669 1.741 1.911 1.731   6.45
 93) trans-1,4-Di       0.057 0.092 0.128 0.139 0.153 0.153 0.078 0.114  33.71
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9924
               Response Ratio = 0.00000 + 0.14332 *A

 94) 1,2,3-Trichl 0.102 0.149 0.198 0.178 0.182 0.183 0.174 0.192 0.170  18.14
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.17864 *A

 95) Cyclohexanon 0.028 0.017 0.018 0.021 0.024 0.025 0.024 0.004 0.020  36.31
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9907
               Response Ratio = 0.00000 + 0.02330 *A

 96) 4-Chlorotolu 1.480 1.389 1.560 1.384 1.468 1.416 1.431 1.559 1.461   4.76
 97) a-Methyl sty                                                 0.000  -1.00
 98) tert-Butylbe 0.851 0.914 0.938 0.863 0.939 0.919 0.943 1.085 0.931   7.64
 99) 1,2,4-Trimet 1.515 1.407 1.705 1.537 1.645 1.626 1.693 1.676 1.600   6.53
100) Pentachloroe 0.116 0.210 0.219 0.229 0.267 0.276 0.283 0.141 0.218  28.33
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9961
               Response Ratio = 0.00000 + 0.26779 *A

101) sec-Butylben 2.068 1.999 2.152 1.943 2.162 2.058 2.087 2.402 2.109   6.58
102) 4-Isopropylt 1.333 1.427 1.669 1.508 1.696 1.648 1.693 1.640 1.577   8.72
103) 1,3-Dichloro 0.897 0.875 0.974 0.871 0.933 0.913 0.921 1.009 0.924   5.15
104) 1,2,3-Trimet 1.705 1.563 1.873 1.705 1.885 1.896 1.998 1.934 1.820   8.04
105) 1,4-Dichloro 1.006 0.992 1.141 1.019 1.085 1.075 1.124 1.153 1.074   5.86
106) n-Butylbenze 0.494 0.701 0.849 0.816 0.932 0.915 0.921 0.906 0.817  18.51
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.90169 *A

107) Benzyl Chlor 0.163 0.081 0.119 0.154 0.172 0.191 0.197 0.020 0.137  44.26
```

Initial Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9935
                Response Ratio = 0.00000 + 0.13023 *A + 0.03685 *A^2

108) 1,2-Dichloro 0.736 0.738 0.922 0.824 0.877 0.853 0.850 0.915 0.839   8.49
109) 1,2-Dibromo- 0.099 0.063 0.084 0.091 0.099 0.107 0.106 0.019 0.083  35.41
              ---- Linear regr., Force(0,0) ----  Coefficient =  0.9921
                Response Ratio = 0.00000 + 0.10107 *A

110) Hexachlorobu 0.162 0.169 0.167 0.159 0.170 0.171 0.166 0.210 0.172   9.27
111) 1,2,4-Trichl 0.336 0.383 0.448 0.411 0.462 0.459 0.452 0.436 0.424  10.49
112) Naphthalene  0.810 1.062 1.316 1.265 1.352 1.369 1.321 1.043 1.192  16.75
              ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
                Response Ratio = 0.00000 + 1.32416 *A

113) 1,2,3-Trichl 0.315 0.368 0.400 0.374 0.406 0.400 0.387 0.404 0.382   8.00
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           V5E2113_06252024_.M        Wed Jun 26 07:06:10 2024
```

Initial Calibration Verification

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-25-2024\5E47460.D Vial: 11
Acq On : 25 Jun 2024 4:14 pm Operator: lianatr
Sample : ICV2113-5 Inst : MSVOA20_5E
Misc : MS56909,V5E2113,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.184	-17.9	124	0.00	2.81
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	41.806	-4.5	114	0.00	3.13
		AvgRF	CCRF	%Dev			
4	Vinyl Chloride	0.320	0.325	-1.6	112	0.00	3.27
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	40.955	-2.4	105	0.00	3.30
6	Bromomethane	40.000	39.107	2.2	113	0.00	3.77
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.232	0.261	-12.5	130	0.00	3.94
8	Trichlorofluoromethane	0.310	0.310	0.0	107	0.00	4.16
9	Ethyl Ether	0.150	0.145	3.3	101	0.00	4.58
		Amount	Calc.	%Drift			
10	Ethanol	800.000	759.838	5.0	103	0.00	4.77
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.158	0.230	-45.6#	152	0.00	4.83
12	1,1-Dichloroethene	0.267	0.272	-1.9	107	0.00	4.86
		Amount	Calc.	%Drift			
13	Freon 113	40.000	38.752	3.1	105	0.00	4.90
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.525	0.434	17.3	92	0.00	4.92
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	33.752	15.6	93	0.00	5.06
16	Acrolein	200.000	226.456	-13.2	125	0.00	5.29
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.299	-0.3	110	0.00	5.46
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	39.178	2.1	109	0.00	5.59
		AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

19		Acetone	0.088	0.092	-4.5	116	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	191.917	4.0	111	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.271	-1.9	109	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	36.066	9.8	97	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.519	-3.0	107	0.00	5.89
24		Acetonitrile	0.033	0.034	-3.0	110	0.00	6.20
25		Di-isopropyl ether	0.674	0.643	4.6	102	0.00	6.32
26		Chloroprene	0.231	0.258	-11.7	113	0.00	6.48
27		1,1-Dichloroethane	0.352	0.350	0.6	106	0.00	6.52
28		Acrylonitrile	0.098	0.095	3.1	99	0.00	6.57
29		ETBE	0.540	0.542	-0.4	104	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	360.932	9.8	105	0.00	5.97
31		Vinyl acetate	200.000	185.431	7.3	107	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.200	-2.0	107	0.00	7.13
33		2,2-Dichloropropane	0.227	0.255	-12.3	114	0.00	7.25
34		Bromochloromethane	0.084	0.089	-6.0	108	0.00	7.35
35		Cyclohexane	0.328	0.342	-4.3	104	0.00	7.36
36		Chloroform	0.327	0.348	-6.4	110	0.00	7.41
37		Ethyl acetate	0.306	0.308	-0.7	103	0.00	7.50
38		Tetrahydrofuran	0.118	0.110	6.8	105	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.266	-2.7	109	0.00	7.61
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	39.507	1.2	112	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.258	-2.8	108	0.00	7.66
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	180.858	9.6	102	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.261	-8.8	109	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	423.888	-6.0	114	0.00	7.87
45		Propionitrile	400.000	404.330	-1.1	110	0.00	8.05
46		Methacrylonitrile	400.000	399.820	0.0	107	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.807	-0.7	109	0.00	8.05
48		TAME	0.514	0.514	0.0	102	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.327	-7.6	114	0.00	8.18
50		1,2-Dichloroethane	0.242	0.253	-4.5	108	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	386.588	3.4	111	0.00	8.28

Initial Calibration Verification

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.198	-0.5	109	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	38.002	5.0	104	0.00	8.64
54		Dibromomethane	40.000	39.455	1.4	110	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.201	-6.9	111	0.00	9.17
56		Bromodichloromethane	0.214	0.223	-4.2	106	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	38.119	4.7	105	0.00	9.33
58		1,4-Dioxane	800.000	717.106	10.4	102	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	188.312	5.8	106	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	39.838	0.4	111	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	11.59
62	S	Toluene-d8	1.397	1.389	0.6	107	0.00	10.03
63		Toluene	1.186	1.129	4.8	109	0.00	10.09
64		Isobutyl alcohol	0.021	0.023	-9.5	109	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	208.216	-4.1	109	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.495	-5.5	112	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	37.429	6.4	104	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.298	-4.2	107	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	40.482	-1.2	106	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.224	-5.2	107	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	40.246	-0.6	109	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.432	-10.8	113	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	39.570	1.1	105	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2039.782	-2.0	110	0.00	11.19
75		2-hexanone	200.000	205.001	-2.5	115	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.381	-11.4	106	0.00	11.54
77		Ethylbenzene	1.385	1.347	2.7	108	0.00	11.61
78		Chlorobenzene	0.748	0.753	-0.7	108	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.230	-7.5	107	0.00	11.66
80		m,p-Xylene	1.002	0.990	1.2	106	0.00	11.75
81		o-Xylene	0.941	0.917	2.6	105	0.00	12.19

Initial Calibration Verification

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			Amount	Calc.	%Drift			
82		Styrene	40.000	40.018	-0.0	109	0.00	12.24
83		Bromoform	40.000	41.712	-4.3	105	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.109	-2.4	107	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.813	1.3	108	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	43.850	-9.6	116	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.615	1.5	106	0.00	12.91
89		Bromobenzene	0.490	0.513	-4.7	112	0.00	12.93
90		1,1,2,2-Tetrachloroethane	0.701	0.724	-3.3	106	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.712	-4.3	109	0.00	13.09
92		2-Chlorotoluene	1.731	1.692	2.3	106	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	42.700	-6.8	119	0.00	13.16
94		1,2,3-Trichloropropane	40.000	42.845	-7.1	114	0.00	13.14
95		Cyclohexanone	200.000	306.622	-53.3#	163	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.432	2.0	106	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.926	0.5	107	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.652	-3.2	109	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	39.006	2.5	106	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.011	4.6	101	0.00	13.62
102		4-Isopropyltoluene	1.577	1.645	-4.3	105	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.904	2.2	105	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.842	-1.2	106	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.076	-0.2	108	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	41.961	-4.9	110	0.00	14.17
107		Benzyl Chloride	40.000	42.741	-6.9	109	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.858	-2.3	106	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	42.520	-6.3	118	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.181	-5.2	115	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.451	-6.4	106	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.390	1.5	105	0.00	16.01
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

113	1,2,3-Trichlorobenzene	0.382	0.393	-2.9	105	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Wed Jun 26 07:05:58 2024

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-28-2024\5E47520.D Vial: 2
Acq On : 28 Jun 2024 9:44 am Operator: lianatr
Sample : CC2113-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2118,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	91	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.165	-5.8	95	0.00	2.81
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	43.296	-8.2	101	0.00	3.13
		AvgRF	CCRF	%Dev			
4	Vinyl Chloride	0.320	0.335	-4.7	99	0.00	3.27
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	44.307	-10.8	97	0.00	3.30
6	Bromomethane	40.000	46.559	-16.4	116	0.00	3.77
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.232	0.291	-25.4#	124	0.00	3.95
8	Trichlorofluoromethane	0.310	0.335	-8.1	99	0.00	4.15
9	Ethyl Ether	0.150	0.162	-8.0	98	0.00	4.58
		Amount	Calc.	%Drift			
10	Ethanol	800.000	881.085	-10.1	103	0.00	4.77
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.158	0.262	-65.8#	148	0.00	4.83
12	1,1-Dichloroethene	0.267	0.313	-17.2	106	0.00	4.86
		Amount	Calc.	%Drift			
13	Freon 113	40.000	43.673	-9.2	102	0.00	4.90
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.525	0.605	-15.2	110	0.00	4.92
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	42.052	-5.1	100	0.00	5.06
16	Acrolein	200.000	202.640	-1.3	96	0.00	5.29
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.330	-10.7	105	0.00	5.46
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	42.337	-5.8	102	0.00	5.59
		AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16634 **Sample:** V5E2118-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47520.D
Project: Former Seneca Army Depot; Romulus, NY

19		Acetone	0.088	0.093	-5.7	101	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	203.229	-1.6	101	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.299	-12.4	104	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	44.984	-12.5	104	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.529	-5.0	94	0.00	5.89
24		Acetonitrile	0.033	0.039	-18.2	108	0.00	6.20
25		Di-isopropyl ether	0.674	0.732	-8.6	100	0.00	6.32
26		Chloroprene	0.231	0.272	-17.7	102	0.00	6.48
27		1,1-Dichloroethane	0.352	0.391	-11.1	102	0.00	6.52
28		Acrylonitrile	0.098	0.108	-10.2	97	0.00	6.57
29		ETBE	0.540	0.591	-9.4	98	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	388.897	2.8	97	0.00	5.97
31		Vinyl acetate	200.000	193.654	3.2	96	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.210	-7.1	96	0.00	7.12
33		2,2-Dichloropropane	0.227	0.265	-16.7	102	0.00	7.25
34		Bromochloromethane	0.084	0.097	-15.5	100	0.00	7.35
35		Cyclohexane	0.328	0.400	-22.0#	104	0.00	7.36
36		Chloroform	0.327	0.362	-10.7	99	0.00	7.41
37		Ethyl acetate	0.306	0.337	-10.1	97	0.00	7.50
38		Tetrahydrofuran	0.118	0.125	-5.9	102	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.257	0.8	90	0.00	7.60
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	41.379	-3.4	101	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.280	-11.6	100	0.00	7.66
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	206.874	-3.4	100	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.284	-18.3	102	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	445.497	-11.4	104	0.00	7.87
45		Propionitrile	400.000	444.773	-11.2	106	0.00	8.05
46		Methacrylonitrile	400.000	433.058	-8.3	101	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.877	-9.5	101	0.00	8.05
48		TAME	0.514	0.562	-9.3	96	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.300	1.3	90	0.00	8.18
50		1,2-Dichloroethane	0.242	0.259	-7.0	95	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	411.413	-2.9	102	0.00	8.28

Continuing Calibration Summary

Job Number: FC16634 **Sample:** V5E2118-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47520.D
Project: Former Seneca Army Depot; Romulus, NY

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.213	-8.1	100	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	42.638	-6.6	100	0.00	8.64
54		Dibromomethane	40.000	40.329	-0.8	97	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.210	-11.7	99	0.00	9.17
56		Bromodichloromethane	0.214	0.247	-15.4	101	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	42.169	-5.4	100	0.00	9.33
58		1,4-Dioxane	800.000	764.590	4.4	93	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	236.265	-18.1	115	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	41.651	-4.1	100	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	11.59
62	S	Toluene-d8	1.397	1.376	1.5	91	0.00	10.03
63		Toluene	1.186	1.213	-2.3	100	0.00	10.09
64		Isobutyl alcohol	0.021	0.026	-23.8#	108	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	267.586	-33.8#	127	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.495	-5.5	97	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	41.156	-2.9	98	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.318	-11.2	98	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	41.790	-4.5	94	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.233	-9.4	96	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	41.089	-2.7	96	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.435	-11.5	97	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	40.817	-2.0	93	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2060.151	-3.0	96	0.00	11.19
75		2-hexanone	200.000	206.898	-3.4	100	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.427	-24.9#	102	0.00	11.54
77		Ethylbenzene	1.385	1.460	-5.4	101	0.00	11.61
78		Chlorobenzene	0.748	0.802	-7.2	99	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.242	-13.1	96	0.00	11.66
80		m,p-Xylene	1.002	1.081	-7.9	100	0.00	11.75
81		o-Xylene	0.941	1.019	-8.3	100	0.00	12.18

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

			Amount	Calc.	%Drift			
82		Styrene	40.000	42.607	-6.5	100	0.00	12.24
83		Bromoform	40.000	45.257	-13.1	100	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.213	-12.0	100	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.798	3.2	92	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	45.917	-14.8	106	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.866	-7.9	101	0.00	12.91
89		Bromobenzene	0.490	0.508	-3.7	96	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.762	-8.7	97	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.807	-10.0	100	0.00	13.09
92		2-Chlorotoluene	1.731	1.823	-5.3	100	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	44.770	-11.9	109	0.00	13.16
94		1,2,3-Trichloropropane	40.000	40.991	-2.5	95	0.00	13.14
95		Cyclohexanone	200.000	205.214	-2.6	95	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.560	-6.8	100	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.984	-5.7	99	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.738	-8.6	100	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	41.997	-5.0	99	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.289	-8.5	100	0.00	13.62
102		4-Isopropyltoluene	1.577	1.793	-13.7	100	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.968	-4.8	98	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.973	-8.4	99	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.112	-3.5	97	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	44.464	-11.2	102	0.00	14.17
107		Benzyl Chloride	40.000	48.596	-21.5#	111	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.885	-5.5	95	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	40.039	-0.1	97	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.186	-8.1	103	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.451	-6.4	92	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.795	0.5	92	0.00	16.01
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

113	1,2,3-Trichlorobenzene	0.382	0.385	-0.8	90	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Fri Jun 28 11:21:36 2024

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

Evaluate Continuing Calibration Report

Data File : R:\GBS Manila Data V...118\V5E2118\5E47546.d Vial: 28
Acq On : 28 Jun 2024 7:53 pm Operator: lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : R:\GBS Manila Da...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	76	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.166	-6.4	80	0.00	2.81
	---------- True	Calc.	% Drift	----------			
3	Chloromethane	40.000	45.220	-13.0	88	0.00	3.13
	---------- AvgRF	CCRF	% Dev	----------			
4	Vinyl Chloride	0.320	0.327	-2.2	80	0.00	3.27
	---------- True	Calc.	% Drift	----------			
5	1,3-Butadiene	40.000	52.396	-31.0	96	0.00	3.30
6	Bromomethane	40.000	38.528	3.7	80	0.00	3.77
	---------- AvgRF	CCRF	% Dev	----------			
7	Chloroethane	0.232	0.289	-24.6	103	0.00	3.94
8	Trichlorofluoromethane	0.310	0.307	1.0	76	0.00	4.16
9	Ethyl Ether	0.150	0.173	-15.3	87	0.00	4.58
	---------- True	Calc.	% Drift	----------			
10	Ethanol	800.000	699.696	12.5	68	0.00	4.77
	---------- AvgRF	CCRF	% Dev	----------			
11	1,2-Dichlorotrifluoroetha	0.158	0.265	-67.7#	125	0.00	4.83
12	1,1-Dichloroethene	0.267	0.303	-13.5	85	0.00	4.86
	---------- True	Calc.	% Drift	----------			
13	Freon 113	40.000	40.962	-2.4	79	0.00	4.90
	---------- AvgRF	CCRF	% Dev	----------			
14	Carbon Disulfide	0.525	0.556	-5.9	84	0.00	4.92
	---------- True	Calc.	% Drift	----------			
15	Iodomethane	40.000	44.364	-10.9	88	0.00	5.06
16	Acrolein	200.000	173.600	13.2	69	0.00	5.29
	---------- AvgRF	CCRF	% Dev	----------			
17	Allyl chloride	0.298	0.317	-6.4	84	0.00	5.46
	---------- True	Calc.	% Drift	----------			
18	Methylene Chloride	40.000	43.568	-8.9	87	0.00	5.59
	---------- AvgRF	CCRF	% Dev	----------			

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

19		Acetone	0.088	0.081	8.0	73	0.00	5.64
			True	Calc.	% Drift			
20		Methyl acetate	200.000	198.678	0.7	82	0.00	5.78
			AvgRF	CCRF	% Dev			
21		trans-1,2-Dichloroethene	0.266	0.293	-10.2	85	0.00	5.79
			True	Calc.	% Drift			
22		Hexane	40.000	43.269	-8.2	83	0.00	5.87
			AvgRF	CCRF	% Dev			
23		Methyl Tert Butyl Ether	0.504	0.550	-9.1	81	0.00	5.89
24		Acetonitrile	0.033	0.033	0.0	77	0.00	6.20
25		Di-isopropyl ether	0.674	0.777	-15.3	88	0.00	6.32
26		Chloroprene	0.231	0.260	-12.6	82	0.00	6.49
27		1,1-Dichloroethane	0.352	0.393	-11.6	85	0.00	6.52
28		Acrylonitrile	0.098	0.101	-3.1	75	0.00	6.57
29		ETBE	0.540	0.610	-13.0	84	0.00	6.74
			True	Calc.	% Drift			
30		Tert Butyl Alcohol	400.000	334.556	16.4	70	0.00	5.97
31		Vinyl acetate	200.000	198.777	0.6	82	0.00	6.77
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.196	0.213	-8.7	81	0.00	7.13
33		2,2-Dichloropropane	0.227	0.233	-2.6	75	0.00	7.25
34		Bromochloromethane	0.084	0.097	-15.5	84	0.00	7.35
35		Cyclohexane	0.328	0.405	-23.5	88	0.00	7.36
36		Chloroform	0.327	0.360	-10.1	82	0.00	7.41
37		Ethyl acetate	0.306	0.326	-6.5	78	0.00	7.50
38		Tetrahydrofuran	0.118	0.118	0.0	81	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.257	0.8	75	0.00	7.61
			True	Calc.	% Drift			
40		Carbon Tetrachloride	40.000	39.316	1.7	80	0.00	7.58
			AvgRF	CCRF	% Dev			
41		1,1,1-Trichloroethane	0.251	0.267	-6.4	80	0.00	7.66
			True	Calc.	% Drift			
42		2-Butanone	200.000	185.690	7.2	75	0.00	7.72
			AvgRF	CCRF	% Dev			
43		1,1-Dichloropropene	0.240	0.271	-12.9	82	0.00	7.78
			True	Calc.	% Drift			
44		tert-Butyl formate	400.000	404.963	-1.2	77	0.00	7.87
45		Propionitrile	400.000	384.256	3.9	74	0.00	8.05
46		Methacrylonitrile	400.000	420.647	-5.2	81	0.00	8.07
			AvgRF	CCRF	% Dev			
47		Benzene	0.801	0.865	-8.0	83	0.00	8.05
48		TAME	0.514	0.604	-17.5	86	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.305	-0.3	76	0.00	8.18
50		1,2-Dichloroethane	0.242	0.270	-11.6	82	0.00	8.25
			True	Calc.	% Drift			
51		tert Amyl alcohol	400.000	315.594	21.1	65	0.00	8.28

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

		AvgRF	CCRF	% Dev			
52	Trichloroethene	0.197	0.207	-5.1	81	0.00	8.64
		True	Calc.	% Drift			
53	Methylcyclohexane	40.000	41.303	-3.3	81	0.00	8.64
54	Dibromomethane	40.000	41.915	-4.8	84	0.00	9.08
		AvgRF	CCRF	% Dev			
55	1,2-Dichloropropane	0.188	0.213	-13.3	84	0.00	9.17
56	Bromodichloromethane	0.214	0.240	-12.1	82	0.00	9.22
		True	Calc.	% Drift			
57	Methyl methacrylate	40.000	40.069	-0.2	79	0.00	9.33
58	1,4-Dioxane	800.000	660.446	17.4	67	0.00	9.41
59	2-Chloroethyl vinyl ether	200.000	201.466	-0.7	81	0.00	9.75
60	cis-1,3-Dichloropropene	40.000	39.846	0.4	79	0.00	9.84
		AvgRF	CCRF	% Dev			
61 I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00	11.59
62 S	Toluene-d8	1.397	1.368	2.1	77	0.00	10.03
63	Toluene	1.186	1.181	0.4	83	0.00	10.09
64	Isobutyl alcohol	0.021	0.021	0.0	72	0.00	8.17
		True	Calc.	% Drift			
65	2-Nitropropane	200.000	205.510	-2.8	79	0.00	10.31
		AvgRF	CCRF	% Dev			
66	4-Methyl-2-pentanone	0.469	0.480	-2.3	80	0.00	10.42
		True	Calc.	% Drift			
67	trans-1,3-Dichloropropene	40.000	39.092	2.3	80	0.00	10.48
		AvgRF	CCRF	% Dev			
68	Tetrachloroethene	0.286	0.322	-12.6	85	0.00	10.48
		True	Calc.	% Drift			
69	Ethyl methacrylate	40.000	42.136	-5.3	81	0.00	10.59
		AvgRF	CCRF	% Dev			
70	1,1,2-Trichloroethane	0.213	0.238	-11.7	83	0.00	10.65
		True	Calc.	% Drift			
71	Dibromochloromethane	40.000	39.391	1.5	78	0.00	10.84
		AvgRF	CCRF	% Dev			
72	1,3-Dichloropropane	0.390	0.438	-12.3	84	0.00	10.94
		True	Calc.	% Drift			
73	1,2-Dibromoethane	40.000	40.779	-1.9	79	0.00	11.11
74	3,3-Dimethyl-1-butanol	2000.000	1665.103	16.7	62	0.00	11.19
75	2-hexanone	200.000	183.565	8.2	75	0.00	11.25
		AvgRF	CCRF	% Dev			
76	1-Chlorohexane	0.342	0.398	-16.4	81	0.00	11.54
77	Ethylbenzene	1.385	1.402	-1.2	82	0.00	11.61
78	Chlorobenzene	0.748	0.788	-5.3	83	0.00	11.61
79	1,1,1,2-Tetrachloroethane	0.214	0.234	-9.3	79	0.00	11.66
80	m,p-Xylene	1.002	1.046	-4.4	83	0.00	11.75
81	o-Xylene	0.941	0.979	-4.0	82	0.00	12.18

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

			True	Calc.	% Drift			
82		Styrene	40.000	41.866	-4.7	84	0.00	12.24
83		Bromoform	40.000	39.516	1.2	73	0.00	12.30
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.083	1.171	-8.1	83	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.793	3.8	77	0.00	12.81
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	28.472	28.8	53	0.00	12.85
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	2.655	2.785	-4.9	83	0.00	12.91
89		Bromobenzene	0.490	0.521	-6.3	83	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.753	-7.4	81	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.757	-7.0	82	0.00	13.09
92		2-Chlorotoluene	1.731	1.766	-2.0	81	0.00	13.11
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	27.521	31.2	56	0.00	13.17
94		1,2,3-Trichloropropane	40.000	39.631	0.9	77	0.00	13.14
95		Cyclohexanone	200.000	172.545	13.7	67	0.00	13.22
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	1.461	1.525	-4.4	83	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.969	-4.1	82	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.690	-5.6	82	0.00	13.50
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	33.809	15.5	67	0.00	13.49
			AvgRF	CCRF	% Dev			
101		sec-Butylbenzene	2.109	2.194	-4.0	81	0.00	13.62
102		4-Isopropyltoluene	1.577	1.739	-10.3	81	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.955	-3.4	81	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.964	-7.9	83	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.115	-3.8	82	0.00	13.97
			True	Calc.	% Drift			
106		n-Butylbenzene	40.000	40.769	-1.9	78	0.00	14.17
107		Benzyl Chloride	40.000	35.949	10.1	65	0.00	14.20
			AvgRF	CCRF	% Dev			
108		1,2-Dichlorobenzene	0.839	0.890	-6.1	81	0.00	14.39
			True	Calc.	% Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	33.324	16.7	68	0.00	15.12
			AvgRF	CCRF	% Dev			
110		Hexachlorobutadiene	0.172	0.168	2.3	78	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.448	-5.7	77	0.00	15.71
			True	Calc.	% Drift			
112		Naphthalene	40.000	38.778	3.1	75	0.00	16.00
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

113	1,2,3-Trichlorobenzene	0.382	0.392	-2.6	77	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Mon Jul 01 07:01:15 2024

Run Sequence Report

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2113	**Method:** SW846 8260D	**Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2113-BFB	5E47450.D	06/25/24 12:21	n/a	BFB Tune
V5E2113-IC2113	5E47451.D	06/25/24 12:49	n/a	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24 13:12	n/a	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24 13:34	n/a	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24 13:57	n/a	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24 14:20	n/a	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24 14:43	n/a	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24 15:06	n/a	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24 15:29	n/a	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24 16:14	n/a	Initial cal verification 5

Run Sequence Report

Job Number: FC16634
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2118 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2118-BFB	5E47519.D	06/28/24 09:17	n/a	BFB Tune
V5E2118-CC2113	5E47520.D	06/28/24 09:44	n/a	Continuing cal 5
V5E2118-BS	5E47521.D	06/28/24 10:16	n/a	Blank Spike
V5E2118-MB	5E47523.D	06/28/24 11:02	n/a	Method Blank
ZZZZZZ	5E47524.D	06/28/24 11:33	n/a	(unrelated sample)
FC16592-2	5E47525.D	06/28/24 11:56	n/a	(used for QC only; not part of job FC16634)
ZZZZZZ	5E47526.D	06/28/24 12:18	n/a	(unrelated sample)
ZZZZZZ	5E47527.D	06/28/24 12:41	n/a	(unrelated sample)
ZZZZZZ	5E47528.D	06/28/24 13:04	n/a	(unrelated sample)
ZZZZZZ	5E47529.D	06/28/24 13:27	n/a	(unrelated sample)
ZZZZZZ	5E47530.D	06/28/24 13:50	n/a	(unrelated sample)
ZZZZZZ	5E47531.D	06/28/24 14:12	n/a	(unrelated sample)
ZZZZZZ	5E47532.D	06/28/24 14:35	n/a	(unrelated sample)
ZZZZZZ	5E47533.D	06/28/24 14:57	n/a	(unrelated sample)
ZZZZZZ	5E47534.D	06/28/24 15:20	n/a	(unrelated sample)
ZZZZZZ	5E47535.D	06/28/24 15:43	n/a	(unrelated sample)
ZZZZZZ	5E47536.D	06/28/24 16:06	n/a	(unrelated sample)
FC16634-1	5E47537.D	06/28/24 16:29	n/a	SEAD-AL-MWT-2-20240620
FC16634-2	5E47538.D	06/28/24 16:51	n/a	SEAD-AL-MWT-3-20240620
FC16634-3	5E47539.D	06/28/24 17:14	n/a	SEAD-AL-MW-29-20240620
FC16634-4	5E47540.D	06/28/24 17:37	n/a	SEAD-AL-MWT-8-20240620
FC16634-5	5E47541.D	06/28/24 17:59	n/a	SEAD-AL-MWT-4-20240620
FC16634-6	5E47542.D	06/28/24 18:22	n/a	SEAD-AL-MWT-6-20240620
FC16634-7	5E47543.D	06/28/24 18:45	n/a	TRIP BLANK
FC16592-2MS	5E47544.D	06/28/24 19:08	n/a	Matrix Spike
FC16592-2MSD	5E47545.D	06/28/24 19:30	n/a	Matrix Spike Duplicate
V5E2118-ECC2113	5E47546.D	06/28/24 19:53	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47537.d
Acq On : 28 Jun 2024 4:29 pm
Operator : lianatr
Sample : FC16634-1 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 06:53:04 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

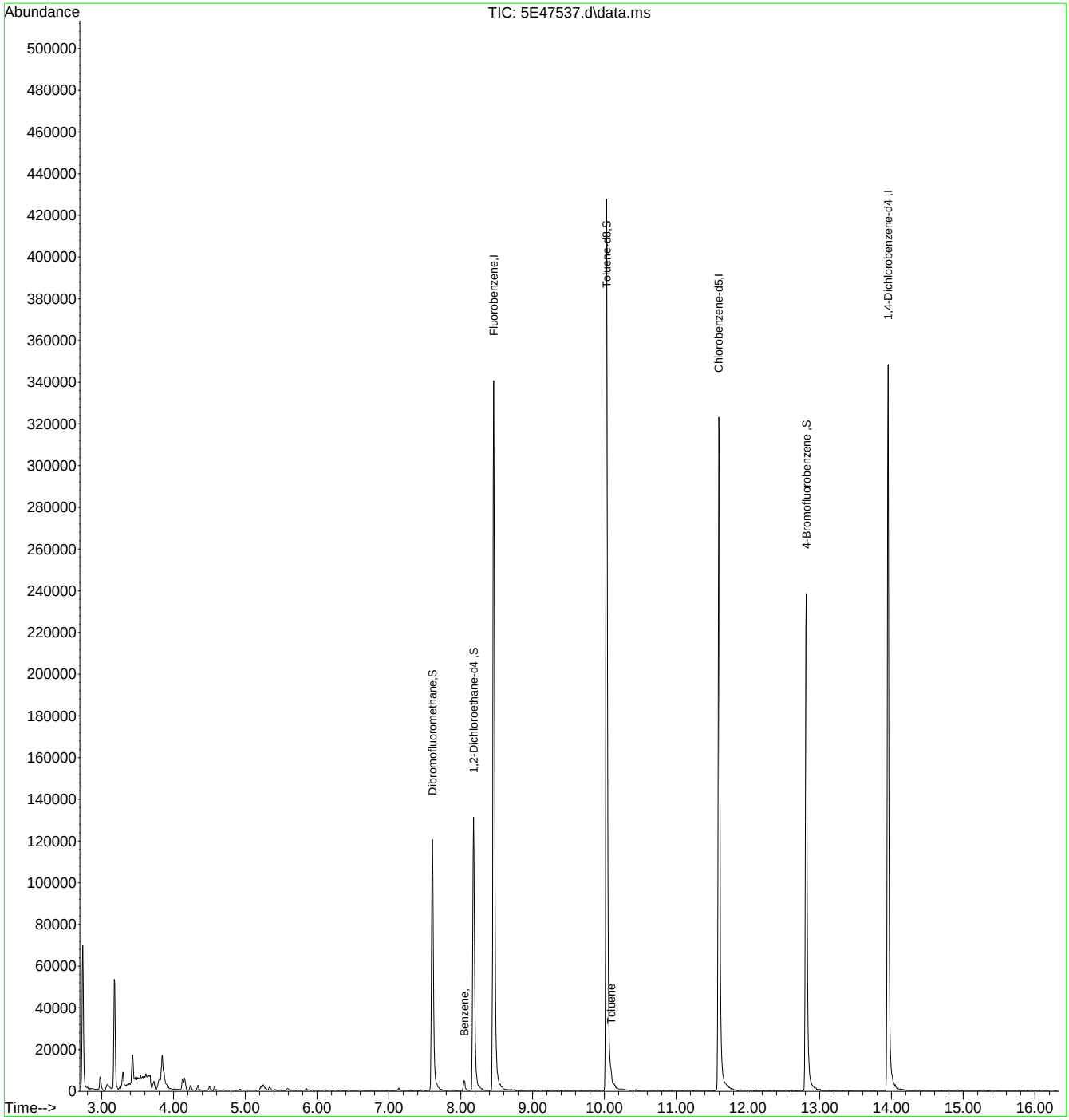
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	279615	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	177669	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	85684	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	67992	46.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.78%			
49) 1,2-Dichloroethane-d4	8.180	65	80634	47.40	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.80%			
62) Toluene-d8	10.033	98	259883	52.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.74%			
86) 4-Bromofluorobenzene	12.813	95	73963	52.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.72%			
Target Compounds						Qvalue
47) Benzene	8.052	78	4924	1.0997	ug/L	83
63) Toluene	10.094	91	1595	0.3785	ug/L	89

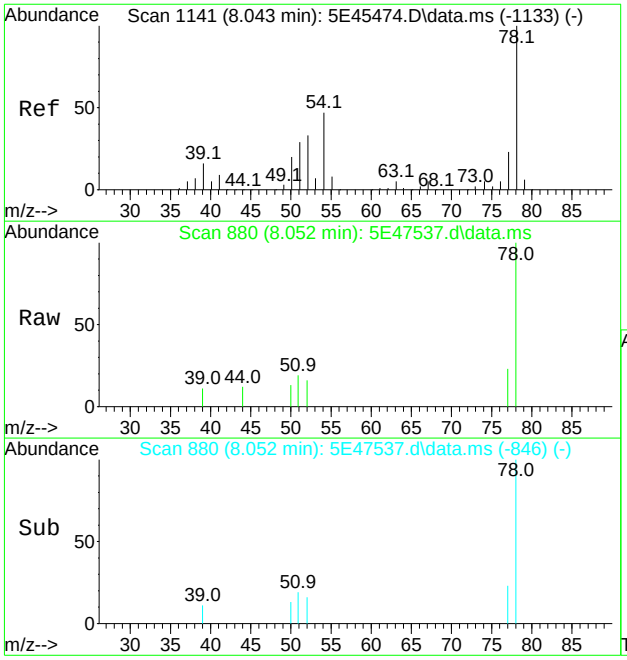
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47537.d
Acq On : 28 Jun 2024 4:29 pm
Operator : lianatr
Sample : FC16634-1 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 01 06:53:04 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

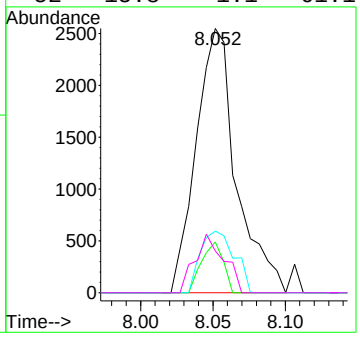


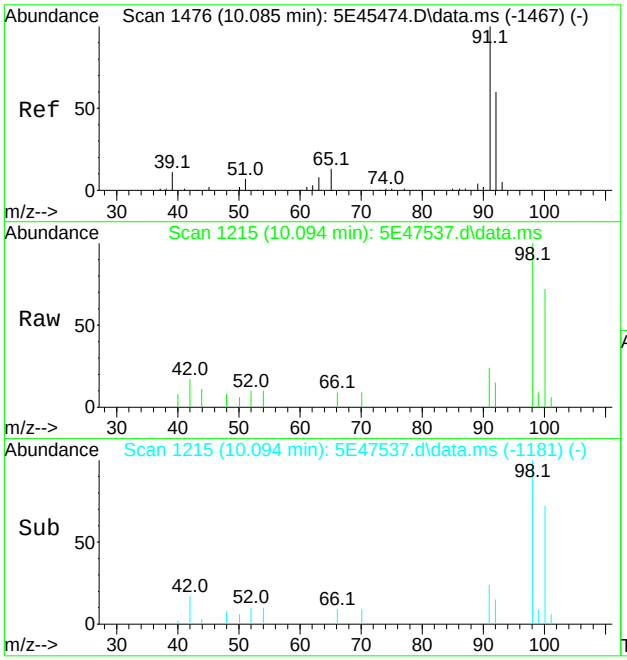


#47
Benzene
Concen: 1.0997 ug/L
RT: 8.052 min Scan# 880
Delta R.T. 0.007 min
Lab File: 5E47537.d
Acq: 28 Jun 2024 4:29 pm

Tgt Ion: 78 Resp: 4924

Ion	Ratio	Lower	Upper
78	100		
51	19.2	0.0	59.4
77	23.3	0.0	53.6
52	15.8	1.1	61.1

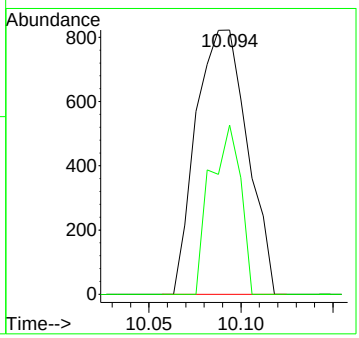




#63
Toluene
Concen: 0.3785 ug/L
RT: 10.094 min Scan# 1215
Delta R.T. 0.006 min
Lab File: 5E47537.d
Acq: 28 Jun 2024 4:29 pm

Tgt Ion: 91 Resp: 1595

Ion	Ratio	Lower	Upper
91	100		
92	64.0	25.8	85.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47538.d
Acq On : 28 Jun 2024 4:51 pm
Operator : lianatr
Sample : FC16634-2 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 01 06:53:25 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

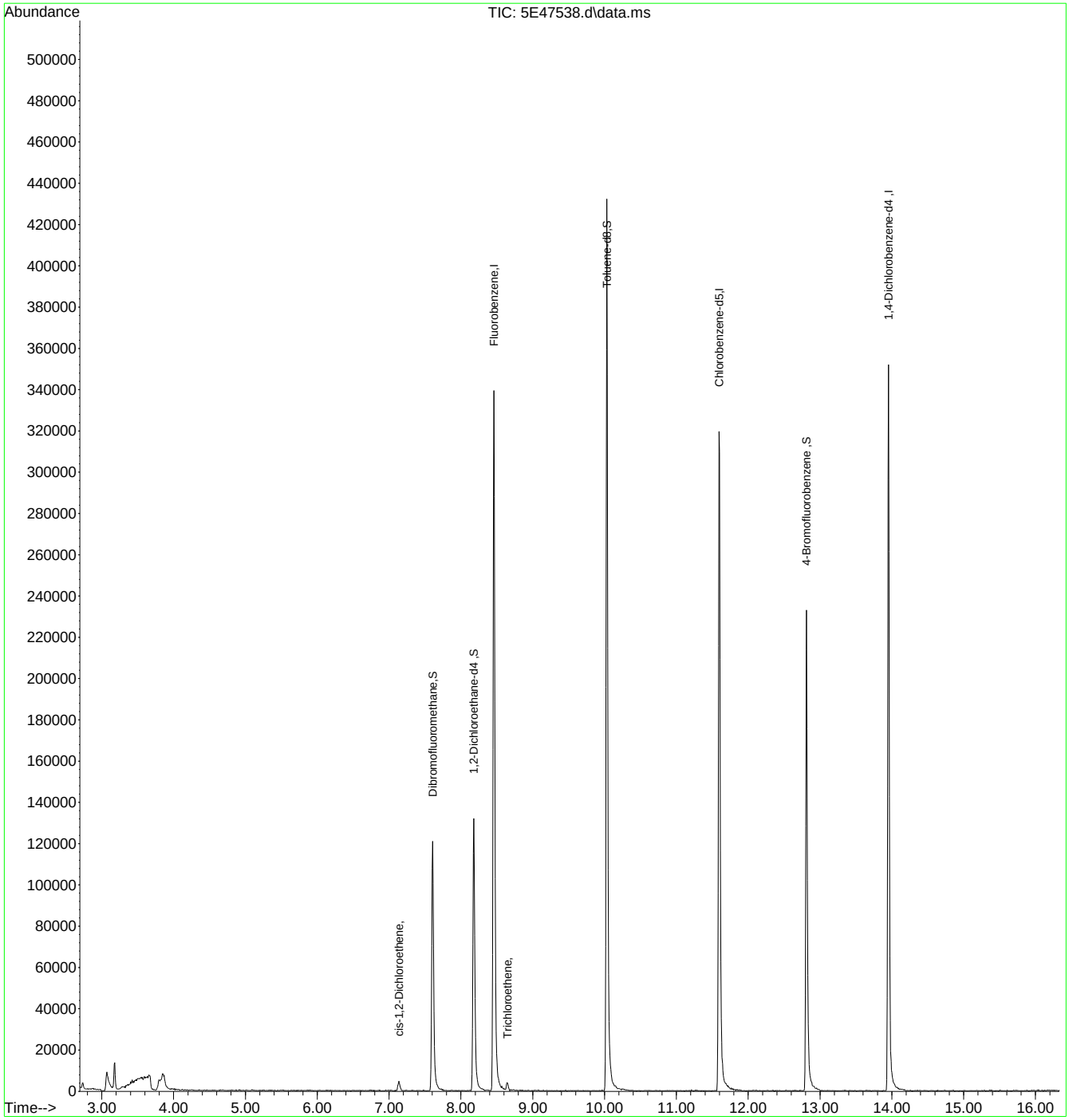
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	272247	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	177797	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	84921	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	67632	47.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.80%			
49) 1,2-Dichloroethane-d4	8.180	65	80605	48.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.34%			
62) Toluene-d8	10.033	98	257572	51.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.74%			
86) 4-Bromofluorobenzene	12.813	95	73846	52.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.50%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	7.137	96	2397	2.2439	ug/L	91
52) Trichloroethene	8.649	95	1434	1.3394	ug/L	78

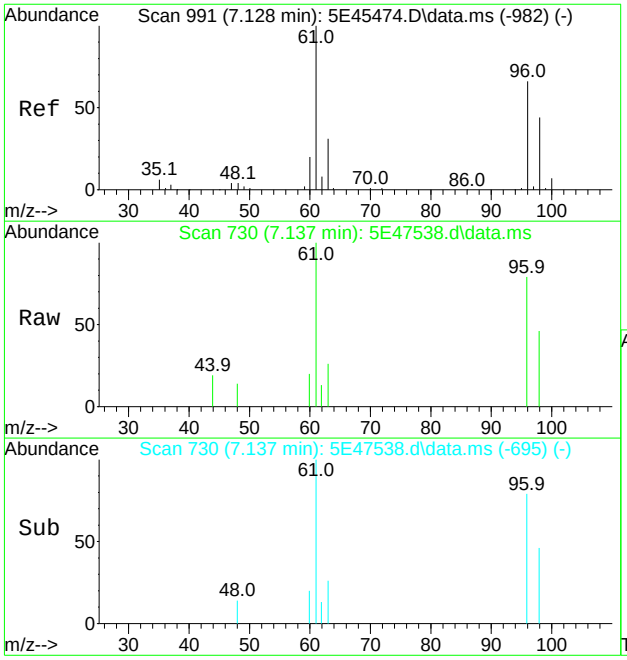
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47538.d
Acq On : 28 Jun 2024 4:51 pm
Operator : lianatr
Sample : FC16634-2 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 01 06:53:25 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

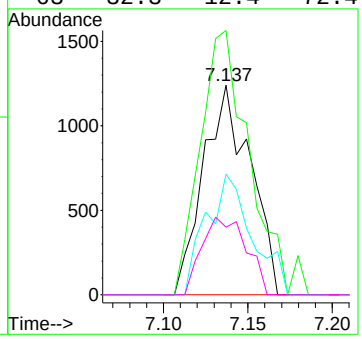


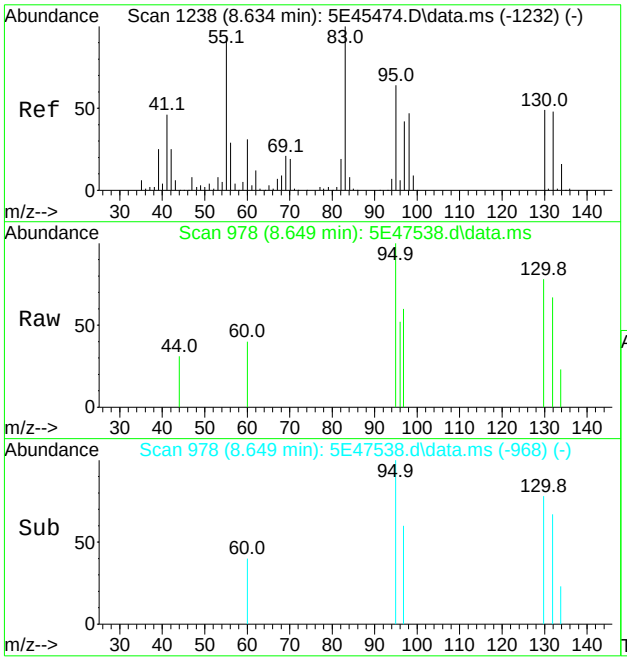


#32
cis-1,2-Dichloroethene
Concen: 2.2439 ug/L
RT: 7.137 min Scan# 730
Delta R.T. 0.012 min
Lab File: 5E47538.d
Acq: 28 Jun 2024 4:51 pm

Tgt Ion: 96 Resp: 2397

Ion	Ratio	Lower	Upper
96	100		
61	126.2	104.0	164.0
98	57.7	35.5	95.5
63	32.3	12.4	72.4

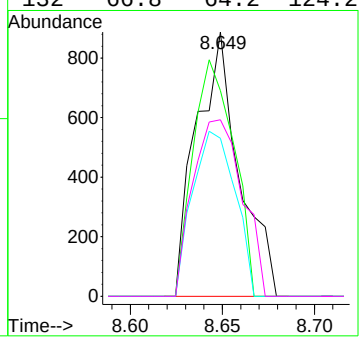




#52
Trichloroethene
Concen: 1.3394 ug/L
RT: 8.649 min Scan# 978
Delta R.T. 0.012 min
Lab File: 5E47538.d
Acq: 28 Jun 2024 4:51 pm

Tgt Ion: 95 Resp: 1434

Ion	Ratio	Lower	Upper
95	100		
130	77.8	71.7	131.7
97	59.8	40.5	100.5
132	66.8	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47539.d
Acq On : 28 Jun 2024 5:14 pm
Operator : lianatr
Sample : FC16634-3 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:53:46 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

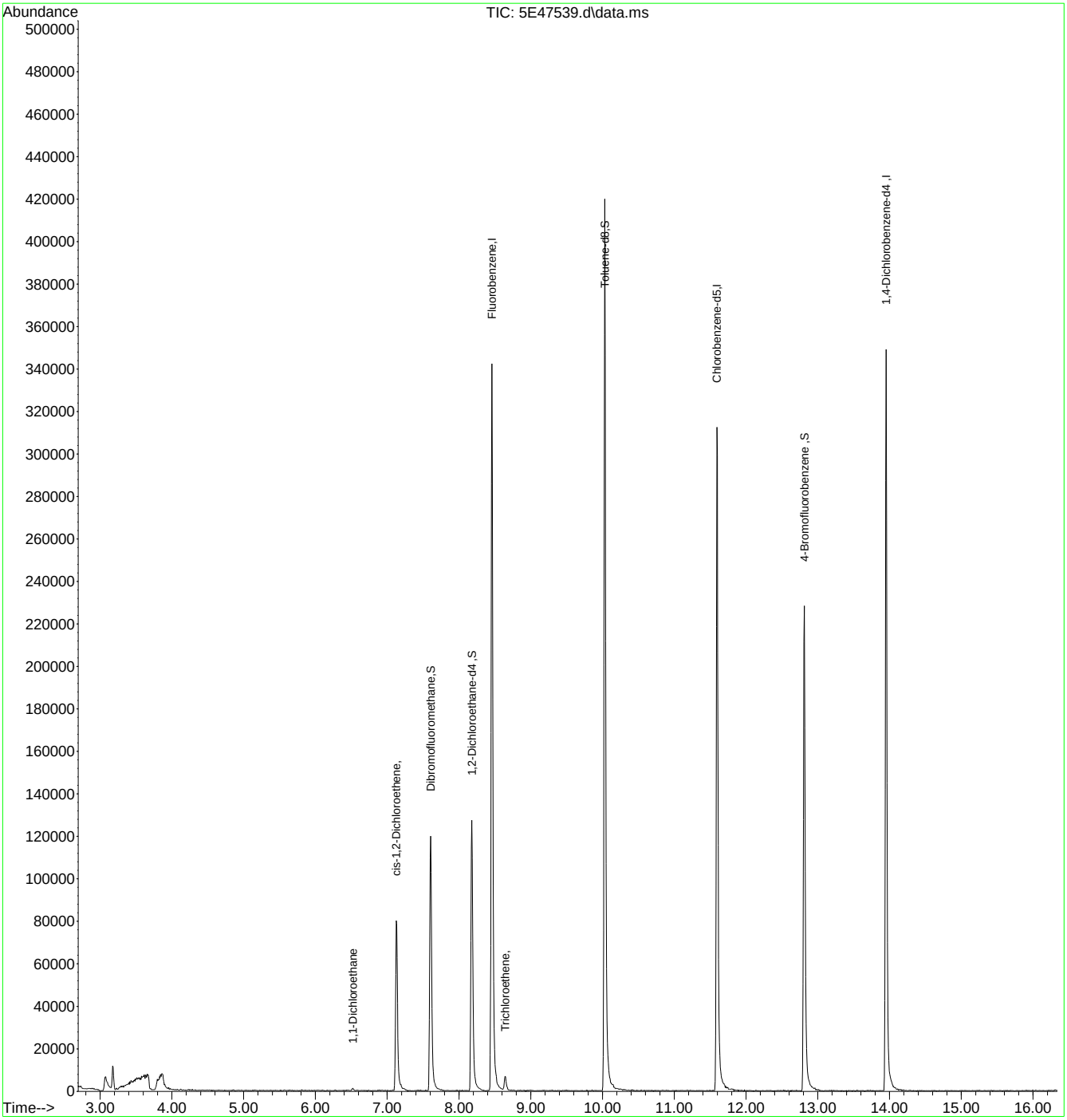
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.460	96	274701	50.00	ug/L	0.00
61) Chlorobenzene-d5		11.594	117	174737	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.953	152	84049	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.607	113	69378	48.70	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	97.40%		
49) 1,2-Dichloroethane-d4		8.180	65	79437	47.54	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	95.08%		
62) Toluene-d8		10.033	98	258017	52.87	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	105.74%		
86) 4-Bromofluorobenzene		12.813	95	73053	52.72	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	105.44%		
Target Compounds							Qvalue
27) 1,1-Dichloroethane		6.522	63	1319	0.6815	ug/L #	50
32) cis-1,2-Dichloroethene		7.125	96	35953	33.3565	ug/L	98
52) Trichloroethene		8.643	95	2851	2.6391	ug/L	81

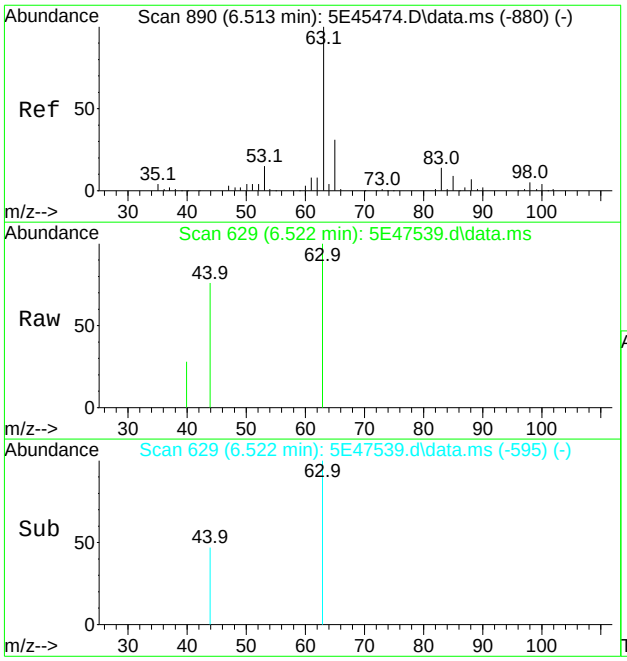
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47539.d
Acq On : 28 Jun 2024 5:14 pm
Operator : lianatr
Sample : FC16634-3 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 06:53:46 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

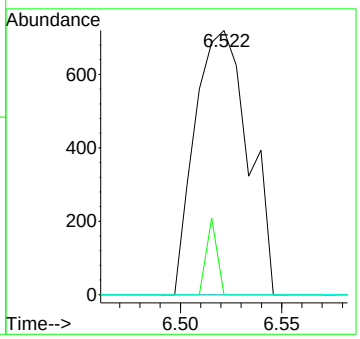


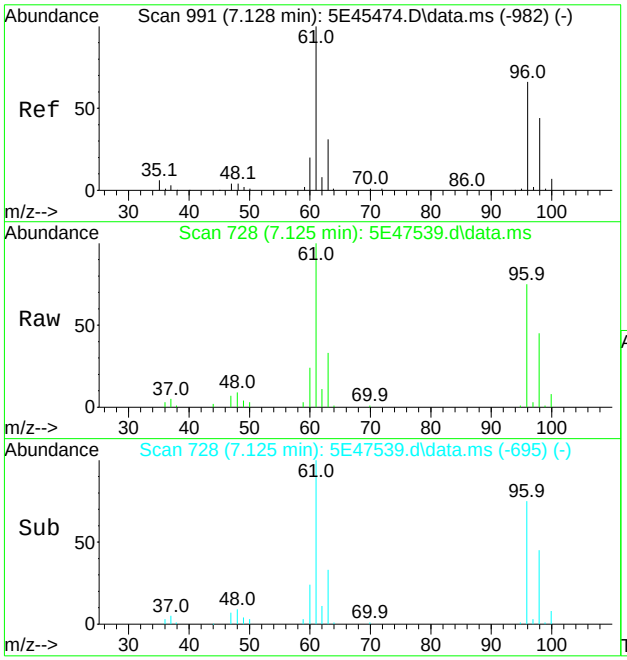


#27
1,1-Dichloroethane
Concen: 0.6815 ug/L
RT: 6.522 min Scan# 629
Delta R.T. 0.007 min
Lab File: 5E47539.d
Acq: 28 Jun 2024 5:14 pm

Tgt Ion: 63 Resp: 1319

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	0.0	0.0	43.1

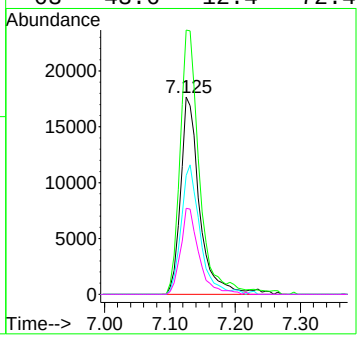


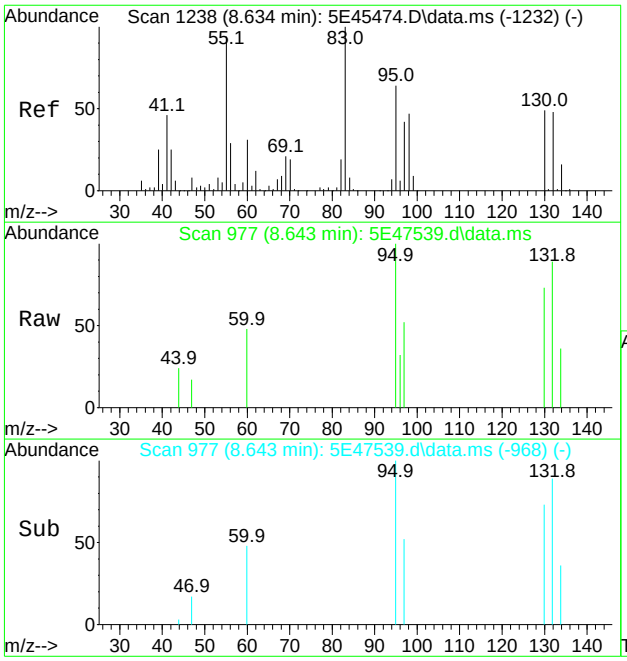


#32
cis-1,2-Dichloroethene
Concen: 33.3565 ug/L
RT: 7.125 min Scan# 728
Delta R.T. 0.000 min
Lab File: 5E47539.d
Acq: 28 Jun 2024 5:14 pm

Tgt Ion: 96 Resp: 35953

Ion	Ratio	Lower	Upper
96	100		
61	134.0	104.0	164.0
98	60.2	35.5	95.5
63	43.6	12.4	72.4

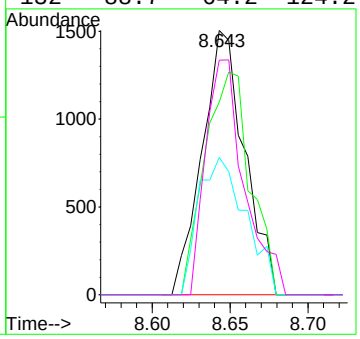




#52
Trichloroethene
Concen: 2.6391 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47539.d
Acq: 28 Jun 2024 5:14 pm

Tgt Ion: 95 Resp: 2851

Ion	Ratio	Lower	Upper
95	100		
130	72.8	71.7	131.7
97	52.0	40.5	100.5
132	88.7	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47540.d
Acq On : 28 Jun 2024 5:37 pm
Operator : lianatr
Sample : FC16634-4 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:55:50 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

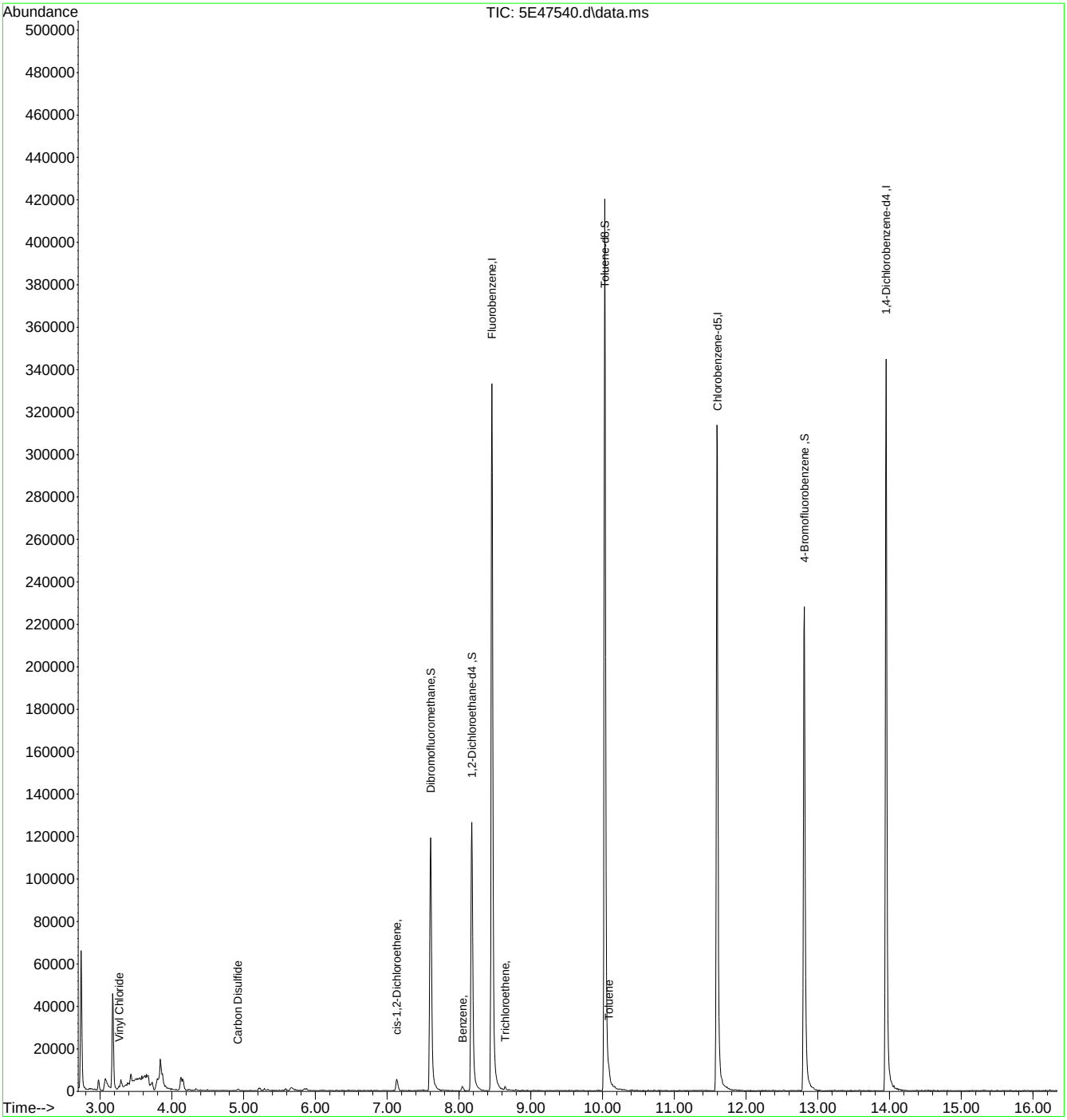
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	272114	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	173803	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	84839	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	66631	47.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.44%			
49) 1,2-Dichloroethane-d4	8.180	65	78606	47.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.98%			
62) Toluene-d8	10.033	98	254913	52.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.02%			
86) 4-Bromofluorobenzene	12.813	95	73074	52.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.48%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	871	0.5005	ug/L	96
14) Carbon Disulfide	4.918	76	851	0.2977	ug/L	88
32) cis-1,2-Dichloroethene	7.131	96	2901	2.7171	ug/L	90
47) Benzene	8.052	78	2520	0.5783	ug/L #	57
52) Trichloroethene	8.643	95	513	0.4794	ug/L	81
63) Toluene	10.088	91	1754	0.4255	ug/L	98

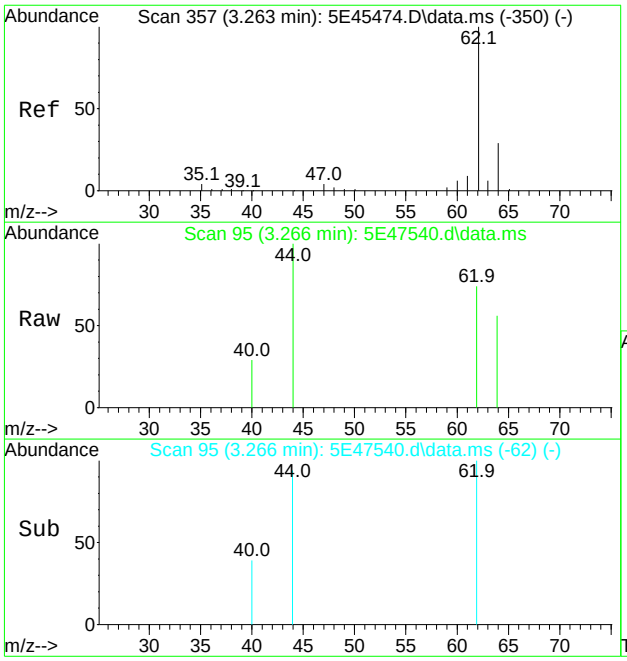
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47540.d
Acq On : 28 Jun 2024 5:37 pm
Operator : lianatr
Sample : FC16634-4 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 01 06:55:50 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

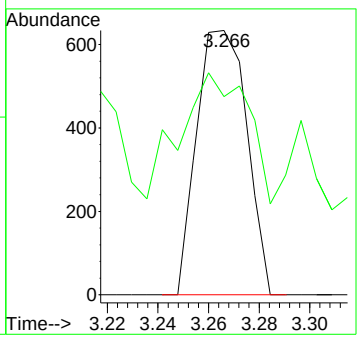


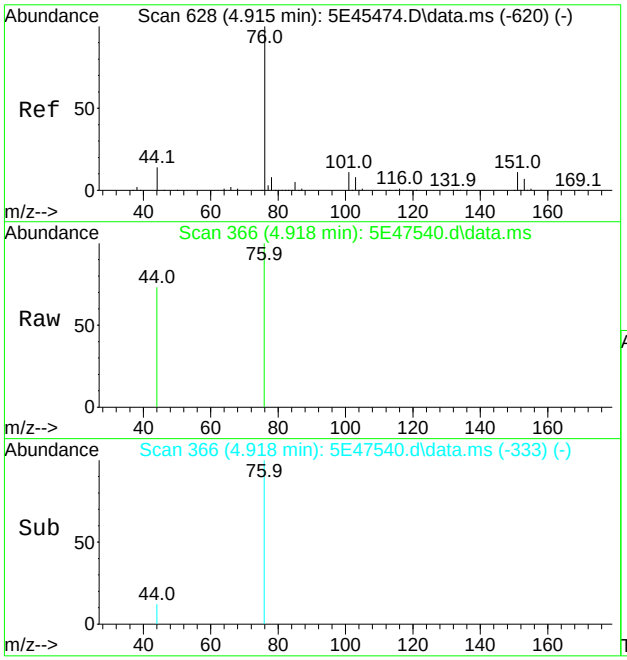


#4
Vinyl Chloride
Concen: 0.5005 ug/L
RT: 3.266 min Scan# 95
Delta R.T. 0.000 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 62 Resp: 871

Ion	Ratio	Lower	Upper
62	100		
64	29.7	1.8	61.8

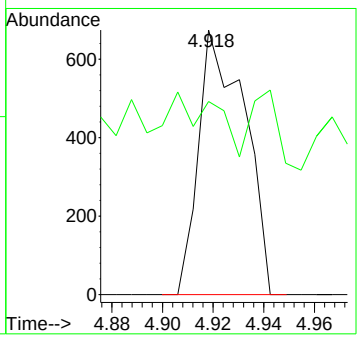


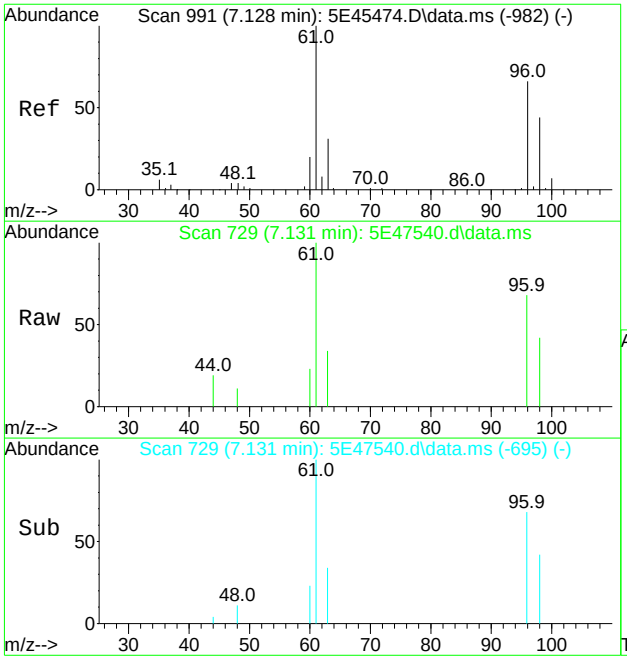


#14
Carbon Disulfide
Concen: 0.2977 ug/L
RT: 4.918 min Scan# 366
Delta R.T. 0.000 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 76 Resp: 851

Ion	Ratio	Lower	Upper
76	100		
44	23.3	0.0	47.8

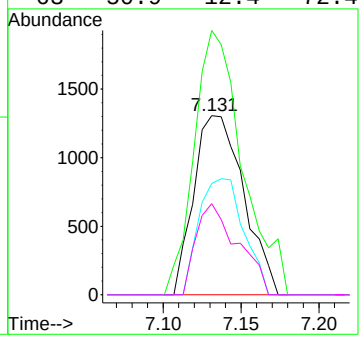


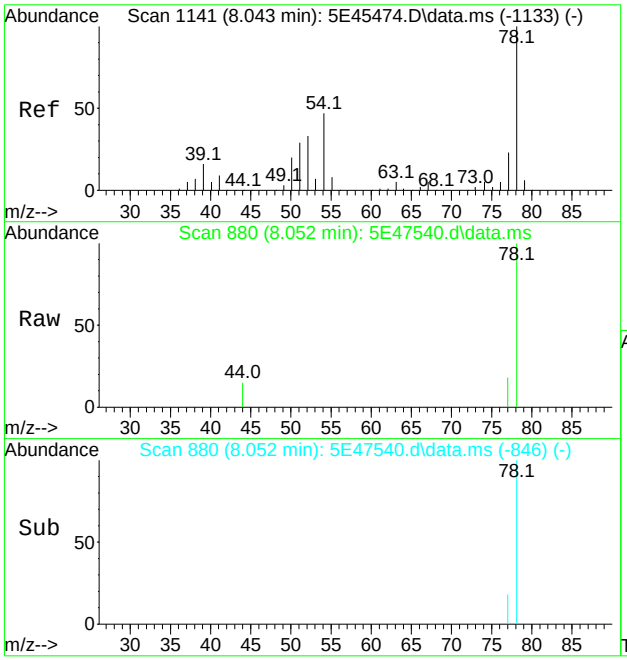


#32
cis-1,2-Dichloroethene
Concen: 2.7171 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 96 Resp: 2901

Ion	Ratio	Lower	Upper
96	100		
61	147.6	104.0	164.0
98	62.1	35.5	95.5
63	50.9	12.4	72.4

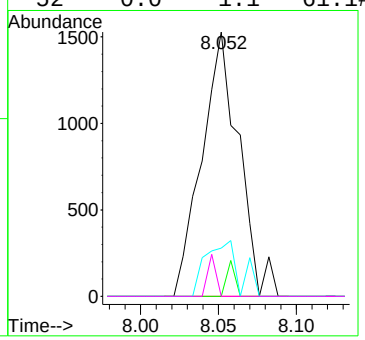


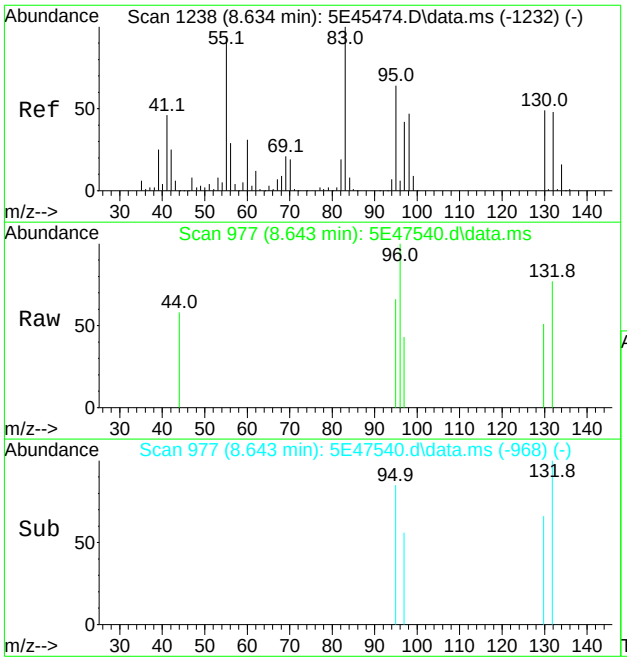


#47
Benzene
Concen: 0.5783 ug/L
RT: 8.052 min Scan# 880
Delta R.T. 0.007 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 78 Resp: 2520

Ion	Ratio	Lower	Upper
78	100		
51	0.0	0.0	59.4
77	18.2	0.0	53.6
52	0.0	1.1	61.1#

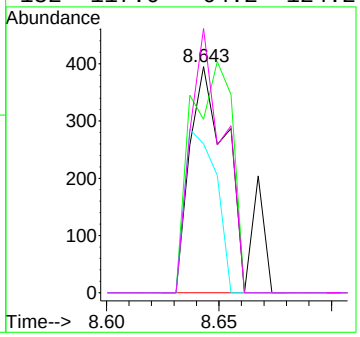


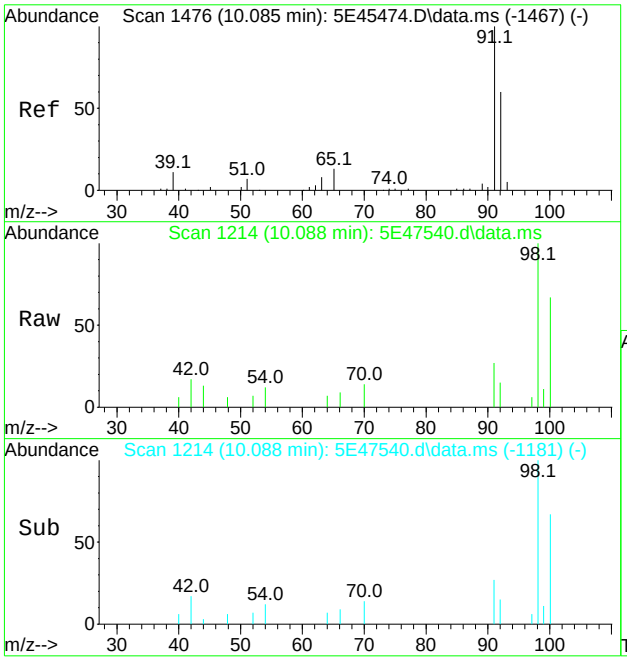


#52
Trichloroethene
Concen: 0.4794 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 95 Resp: 513

Ion	Ratio	Lower	Upper
95	100		
130	76.7	71.7	131.7
97	65.8	40.5	100.5
132	117.0	64.2	124.2

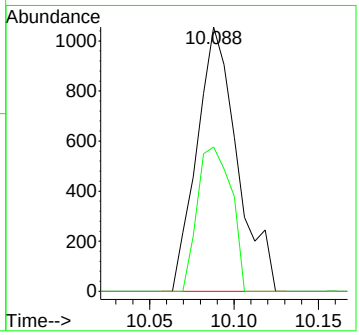




#63
Toluene
Concen: 0.4255 ug/L
RT: 10.088 min Scan# 1214
Delta R.T. -0.000 min
Lab File: 5E47540.d
Acq: 28 Jun 2024 5:37 pm

Tgt Ion: 91 Resp: 1754

Ion	Ratio	Lower	Upper
91	100		
92	54.5	25.8	85.8



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47541.d
Acq On : 28 Jun 2024 5:59 pm
Operator : lianatr
Sample : FC16634-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:56:10 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

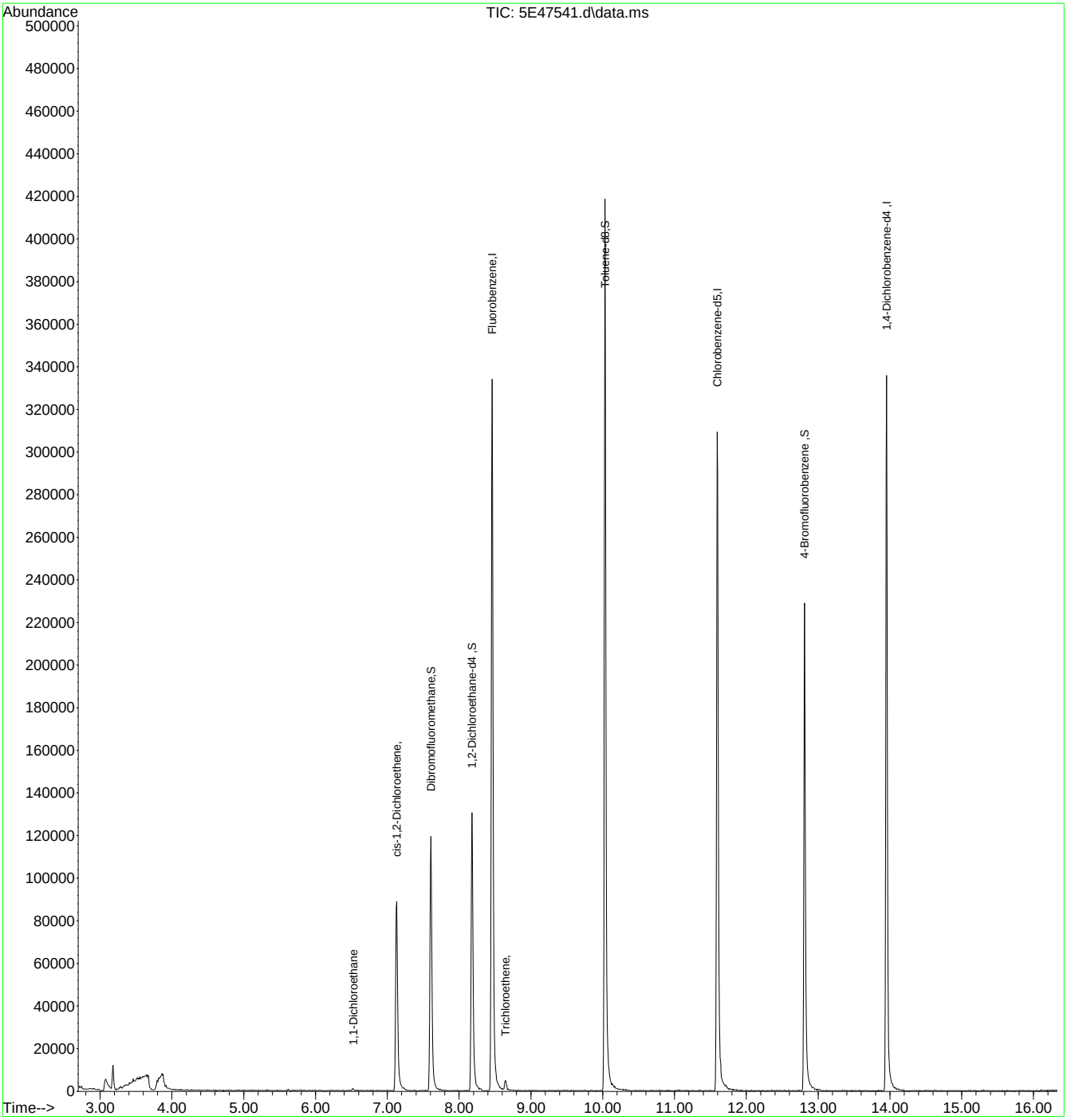
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.460	96	272225	50.00	ug/L	0.00
61) Chlorobenzene-d5		11.593	117	169353	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.953	152	83141	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.606	113	66838	47.35	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	94.70%		
49) 1,2-Dichloroethane-d4		8.179	65	78520	47.41	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	94.82%		
62) Toluene-d8		10.033	98	252885	53.46	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	106.92%		
86) 4-Bromofluorobenzene		12.813	95	73049	53.29	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	106.58%		
Target Compounds							Qvalue
27) 1,1-Dichloroethane		6.527	63	1231	0.6418	ug/L #	50
32) cis-1,2-Dichloroethene		7.131	96	39846	37.3046	ug/L	95
52) Trichloroethene		8.643	95	1785	1.6673	ug/L	86

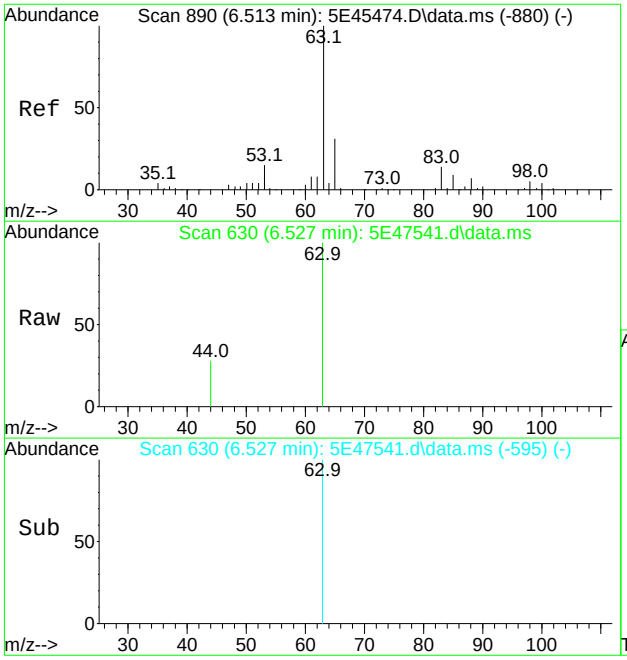
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47541.d
Acq On : 28 Jun 2024 5:59 pm
Operator : lianatr
Sample : FC16634-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 06:56:10 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

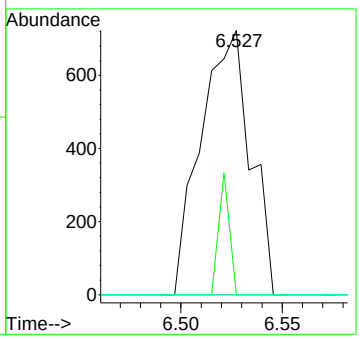


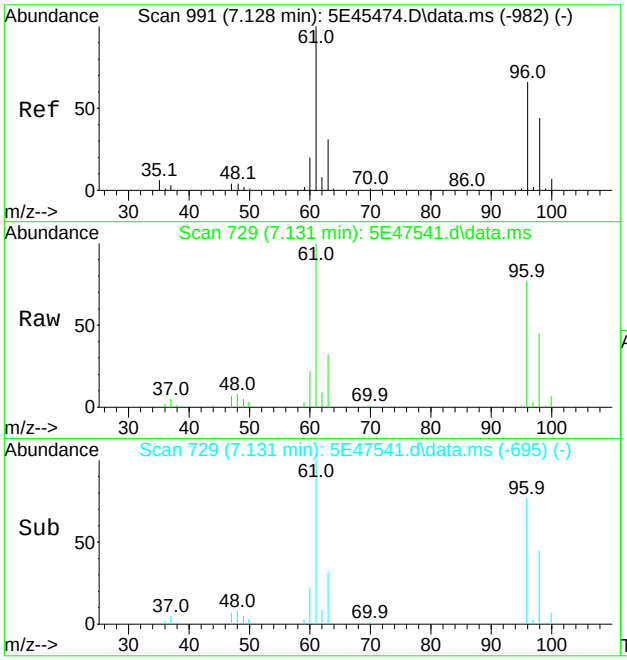


#27
1,1-Dichloroethane
Concen: 0.6418 ug/L
RT: 6.527 min Scan# 630
Delta R.T. 0.012 min
Lab File: 5E47541.d
Acq: 28 Jun 2024 5:59 pm

Tgt Ion: 63 Resp: 1231

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	0.0	0.0	43.1

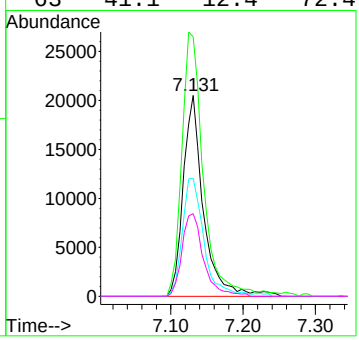


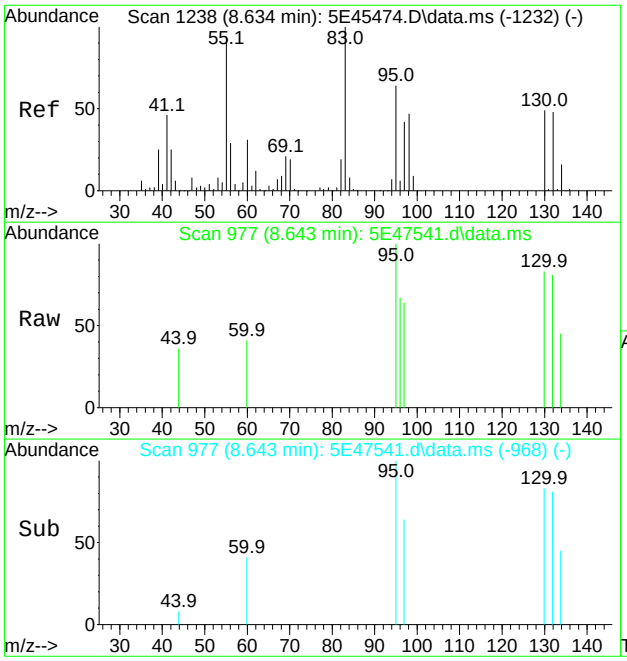


#32
cis-1,2-Dichloroethene
Concen: 37.3046 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47541.d
Acq: 28 Jun 2024 5:59 pm

Tgt Ion: 96 Resp: 39846

Ion	Ratio	Lower	Upper
96	100		
61	129.2	104.0	164.0
98	58.7	35.5	95.5
63	41.1	12.4	72.4

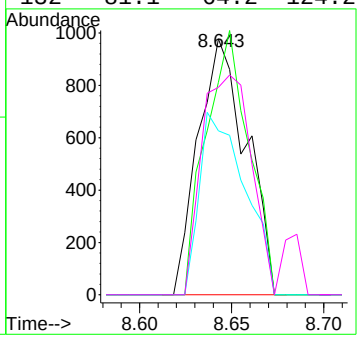




#52
Trichloroethene
Concen: 1.6673 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47541.d
Acq: 28 Jun 2024 5:59 pm

Tgt Ion: 95 Resp: 1785

Ion	Ratio	Lower	Upper
95	100		
130	83.1	71.7	131.7
97	64.1	40.5	100.5
132	81.1	64.2	124.2



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47542.d
Acq On : 28 Jun 2024 6:22 pm
Operator : lianatr
Sample : FC16634-6 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:56:45 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

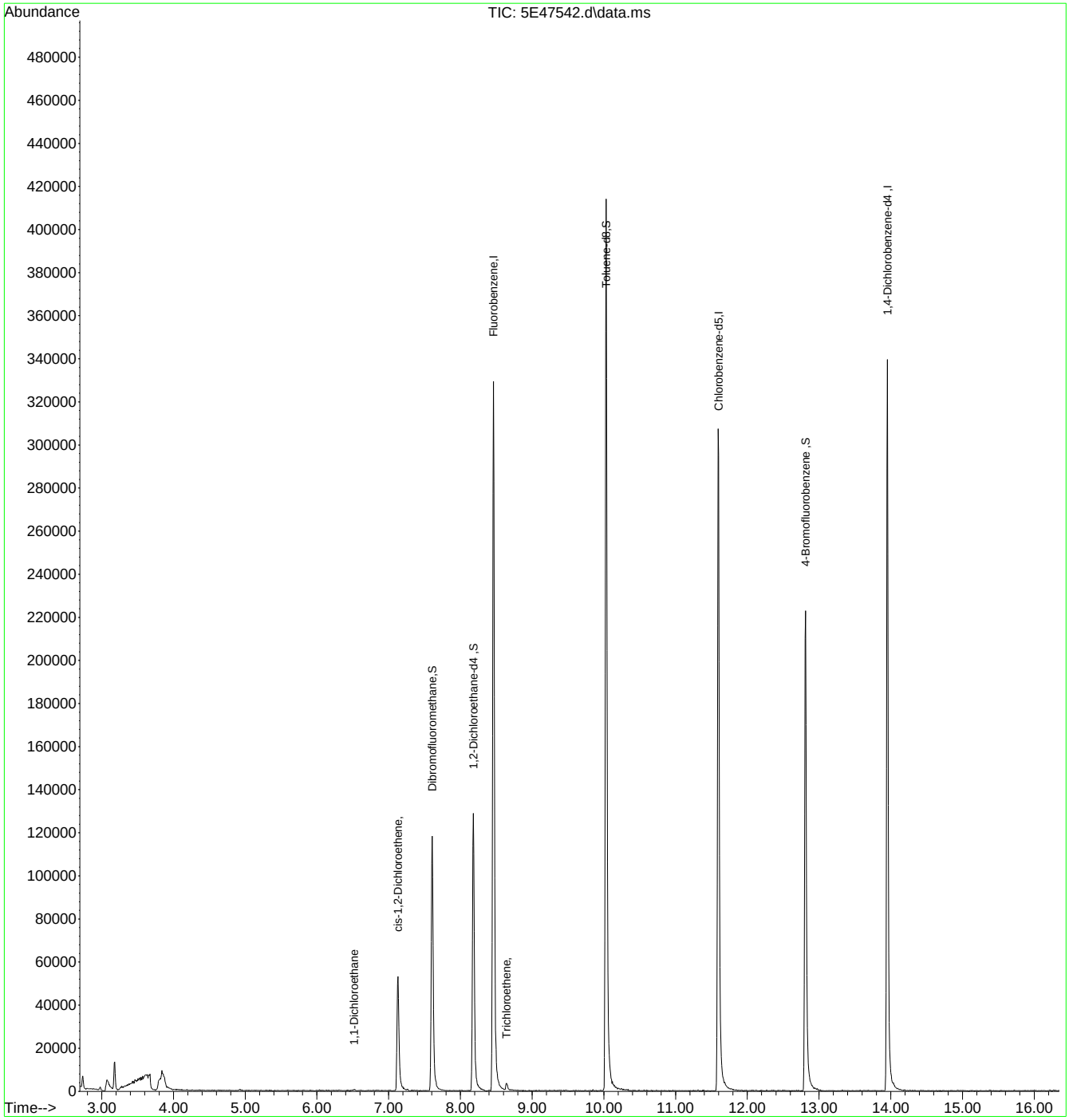
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	268426	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	168637	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	82529	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	65678	47.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.36%			
49) 1,2-Dichloroethane-d4	8.180	65	79195	48.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.00%			
62) Toluene-d8	10.033	98	254273	53.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.96%			
86) 4-Bromofluorobenzene	12.813	95	71820	52.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.58%			
Target Compounds						Qvalue
27) 1,1-Dichloroethane	6.515	63	715	0.3781	ug/L #	50
32) cis-1,2-Dichloroethene	7.131	96	24425	23.1908	ug/L	97
52) Trichloroethene	8.643	95	1293	1.2249	ug/L	92

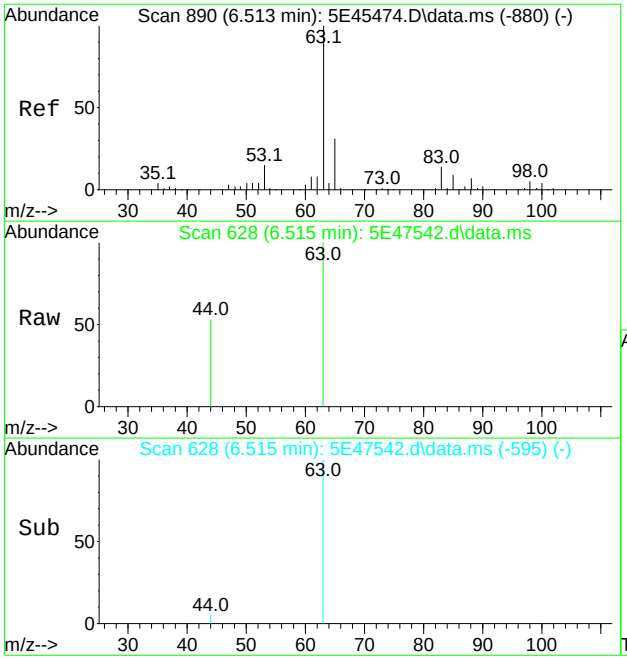
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47542.d
Acq On : 28 Jun 2024 6:22 pm
Operator : lianatr
Sample : FC16634-6 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 01 06:56:45 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

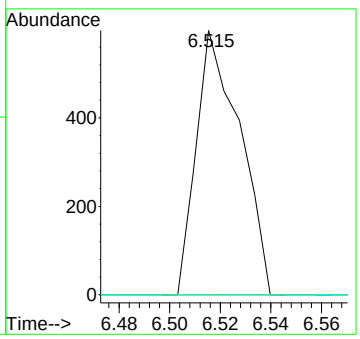


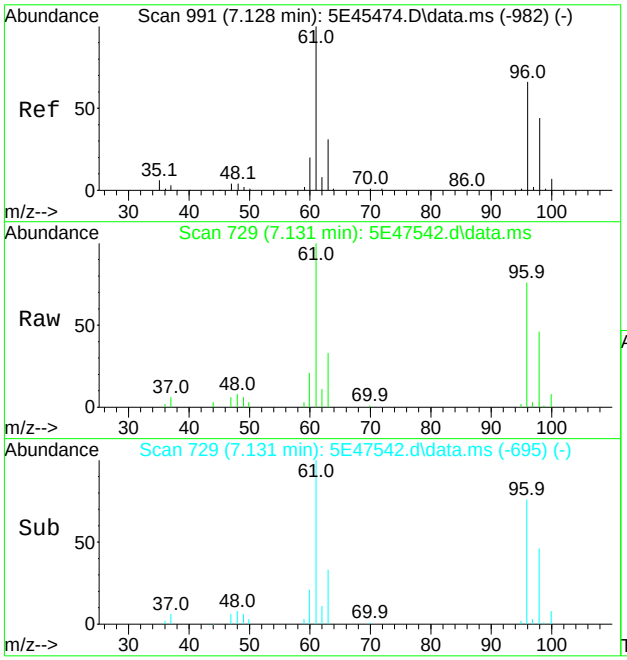


#27
1,1-Dichloroethane
Concen: 0.3781 ug/L
RT: 6.515 min Scan# 628
Delta R.T. 0.000 min
Lab File: 5E47542.d
Acq: 28 Jun 2024 6:22 pm

Tgt Ion: 63 Resp: 715

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	0.0	0.0	43.1

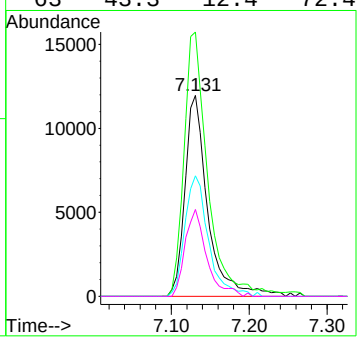


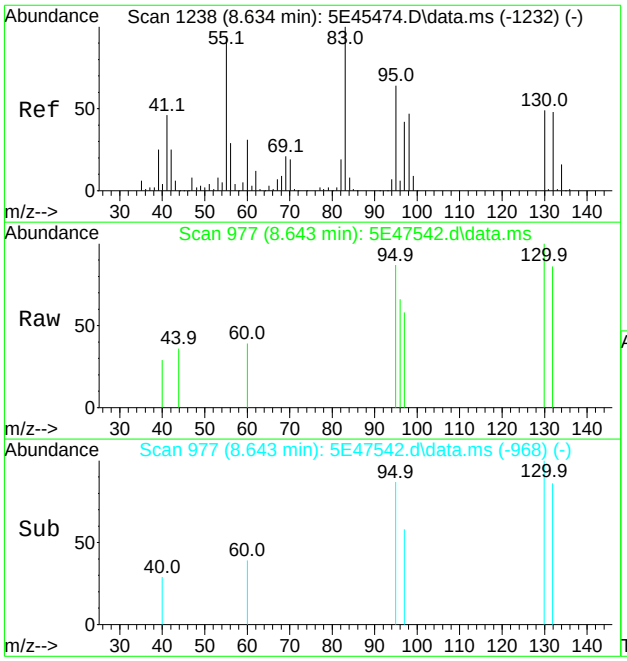


#32
cis-1,2-Dichloroethene
Concen: 23.1908 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47542.d
Acq: 28 Jun 2024 6:22 pm

Tgt Ion: 96 Resp: 24425

Ion	Ratio	Lower	Upper
96	100		
61	131.6	104.0	164.0
98	61.9	35.5	95.5
63	43.3	12.4	72.4

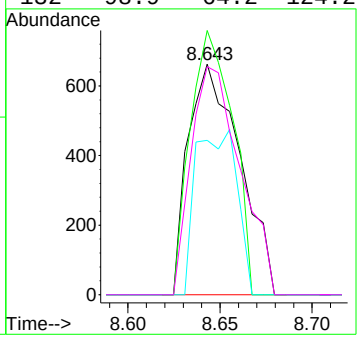




#52
Trichloroethene
Concen: 1.2249 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47542.d
Acq: 28 Jun 2024 6:22 pm

Tgt Ion: 95 Resp: 1293

Ion	Ratio	Lower	Upper
95	100		
130	114.6	71.7	131.7
97	67.0	40.5	100.5
132	98.9	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47543.d
Acq On : 28 Jun 2024 6:45 pm
Operator : lianatr
Sample : FC16634-7 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:57:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

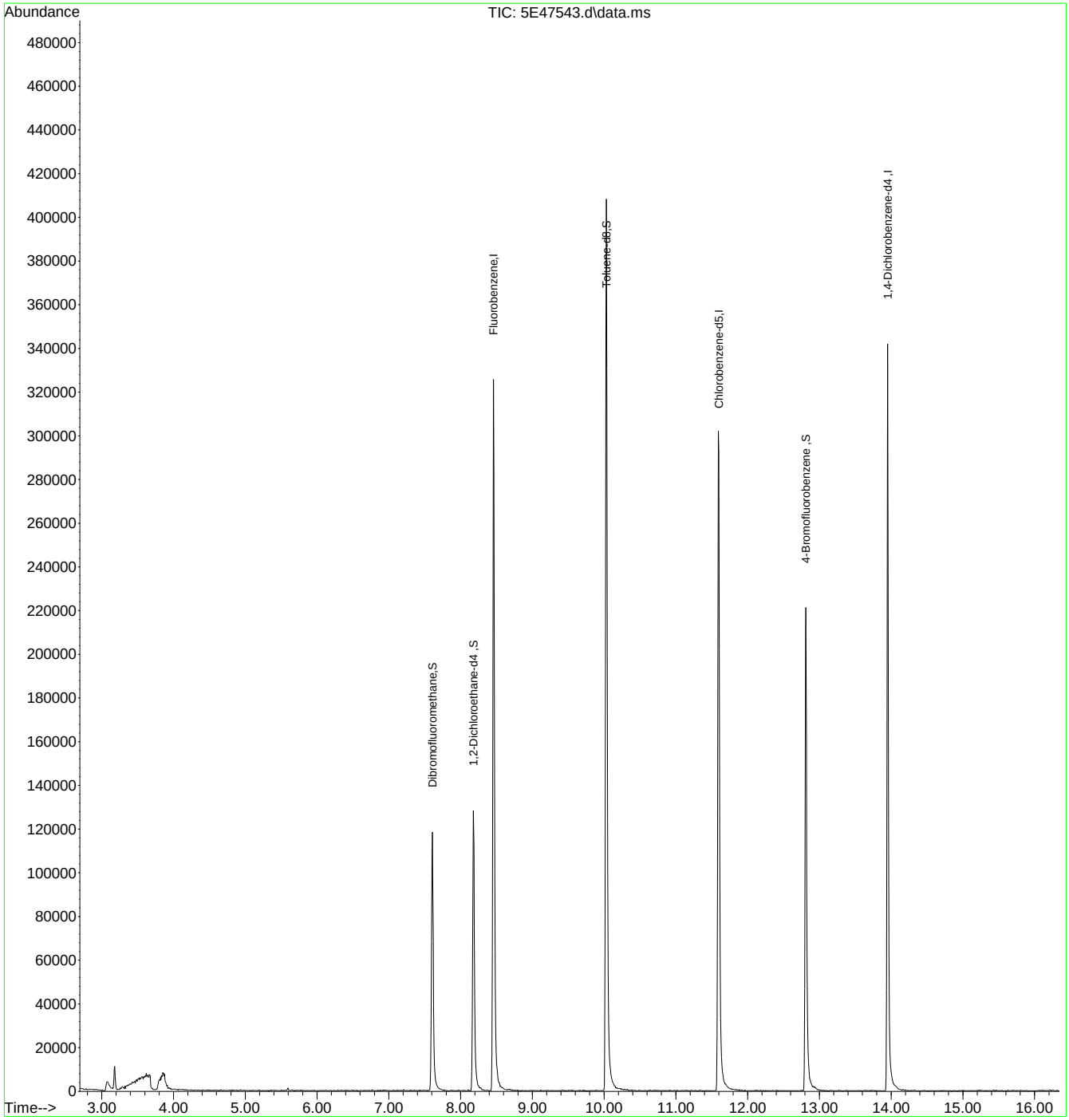
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	266357	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	169684	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	84075	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	66174	47.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.82%			
49) 1,2-Dichloroethane-d4	8.180	65	78453	48.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.84%			
62) Toluene-d8	10.033	98	249447	52.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.26%			
86) 4-Bromofluorobenzene	12.813	95	70864	51.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.26%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47543.d
Acq On : 28 Jun 2024 6:45 pm
Operator : lianatr
Sample : FC16634-7 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 01 06:57:18 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47523.D
Acq On : 28 Jun 2024 11:02 am
Operator : lianatr
Sample : MB
Misc : MS56925,V5E2118,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:19:08 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

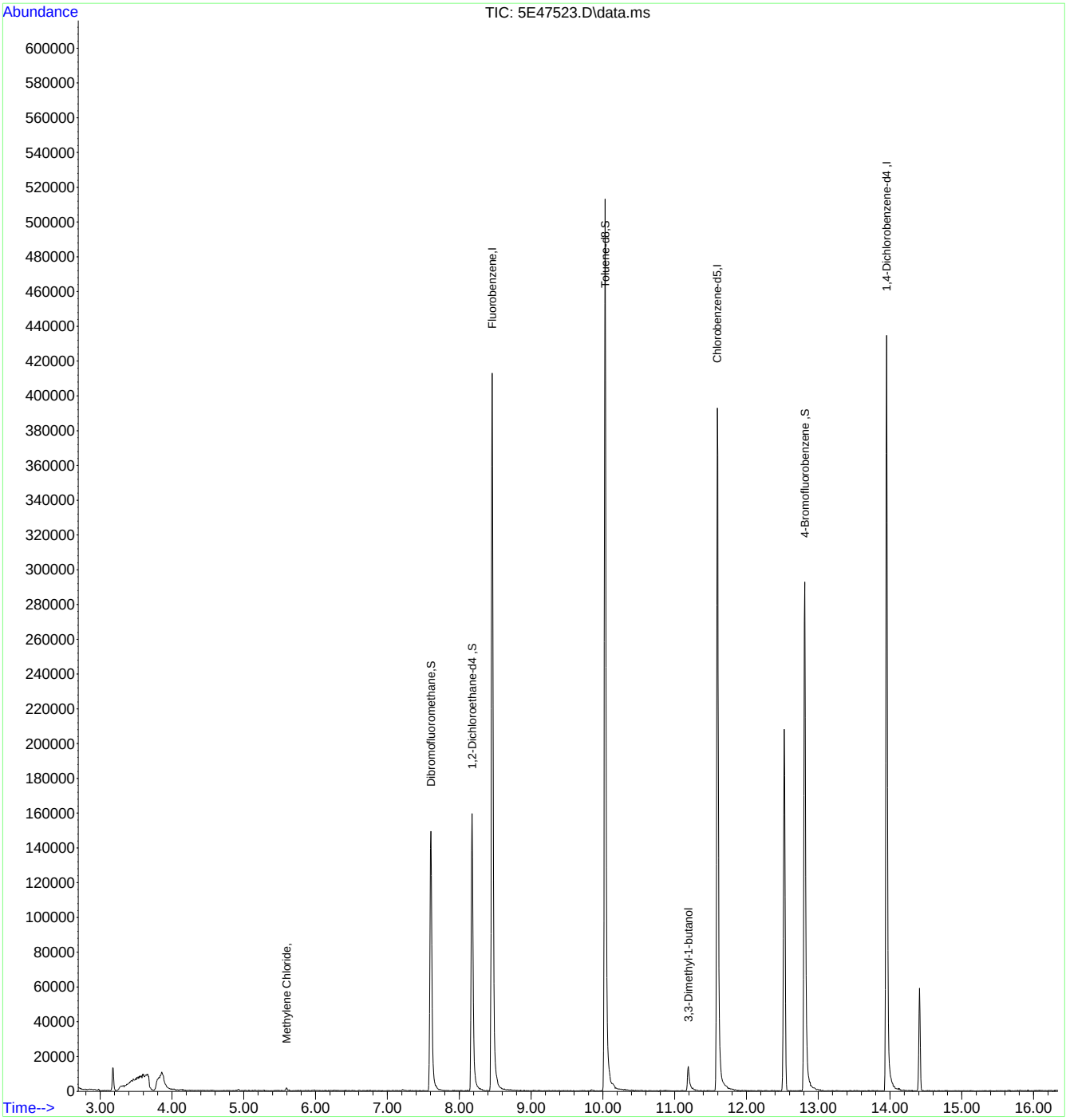
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.460	96	342088	50.00	ug/L	0.00
61) Chlorobenzene-d5		11.594	117	215338	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.953	152	106839	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.607	113	85078	47.96	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	95.92%		
49) 1,2-Dichloroethane-d4		8.180	65	98587	47.37	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	94.74%		
62) Toluene-d8		10.033	98	317341	52.76	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	105.52%		
86) 4-Bromofluorobenzene		12.813	95	94724	53.78	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	107.56%		
Target Compounds							Qvalue
18) Methylene Chloride		5.595	49	955	0.48	ug/L	77
74) 3,3-Dimethyl-1-butanol		11.191	57	8673	109.72	ug/L	88

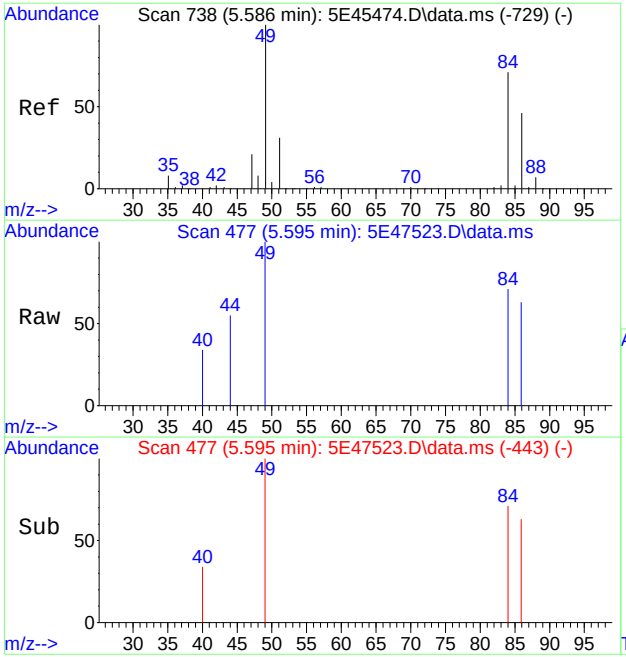
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47523.D
Acq On : 28 Jun 2024 11:02 am
Operator : lianatr
Sample : MB
Misc : MS56925,V5E2118,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:19:08 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

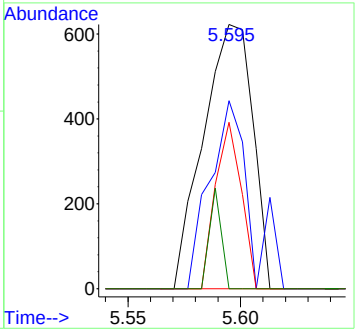


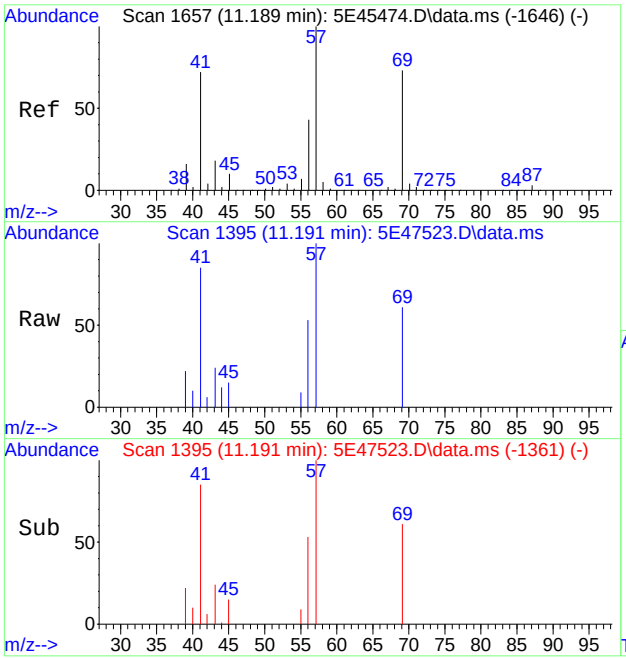


#18
Methylene Chloride
Concen: 0.48 ug/L
RT: 5.595 min Scan# 477
Delta R.T. 0.006 min
Lab File: 5E47523.D
Acq: 28 Jun 2024 11:02 am

Tgt Ion: 49 Resp: 955

Ion	Ratio	Lower	Upper
49	100		
84	71.1	37.7	97.7
86	62.9	14.3	74.3
51	0.0	0.0	59.9

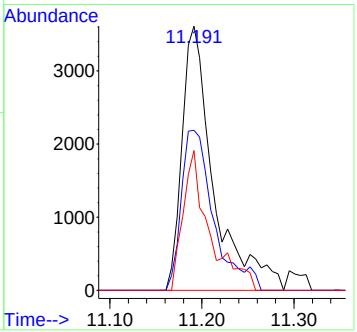




#74
3,3-Dimethyl-1-butanol
Concen: 109.72 ug/L
RT: 11.191 min Scan# 1395
Delta R.T. 0.006 min
Lab File: 5E47523.D
Acq: 28 Jun 2024 11:02 am

Tgt Ion: 57 Resp: 8673

Ion	Ratio	Lower	Upper
57	100		
69	60.5	50.2	90.2
56	52.9	24.1	64.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	395794	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	257380	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	132416	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.601	113	100128	48.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.56%			
49) 1,2-Dichloroethane-d4	8.180	65	120567	50.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.14%			
62) Toluene-d8	10.033	98	364825	50.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.50%			
86) 4-Bromofluorobenzene	12.807	95	112936	51.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	28240	22.83	ug/L	95
3) Chloromethane	3.132	50	43536	22.63	ug/L	95
4) Vinyl Chloride	3.266	62	54522	21.54	ug/L	99
5) 1,3-Butadiene	3.297	39	85694	27.73	ug/L	94
6) Bromomethane	3.772	94	42251	24.36	ug/L	98
7) Chloroethane	3.949	64	55917	30.39	ug/L	97
8) Trichlorofluoromethane	4.156	101	55111	22.46	ug/L	97
9) Ethyl Ether	4.577	59	29129	24.54	ug/L	96
10) Ethanol	4.772	45	14839	597.84	ug/L	94
11) 1,2-Dichlorotrifluoroe...	4.827	67	47379	37.79	ug/L	99
12) 1,1-Dichloroethene	4.863	61	55655	26.35	ug/L	97
13) Freon 113	4.900	101	37057	24.93	ug/L	95
14) Carbon Disulfide	4.918	76	91223	21.94	ug/L	98
15) Iodomethane	5.058	142	35069	21.78	ug/L	94
16) Acrolein	5.290	56	47415	141.36	ug/L	98
17) Allyl chloride	5.461	41	62735	26.56	ug/L	98
18) Methylene Chloride	5.589	49	59854	26.03	ug/L	98
19) Acetone	5.644	43	93439	133.81	ug/L	98
20) Methyl acetate	5.778	43	212699	117.04	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	54429	25.87	ug/L	97
22) Hexane	5.869	56	33113	24.30	ug/L	93
23) Methyl Tert Butyl Ether	5.894	73	97629	24.48	ug/L	97
24) Acetonitrile	6.211	41	72942	277.09	ug/L	98
25) Di-isopropyl ether	6.320	45	129359	24.23	ug/L	99
26) Chloroprene	6.485	53	50663	27.66	ug/L	96
27) 1,1-Dichloroethane	6.515	63	69562	24.94	ug/L	99
28) Acrylonitrile	6.570	53	94655	122.34	ug/L	99
29) ETBE	6.741	59	101645	23.77	ug/L	99
30) Tert Butyl Alcohol	5.973	59	79036	248.37	ug/L	98
31) Vinyl acetate	6.765	43	526809	112.77	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	38839	25.01	ug/L	98
33) 2,2-Dichloropropane	7.247	77	51883	28.88	ug/L	98
34) Bromochloromethane	7.351	128	17379	26.11	ug/L	97
35) Cyclohexane	7.363	56	68012	26.18	ug/L	98
36) Chloroform	7.406	83	66591	25.75	ug/L	99
37) Ethyl acetate	7.497	43	300077	124.07	ug/L	98
38) Tetrahydrofuran	7.594	42	21687	23.14	ug/L	95
40) Carbon Tetrachloride	7.582	117	41447	23.68	ug/L	95
41) 1,1,1-Trichloroethane	7.649	97	50282	25.32	ug/L	95
42) 2-Butanone	7.723	43	144239	111.12	ug/L	99
43) 1,1-Dichloropropene	7.777	75	51169	26.97	ug/L	97
44) tert-Butyl formate	7.869	59	100055	280.07	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	92087	261.72	ug/L		98
46)	Methacrylonitrile	8.070	41	393289	251.69	ug/L		99
47)	Benzene	8.046	78	156570	24.70	ug/L		99
48)	TAME	8.113	73	94877	23.30	ug/L		99
50)	1,2-Dichloroethane	8.247	62	48669	25.38	ug/L		98
51)	tert Amyl alcohol	8.277	59	61755	258.67	ug/L		98
52)	Trichloroethene	8.637	95	39427	25.33	ug/L		91
53)	Methylcyclohexane	8.637	83	67205	23.85	ug/L		96
54)	Dibromomethane	9.082	93	23785	23.76	ug/L		94
55)	1,2-Dichloropropane	9.167	63	40237	27.02	ug/L		96
56)	Bromodichloromethane	9.216	83	43036	25.38	ug/L		97
57)	Methyl methacrylate	9.326	41	40421	24.07	ug/L		99
58)	1,4-Dioxane	9.411	88	13657	613.65	ug/L		96
59)	2-Chloroethyl vinyl ether	9.746	63	103472	137.64	ug/L		99
60)	cis-1,3-Dichloropropene	9.844	75	51353	23.16	ug/L		97
63)	Toluene	10.088	91	150809	24.70	ug/L		96
64)	Isobutyl alcohol	8.174	43	70483	654.29	ug/L		97
65)	2-Nitropropane	10.313	41	54310	167.19	ug/L		98
66)	4-Methyl-2-pentanone	10.423	43	313826	130.01	ug/L		99
67)	trans-1,3-Dichloropropene	10.484	75	43584	22.21	ug/L		89
68)	Tetrachloroethene	10.490	166	37458	25.43	ug/L		97
69)	Ethyl methacrylate	10.588	69	45006	24.07	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	28696	26.12	ug/L		93
71)	Dibromochloromethane	10.844	129	29053	24.13	ug/L		95
72)	1,3-Dichloropropane	10.935	76	55779	27.78	ug/L		99
73)	1,2-Dibromoethane	11.112	107	30592	24.04	ug/L		99
74)	3,3-Dimethyl-1-butanol	11.185	57	241467	1777.21	ug/L		99
75)	2-hexanone	11.246	43	227695	125.11	ug/L		99
76)	1-Chlorohexane	11.539	91	50518	28.71	ug/L		93
77)	Ethylbenzene	11.606	91	172227	24.16	ug/L		98
78)	Chlorobenzene	11.612	112	96239	25.00	ug/L		98
79)	1,1,1,2-Tetrachloroethane	11.661	131	30015	27.31	ug/L		94
80)	m,p-Xylene	11.746	91	251824	48.84	ug/L		99
81)	o-Xylene	12.185	91	118236	24.40	ug/L		98
82)	Styrene	12.240	104	87250	24.68	ug/L		99
83)	Bromoform	12.301	173	18344	26.03	ug/L		94
84)	Isopropylbenzene	12.490	105	144163	25.87	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.850	53	10018	29.41	ug/L		94
88)	n-Propylbenzene	12.911	91	181611	25.83	ug/L		99
89)	Bromobenzene	12.941	156	34416	26.53	ug/L		97
90)	1,1,2,2-Tetrachloroethane	12.978	83	48358	26.03	ug/L		95
91)	1,3,5-Trimethylbenzene	13.087	105	114493	26.32	ug/L		98
92)	2-Chlorotoluene	13.106	91	113720	24.80	ug/L		99
93)	trans-1,4-Dichloro-2-B...	13.167	53	10547	27.79	ug/L	#	76
94)	1,2,3-Trichloropropane	13.142	110	12817	27.09	ug/L		97
95)	Cyclohexanone	13.221	55	15604	252.83	ug/L		93
96)	4-Chlorotoluene	13.270	91	98811	25.54	ug/L		98
98)	tert-Butylbenzene	13.435	91	63372	25.69	ug/L		97
99)	1,2,4-Trimethylbenzene	13.502	105	110709	26.12	ug/L		99
100)	Pentachloroethane	13.490	167	17295	24.39	ug/L		95
101)	sec-Butylbenzene	13.618	105	140095	25.08	ug/L		99
102)	4-Isopropyltoluene	13.746	119	110867	26.55	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	60636	24.78	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	118229	24.53	ug/L		99
105)	1,4-Dichlorobenzene	13.965	146	71140	25.01	ug/L		97
106)	n-Butylbenzene	14.166	92	64701	27.09	ug/L		98
107)	Benzyl Chloride	14.197	126	11674	29.07	ug/L	#	79
108)	1,2-Dichlorobenzene	14.386	146	55929	25.16	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

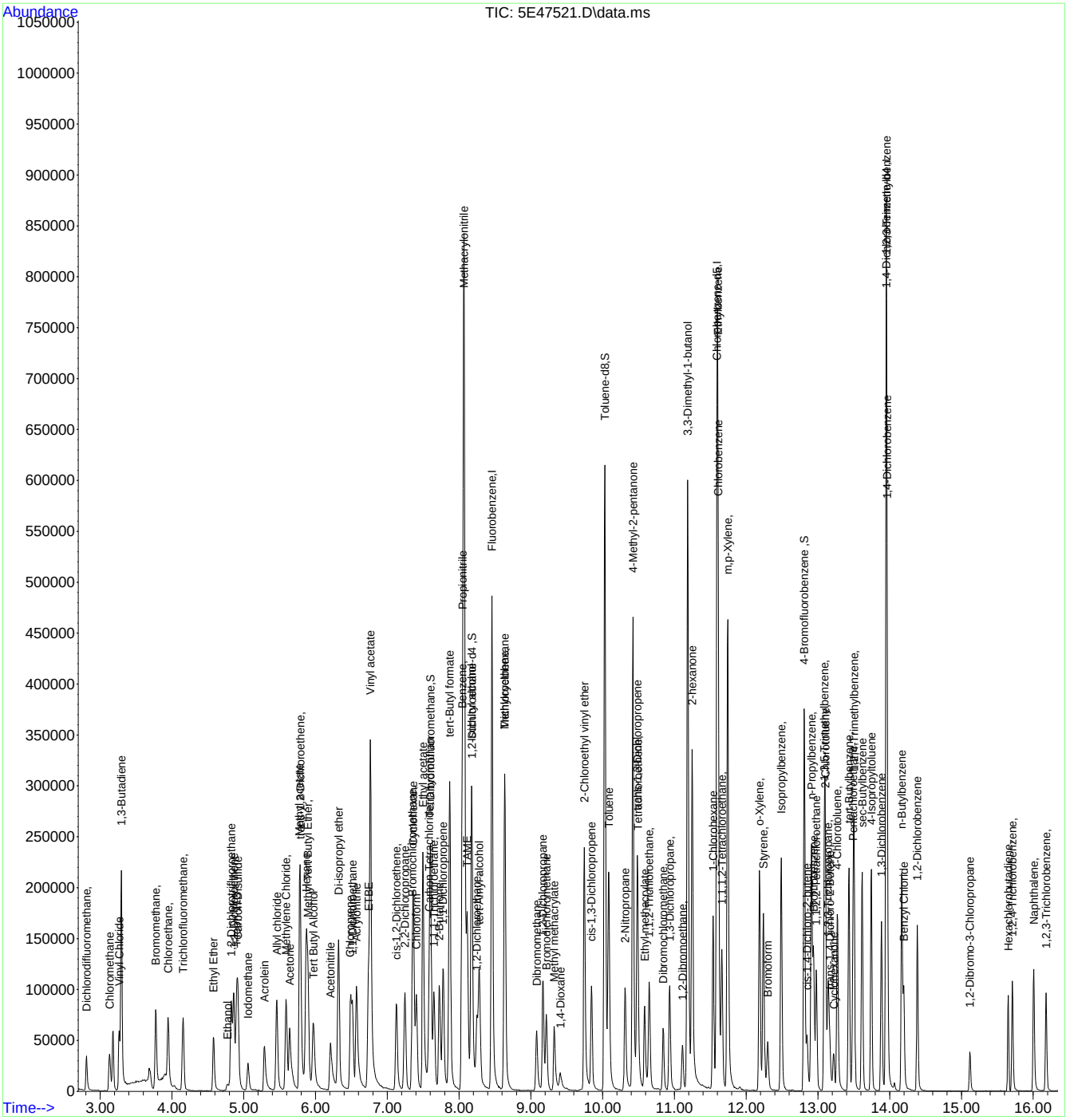
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6747	25.21	ug/L	92
110) Hexachlorobutadiene	15.654	225	12860	28.25	ug/L	96
111) 1,2,4-Trichlorobenzene	15.709	180	29430	26.24	ug/L	98
112) Naphthalene	16.007	128	86448	24.65	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	25969	25.69	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 07/01/24 07:56

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	295535	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	198523	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	103918	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	73552	47.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.98%			
49) 1,2-Dichloroethane-d4	8.180	65	92035	51.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.38%			
62) Toluene-d8	10.033	98	276149	49.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.60%			
86) 4-Bromofluorobenzene	12.813	95	84136	49.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	20694	22.4021	ug/L	100
3) Chloromethane	3.132	50	33175	23.0904	ug/L	94
4) Vinyl Chloride	3.266	62	41369	21.8890	ug/L	97
5) 1,3-Butadiene	3.297	39	80220	34.7607	ug/L	91
6) Bromomethane	3.772	94	18224	14.0742	ug/L	92
7) Chloroethane	3.949	64	29804	21.6938	ug/L	97
8) Trichlorofluoromethane	4.156	101	38914	21.2432	ug/L	97
9) Ethyl Ether	4.577	59	22502	25.3911	ug/L	95
10) Ethanol	4.778	45	7261m	391.7745	ug/L	
11) 1,2-Dichlorotrifluoroe...	4.827	67	36118	38.5805	ug/L	94
12) 1,1-Dichloroethene	4.857	61	41294	26.1843	ug/L	96
13) Freon 113	4.900	101	27158	24.4697	ug/L	94
14) Carbon Disulfide	4.924	76	62050	19.9867	ug/L	97
15) Iodomethane	5.058	142	21516	17.8995	ug/L	94
16) Acrolein	5.290	56	33815	135.0138	ug/L	97
17) Allyl chloride	5.461	41	46314	26.2566	ug/L	91
18) Methylene Chloride	5.589	49	46040	26.8114	ug/L	96
19) Acetone	5.638	43	64541	123.7843	ug/L	98
20) Methyl acetate	5.778	43	167665	123.5574	ug/L	96
21) trans-1,2-Dichloroethene	5.790	61	40846	26.0047	ug/L	95
22) Hexane	5.869	56	25052	24.6193	ug/L	91
23) Methyl Tert Butyl Ether	5.894	73	75984	25.5173	ug/L	95
24) Acetonitrile	6.211	41	51811	263.5852	ug/L	100
25) Di-isopropyl ether	6.320	45	104236	26.1513	ug/L	95
26) Chloroprene	6.491	53	38036	27.8107	ug/L	97
27) 1,1-Dichloroethane	6.515	63	53322	25.6077	ug/L	99
28) Acrylonitrile	6.570	53	71307	123.4279	ug/L	98
29) ETBE	6.741	59	79950	25.0435	ug/L	97
30) Tert Butyl Alcohol	5.973	59	45421	191.1566	ug/L	95
31) Vinyl acetate	6.765	43	447788	128.3726	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	34290	29.5709	ug/L	97
33) 2,2-Dichloropropane	7.247	77	32636	24.3331	ug/L	99
34) Bromochloromethane	7.351	128	13442	27.0499	ug/L	87
35) Cyclohexane	7.369	56	53311	27.4855	ug/L	96
36) Chloroform	7.406	83	50924	26.3729	ug/L	98
37) Ethyl acetate	7.497	43	240886	133.3874	ug/L	99
38) Tetrahydrofuran	7.595	42	16560	23.6677	ug/L	99
40) Carbon Tetrachloride	7.582	117	29508	22.5797	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	38416	25.9062	ug/L	96
42) 2-Butanone	7.723	43	108119	111.5461	ug/L	98
43) 1,1-Dichloropropene	7.777	75	39434	27.8308	ug/L	96
44) tert-Butyl formate	7.869	59	54503	213.9298	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.046	54	67140	256.2009	ug/L		91
46) Methacrylonitrile	8.070	41	323105	274.0831	ug/L		99
47) Benzene	8.046	78	121319	25.6363	ug/L		99
48) TAME	8.113	73	76028	25.0067	ug/L		93
50) 1,2-Dichloroethane	8.247	62	39540	27.6136	ug/L		96
51) tert Amyl alcohol	8.283	59	33218	186.3406	ug/L		94
52) Trichloroethene	8.637	95	31015	26.6856	ug/L		94
53) Methylcyclohexane	8.637	83	51305	24.3795	ug/L		94
54) Dibromomethane	9.082	93	18149	24.2828	ug/L		95
55) 1,2-Dichloropropane	9.173	63	31389	28.2246	ug/L		98
56) Bromodichloromethane	9.216	83	31512	24.8879	ug/L		96
57) Methyl methacrylate	9.326	41	30765	24.5321	ug/L		98
58) 1,4-Dioxane	9.411	88	4594	276.4485	ug/L		90
60) cis-1,3-Dichloropropene	9.850	75	34916	21.0866	ug/L		95
63) Toluene	10.088	91	113890	24.1868	ug/L		98
64) Isobutyl alcohol	8.174	43	38168	459.3562	ug/L		96
65) 2-Nitropropane	10.313	41	31351	129.7432	ug/L		97
66) 4-Methyl-2-pentanone	10.423	43	251088	134.8622	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	31087	20.5429	ug/L		87
68) Tetrachloroethene	10.490	166	27665	24.3457	ug/L		96
69) Ethyl methacrylate	10.588	69	35499	24.6127	ug/L		91
70) 1,1,2-Trichloroethane	10.649	83	23130	27.2926	ug/L		97
71) Dibromochloromethane	10.844	129	20942	22.5521	ug/L		95
72) 1,3-Dichloropropane	10.935	76	45856	29.6095	ug/L		97
73) 1,2-Dibromoethane	11.112	107	24197	24.6530	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.185	57	67633	787.7532	ug/L		97
75) 2-hexanone	11.246	43	171798	122.3861	ug/L		99
76) 1-Chlorohexane	11.539	91	37616	27.7186	ug/L		94
77) Ethylbenzene	11.606	91	132341	24.0724	ug/L		98
78) Chlorobenzene	11.612	112	74254	25.0112	ug/L		99
79) 1,1,1,2-Tetrachloroethane	11.661	131	21530	25.3952	ug/L		92
80) m,p-Xylene	11.746	91	189651	47.6876	ug/L		97
81) o-Xylene	12.185	91	88625	23.7132	ug/L		99
82) Styrene	12.240	104	67530	24.7682	ug/L		97
83) Bromoform	12.301	173	12269	22.8977	ug/L		92
84) Isopropylbenzene	12.490	105	106909	24.8714	ug/L		98
87) cis-1,4-Dichloro-2-butene	12.856	53	4452	17.1002	ug/L	#	80
88) n-Propylbenzene	12.911	91	137625	24.9427	ug/L		98
89) Bromobenzene	12.941	156	27275	26.7870	ug/L		95
90) 1,1,2,2-Tetrachloroethane	12.978	83	38842	26.6415	ug/L		98
91) 1,3,5-Trimethylbenzene	13.087	105	87614	25.6663	ug/L		99
92) 2-Chlorotoluene	13.106	91	87331	24.2724	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.160	53	4943	16.5947	ug/L	#	56
94) 1,2,3-Trichloropropane	13.142	110	9387	25.2829	ug/L	#	76
95) Cyclohexanone	13.221	55	3813	78.7246	ug/L		92
96) 4-Chlorotoluene	13.270	91	75883	24.9916	ug/L		98
98) tert-Butylbenzene	13.435	91	48851	25.2366	ug/L		96
99) 1,2,4-Trimethylbenzene	13.502	105	85310	25.6471	ug/L		99
100) Pentachloroethane	13.490	167	12797	22.9925	ug/L		94
101) sec-Butylbenzene	13.618	105	105301	24.0247	ug/L		99
102) 4-Isopropyltoluene	13.746	119	84508	25.7897	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	47476	24.7203	ug/L		96
104) 1,2,3-Trimethylbenzene	13.959	105	93502	24.7203	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	54858	24.5702	ug/L		97
106) n-Butylbenzene	14.166	92	46308	24.7104	ug/L		99
107) Benzyl Chloride	14.197	126	6550	21.5673	ug/L	#	81
108) 1,2-Dichlorobenzene	14.386	146	44499	25.5110	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.117	75	4401	20.9521	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

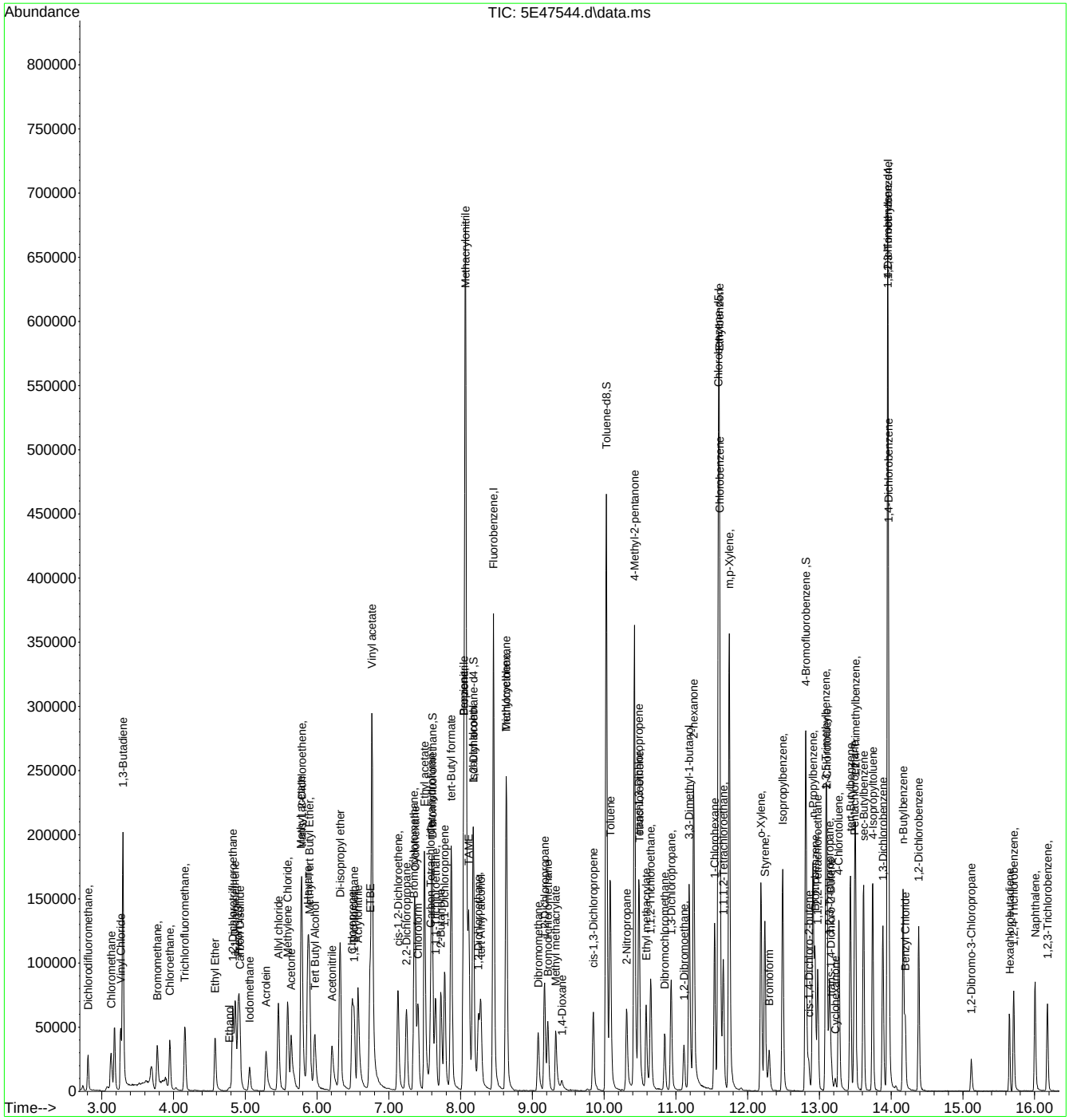
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	15.654	225	8522	23.8528	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	21863	24.8388	ug/L	99
112) Naphthalene	16.008	128	60906	22.1309	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	19278	24.3028	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integration Approval Summary

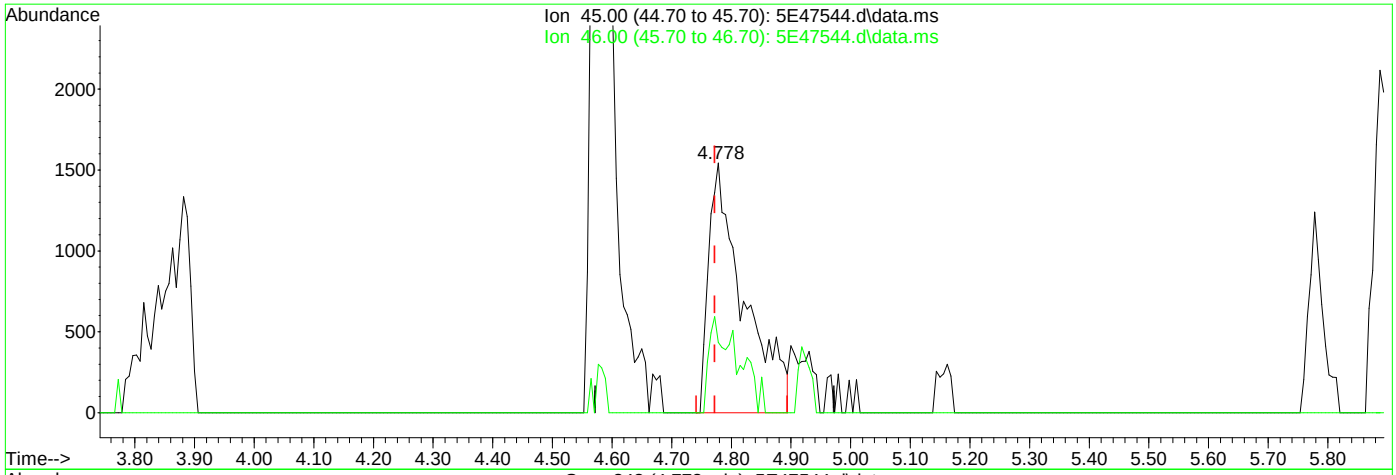
Sample Number: FC16592-2MS
Lab FileID: 5E47544.D
Injection Time: 06/28/24 19:08
Method: SW846 8260D
Analyst approved: 07/01/24 03:13 Lotus Acosta
Supervisor approved: 07/01/24 07:56 Neil Christiana

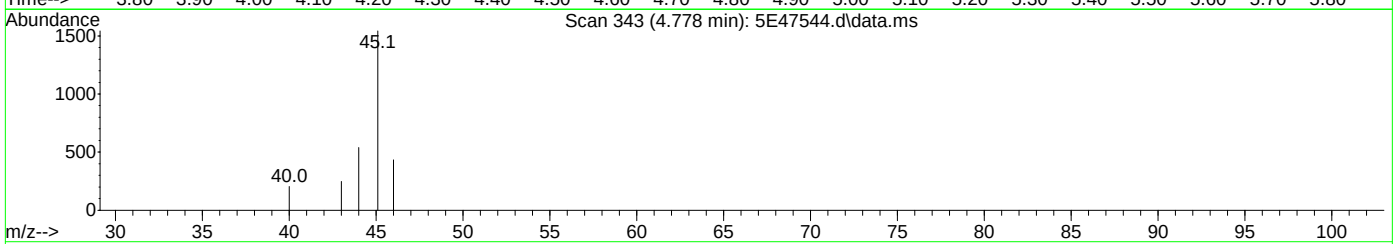
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.78	Split peak

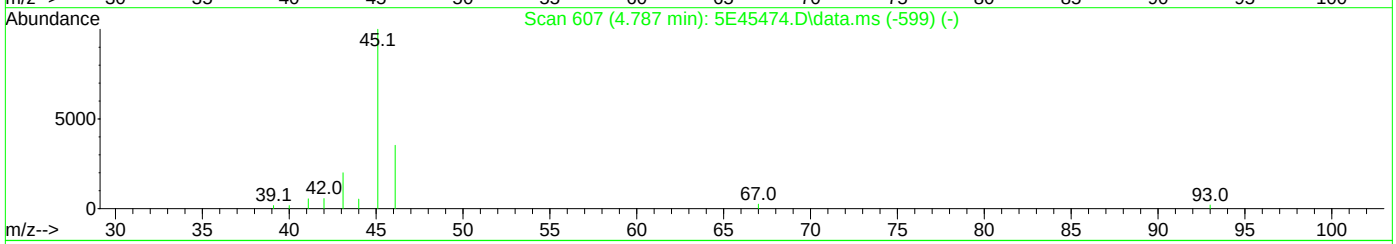
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:41:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration







TIC: 5E47544.d\data.ms

(10) Ethanol

4.778min (+0.006) 340.84ug/L

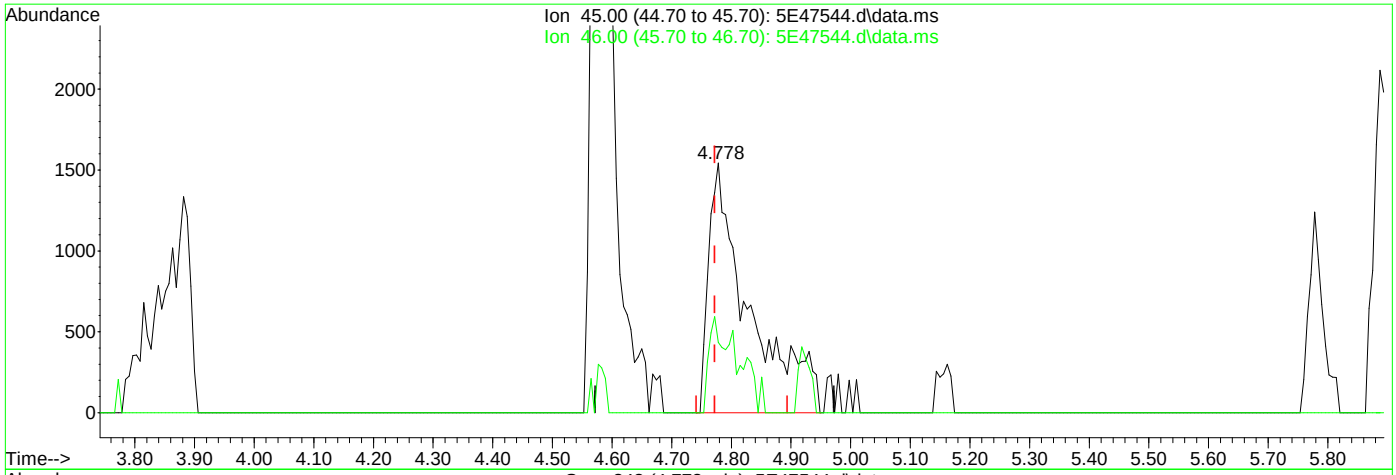
response 6317

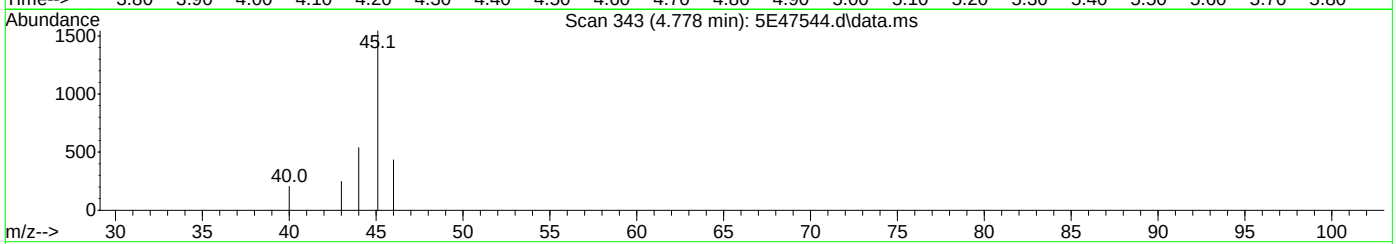
Ion	Exp%	Act%
45.00	100	100
46.00	36.80	28.11
0.00	0.00	0.00
0.00	0.00	0.00

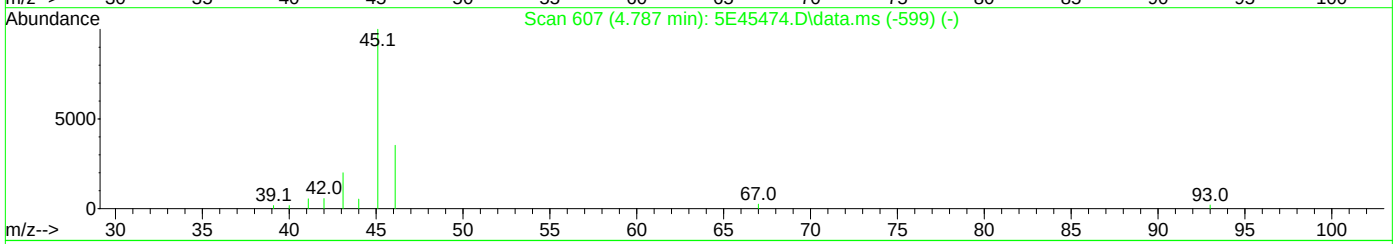
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:41:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration







TIC: 5E47544.d\data.ms

(10) Ethanol

4.778min (+0.006) 391.77ug/L m

response 7261

Ion	Exp%	Act%
45.00	100	100
46.00	36.80	28.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	307205	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	203767	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	105377	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	77539	48.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.34%			
49) 1,2-Dichloroethane-d4	8.180	65	95028	50.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.70%			
62) Toluene-d8	10.033	98	281318	49.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.86%			
86) 4-Bromofluorobenzene	12.807	95	87343	50.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	20616	21.4699	ug/L	97
3) Chloromethane	3.132	50	34916	23.3790	ug/L	98
4) Vinyl Chloride	3.266	62	42198	21.4795	ug/L	97
5) 1,3-Butadiene	3.297	39	80753	33.6624	ug/L	90
6) Bromomethane	3.772	94	24726	18.3703	ug/L	98
7) Chloroethane	3.949	64	32816	22.9788	ug/L	96
8) Trichlorofluoromethane	4.156	101	39637	20.8159	ug/L	93
9) Ethyl Ether	4.583	59	23177	25.1593	ug/L	96
10) Ethanol	4.772	45	8469	439.5948	ug/L	96
11) 1,2-Dichlorotrifluoroe...	4.827	67	37409	38.4416	ug/L	94
12) 1,1-Dichloroethene	4.863	61	43219	26.3639	ug/L	98
13) Freon 113	4.900	101	27527	23.8600	ug/L	96
14) Carbon Disulfide	4.924	76	64636	20.0288	ug/L	96
15) Iodomethane	5.058	142	26529	21.2315	ug/L	96
16) Acrolein	5.290	56	33973	130.4918	ug/L	95
17) Allyl chloride	5.461	41	47925	26.1378	ug/L	93
18) Methylene Chloride	5.589	49	47155	26.4176	ug/L	97
19) Acetone	5.644	43	60576	111.7664	ug/L	95
20) Methyl acetate	5.778	43	164479	116.6050	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	42272	25.8902	ug/L	96
22) Hexane	5.875	56	24868	23.5101	ug/L #	91
23) Methyl Tert Butyl Ether	5.894	73	79542	25.6975	ug/L	98
24) Acetonitrile	6.211	41	51637	252.7206	ug/L	97
25) Di-isopropyl ether	6.320	45	106239	25.6414	ug/L	95
26) Chloroprene	6.491	53	39015	27.4429	ug/L	98
27) 1,1-Dichloroethane	6.515	63	54232	25.0554	ug/L	96
28) Acrylonitrile	6.570	53	70694	117.7184	ug/L	99
29) ETBE	6.741	59	82405	24.8320	ug/L	98
30) Tert Butyl Alcohol	5.973	59	50774	205.5676	ug/L	93
31) Vinyl acetate	6.765	43	447951	123.5410	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	35191	29.1950	ug/L	95
33) 2,2-Dichloropropane	7.247	77	33695	24.1683	ug/L	97
34) Bromochloromethane	7.351	128	13899	26.9070	ug/L	87
35) Cyclohexane	7.363	56	55282	27.4190	ug/L	97
36) Chloroform	7.405	83	51956	25.8852	ug/L	99
37) Ethyl acetate	7.497	43	242238	129.0406	ug/L	99
38) Tetrahydrofuran	7.594	42	16906	23.2443	ug/L	95
40) Carbon Tetrachloride	7.582	117	30931	22.7695	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	38018	24.6639	ug/L	99
42) 2-Butanone	7.722	43	106927	106.1257	ug/L	98
43) 1,1-Dichloropropene	7.777	75	40201	27.2943	ug/L	96
44) tert-Butyl formate	7.869	59	55113	208.8593	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	67148	247.4911	ug/L		97
46) Methacrylonitrile	8.070	41	317822	260.9287	ug/L		98
47) Benzene	8.046	78	122906	24.9851	ug/L		97
48) TAME	8.113	73	76743	24.2830	ug/L		95
50) 1,2-Dichloroethane	8.247	62	38858	26.1064	ug/L		96
51) tert Amyl alcohol	8.283	59	37415	201.9112	ug/L		95
52) Trichloroethene	8.637	95	31450	26.0319	ug/L		96
53) Methylcyclohexane	8.637	83	51287	23.4452	ug/L		96
54) Dibromomethane	9.082	93	19014	24.4738	ug/L		95
55) 1,2-Dichloropropane	9.173	63	32578	28.1809	ug/L		97
56) Bromodichloromethane	9.216	83	31740	24.1157	ug/L		95
57) Methyl methacrylate	9.326	41	31240	23.9645	ug/L		96
58) 1,4-Dioxane	9.411	88	7942	459.7627	ug/L		94
60) cis-1,3-Dichloropropene	9.850	75	36875	21.4238	ug/L		97
63) Toluene	10.088	91	118045	24.4240	ug/L		100
64) Isobutyl alcohol	8.168	43	43457	509.5501	ug/L		96
65) 2-Nitropropane	10.313	41	31556	127.5112	ug/L		95
66) 4-Methyl-2-pentanone	10.423	43	248843	130.2167	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	31521	20.2936	ug/L		94
68) Tetrachloroethene	10.484	166	27879	23.9027	ug/L		94
69) Ethyl methacrylate	10.588	69	36178	24.4380	ug/L		94
70) 1,1,2-Trichloroethane	10.649	83	22863	26.2833	ug/L		98
71) Dibromochloromethane	10.844	129	22086	23.1720	ug/L		97
72) 1,3-Dichloropropane	10.935	76	46187	29.0557	ug/L		97
73) 1,2-Dibromoethane	11.112	107	23727	23.5520	ug/L		92
74) 3,3-Dimethyl-1-butanol	11.185	57	112434	1174.5585	ug/L		99
75) 2-hexanone	11.246	43	174798	121.3186	ug/L		98
76) 1-Chlorohexane	11.539	91	38573	27.6923	ug/L		94
77) Ethylbenzene	11.606	91	134847	23.8970	ug/L		97
78) Chlorobenzene	11.612	112	76244	25.0206	ug/L		96
79) 1,1,1,2-Tetrachloroethane	11.661	131	22648	26.0265	ug/L		97
80) m,p-Xylene	11.746	91	196930	48.2436	ug/L		97
81) o-Xylene	12.185	91	92437	24.0966	ug/L		99
82) Styrene	12.240	104	68243	24.3855	ug/L		97
83) Bromoform	12.301	173	12148	22.1643	ug/L		97
84) Isopropylbenzene	12.490	105	111462	25.2633	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	4399	16.6781	ug/L	#	80
88) n-Propylbenzene	12.910	91	143247	25.6022	ug/L		97
89) Bromobenzene	12.941	156	27565	26.6969	ug/L		96
90) 1,1,2,2-Tetrachloroethane	12.978	83	39003	26.3816	ug/L		97
91) 1,3,5-Trimethylbenzene	13.087	105	89238	25.7801	ug/L		99
92) 2-Chlorotoluene	13.106	91	89965	24.6582	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.167	53	4952	16.3947	ug/L		94
94) 1,2,3-Trichloropropane	13.142	110	9877	26.2343	ug/L		89
95) Cyclohexanone	13.215	55	5511	112.2068	ug/L		97
96) 4-Chlorotoluene	13.270	91	77615	25.2081	ug/L		98
98) tert-Butylbenzene	13.435	91	48858	24.8908	ug/L		97
99) 1,2,4-Trimethylbenzene	13.502	105	87178	25.8458	ug/L		99
100) Pentachloroethane	13.490	167	12685	22.4757	ug/L		97
101) sec-Butylbenzene	13.618	105	109443	24.6240	ug/L		100
102) 4-Isopropyltoluene	13.746	119	86568	26.0526	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	47885	24.5880	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	95690	24.9485	ug/L		96
105) 1,4-Dichlorobenzene	13.965	146	57298	25.3077	ug/L		97
106) n-Butylbenzene	14.166	92	48273	25.4022	ug/L		93
107) Benzyl Chloride	14.197	126	6485	21.1067	ug/L	#	81
108) 1,2-Dichlorobenzene	14.386	146	46024	26.0200	ug/L		96
109) 1,2-Dibromo-3-Chloropr...	15.111	75	4450	20.8921	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

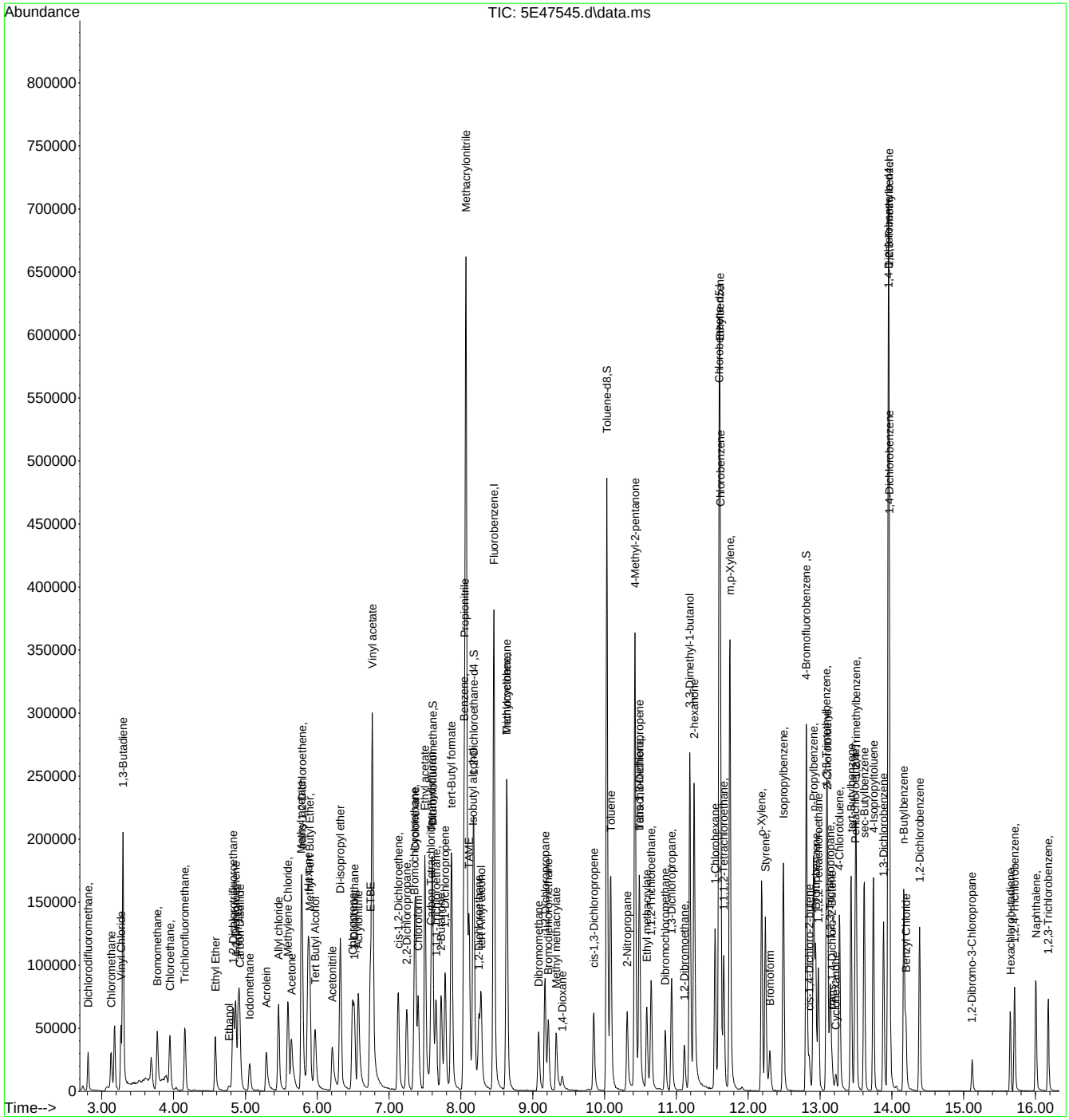
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	15.654	225	9143	25.2367	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	23176	25.9659	ug/L	95
112) Naphthalene	16.007	128	64820	23.2270	ug/L	98
113) 1,2,3-Trichlorobenzene	16.178	180	20345	25.2928	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

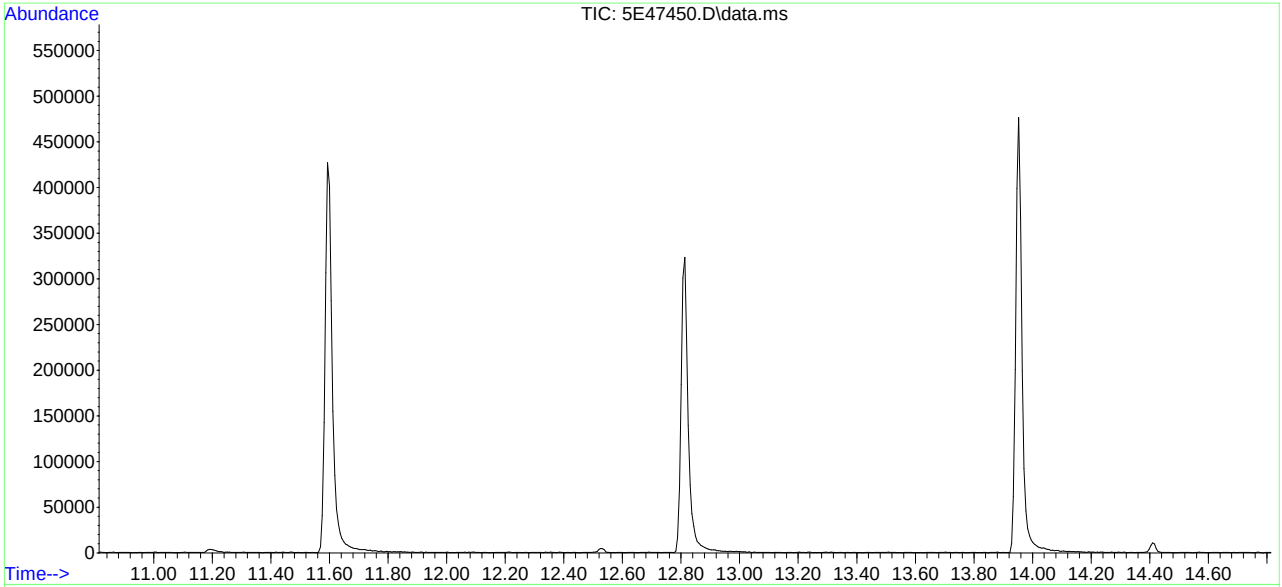
Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

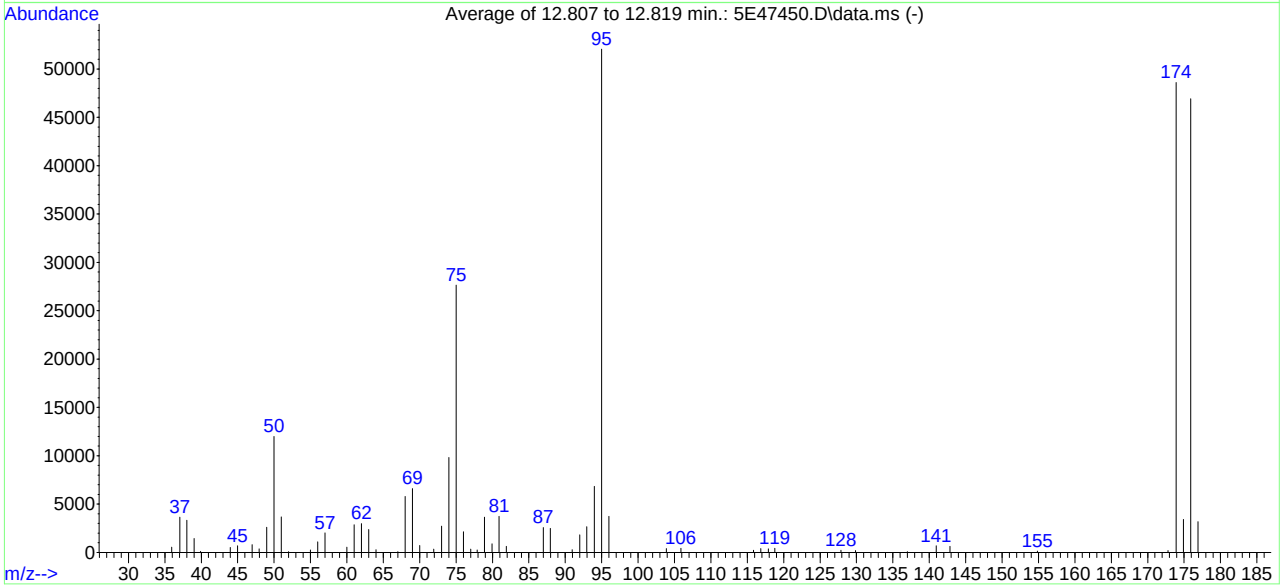


Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\06-25-2024\5E47450.D       Vial: 1
Acq On    : 25 Jun 2024  12:21 pm                    Operator: lianatr
Sample    : BFB                                      Inst    : MSVOA20_5E
Misc      : MS56906,V5E2113,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method    : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

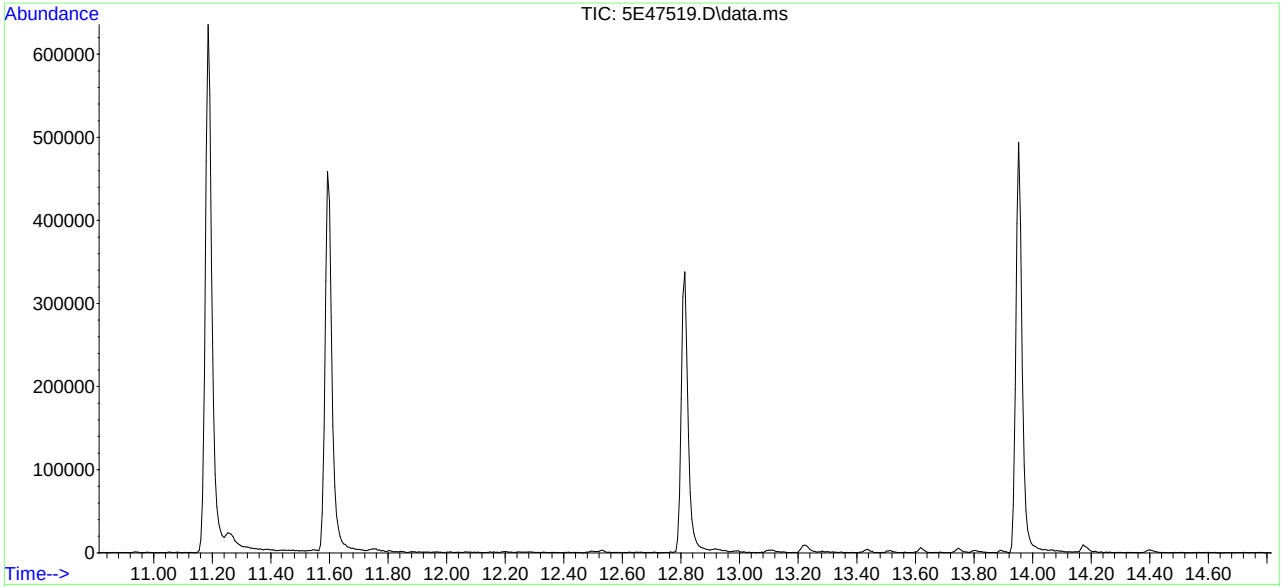
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	52048	PASS
96	95	5	9	7.2	3740	PASS
173	174	0.00	2	0.4	195	PASS
174	95	50	200	93.4	48613	PASS
175	174	5	9	7.0	3397	PASS
176	174	95	105	96.5	46925	PASS
177	176	5	10	6.7	3166	PASS

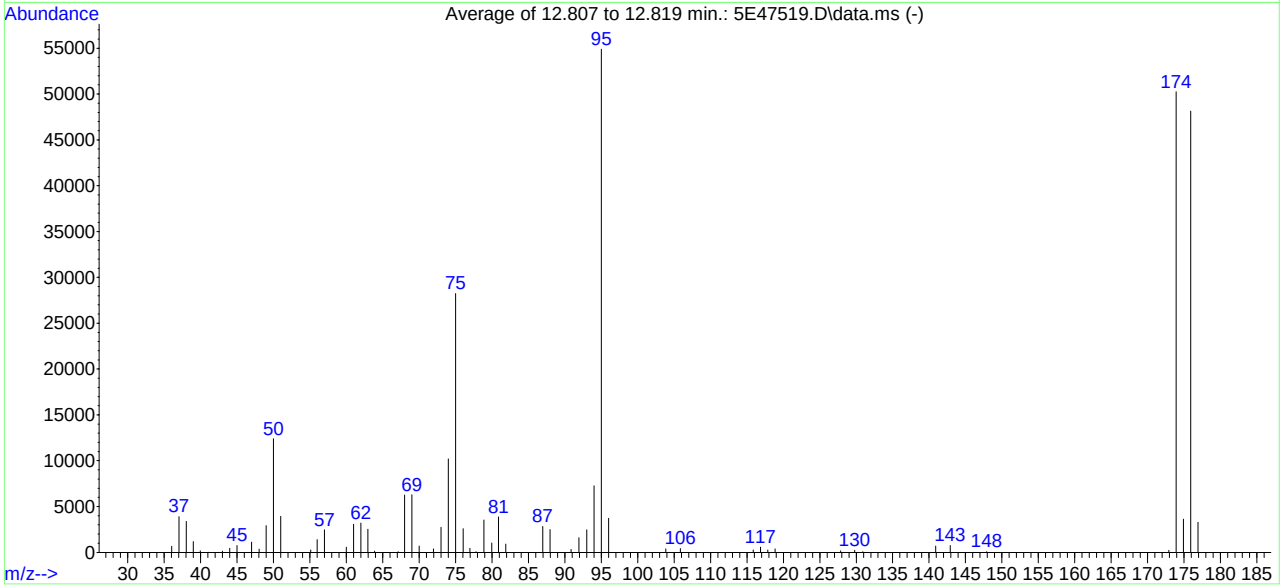
5E47450.D V5E2113_06252024_.M Wed Jun 26 06:58:25 2024

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\06-28-2024\5E47519.D       Vial: 1
Acq On    : 28 Jun 2024   9:17 am                    Operator: lianatr
Sample    : BFB                                      Inst    : MSVOA20_5E
Misc      : MS56925,V5E2118,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method    : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	54888	PASS
96	95	5	9	6.8	3723	PASS
173	174	0.00	2	0.5	228	PASS
174	95	50	200	91.5	50243	PASS
175	174	5	9	7.2	3625	PASS
176	174	95	105	95.8	48149	PASS
177	176	5	10	6.9	3302	PASS

5E47519.D V5E2113_06252024_.M Fri Jun 28 11:21:08 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	380554	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	242002	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	119212	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	95400	45.84	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.68%				
49) 1,2-Dichloroethane-d4	8.180	65	110171	51.11	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.22%				
62) Toluene-d8	10.033	98	351481	55.85	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.70%				
86) 4-Bromofluorobenzene	12.807	95	104436	55.83	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	1337	0.96	ug/L		78
3) Chloromethane	3.132	50	2805	1.42	ug/L		100
4) Vinyl Chloride	3.266	62	3297	1.34	ug/L		86
5) 1,3-Butadiene	3.297	39	5513	1.38	ug/L		87
6) Bromomethane	3.772	94	2379	1.29	ug/L		89
7) Chloroethane	3.949	64	2111	1.24	ug/L		90
8) Trichlorofluoromethane	4.162	101	2840	1.12	ug/L		90
9) Ethyl Ether	4.583	59	1071	0.99	ug/L	#	80
11) 1,2-Dichlorotrifluoroe...	4.827	67	941	0.76	ug/L	#	59
12) 1,1-Dichloroethene	4.863	61	1810	0.86	ug/L		85
13) Freon 113	4.900	101	948	0.66	ug/L		81
14) Carbon Disulfide	4.918	76	4180	0.93	ug/L		81
15) Iodomethane	5.058	142	564	0.26	ug/L	#	44
16) Acrolein	5.314	56	859	2.92	ug/L		87
17) Allyl chloride	5.467	41	2820	1.20	ug/L	#	79
18) Methylene Chloride	5.589	49	7269	3.40	ug/L		88
19) Acetone	5.656	43	3302	5.10	ug/L		82
20) Methyl acetate	5.796	43	6284	3.79	ug/L		97
21) trans-1,2-Dichloroethene	5.802	61	1936	0.86	ug/L		89
22) Hexane	5.869	56	840	0.66	ug/L	#	66
23) Methyl Tert Butyl Ether	5.894	73	3443	0.87	ug/L		91
24) Acetonitrile	6.241	41	2554	10.51	ug/L		76
25) Di-isopropyl ether	6.326	45	4775	1.01	ug/L		92
26) Chloroprene	6.491	53	1471	0.77	ug/L		90
27) 1,1-Dichloroethane	6.515	63	2482	0.93	ug/L		97
28) Acrylonitrile	6.589	53	3121	4.58	ug/L		82
29) ETBE	6.741	59	3405	0.83	ug/L		85
30) Tert Butyl Alcohol	5.979	59	1927	7.00	ug/L		83
31) Vinyl acetate	6.741	43	450	0.12	ug/L		74
32) cis-1,2-Dichloroethene	7.131	96	1328	0.83	ug/L		87
33) 2,2-Dichloropropane	7.247	77	1587	0.83	ug/L		78
34) Bromochloromethane	7.351	128	508	0.66	ug/L	#	75
35) Cyclohexane	7.369	56	1832	0.71	ug/L		93
36) Chloroform	7.405	83	2106	0.80	ug/L		90
37) Ethyl acetate	7.515	43	11080	5.46	ug/L		96
38) Tetrahydrofuran	7.607	42	669	0.83	ug/L	#	66
40) Carbon Tetrachloride	7.588	117	1054	0.73	ug/L	#	60
41) 1,1,1-Trichloroethane	7.649	97	1751	0.87	ug/L		96
42) 2-Butanone	7.710	43	431	0.41	ug/L		51
43) 1,1-Dichloropropene	7.790	75	1566	0.82	ug/L	#	81
44) tert-Butyl formate	7.875	59	2314	7.26	ug/L	#	79
45) Propionitrile	8.070	54	2842	10.07	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	13576	10.98	ug/L		93
47) Benzene	8.046	78	6132	0.99	ug/L		93
48) TAME	8.119	73	3373	0.82	ug/L		96
50) 1,2-Dichloroethane	8.259	62	1580	0.89	ug/L		84
51) tert Amyl alcohol	8.283	59	1296	6.64	ug/L	#	70
52) Trichloroethene	8.643	95	1379	0.84	ug/L		83
53) Methylcyclohexane	8.637	83	1690	0.57	ug/L		89
54) Dibromomethane	9.094	93	537	0.52	ug/L		86
55) 1,2-Dichloropropane	9.180	63	1257	0.88	ug/L	#	83
56) Bromodichloromethane	9.222	83	1302	0.68	ug/L		90
57) Methyl methacrylate	9.350	41	431	0.28	ug/L	#	77
59) 2-Chloroethyl vinyl ether	9.765	63	2192	3.45	ug/L	#	73
60) cis-1,3-Dichloropropene	9.856	75	1158	0.51	ug/L		72
63) Toluene	10.088	91	7158	1.33	ug/L		97
64) Isobutyl alcohol	8.186	43	1929	22.08	ug/L	#	67
65) 2-Nitropropane	10.326	41	849	4.56	ug/L		84
66) 4-Methyl-2-pentanone	10.435	43	9053	4.72	ug/L		90
67) trans-1,3-Dichloropropene	10.509	75	741	0.42	ug/L	#	39
68) Tetrachloroethene	10.496	166	1252	0.84	ug/L		78
69) Ethyl methacrylate	10.612	69	777	0.47	ug/L	#	76
70) 1,1,2-Trichloroethane	10.661	83	868	0.89	ug/L		81
71) Dibromochloromethane	10.856	129	647	0.57	ug/L		84
72) 1,3-Dichloropropane	10.941	76	1495	0.85	ug/L		94
73) 1,2-Dibromoethane	11.124	107	489	0.43	ug/L		86
74) 3,3-Dimethyl-1-butanol	11.191	57	4409	71.17	ug/L		85
75) 2-hexanone	11.271	43	5200	3.95	ug/L		92
76) 1-Chlorohexane	11.545	91	1193	0.70	ug/L		80
77) Ethylbenzene	11.606	91	7682	1.23	ug/L		84
78) Chlorobenzene	11.618	112	3460	0.98	ug/L		88
79) 1,1,1,2-Tetrachloroethane	11.667	131	914	0.87	ug/L	#	66
80) m,p-Xylene	11.752	91	10565	2.32	ug/L		94
81) o-Xylene	12.197	91	5041	1.17	ug/L		98
82) Styrene	12.258	104	1890	0.62	ug/L		92
83) Bromoform	12.307	173	168m	0.20	ug/L		
84) Isopropylbenzene	12.496	105	4734	0.92	ug/L		94
88) n-Propylbenzene	12.917	91	6343	1.13	ug/L		86
89) Bromobenzene	12.947	156	968	0.87	ug/L		79
90) 1,1,2,2-Tetrachloroethane	12.978	83	1415	0.96	ug/L		92
91) 1,3,5-Trimethylbenzene	13.100	105	3555	0.97	ug/L		90
92) 2-Chlorotoluene	13.118	91	4232	1.17	ug/L		85
94) 1,2,3-Trichloropropane	13.148	110	244	0.65	ug/L	#	36
96) 4-Chlorotoluene	13.288	91	3528	1.13	ug/L		95
98) tert-Butylbenzene	13.435	91	2028	1.00	ug/L		82
99) 1,2,4-Trimethylbenzene	13.508	105	3612	1.04	ug/L		90
100) Pentachloroethane	13.490	167	277	0.50	ug/L	#	71
101) sec-Butylbenzene	13.618	105	4931	1.08	ug/L		97
102) 4-Isopropyltoluene	13.746	119	3177	0.88	ug/L		76
103) 1,3-Dichlorobenzene	13.892	146	2138	1.02	ug/L		92
104) 1,2,3-Trimethylbenzene	13.959	105	4066	1.03	ug/L	#	45
105) 1,4-Dichlorobenzene	13.965	146	2398	0.98	ug/L	#	1
106) n-Butylbenzene	14.191	92	1179	0.64	ug/L	#	49
108) 1,2-Dichlorobenzene	14.392	146	1754	0.90	ug/L		86
110) Hexachlorobutadiene	15.660	225	387	0.96	ug/L	#	47
111) 1,2,4-Trichlorobenzene	15.727	180	801	0.81	ug/L		69
112) Naphthalene	16.026	128	1931	0.68	ug/L		70
113) 1,2,3-Trichlorobenzene	16.190	180	750	0.83	ug/L		76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

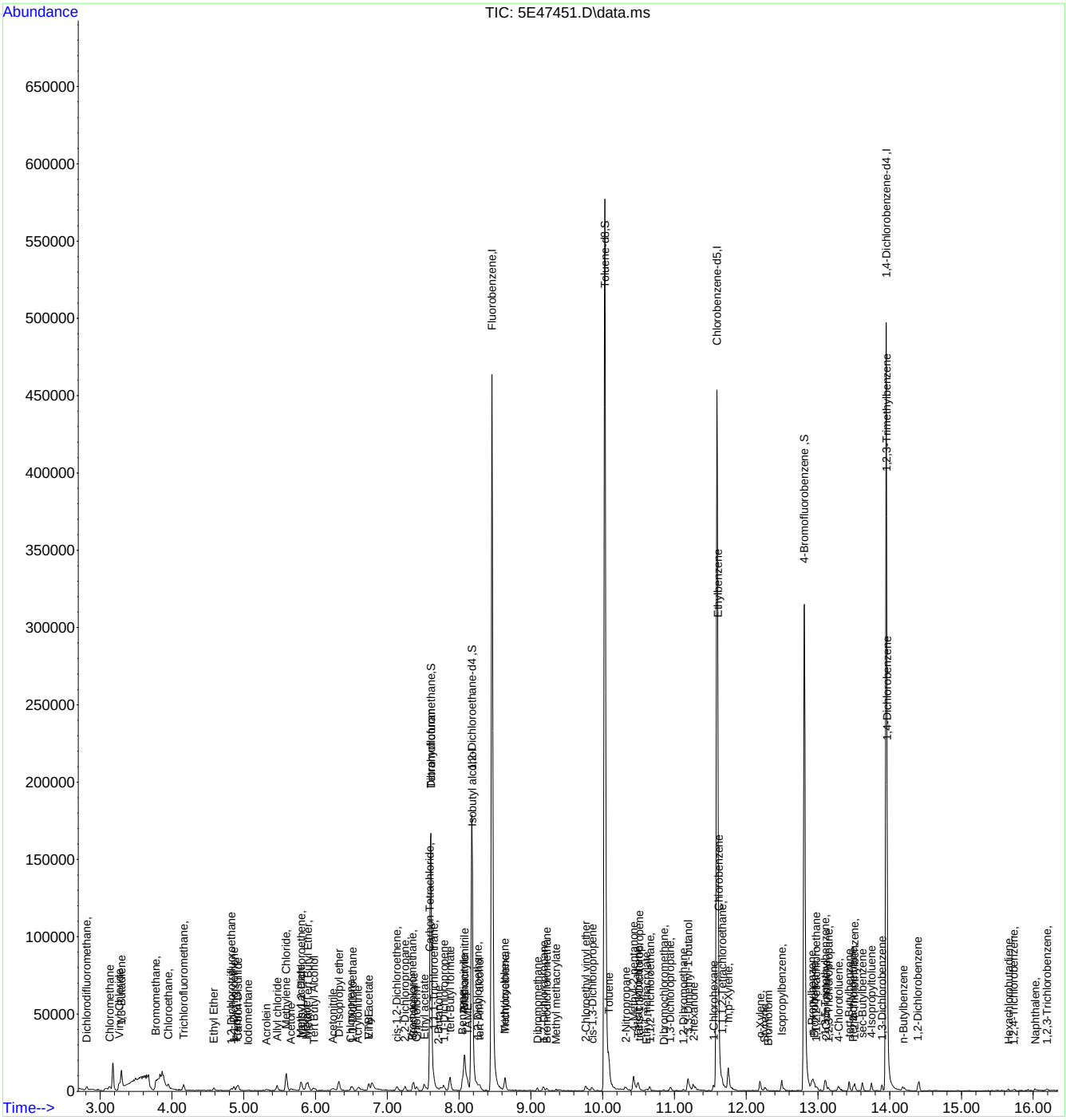
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47451.D
Injection Time: 06/25/24 12:49

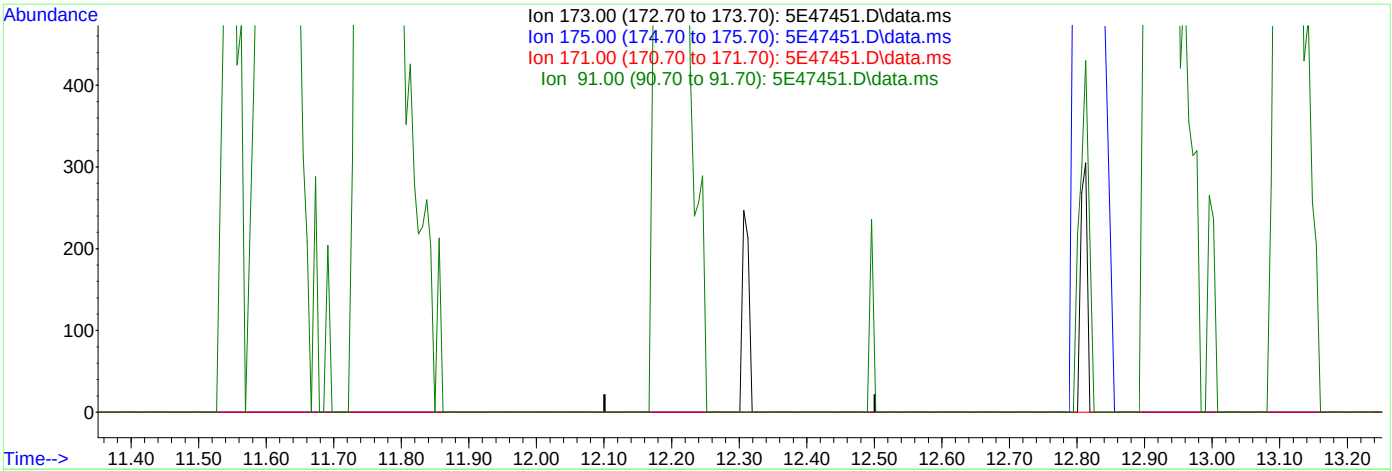
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

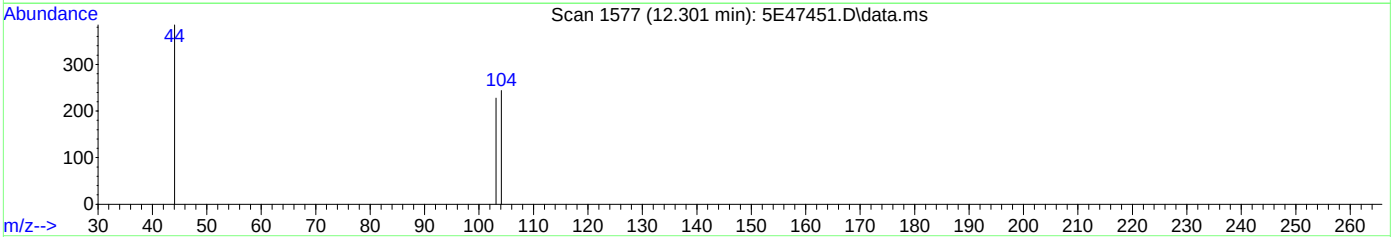
Parameter	CAS	Sig#	R.T. (min.)	Reason
Bromoform	75-25-2		12.31	Missed peak

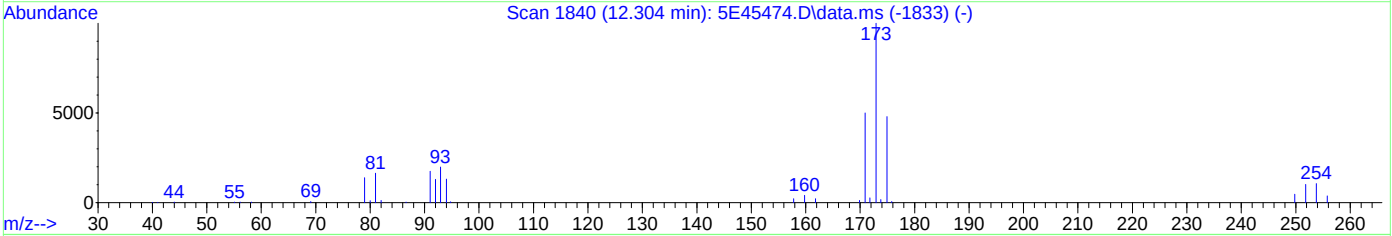
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.301min (-12.301) 0.00ug/L

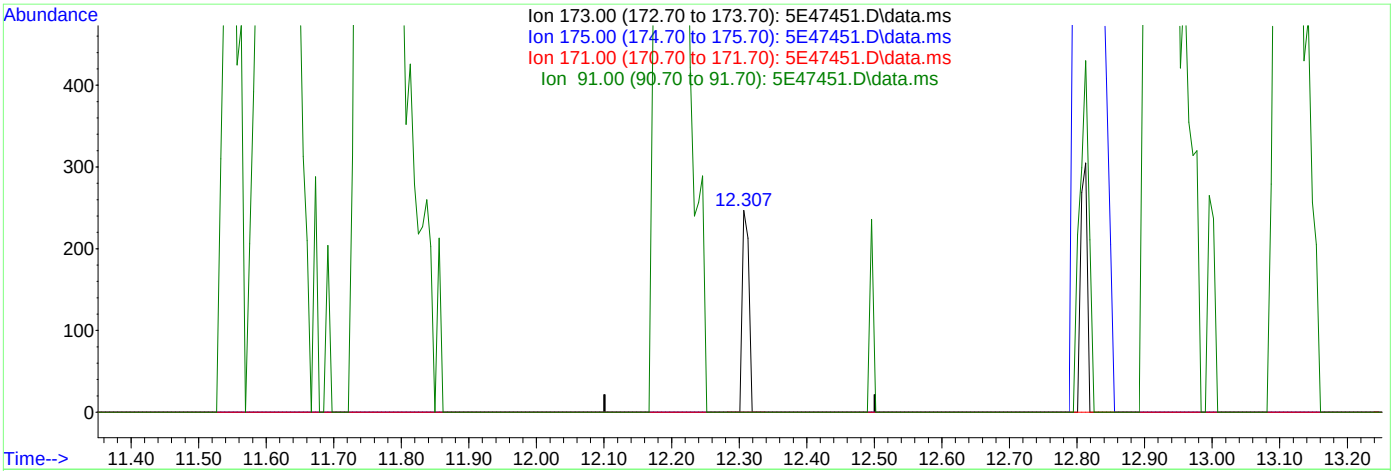
response 0

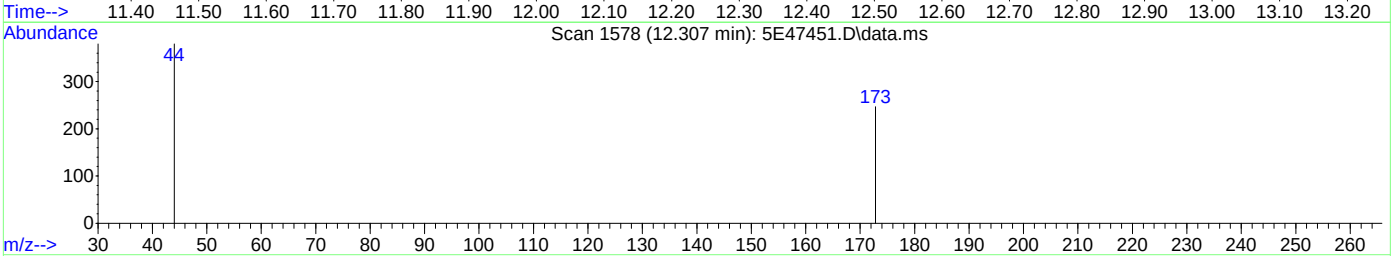
Ion	Exp%	Act%
173.00	100	0.00
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

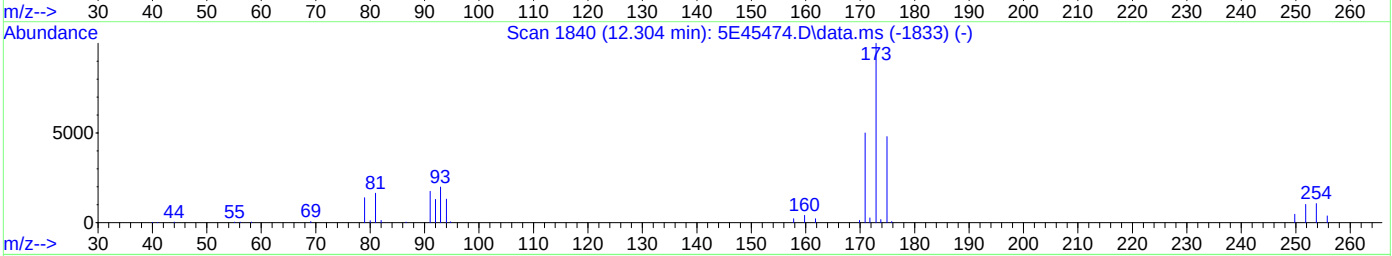
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.307min (+0.006) 0.20ug/L m

response 168

Ion	Exp%	Act%
173.00	100	100
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	369874	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	237472	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	116771	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	95637	47.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.38%				
49) 1,2-Dichloroethane-d4	8.180	65	108579	51.37	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.74%				
62) Toluene-d8	10.033	98	349879	56.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.22%#				
86) 4-Bromofluorobenzene	12.807	95	103993	56.47	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	2164	1.57	ug/L		94
3) Chloromethane	3.132	50	3905	1.94	ug/L		93
4) Vinyl Chloride	3.266	62	4430	1.78	ug/L		89
5) 1,3-Butadiene	3.296	39	7909	1.89	ug/L		88
6) Bromomethane	3.772	94	3305	1.81	ug/L		90
7) Chloroethane	3.949	64	3136	1.82	ug/L		79
8) Trichlorofluoromethane	4.162	101	3986	1.57	ug/L		98
9) Ethyl Ether	4.589	59	2241	2.10	ug/L	#	81
11) 1,2-Dichlorotrifluoroe...	4.833	67	2878	2.49	ug/L		86
12) 1,1-Dichloroethene	4.863	61	4345	2.19	ug/L		91
13) Freon 113	4.906	101	3000	2.20	ug/L		86
14) Carbon Disulfide	4.924	76	8977	2.15	ug/L		90
15) Iodomethane	5.058	142	1465	0.70	ug/L		85
16) Acrolein	5.314	56	2501	9.12	ug/L		71
17) Allyl chloride	5.461	41	3646	1.59	ug/L		89
18) Methylene Chloride	5.595	49	9963	4.79	ug/L		95
19) Acetone	5.656	43	6906	11.11	ug/L		95
20) Methyl acetate	5.790	43	12635	7.85	ug/L		94
21) trans-1,2-Dichloroethene	5.796	61	4157	1.90	ug/L		94
22) Hexane	5.869	56	2790	2.39	ug/L		90
23) Methyl Tert Butyl Ether	5.894	73	7594	1.99	ug/L		76
24) Acetonitrile	6.259	41	4097	17.40	ug/L		88
25) Di-isopropyl ether	6.326	45	10713	2.35	ug/L		96
26) Chloroprene	6.491	53	2945	1.61	ug/L		86
27) 1,1-Dichloroethane	6.515	63	5507	2.17	ug/L		94
28) Acrylonitrile	6.588	53	6677	10.04	ug/L		98
29) ETBE	6.741	59	8059	2.06	ug/L		98
30) Tert Butyl Alcohol	5.973	59	4696	18.27	ug/L	#	63
31) Vinyl acetate	6.777	43	28370	7.86	ug/L		98
32) cis-1,2-Dichloroethene	7.131	96	2990	1.95	ug/L		88
33) 2,2-Dichloropropane	7.247	77	3277	1.82	ug/L		86
34) Bromochloromethane	7.357	128	1013	1.39	ug/L	#	67
35) Cyclohexane	7.369	56	5043	2.11	ug/L		91
36) Chloroform	7.411	83	4902	1.97	ug/L		96
37) Ethyl acetate	7.509	43	20430	10.27	ug/L		93
38) Tetrahydrofuran	7.607	42	1961	2.61	ug/L		87
40) Carbon Tetrachloride	7.588	117	3035	2.17	ug/L		86
41) 1,1,1-Trichloroethane	7.655	97	3927	2.05	ug/L		97
42) 2-Butanone	7.741	43	10194	10.87	ug/L		86
43) 1,1-Dichloropropene	7.783	75	3689	2.03	ug/L		91
44) tert-Butyl formate	7.869	59	5125	16.65	ug/L	#	74
45) Propionitrile	8.058	54	4418	16.00	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	21976	18.15	ug/L		97
47) Benzene	8.052	78	12371	2.08	ug/L		91
48) TAME	8.119	73	7402	1.89	ug/L		98
50) 1,2-Dichloroethane	8.247	62	3690	2.13	ug/L		93
51) tert Amyl alcohol	8.283	59	2823	15.60	ug/L	#	77
52) Trichloroethene	8.643	95	2967	1.93	ug/L		91
53) Methylcyclohexane	8.637	83	5017	1.74	ug/L		92
54) Dibromomethane	9.082	93	1681	1.68	ug/L		78
55) 1,2-Dichloropropane	9.179	63	2851	2.10	ug/L		86
56) Bromodichloromethane	9.216	83	3232	1.74	ug/L		88
57) Methyl methacrylate	9.344	41	1036	0.69	ug/L	#	69
59) 2-Chloroethyl vinyl ether	9.759	63	5422	9.17	ug/L		83
60) cis-1,3-Dichloropropene	9.856	75	3148	1.43	ug/L		95
63) Toluene	10.088	91	12851	2.40	ug/L		98
64) Isobutyl alcohol	8.180	43	3088	36.47	ug/L	#	62
65) 2-Nitropropane	10.319	41	2384	13.11	ug/L		92
66) 4-Methyl-2-pentanone	10.429	43	23627	12.46	ug/L		94
67) trans-1,3-Dichloropropene	10.490	75	2439	1.42	ug/L		90
68) Tetrachloroethene	10.496	166	3000	2.10	ug/L		85
69) Ethyl methacrylate	10.600	69	1227	0.76	ug/L	#	53
70) 1,1,2-Trichloroethane	10.649	83	2032	2.13	ug/L		94
71) Dibromochloromethane	10.850	129	1800	1.61	ug/L		82
72) 1,3-Dichloropropane	10.935	76	3681	2.17	ug/L		87
73) 1,2-Dibromoethane	11.124	107	2105	2.02	ug/L		91
74) 3,3-Dimethyl-1-butanol	11.185	57	7002	113.51	ug/L		93
75) 2-hexanone	11.258	43	12536	9.79	ug/L		94
76) 1-Chlorohexane	11.539	91	3129	1.95	ug/L		91
77) Ethylbenzene	11.606	91	14449	2.33	ug/L		79
78) Chlorobenzene	11.612	112	7770	2.24	ug/L		86
79) 1,1,1,2-Tetrachloroethane	11.667	131	1965	1.93	ug/L	#	77
80) m,p-Xylene	11.746	91	19703	4.35	ug/L		94
81) o-Xylene	12.191	91	9353	2.18	ug/L		95
82) Styrene	12.252	104	5225	1.79	ug/L		82
83) Bromoform	12.301	173	857	1.05	ug/L		88
84) Isopropylbenzene	12.490	105	10924	2.18	ug/L		96
88) n-Propylbenzene	12.917	91	13871	2.50	ug/L		99
89) Bromobenzene	12.947	156	2578	2.38	ug/L		90
90) 1,1,2,2-Tetrachloroethane	12.984	83	3374	2.37	ug/L		94
91) 1,3,5-Trimethylbenzene	13.093	105	7986	2.25	ug/L		94
92) 2-Chlorotoluene	13.112	91	8928	2.49	ug/L		96
94) 1,2,3-Trichloropropane	13.148	110	897	2.56	ug/L	#	74
95) Cyclohexanone	13.234	55	99m	2.03	ug/L		
96) 4-Chlorotoluene	13.282	91	7283	2.37	ug/L		97
98) tert-Butylbenzene	13.435	91	5068	2.59	ug/L		88
99) 1,2,4-Trimethylbenzene	13.508	105	7826	2.29	ug/L		91
100) Pentachloroethane	13.496	167	657	1.28	ug/L	#	79
101) sec-Butylbenzene	13.618	105	11218	2.51	ug/L		94
102) 4-Isopropyltoluene	13.746	119	7659	2.19	ug/L		87
103) 1,3-Dichlorobenzene	13.892	146	4712	2.30	ug/L		94
104) 1,2,3-Trimethylbenzene	13.959	105	9032	2.33	ug/L	#	75
105) 1,4-Dichlorobenzene	13.971	146	5384	2.29	ug/L	#	76
106) n-Butylbenzene	14.185	92	4232	2.44	ug/L	#	69
107) Benzyl Chloride	14.203	126	94m	0.21	ug/L		
108) 1,2-Dichlorobenzene	14.392	146	4276	2.28	ug/L		92
109) 1,2-Dibromo-3-Chloropr...	15.130	75	91m	0.43	ug/L		
110) Hexachlorobutadiene	15.654	225	981	2.54	ug/L	#	81
111) 1,2,4-Trichlorobenzene	15.721	180	2038	2.13	ug/L		82
112) Naphthalene	16.013	128	4872	1.83	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

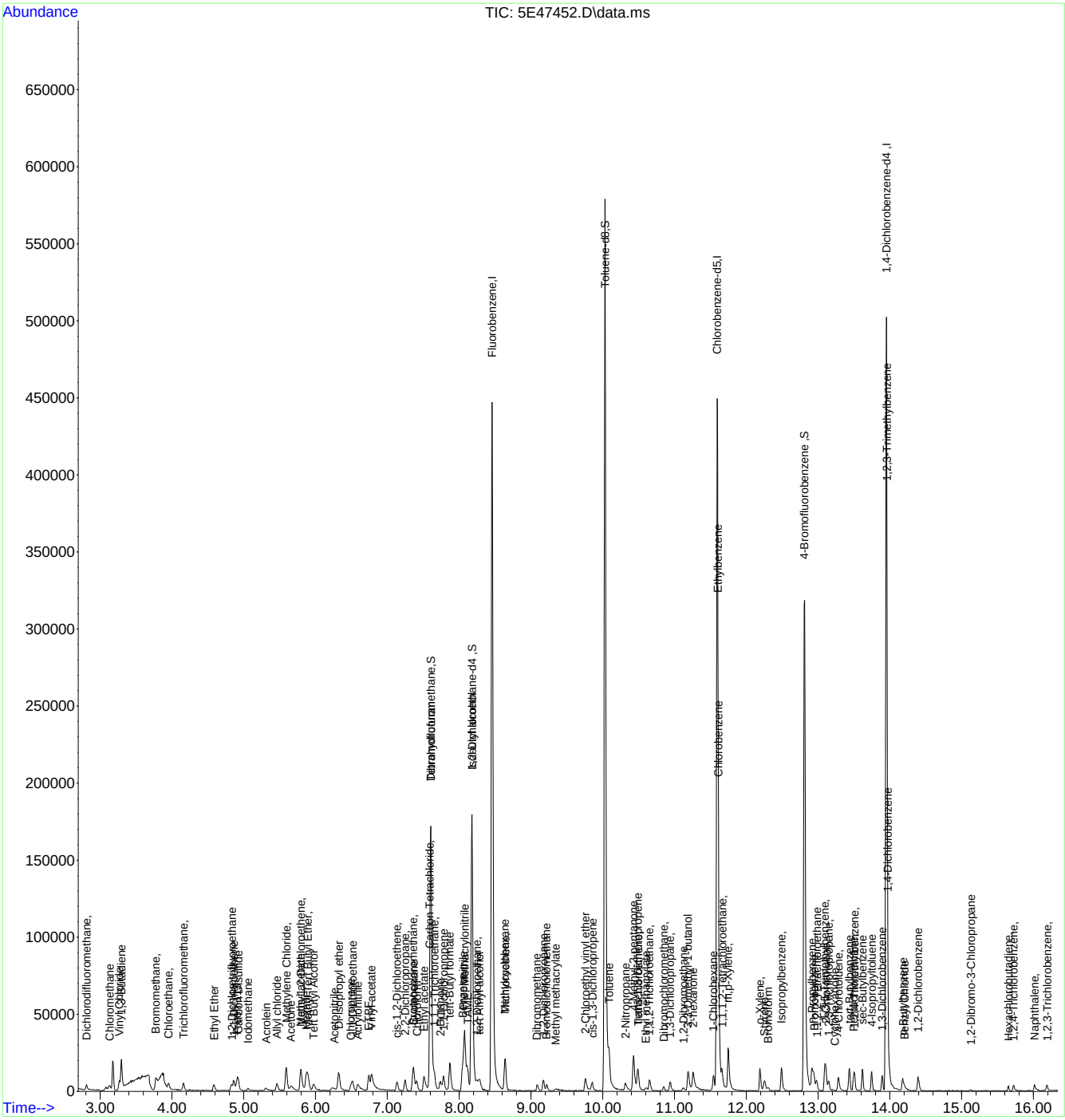
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113) 1,2,3-Trichlorobenzene	16.190	180	1886	2.18	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47452.D
Injection Time: 06/25/24 13:12

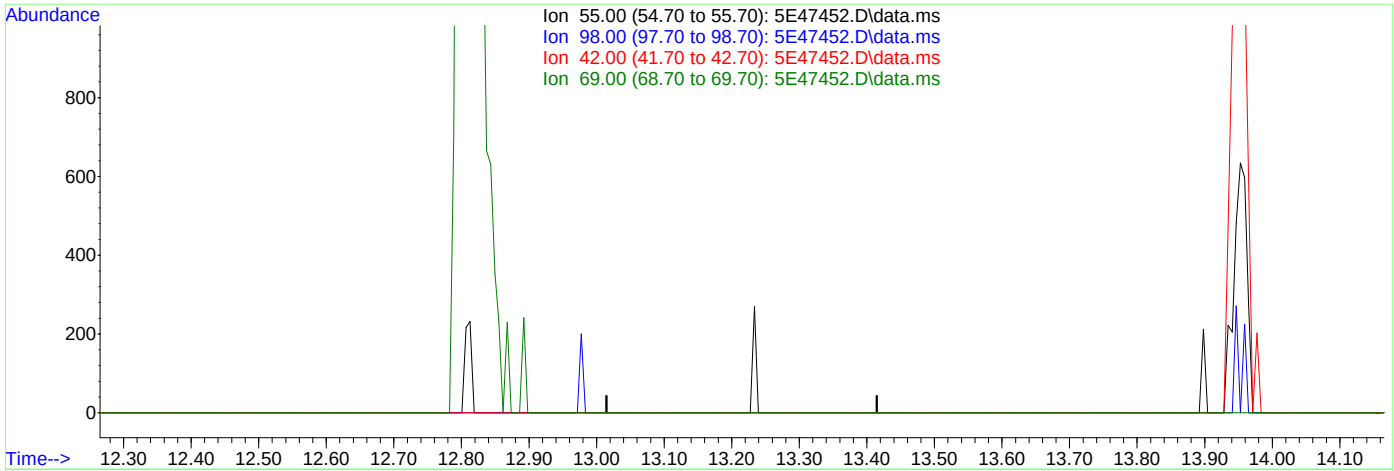
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

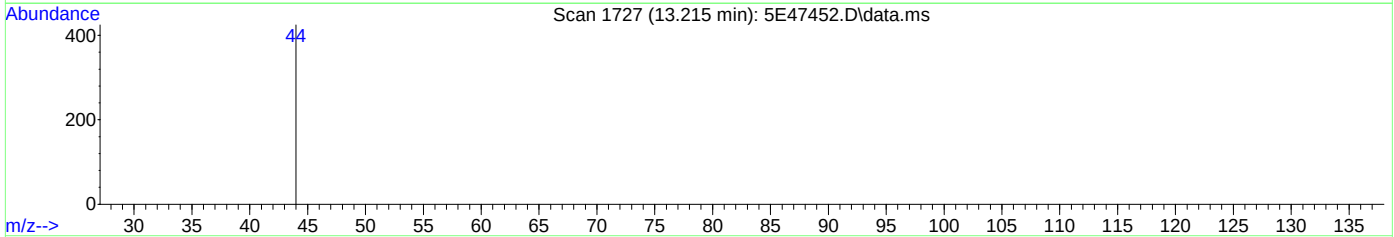
Parameter	CAS	Sig#	R.T. (min.)	Reason
Cyclohexanone	108-94-1		13.23	Missed peak
Benzyl Chloride	100-44-7		14.20	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		15.13	Missed peak

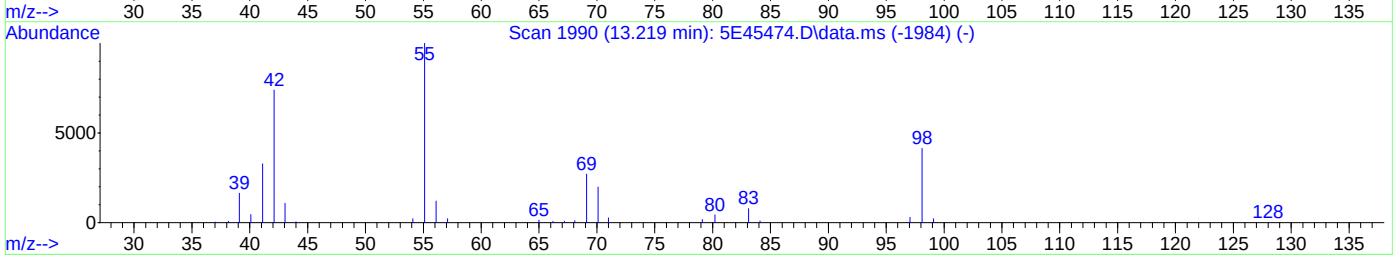
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.215min (-13.215) 0.00ug/L

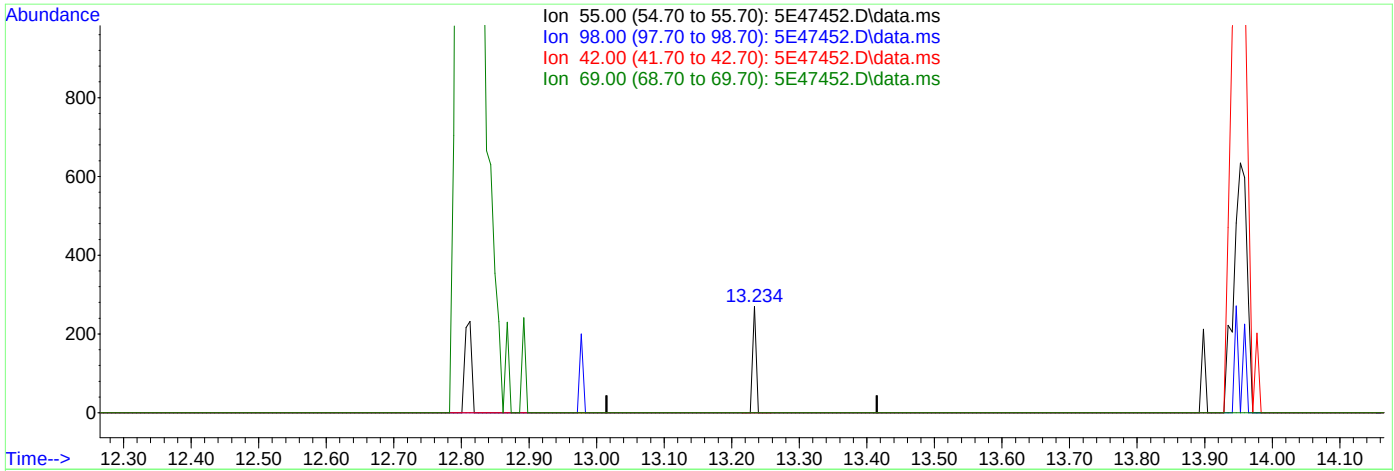
response 0

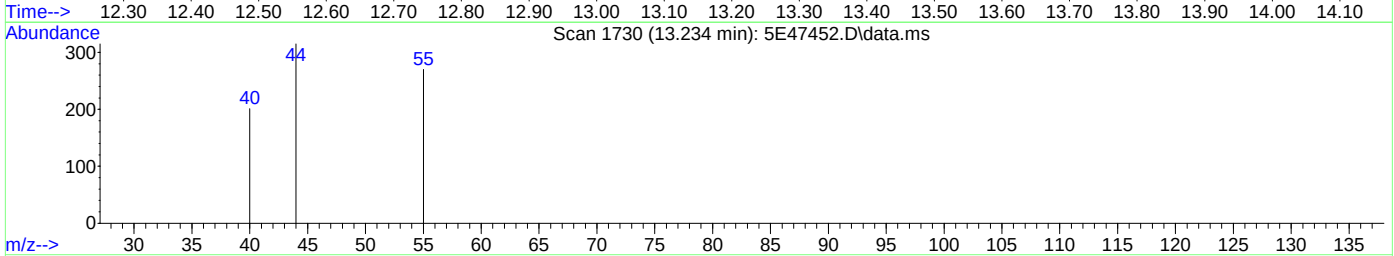
Ion	Exp%	Act%
55.00	100	0.00
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

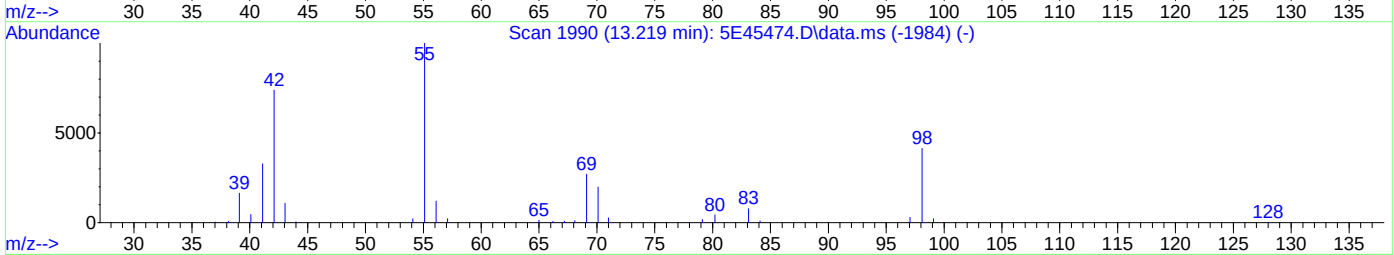
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.234min (+0.019) 2.03ug/L m

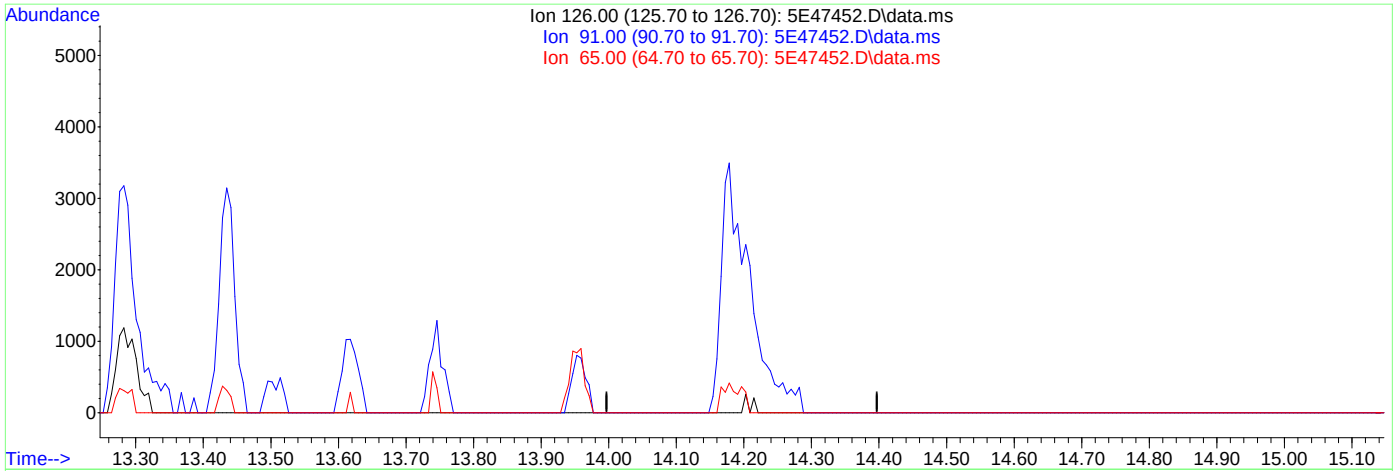
response 99

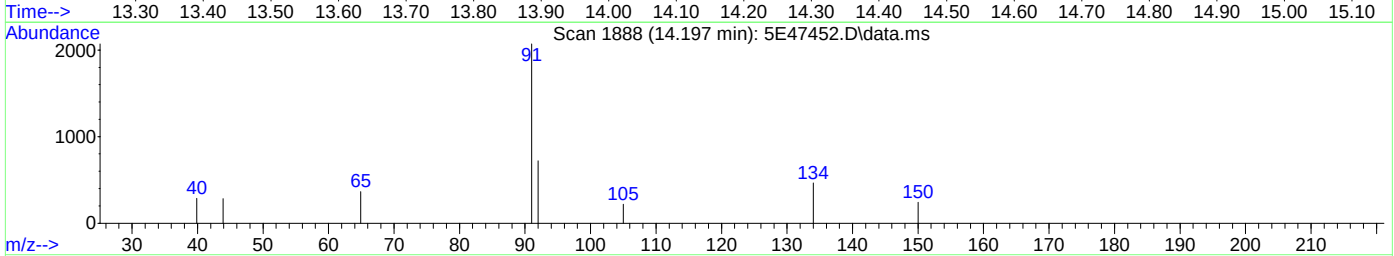
Ion	Exp%	Act%
55.00	100	100
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

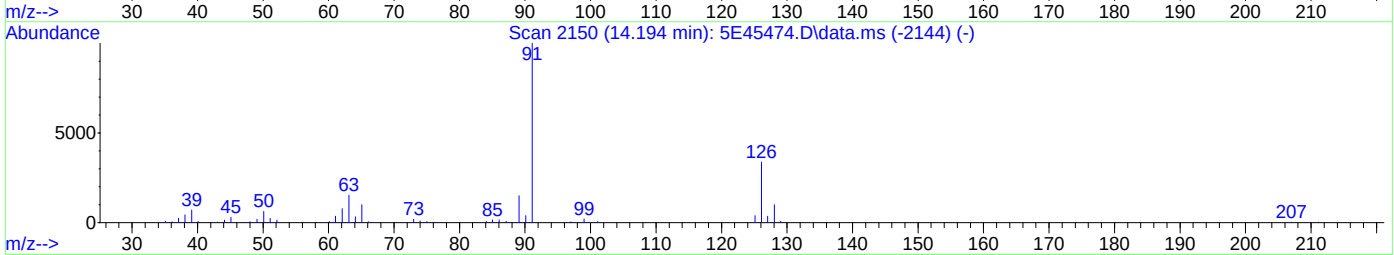
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.197min (-14.197) 0.00ug/L

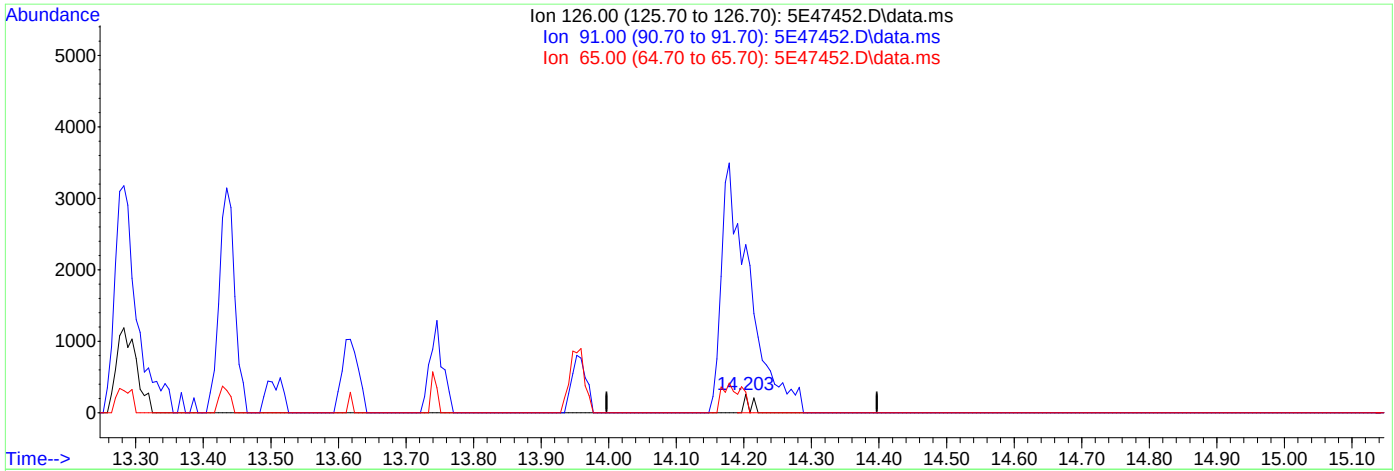
response 0

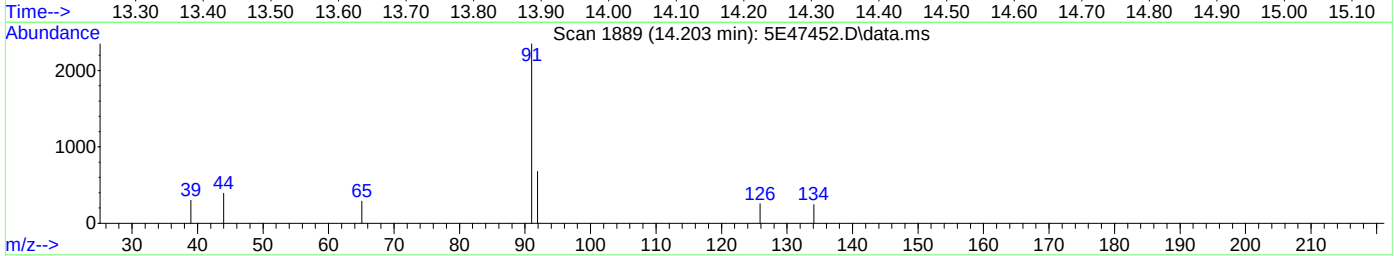
Ion	Exp%	Act%
126.00	100	0.00
91.00	487.50	0.00#
65.00	53.50	0.00#
0.00	0.00	0.00

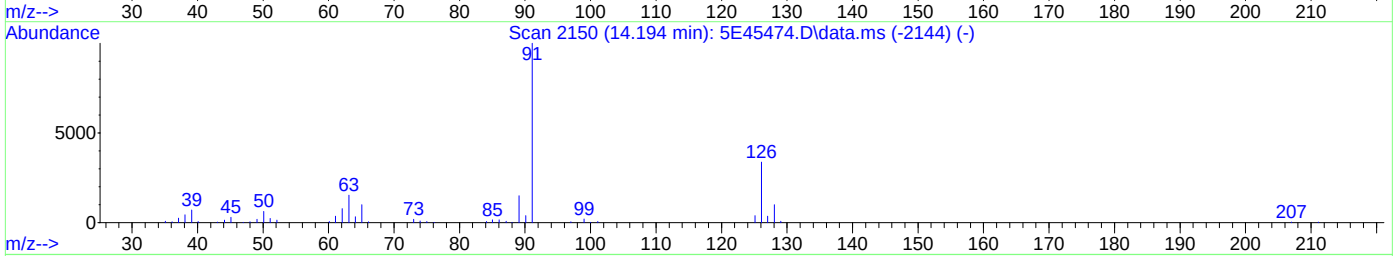
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.203min (+0.006) 0.21ug/L m

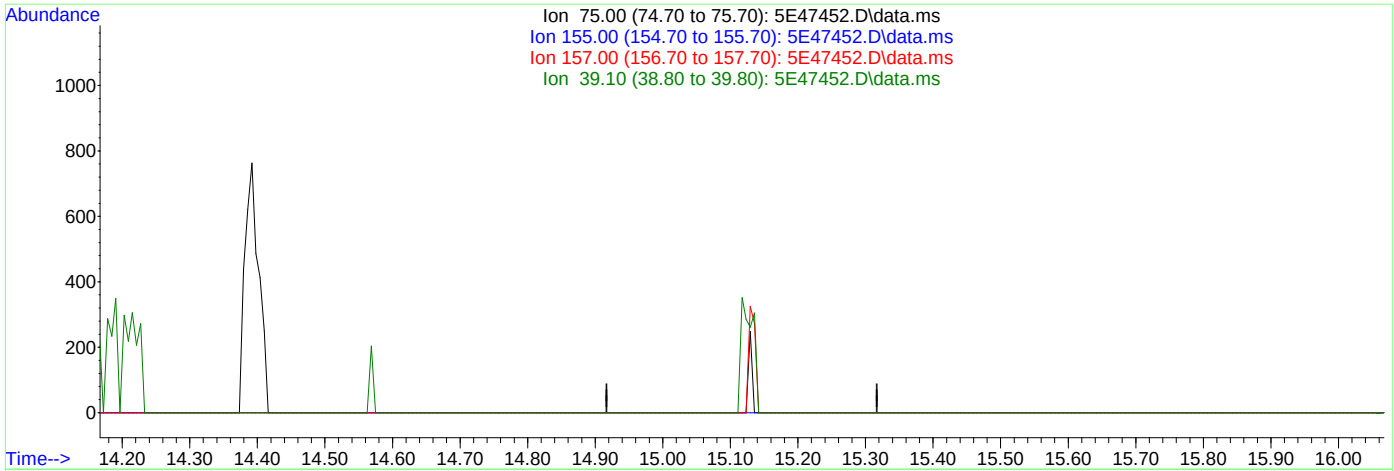
response 94

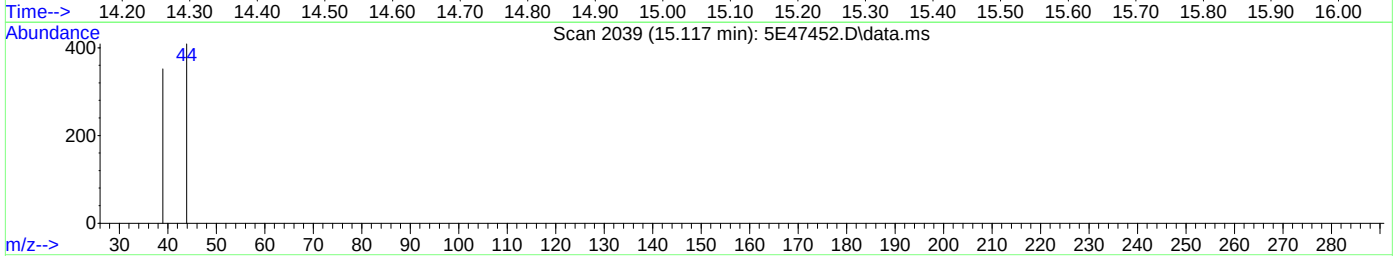
Ion	Exp%	Act%
126.00	100	100
91.00	487.50	914.40#
65.00	53.50	112.06#
0.00	0.00	0.00

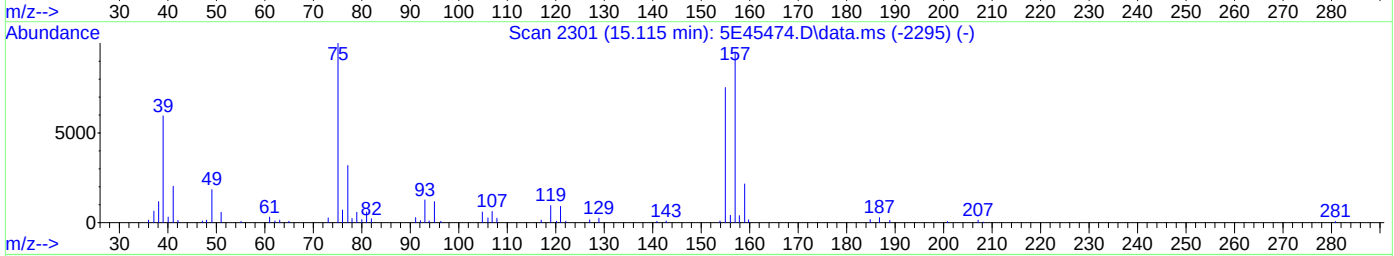
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.117min (-15.117) 0.00ug/L

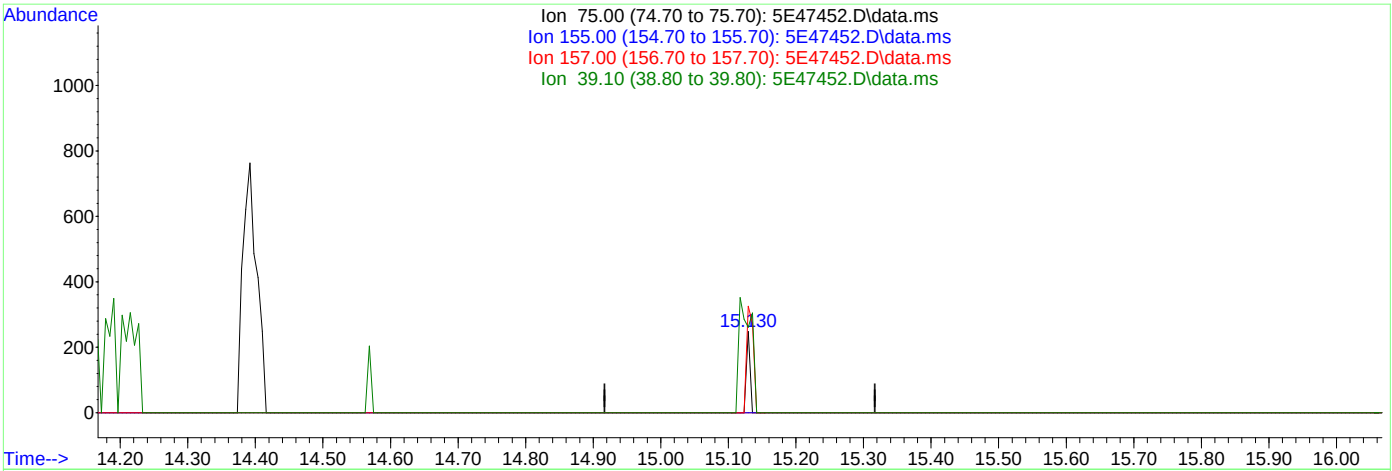
response 0

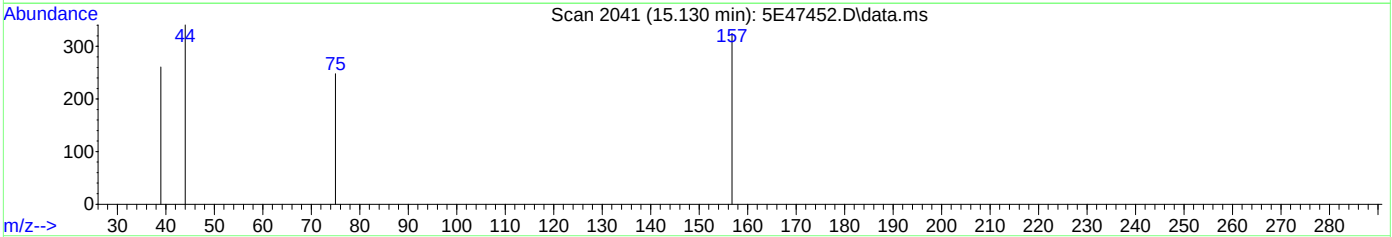
Ion	Exp%	Act%
75.00	100	0.00
155.00	105.70	0.00#
157.00	132.70	0.00#
39.10	93.90	0.00#

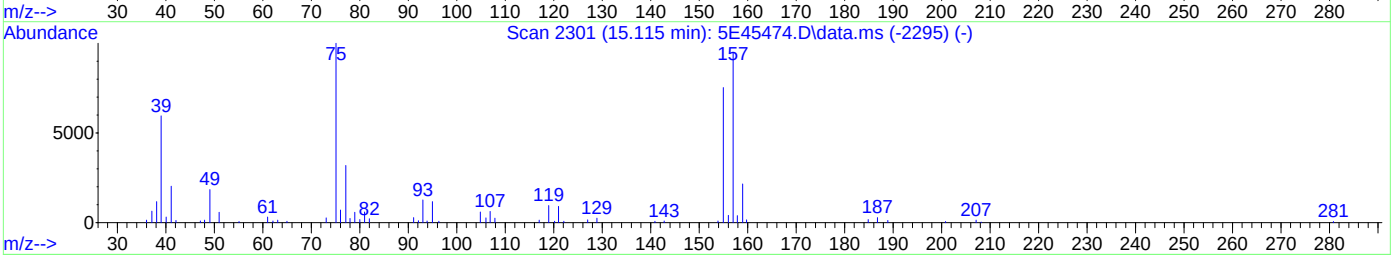
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.130min (+0.012) 0.43ug/L m

response 91

Ion	Exp%	Act%
75.00	100	100
155.00	105.70	0.00#
157.00	132.70	131.05
39.10	93.90	105.24

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	377470	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	245163	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	120377	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	96313	47.36	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.72%				
49) 1,2-Dichloroethane-d4	8.180	65	109007	50.13	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.26%				
62) Toluene-d8	10.033	98	354445	54.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.82%				
86) 4-Bromofluorobenzene	12.807	95	103322	53.87	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	5708	4.49	ug/L		95
3) Chloromethane	3.132	50	9542	5.10	ug/L		94
4) Vinyl Chloride	3.266	62	11666	5.06	ug/L		90
5) 1,3-Butadiene	3.296	39	21371	8.24	ug/L		99
6) Bromomethane	3.772	94	7185	4.16	ug/L		89
7) Chloroethane	3.949	64	7700	4.92	ug/L		94
8) Trichlorofluoromethane	4.162	101	10615	4.49	ug/L		95
9) Ethyl Ether	4.583	59	5017	4.96	ug/L		95
10) Ethanol	4.772	45	165m	11.89	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	5416	4.96	ug/L		85
12) 1,1-Dichloroethene	4.863	61	9093	4.84	ug/L		89
13) Freon 113	4.906	101	5764	4.47	ug/L		92
14) Carbon Disulfide	4.924	76	18266	4.65	ug/L		98
15) Iodomethane	5.064	142	4344	2.07	ug/L		86
16) Acrolein	5.302	56	6380	24.51	ug/L		97
17) Allyl chloride	5.461	41	12342	5.83	ug/L		93
18) Methylene Chloride	5.589	49	15003	7.12	ug/L		86
19) Acetone	5.656	43	15835	26.46	ug/L		95
20) Methyl acetate	5.784	43	32433	19.93	ug/L		94
21) trans-1,2-Dichloroethene	5.790	61	8725	3.96	ug/L		91
22) Hexane	5.875	56	5834	5.28	ug/L	#	88
23) Methyl Tert Butyl Ether	5.894	73	16666	4.67	ug/L		95
24) Acetonitrile	6.217	41	12424	52.42	ug/L		95
25) Di-isopropyl ether	6.320	45	22875	5.29	ug/L		97
26) Chloroprene	6.491	53	9102	5.39	ug/L		89
27) 1,1-Dichloroethane	6.521	63	11797	4.92	ug/L		99
28) Acrylonitrile	6.582	53	19371	30.89	ug/L		90
29) ETBE	6.741	59	17238	4.67	ug/L		96
30) Tert Butyl Alcohol	5.973	59	11383	47.21	ug/L		70
31) Vinyl acetate	6.771	43	79611	21.83	ug/L		97
32) cis-1,2-Dichloroethene	7.131	96	6751	4.69	ug/L		91
33) 2,2-Dichloropropane	7.247	77	7767	4.63	ug/L		97
34) Bromochloromethane	7.357	128	3131	4.74	ug/L		86
35) Cyclohexane	7.363	56	11206	4.99	ug/L		89
36) Chloroform	7.412	83	11025	4.74	ug/L		92
37) Ethyl acetate	7.503	43	53813	28.70	ug/L		97
38) Tetrahydrofuran	7.601	42	4806	6.84	ug/L		90
40) Carbon Tetrachloride	7.588	117	6215	4.61	ug/L		93
41) 1,1,1-Trichloroethane	7.655	97	8174	4.52	ug/L		95
42) 2-Butanone	7.735	43	25222	28.08	ug/L		99
43) 1,1-Dichloropropene	7.783	75	7671	4.47	ug/L		97
44) tert-Butyl formate	7.875	59	11807	39.99	ug/L	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	16259	61.82	ug/L		87
46) Methacrylonitrile	8.070	41	70791	60.91	ug/L		98
47) Benzene	8.046	78	26538	4.70	ug/L		96
48) TAME	8.119	73	16457	4.47	ug/L		88
50) 1,2-Dichloroethane	8.253	62	7992	4.85	ug/L		90
51) tert Amyl alcohol	8.283	59	7732	45.86	ug/L		86
52) Trichloroethene	8.643	95	6929	4.81	ug/L		96
53) Methylcyclohexane	8.637	83	10381	3.56	ug/L		95
54) Dibromomethane	9.088	93	3732	3.70	ug/L		87
55) 1,2-Dichloropropane	9.173	63	6410	5.05	ug/L		96
56) Bromodichloromethane	9.222	83	6799	3.62	ug/L		95
57) Methyl methacrylate	9.332	41	7237	4.83	ug/L	#	85
58) 1,4-Dioxane	9.411	88	1300	73.90	ug/L	#	76
59) 2-Chloroethyl vinyl ether	9.753	63	13103	23.52	ug/L		92
60) cis-1,3-Dichloropropene	9.850	75	7253	3.28	ug/L		97
63) Toluene	10.088	91	26166	5.08	ug/L		98
64) Isobutyl alcohol	8.174	43	9436m	116.20	ug/L		
65) 2-Nitropropane	10.313	41	5742	31.72	ug/L		92
66) 4-Methyl-2-pentanone	10.423	43	55295	29.64	ug/L		95
67) trans-1,3-Dichloropropene	10.490	75	6074	3.47	ug/L		94
68) Tetrachloroethene	10.490	166	6206	4.57	ug/L		97
69) Ethyl methacrylate	10.600	69	7477	4.55	ug/L		91
70) 1,1,2-Trichloroethane	10.655	83	4866	5.41	ug/L		89
71) Dibromochloromethane	10.844	129	4285	3.76	ug/L		96
72) 1,3-Dichloropropane	10.935	76	8971	5.57	ug/L		85
73) 1,2-Dibromoethane	11.118	107	4747	4.87	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.191	57	18499	292.02	ug/L		96
75) 2-hexanone	11.252	43	33711	27.09	ug/L		97
76) 1-Chlorohexane	11.545	91	7281	4.82	ug/L		88
77) Ethylbenzene	11.606	91	29965	4.99	ug/L		92
78) Chlorobenzene	11.612	112	16262	4.90	ug/L		87
79) 1,1,1,2-Tetrachloroethane	11.661	131	4309	4.44	ug/L		91
80) m,p-Xylene	11.746	91	41597	9.50	ug/L		99
81) o-Xylene	12.191	91	19764	4.80	ug/L		98
82) Styrene	12.246	104	12750	4.64	ug/L		95
83) Bromoform	12.307	173	2379	2.86	ug/L		81
84) Isopropylbenzene	12.490	105	24252	5.05	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.856	53	1207	3.05	ug/L	#	52
88) n-Propylbenzene	12.917	91	30015	5.65	ug/L		96
89) Bromobenzene	12.941	156	5599	5.44	ug/L		86
90) 1,1,2,2-Tetrachloroethane	12.977	83	7595	5.60	ug/L		91
91) 1,3,5-Trimethylbenzene	13.087	105	17700	5.23	ug/L		94
92) 2-Chlorotoluene	13.106	91	19230	5.61	ug/L		96
93) trans-1,4-Dichloro-2-B...	13.179	53	685	2.01	ug/L	#	35
94) 1,2,3-Trichloropropane	13.148	110	1799	5.40	ug/L		93
95) Cyclohexanone	13.227	55	1048	23.58	ug/L	#	86
96) 4-Chlorotoluene	13.276	91	16725	5.68	ug/L		93
98) tert-Butylbenzene	13.435	91	10999	5.89	ug/L		95
99) 1,2,4-Trimethylbenzene	13.502	105	16936	5.20	ug/L		95
100) Pentachloroethane	13.490	167	2531	5.29	ug/L		87
101) sec-Butylbenzene	13.618	105	24060	5.62	ug/L		97
102) 4-Isopropyltoluene	13.746	119	17173	5.16	ug/L		96
103) 1,3-Dichlorobenzene	13.892	146	10536	5.40	ug/L		95
104) 1,2,3-Trimethylbenzene	13.959	105	18816	5.06	ug/L		85
105) 1,4-Dichlorobenzene	13.971	146	11939	5.31	ug/L		90
106) n-Butylbenzene	14.172	92	8442	5.10	ug/L		93
107) Benzyl Chloride	14.203	126	978	2.20	ug/L	#	77
108) 1,2-Dichlorobenzene	14.392	146	8881	4.99	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

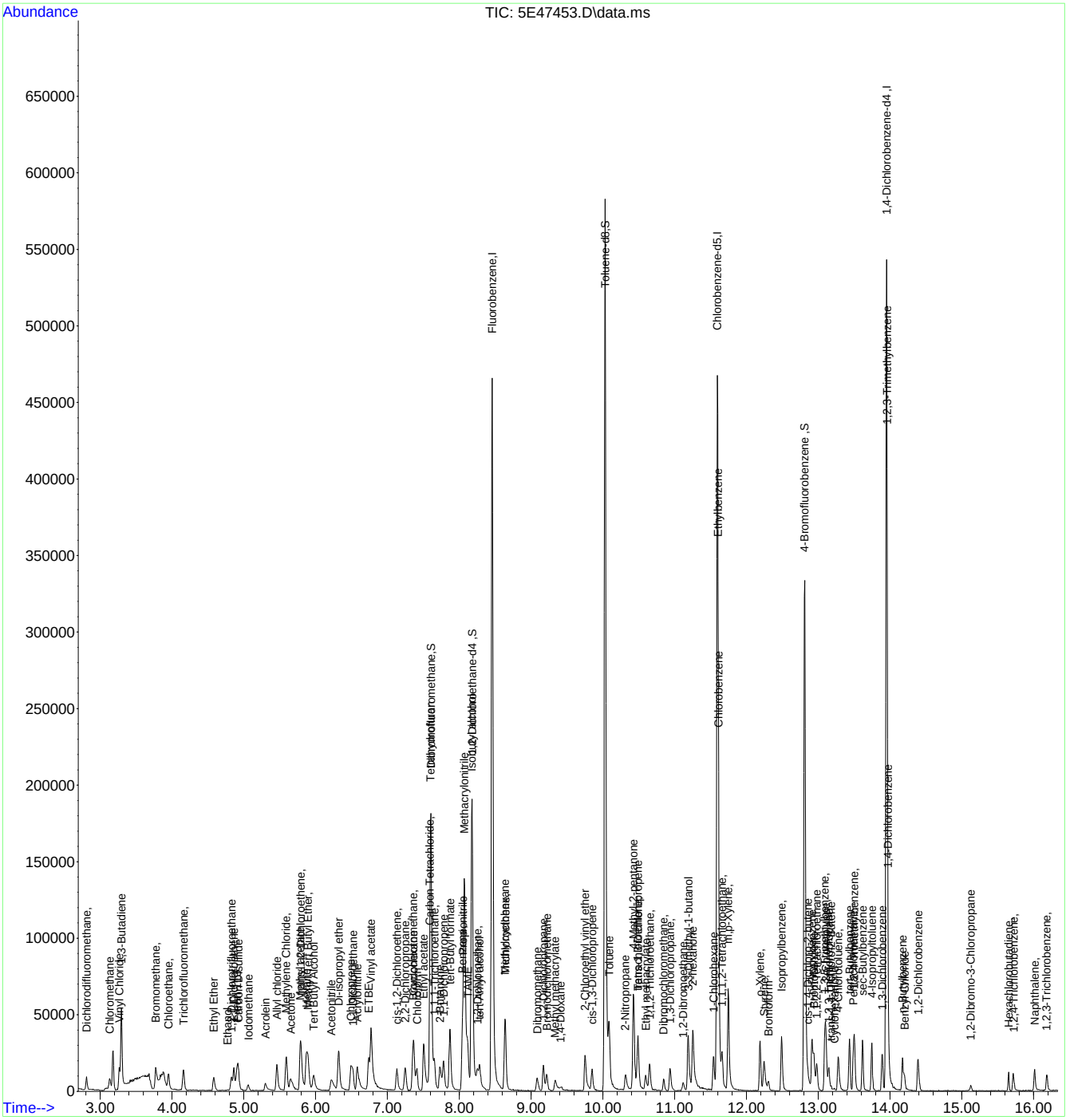
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	753	3.52	ug/L #	65
110) Hexachlorobutadiene	15.654	225	2036	5.50	ug/L	87
111) 1,2,4-Trichlorobenzene	15.721	180	4613	5.10	ug/L	92
112) Naphthalene	16.013	128	12788	5.14	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	4425	5.38	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47453.D
Injection Time: 06/25/24 13:34

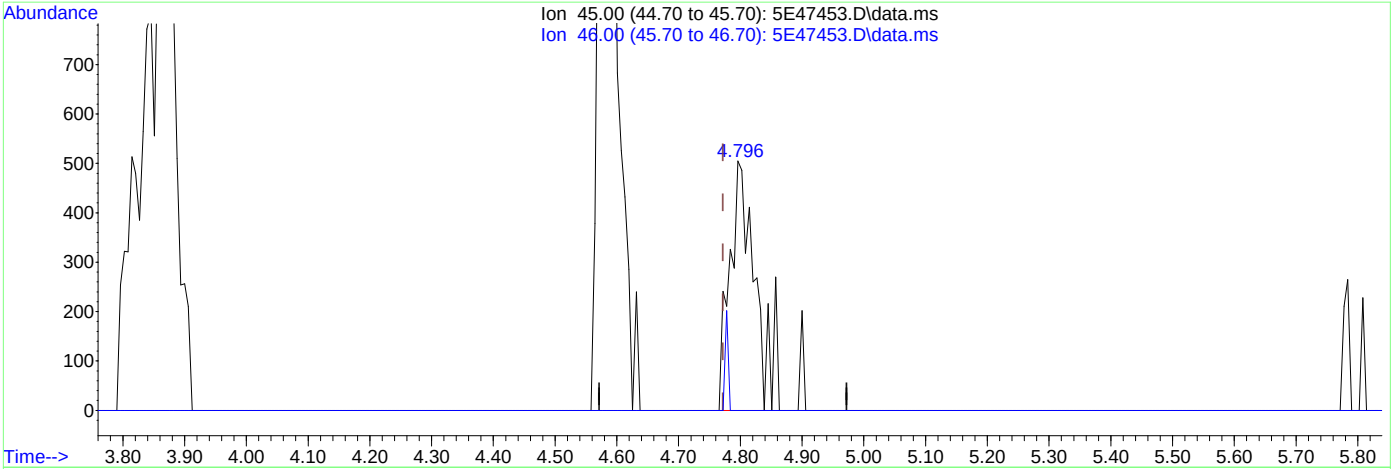
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

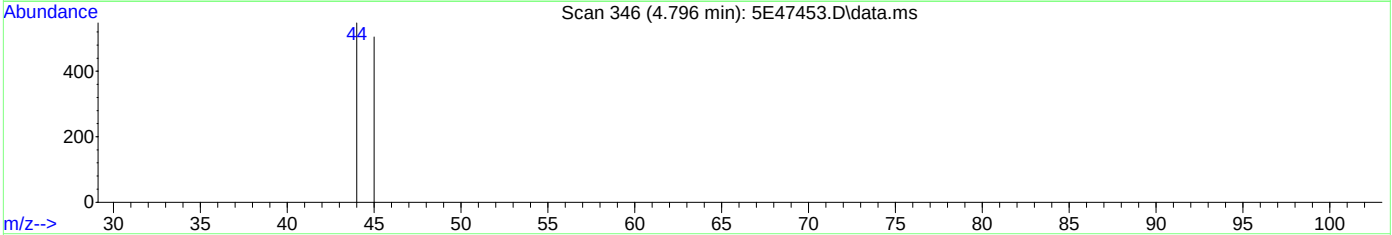
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.77	Missed peak
Isobutyl Alcohol	78-83-1		8.17	Missed peak

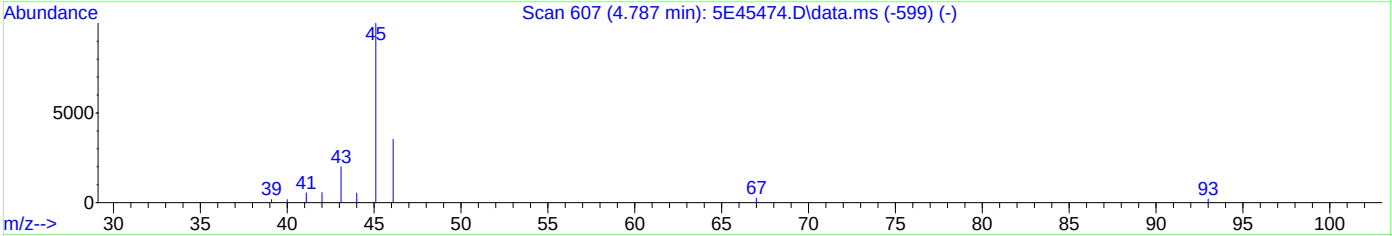
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.796min (+0.024) 90.31ug/L

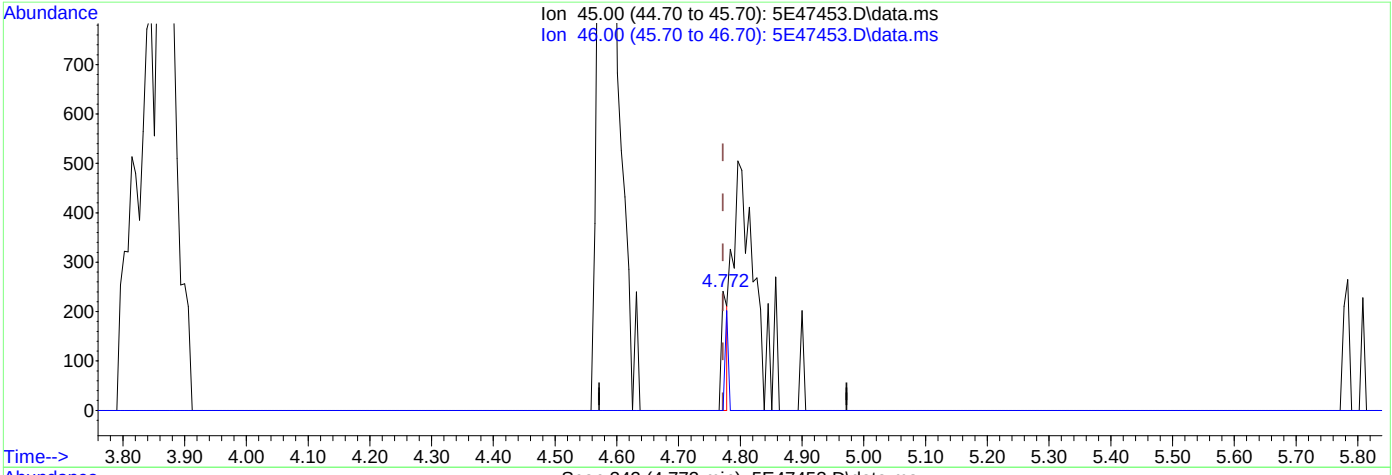
response 1287

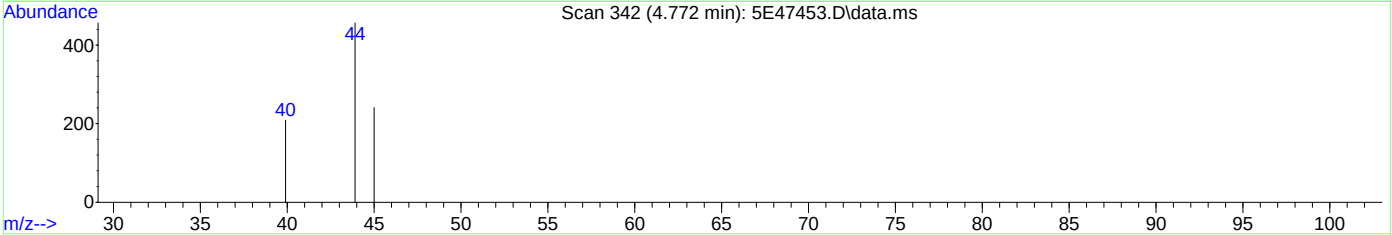
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

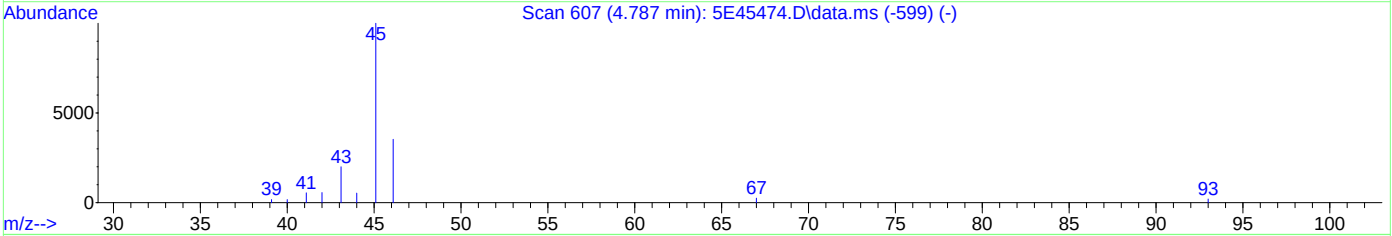
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.772min (-0.000) 11.89ug/L m

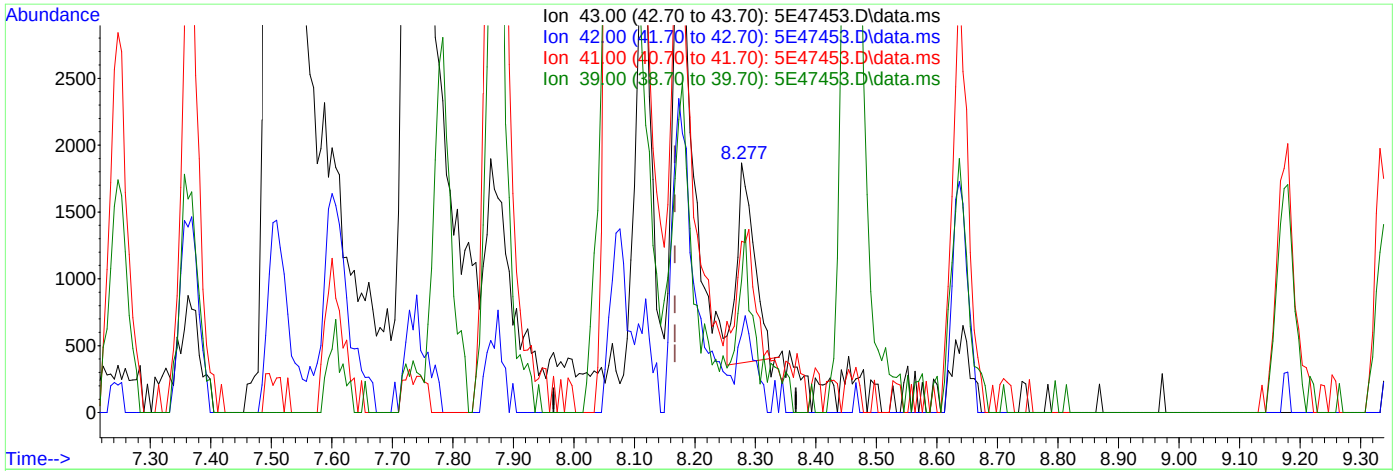
response 165

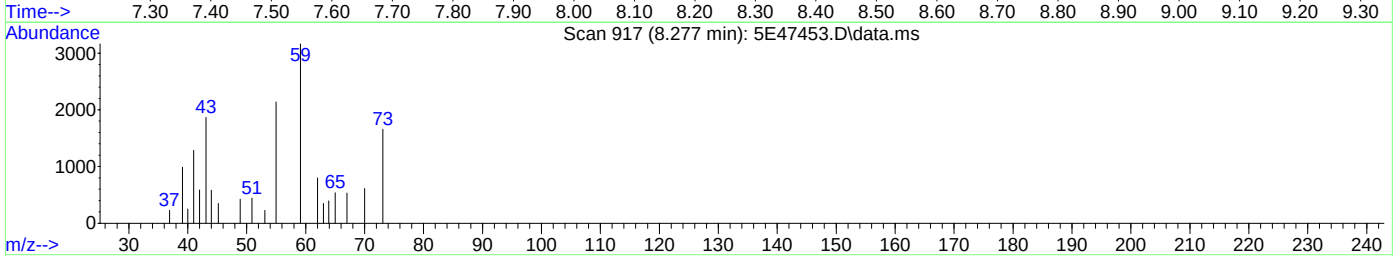
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

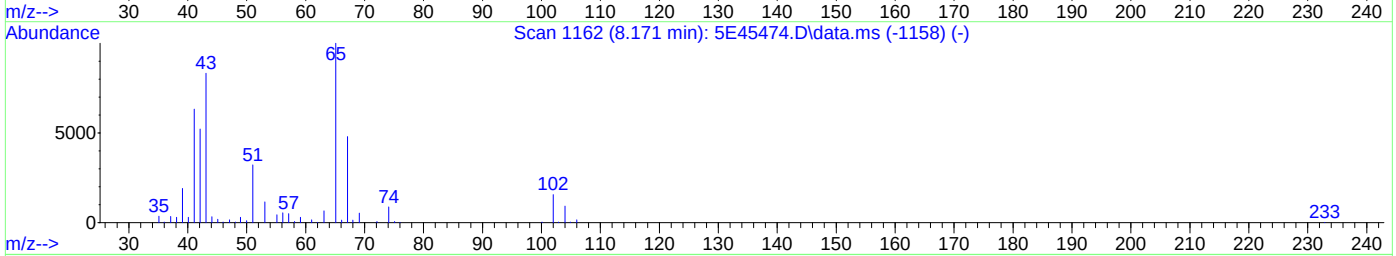
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.277min (+0.110) 35.73ug/L

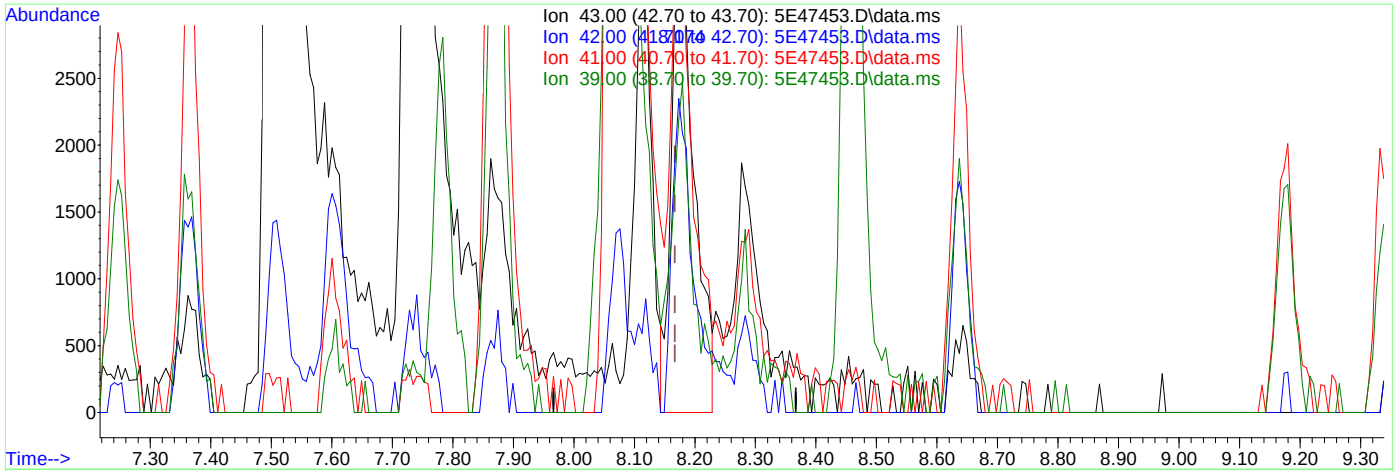
response 2901

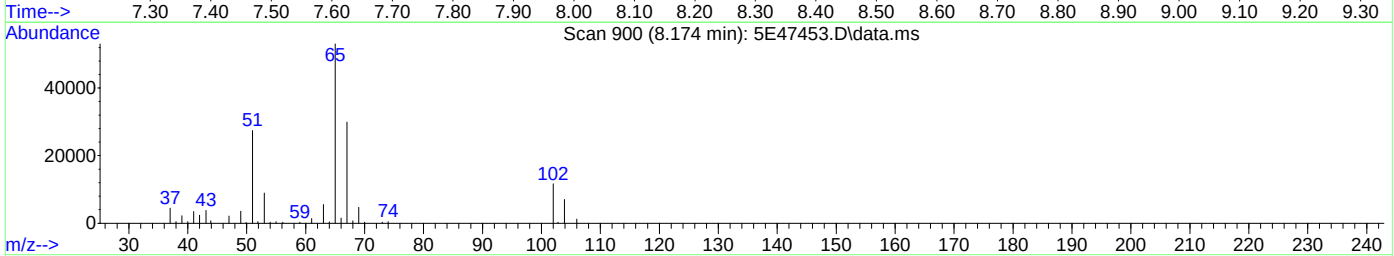
Ion	Exp%	Act%
43.00	100	100
42.00	59.60	40.26
41.00	72.00	66.69
39.00	30.20	45.63

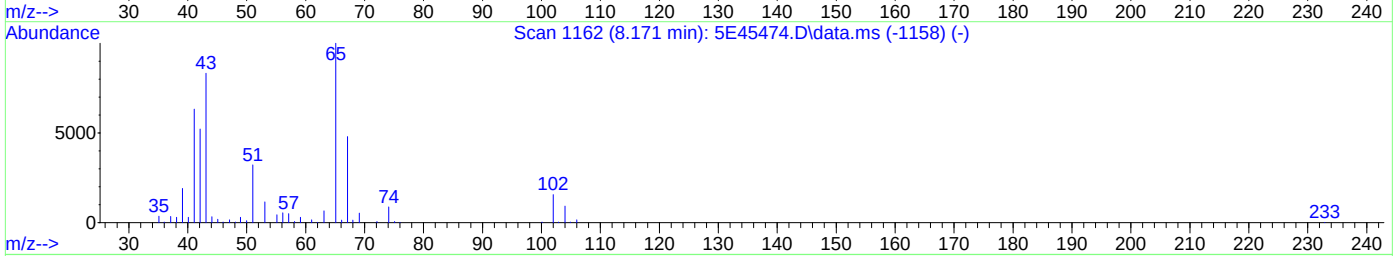
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.174min (+0.007) 116.20ug/L m

response 9436

Ion	Exp%	Act%
43.00	100	100
42.00	59.60	62.75
41.00	72.00	91.61
39.00	30.20	58.52#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	379829	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	241895	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	124924	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	97578	48.06	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.12%				
49) 1,2-Dichloroethane-d4	8.180	65	112652	51.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.36%				
62) Toluene-d8	10.033	98	355667	54.88	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.76%				
86) 4-Bromofluorobenzene	12.813	95	107132	53.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	11705	8.78	ug/L		94
3) Chloromethane	3.138	50	19195	9.43	ug/L		100
4) Vinyl Chloride	3.266	62	24199	9.68	ug/L		93
5) 1,3-Butadiene	3.297	39	37209	13.87	ug/L		94
6) Bromomethane	3.772	94	15436	8.59	ug/L		94
7) Chloroethane	3.949	64	17288	9.96	ug/L		97
8) Trichlorofluoromethane	4.162	101	21177	8.41	ug/L		99
9) Ethyl Ether	4.583	59	12210	10.97	ug/L		95
10) Ethanol	4.784	45	1275m	90.91	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	11893	9.82	ug/L		90
12) 1,1-Dichloroethene	4.863	61	20694	9.98	ug/L		93
13) Freon 113	4.906	101	14287	10.10	ug/L		91
14) Carbon Disulfide	4.924	76	39363	9.28	ug/L		94
15) Iodomethane	5.064	142	13212	6.25	ug/L		96
16) Acrolein	5.296	56	12383	44.28	ug/L		83
17) Allyl chloride	5.461	41	20883	9.26	ug/L		97
18) Methylene Chloride	5.595	49	28851	13.43	ug/L		92
19) Acetone	5.644	43	31834	48.80	ug/L		97
20) Methyl acetate	5.784	43	78174	47.24	ug/L		96
21) trans-1,2-Dichloroethene	5.796	61	20388	9.09	ug/L		97
22) Hexane	5.875	56	13075	10.58	ug/L	#	84
23) Methyl Tert Butyl Ether	5.894	73	39046	10.02	ug/L		95
24) Acetonitrile	6.217	41	24353	100.93	ug/L		99
25) Di-isopropyl ether	6.320	45	55161	11.32	ug/L		96
26) Chloroprene	6.491	53	16198	9.07	ug/L		87
27) 1,1-Dichloroethane	6.521	63	28538	10.75	ug/L		96
28) Acrylonitrile	6.576	53	31019	43.77	ug/L		94
29) ETBE	6.741	59	43087	10.65	ug/L		92
30) Tert Butyl Alcohol	5.973	59	27324	105.16	ug/L		89
31) Vinyl acetate	6.771	43	159644	42.96	ug/L		100
32) cis-1,2-Dichloroethene	7.125	96	16012	10.18	ug/L		92
33) 2,2-Dichloropropane	7.253	77	17396	9.58	ug/L		96
34) Bromochloromethane	7.351	128	7320	10.36	ug/L	#	73
35) Cyclohexane	7.369	56	25916	10.45	ug/L		92
36) Chloroform	7.412	83	25943	10.23	ug/L		94
37) Ethyl acetate	7.503	43	103526	48.69	ug/L		96
38) Tetrahydrofuran	7.601	42	10617	13.07	ug/L		80
40) Carbon Tetrachloride	7.588	117	14626	10.00	ug/L		93
41) 1,1,1-Trichloroethane	7.649	97	19725	10.02	ug/L		95
42) 2-Butanone	7.729	43	55149	56.13	ug/L		98
43) 1,1-Dichloropropene	7.783	75	18602	10.02	ug/L		95
44) tert-Butyl formate	7.875	59	31553	98.87	ug/L	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	32278	110.38	ug/L		90
46)	Methacrylonitrile	8.070	41	141465	109.75	ug/L		98
47)	Benzene	8.046	78	60515	9.76	ug/L		98
48)	TAME	8.113	73	39757	9.96	ug/L		95
50)	1,2-Dichloroethane	8.253	62	19339	10.65	ug/L		92
51)	tert Amyl alcohol	8.283	59	19707	108.39	ug/L		90
52)	Trichloroethene	8.643	95	14999	9.56	ug/L		98
53)	Methylcyclohexane	8.637	83	24377	8.24	ug/L		98
54)	Dibromomethane	9.082	93	9327	9.10	ug/L		93
55)	1,2-Dichloropropane	9.173	63	15169	10.73	ug/L		94
56)	Bromodichloromethane	9.222	83	16685	8.75	ug/L		96
57)	Methyl methacrylate	9.332	41	14788	9.69	ug/L		97
58)	1,4-Dioxane	9.417	88	3141	187.21	ug/L		96
59)	2-Chloroethyl vinyl ether	9.753	63	33010	55.20	ug/L		97
60)	cis-1,3-Dichloropropene	9.850	75	19302	8.61	ug/L		96
63)	Toluene	10.088	91	60234	10.69	ug/L		100
64)	Isobutyl alcohol	8.174	43	18482	211.37	ug/L		94
65)	2-Nitropropane	10.313	41	13158	65.81	ug/L		91
66)	4-Methyl-2-pentanone	10.423	43	109816	53.53	ug/L		94
67)	trans-1,3-Dichloropropene	10.484	75	16762	9.62	ug/L		92
68)	Tetrachloroethene	10.490	166	13965	9.58	ug/L		90
69)	Ethyl methacrylate	10.588	69	16104	9.82	ug/L		95
70)	1,1,2-Trichloroethane	10.655	83	11417	11.52	ug/L		96
71)	Dibromochloromethane	10.844	129	10265	9.04	ug/L		96
72)	1,3-Dichloropropane	10.935	76	21905	12.39	ug/L		93
73)	1,2-Dibromoethane	11.118	107	12531	11.91	ug/L		86
74)	3,3-Dimethyl-1-butanol	11.185	57	45855	626.28	ug/L		93
75)	2-hexanone	11.252	43	74293	55.16	ug/L		99
76)	1-Chlorohexane	11.539	91	17746	10.88	ug/L		90
77)	Ethylbenzene	11.606	91	65821	10.09	ug/L		95
78)	Chlorobenzene	11.612	112	37393	10.37	ug/L		92
79)	1,1,1,2-Tetrachloroethane	11.661	131	10833	10.41	ug/L		92
80)	m,p-Xylene	11.746	91	96519	20.35	ug/L		99
81)	o-Xylene	12.191	91	48072	10.79	ug/L		97
82)	Styrene	12.240	104	32311	11.01	ug/L		97
83)	Bromoform	12.307	173	5939	7.18	ug/L		96
84)	Isopropylbenzene	12.490	105	54904	10.53	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.856	53	2513	6.62	ug/L		86
88)	n-Propylbenzene	12.911	91	70594	11.36	ug/L		96
89)	Bromobenzene	12.941	156	13495	11.32	ug/L		86
90)	1,1,2,2-Tetrachloroethane	12.978	83	20094	12.76	ug/L		96
91)	1,3,5-Trimethylbenzene	13.093	105	43384	11.13	ug/L		99
92)	2-Chlorotoluene	13.106	91	45863	11.44	ug/L		96
93)	trans-1,4-Dichloro-2-B...	13.173	53	2309	6.62	ug/L	#	52
94)	1,2,3-Trichloropropane	13.142	110	4936	12.66	ug/L		93
95)	Cyclohexanone	13.221	55	2225	47.05	ug/L	#	81
96)	4-Chlorotoluene	13.276	91	38976	11.44	ug/L		99
98)	tert-Butylbenzene	13.435	91	23429	10.65	ug/L		94
99)	1,2,4-Trimethylbenzene	13.502	105	42604	11.31	ug/L		99
100)	Pentachloroethane	13.490	167	5475	10.43	ug/L	#	78
101)	sec-Butylbenzene	13.618	105	53766	10.72	ug/L		96
102)	4-Isopropyltoluene	13.746	119	41702	10.96	ug/L		97
103)	1,3-Dichlorobenzene	13.886	146	24339	10.83	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	46792	10.89	ug/L		95
105)	1,4-Dichlorobenzene	13.971	146	28517	11.04	ug/L		95
106)	n-Butylbenzene	14.172	92	21209	11.01	ug/L		95
107)	Benzyl Chloride	14.197	126	2982	6.42	ug/L	#	52
108)	1,2-Dichlorobenzene	14.392	146	23024	11.30	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

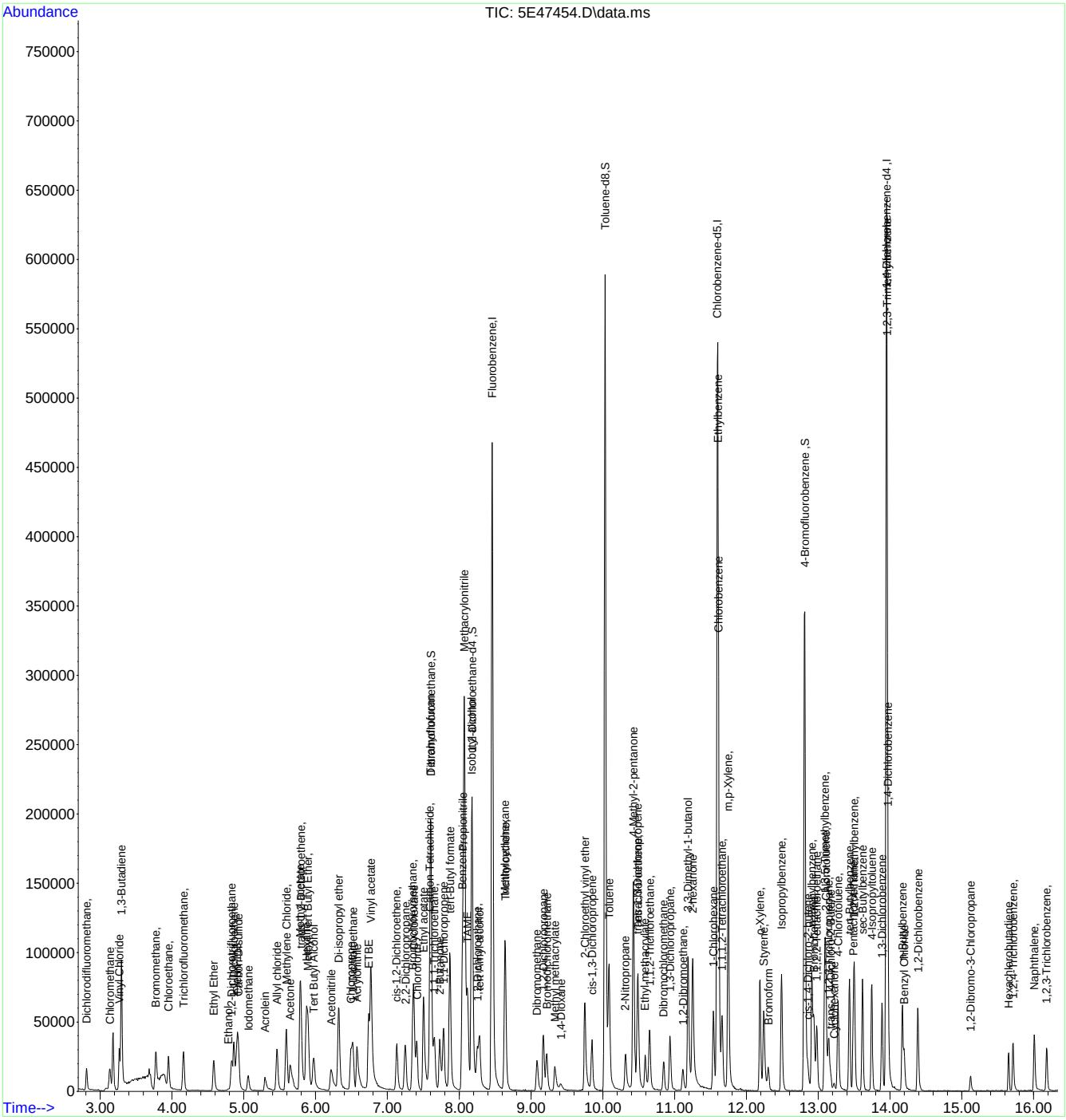
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	2106	9.38	ug/L	82
110) Hexachlorobutadiene	15.654	225	4184	9.61	ug/L	92
111) 1,2,4-Trichlorobenzene	15.715	180	11197	10.74	ug/L	97
112) Naphthalene	16.007	128	32879	11.62	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	9997	10.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47454.D
Injection Time: 06/25/24 13:57

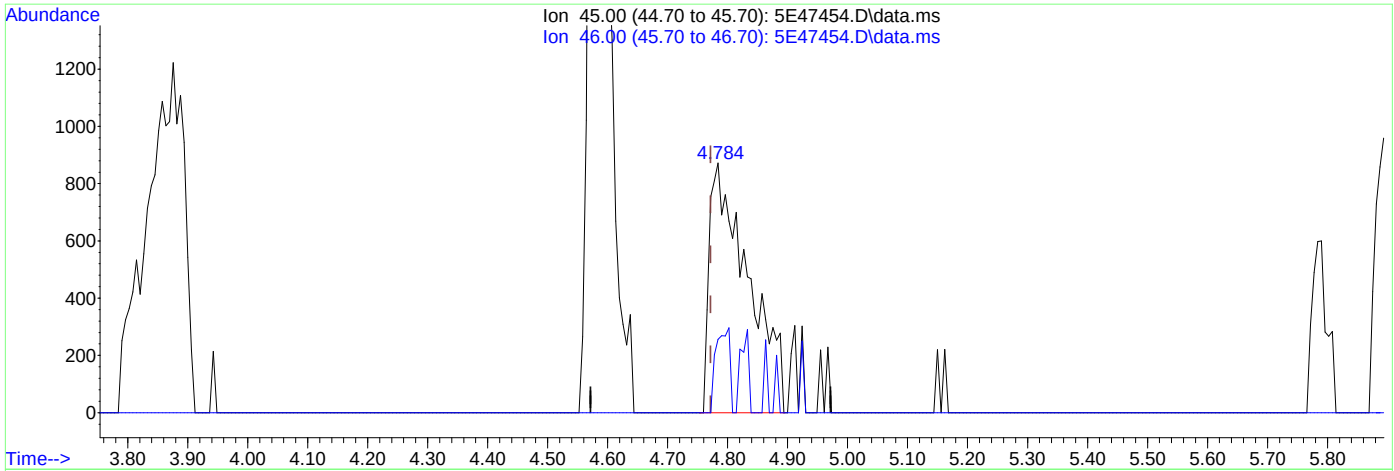
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

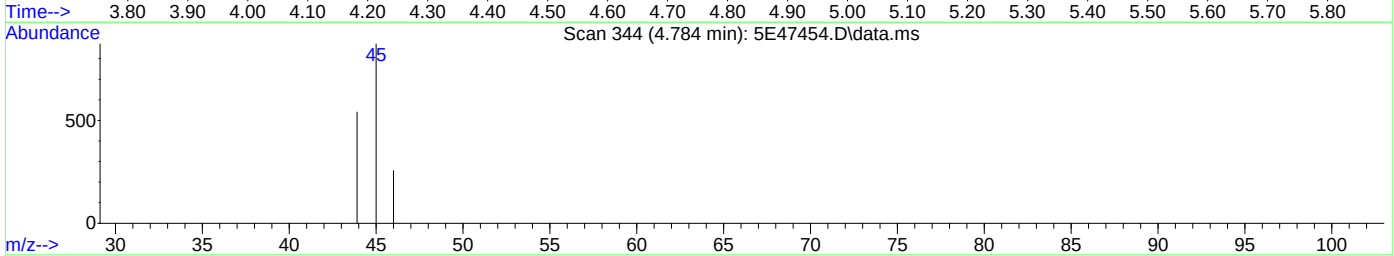
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.78	Missed peak

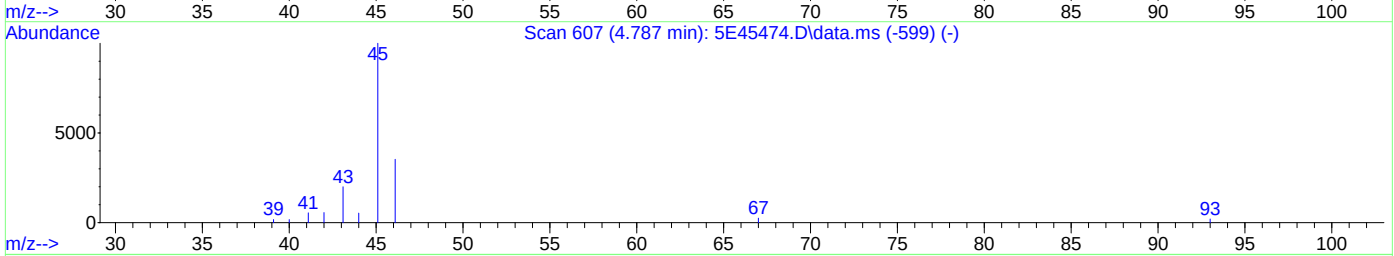
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 262.03ug/L

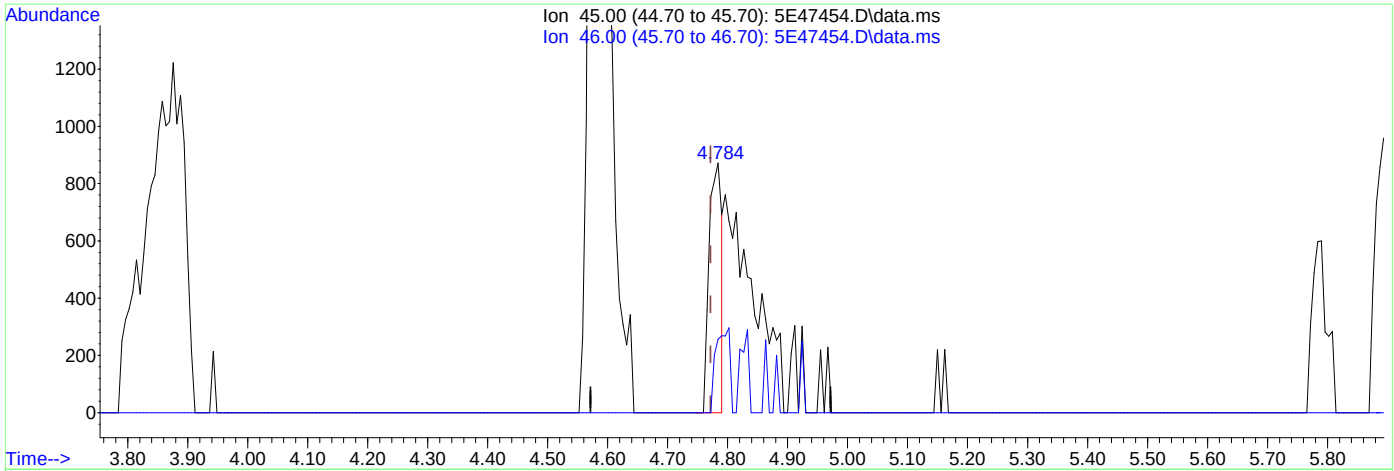
response 3896

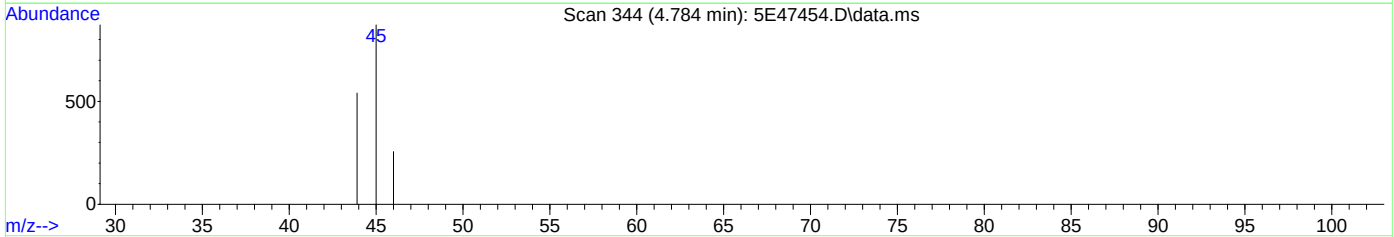
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

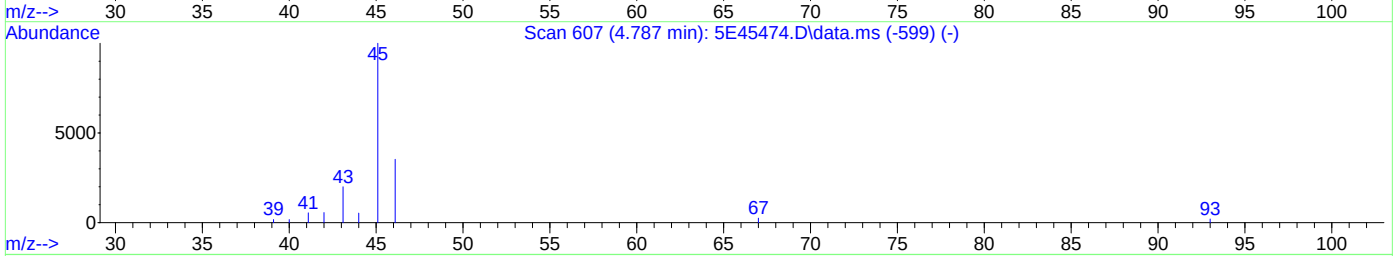
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 90.91ug/L m

response 1275

Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	401373	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	261821	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	136803	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.601	113	102756	48.14	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.28%				
49) 1,2-Dichloroethane-d4	8.180	65	124516	53.04	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.08%				
62) Toluene-d8	10.033	98	373330	52.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.52%				
86) 4-Bromofluorobenzene	12.807	95	114004	51.89	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	28935	21.14	ug/L		98
3) Chloromethane	3.132	50	46452	21.79	ug/L		97
4) Vinyl Chloride	3.266	62	58821	22.41	ug/L		100
5) 1,3-Butadiene	3.296	39	82402	29.39	ug/L		98
6) Bromomethane	3.772	94	37197	19.86	ug/L		98
7) Chloroethane	3.949	64	52286	28.46	ug/L		96
8) Trichlorofluoromethane	4.156	101	55171	21.06	ug/L		98
9) Ethyl Ether	4.583	59	28449	23.54	ug/L		98
10) Ethanol	4.772	45	11571	699.73	ug/L		97
11) 1,2-Dichlorotrifluoroe...	4.833	67	30132	23.31	ug/L		93
12) 1,1-Dichloroethene	4.863	61	48127	21.70	ug/L		97
13) Freon 113	4.900	101	33330	22.04	ug/L		93
14) Carbon Disulfide	4.924	76	91709	20.37	ug/L		97
15) Iodomethane	5.058	142	36119	16.31	ug/L		96
16) Acrolein	5.290	56	38340	132.20	ug/L		98
17) Allyl chloride	5.461	41	54119	22.79	ug/L		95
18) Methylene Chloride	5.589	49	54175	23.55	ug/L		91
19) Acetone	5.644	43	88953	128.77	ug/L		98
20) Methyl acetate	5.778	43	201586	114.36	ug/L		97
21) trans-1,2-Dichloroethene	5.790	61	47746	20.06	ug/L		96
22) Hexane	5.875	56	30253	22.78	ug/L	#	90
23) Methyl Tert Butyl Ether	5.894	73	95651	22.93	ug/L		93
24) Acetonitrile	6.211	41	65035	254.23	ug/L		96
25) Di-isopropyl ether	6.320	45	127355	23.97	ug/L		96
26) Chloroprene	6.491	53	44528	23.76	ug/L		94
27) 1,1-Dichloroethane	6.515	63	65875	23.00	ug/L		96
28) Acrylonitrile	6.570	53	97594	131.25	ug/L		96
29) ETBE	6.741	59	101826	23.30	ug/L		95
30) Tert Butyl Alcohol	5.973	59	70699	254.70	ug/L		95
31) Vinyl acetate	6.765	43	501239	127.35	ug/L		99
32) cis-1,2-Dichloroethene	7.125	96	37886	22.66	ug/L		92
33) 2,2-Dichloropropane	7.247	77	43143	22.39	ug/L		96
34) Bromochloromethane	7.351	128	16872	22.50	ug/L	#	81
35) Cyclohexane	7.363	56	62219	23.34	ug/L		93
36) Chloroform	7.405	83	63591	23.47	ug/L		98
37) Ethyl acetate	7.497	43	304269	134.09	ug/L		98
38) Tetrahydrofuran	7.601	42	22433	24.77	ug/L		86
40) Carbon Tetrachloride	7.588	117	36028	21.97	ug/L		94
41) 1,1,1-Trichloroethane	7.655	97	46562	22.12	ug/L		95
42) 2-Butanone	7.722	43	164639	158.01	ug/L		94
43) 1,1-Dichloropropene	7.777	75	45722	23.03	ug/L		95
44) tert-Butyl formate	7.869	59	85524	232.66	ug/L		86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	88740	264.82	ug/L		93
46) Methacrylonitrile	8.070	41	383620	259.36	ug/L		99
47) Benzene	8.046	78	144322	21.74	ug/L		96
48) TAME	8.113	73	100009	23.44	ug/L		89
50) 1,2-Dichloroethane	8.253	62	46593	23.76	ug/L		94
51) tert Amyl alcohol	8.283	59	51992	265.73	ug/L		94
52) Trichloroethene	8.637	95	35731	21.38	ug/L		92
53) Methylcyclohexane	8.637	83	58415	18.63	ug/L		94
54) Dibromomethane	9.082	93	22429	20.69	ug/L		91
55) 1,2-Dichloropropane	9.173	63	36281	23.82	ug/L		99
56) Bromodichloromethane	9.216	83	40704	20.14	ug/L		99
57) Methyl methacrylate	9.326	41	39604	24.49	ug/L		90
58) 1,4-Dioxane	9.417	88	9242	497.54	ug/L		88
59) 2-Chloroethyl vinyl ether	9.746	63	88253	137.03	ug/L		94
60) cis-1,3-Dichloropropene	9.844	75	48632	20.45	ug/L		97
63) Toluene	10.088	91	138665	22.28	ug/L		98
64) Isobutyl alcohol	8.174	43	55959	580.19	ug/L		94
65) 2-Nitropropane	10.313	41	38815	158.39	ug/L		98
66) 4-Methyl-2-pentanone	10.423	43	332968	148.23	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	43541	22.92	ug/L		93
68) Tetrachloroethene	10.484	166	35579	22.53	ug/L		95
69) Ethyl methacrylate	10.588	69	45271	25.48	ug/L		95
70) 1,1,2-Trichloroethane	10.649	83	28358	25.92	ug/L		97
71) Dibromochloromethane	10.844	129	27738	22.47	ug/L		99
72) 1,3-Dichloropropane	10.935	76	52225	26.37	ug/L		95
73) 1,2-Dibromoethane	11.112	107	31270	26.83	ug/L		93
74) 3,3-Dimethyl-1-butanol	11.185	57	156635	1556.32	ug/L		97
75) 2-hexanone	11.246	43	232836	157.96	ug/L		96
76) 1-Chlorohexane	11.539	91	45239	25.20	ug/L		92
77) Ethylbenzene	11.606	91	163735	22.74	ug/L		97
78) Chlorobenzene	11.612	112	93797	23.63	ug/L		92
79) 1,1,1,2-Tetrachloroethane	11.661	131	27846	24.32	ug/L		90
80) m,p-Xylene	11.746	91	237154	45.35	ug/L		99
81) o-Xylene	12.185	91	116904	23.80	ug/L		100
82) Styrene	12.240	104	83685	25.97	ug/L		95
83) Bromoform	12.301	173	17901	19.95	ug/L		93
84) Isopropylbenzene	12.490	105	133987	23.38	ug/L		96
87) cis-1,4-Dichloro-2-butene	12.849	53	8439	21.19	ug/L	#	87
88) n-Propylbenzene	12.910	91	169454	24.23	ug/L		99
89) Bromobenzene	12.941	156	32991	24.70	ug/L		89
90) 1,1,2,2-Tetrachloroethane	12.977	83	48578	26.95	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	105541	24.09	ug/L		97
92) 2-Chlorotoluene	13.106	91	108721	23.98	ug/L		98
93) trans-1,4-Dichloro-2-B...	13.160	53	8723	22.98	ug/L	#	73
94) 1,2,3-Trichloropropane	13.142	110	12160	27.51	ug/L		93
95) Cyclohexanone	13.221	55	7176	141.92	ug/L		91
96) 4-Chlorotoluene	13.276	91	94673	24.57	ug/L		97
98) tert-Butylbenzene	13.435	91	59051	23.99	ug/L		92
99) 1,2,4-Trimethylbenzene	13.502	105	105137	24.80	ug/L		99
100) Pentachloroethane	13.490	167	15683	27.10	ug/L		94
101) sec-Butylbenzene	13.618	105	132915	23.70	ug/L		99
102) 4-Isopropyltoluene	13.746	119	103155	24.26	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	59573	23.73	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	116624	24.21	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	69710	24.08	ug/L		97
106) n-Butylbenzene	14.166	92	55833	25.89	ug/L		99
107) Benzyl Chloride	14.197	126	10555	20.77	ug/L		94
108) 1,2-Dichlorobenzene	14.386	146	56380	24.81	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

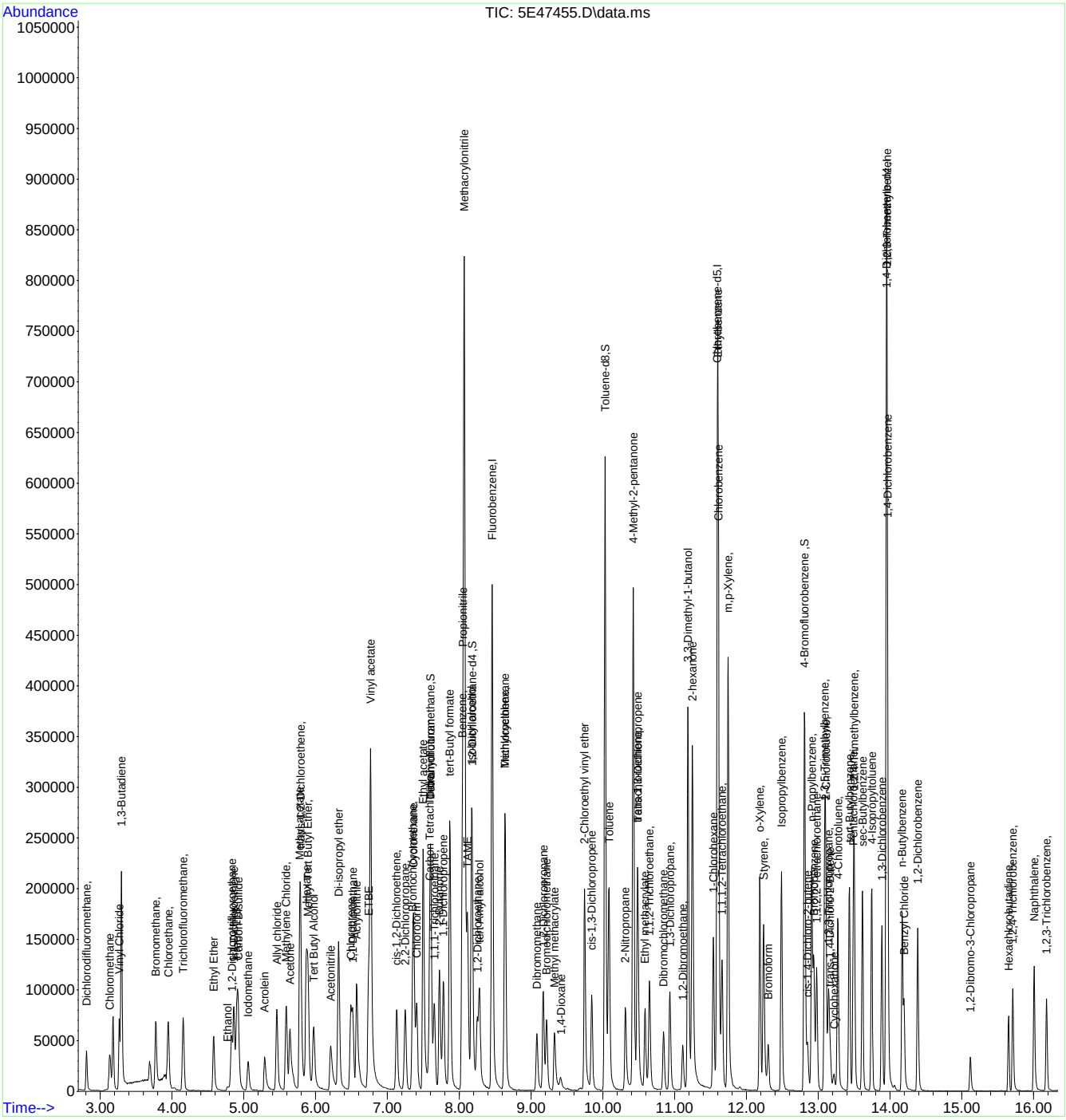
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6202	25.01	ug/L	90
110) Hexachlorobutadiene	15.654	225	10884	22.82	ug/L	91
111) 1,2,4-Trichlorobenzene	15.709	180	28091	24.28	ug/L	90
112) Naphthalene	16.007	128	86540	27.42	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	25611	24.59	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	422604	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	286059	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	149134	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	109528	48.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.48%			
49) 1,2-Dichloroethane-d4	8.180	65	128218	51.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.74%			
62) Toluene-d8	10.033	98	392942	50.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.66%			
86) 4-Bromofluorobenzene	12.807	95	121723	50.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	53380	37.05	ug/L	97
3) Chloromethane	3.132	50	79991	35.64	ug/L	99
4) Vinyl Chloride	3.266	62	104212	37.71	ug/L	97
5) 1,3-Butadiene	3.296	39	136914	48.44	ug/L	97
6) Bromomethane	3.772	94	67930	34.45	ug/L	97
7) Chloroethane	3.949	64	72073	37.26	ug/L	97
8) Trichlorofluoromethane	4.150	101	104194	37.78	ug/L	100
9) Ethyl Ether	4.583	59	51150	40.20	ug/L	97
10) Ethanol	4.772	45	20641	1041.81	ug/L	94
11) 1,2-Dichlorotrifluoroe...	4.827	67	54486	40.04	ug/L	95
12) 1,1-Dichloroethene	4.857	61	91299	39.10	ug/L	91
13) Freon 113	4.906	101	62115	39.02	ug/L	95
14) Carbon Disulfide	4.918	76	169823	35.82	ug/L	94
15) Iodomethane	5.058	142	66148	28.36	ug/L	94
16) Acrolein	5.290	56	68702	224.99	ug/L	100
17) Allyl chloride	5.461	41	97318	38.92	ug/L	98
18) Methylene Chloride	5.589	49	93207	38.48	ug/L	91
19) Acetone	5.643	43	142592	196.06	ug/L	99
20) Methyl acetate	5.778	43	355115	191.34	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	88863	35.45	ug/L	98
22) Hexane	5.869	56	57426	41.07	ug/L	92
23) Methyl Tert Butyl Ether	5.893	73	173600	39.52	ug/L	98
24) Acetonitrile	6.210	41	110420	409.96	ug/L	97
25) Di-isopropyl ether	6.320	45	225458	40.30	ug/L	97
26) Chloroprene	6.491	53	81838	41.47	ug/L	92
27) 1,1-Dichloroethane	6.515	63	118352	39.24	ug/L	99
28) Acrylonitrile	6.570	53	172270	220.04	ug/L	98
29) ETBE	6.741	59	186400	40.52	ug/L	96
30) Tert Butyl Alcohol	5.973	59	123917	424.00	ug/L	95
31) Vinyl acetate	6.765	43	920471	222.12	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	67187	38.16	ug/L	91
33) 2,2-Dichloropropane	7.247	77	79793	39.33	ug/L	99
34) Bromochloromethane	7.350	128	29766	37.69	ug/L	89
35) Cyclohexane	7.363	56	118104	42.07	ug/L	95
36) Chloroform	7.405	83	113009	39.62	ug/L	97
37) Ethyl acetate	7.497	43	537807	225.10	ug/L	98
38) Tetrahydrofuran	7.594	42	37527	39.35	ug/L	93
40) Carbon Tetrachloride	7.582	117	70066	38.18	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	85976	38.79	ug/L	98
42) 2-Butanone	7.722	43	260485	237.43	ug/L	95
43) 1,1-Dichloropropene	7.777	75	85373	40.83	ug/L	96
44) tert-Butyl formate	7.869	59	165624	390.55	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	155752	414.59	ug/L		99
46)	Methacrylonitrile	8.070	41	709301	426.30	ug/L		99
47)	Benzene	8.045	78	266557	38.14	ug/L		96
48)	TAME	8.112	73	181128	40.32	ug/L		95
50)	1,2-Dichloroethane	8.247	62	84206	40.78	ug/L		95
51)	tert Amyl alcohol	8.283	59	94038	456.48	ug/L		95
52)	Trichloroethene	8.637	95	65552	37.26	ug/L		97
53)	Methylcyclohexane	8.637	83	116515	35.30	ug/L		95
54)	Dibromomethane	9.082	93	40681	35.64	ug/L		91
55)	1,2-Dichloropropane	9.173	63	65204	40.65	ug/L		94
56)	Bromodichloromethane	9.216	83	75148	35.32	ug/L		98
57)	Methyl methacrylate	9.326	41	68864	40.44	ug/L		93
58)	1,4-Dioxane	9.411	88	17751	839.73	ug/L		94
59)	2-Chloroethyl vinyl ether	9.746	63	150909	222.54	ug/L		96
60)	cis-1,3-Dichloropropene	9.844	75	90139	36.01	ug/L		98
63)	Toluene	10.088	91	251915	37.05	ug/L		97
64)	Isobutyl alcohol	8.173	43	101798	966.03	ug/L		96
65)	2-Nitropropane	10.313	41	75897	266.53	ug/L		99
66)	4-Methyl-2-pentanone	10.423	43	534603	217.83	ug/L		97
67)	trans-1,3-Dichloropropene	10.484	75	83115	40.05	ug/L		94
68)	Tetrachloroethene	10.490	166	67186	38.94	ug/L		97
69)	Ethyl methacrylate	10.588	69	83934	43.24	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	50765	42.46	ug/L		97
71)	Dibromochloromethane	10.844	129	52405	38.85	ug/L		92
72)	1,3-Dichloropropane	10.935	76	92971	42.97	ug/L		96
73)	1,2-Dibromoethane	11.112	107	56418	44.30	ug/L		98
74)	3,3-Dimethyl-1-butanol	11.185	57	310140	2430.75	ug/L		95
75)	2-hexanone	11.246	43	382641	237.60	ug/L		97
76)	1-Chlorohexane	11.539	91	87414	44.57	ug/L		91
77)	Ethylbenzene	11.606	91	302357	38.44	ug/L		97
78)	Chlorobenzene	11.612	112	169426	39.06	ug/L		93
79)	1,1,1,2-Tetrachloroethane	11.661	131	52260	41.78	ug/L		98
80)	m,p-Xylene	11.746	91	450477	78.85	ug/L		98
81)	o-Xylene	12.185	91	212028	39.52	ug/L		100
82)	Styrene	12.240	104	152871	43.42	ug/L		98
83)	Bromoform	12.301	173	35158	35.87	ug/L		93
84)	Isopropylbenzene	12.490	105	251967	40.25	ug/L		97
87)	cis-1,4-Dichloro-2-butene	12.849	53	16268	37.47	ug/L		91
88)	n-Propylbenzene	12.910	91	319180	41.86	ug/L		100
89)	Bromobenzene	12.941	156	59709	41.01	ug/L		89
90)	1,1,2,2-Tetrachloroethane	12.977	83	88587	45.09	ug/L		96
91)	1,3,5-Trimethylbenzene	13.087	105	203846	42.67	ug/L		96
92)	2-Chlorotoluene	13.105	91	206408	41.75	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.160	53	16641	40.21	ug/L		93
94)	1,2,3-Trichloropropane	13.142	110	21733	45.10	ug/L		91
95)	Cyclohexanone	13.215	55	14244	258.40	ug/L		92
96)	4-Chlorotoluene	13.270	91	175140	41.70	ug/L		96
98)	tert-Butylbenzene	13.435	91	112031	41.75	ug/L		95
99)	1,2,4-Trimethylbenzene	13.502	105	196260	42.47	ug/L		99
100)	Pentachloroethane	13.489	167	31879	50.53	ug/L		97
101)	sec-Butylbenzene	13.617	105	257989	42.20	ug/L		98
102)	4-Isopropyltoluene	13.746	119	202363	43.66	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	111307	40.67	ug/L		99
104)	1,2,3-Trimethylbenzene	13.959	105	224865	42.81	ug/L		100
105)	1,4-Dichlorobenzene	13.965	146	129420	41.02	ug/L		98
106)	n-Butylbenzene	14.166	92	111240	47.31	ug/L		99
107)	Benzyl Chloride	14.197	126	20566	37.12	ug/L	#	69
108)	1,2-Dichlorobenzene	14.386	146	104587	42.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

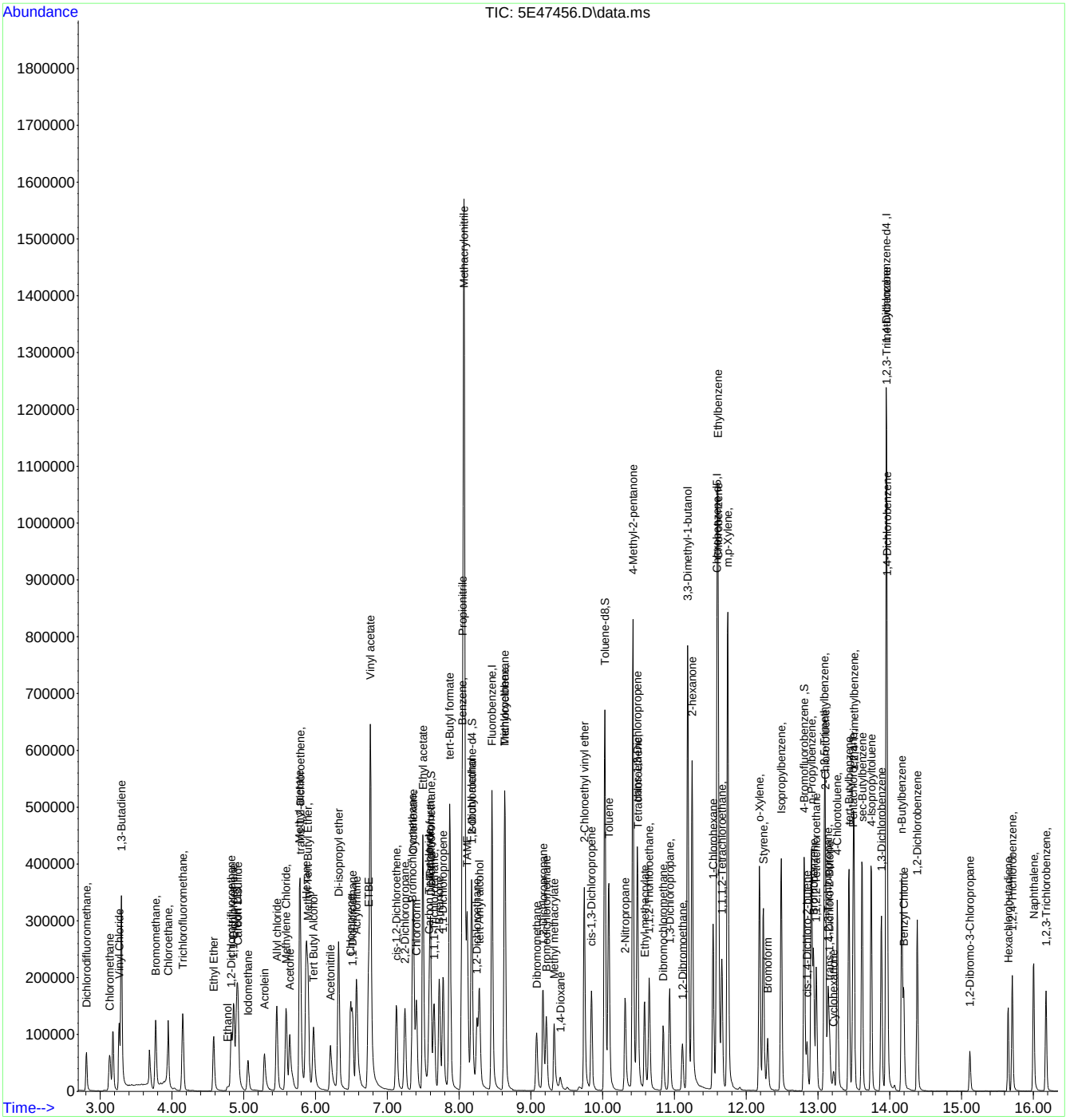
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11787	43.61	ug/L	86
110) Hexachlorobutadiene	15.654	225	20287	39.02	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	55154	43.73	ug/L	100
112) Naphthalene	16.007	128	161318	46.88	ug/L	98
113) 1,2,3-Trichlorobenzene	16.178	180	48397	42.63	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	438665	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	314556	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	173521	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.600	113	117210	50.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.50%			
49) 1,2-Dichloroethane-d4	8.180	65	141413	55.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.24%			
62) Toluene-d8	10.033	98	412112	48.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.96%			
86) 4-Bromofluorobenzene	12.807	95	132293	47.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	97653	65.30	ug/L	100
3) Chloromethane	3.138	50	148177	63.61	ug/L	99
4) Vinyl Chloride	3.266	62	187649	65.41	ug/L	96
5) 1,3-Butadiene	3.296	39	229839	83.16	ug/L	98
6) Bromomethane	3.772	94	135811	66.35	ug/L	97
7) Chloroethane	3.943	64	73982	36.85	ug/L	96
8) Trichlorofluoromethane	4.144	101	198306	69.26	ug/L	98
9) Ethyl Ether	4.583	59	95692	72.46	ug/L	97
10) Ethanol	4.784	45	40574	1631.77	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	100091	70.86	ug/L	96
12) 1,1-Dichloroethene	4.857	61	172137	71.03	ug/L	92
13) Freon 113	4.900	101	115343	69.80	ug/L	96
14) Carbon Disulfide	4.918	76	321716	65.37	ug/L	96
15) Iodomethane	5.058	142	127640	52.73	ug/L	96
16) Acrolein	5.290	56	134965	425.81	ug/L	99
17) Allyl chloride	5.461	41	185166	71.35	ug/L	97
18) Methylene Chloride	5.589	49	168158	66.87	ug/L	93
19) Acetone	5.643	43	280185	371.13	ug/L	100
20) Methyl acetate	5.778	43	719431	373.45	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	173263	66.60	ug/L	96
22) Hexane	5.869	56	105178	72.46	ug/L	93
23) Methyl Tert Butyl Ether	5.893	73	334981	73.47	ug/L	99
24) Acetonitrile	6.210	41	226297	809.42	ug/L	97
25) Di-isopropyl ether	6.320	45	422578	72.76	ug/L	95
26) Chloroprene	6.485	53	160019	78.12	ug/L	92
27) 1,1-Dichloroethane	6.515	63	223395	71.36	ug/L	99
28) Acrylonitrile	6.570	53	341050	419.66	ug/L	98
29) ETBE	6.741	59	367126	76.88	ug/L	96
30) Tert Butyl Alcohol	5.979	59	256441	845.31	ug/L	97
31) Vinyl acetate	6.765	43	1874131	435.68	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	122652	67.11	ug/L	87
33) 2,2-Dichloropropane	7.247	77	147974	70.27	ug/L	98
34) Bromochloromethane	7.350	128	55189	67.33	ug/L #	84
35) Cyclohexane	7.363	56	222672	76.41	ug/L	95
36) Chloroform	7.405	83	214322	72.38	ug/L	97
37) Ethyl acetate	7.497	43	1054131	425.05	ug/L	99
38) Tetrahydrofuran	7.594	42	73083	73.83	ug/L	91
40) Carbon Tetrachloride	7.582	117	136861	65.35	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	161954	70.40	ug/L	98
42) 2-Butanone	7.722	43	515390	452.58	ug/L	93
43) 1,1-Dichloropropene	7.777	75	158980	73.25	ug/L	98
44) tert-Butyl formate	7.869	59	371320	715.12	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.052	54	334843	754.46	ug/L	90
46) Methacrylonitrile	8.070	41	1500798	768.23	ug/L	99
47) Benzene	8.045	78	517984	71.41	ug/L	97
48) TAME	8.112	73	348044	74.65	ug/L	92
50) 1,2-Dichloroethane	8.247	62	159489	74.41	ug/L	96
51) tert Amyl alcohol	8.283	59	191603	896.02	ug/L	96
52) Trichloroethene	8.637	95	129378	70.84	ug/L	94
53) Methylcyclohexane	8.637	83	218830	63.87	ug/L	95
54) Dibromomethane	9.082	93	79392	67.00	ug/L	90
55) 1,2-Dichloropropane	9.167	63	120400	72.32	ug/L	97
56) Bromodichloromethane	9.216	83	148432	67.21	ug/L	99
57) Methyl methacrylate	9.326	41	133995	75.80	ug/L	93
58) 1,4-Dioxane	9.411	88	36097	1451.16	ug/L	97
59) 2-Chloroethyl vinyl ether	9.746	63	308893	438.84	ug/L	97
60) cis-1,3-Dichloropropene	9.844	75	174919	67.31	ug/L	98
63) Toluene	10.082	91	477716	63.89	ug/L	99
64) Isobutyl alcohol	8.173	43	218281	1883.75	ug/L	97
65) 2-Nitropropane	10.313	41	170482	485.65	ug/L	92
66) 4-Methyl-2-pentanone	10.423	43	1096147	406.17	ug/L	97
67) trans-1,3-Dichloropropene	10.484	75	172880	75.76	ug/L	95
68) Tetrachloroethene	10.484	166	131391	69.25	ug/L	98
69) Ethyl methacrylate	10.582	69	165734	77.65	ug/L	93
70) 1,1,2-Trichloroethane	10.649	83	98111	74.63	ug/L	97
71) Dibromochloromethane	10.844	129	104625	70.54	ug/L	98
72) 1,3-Dichloropropane	10.935	76	177729	74.70	ug/L	97
73) 1,2-Dibromoethane	11.112	107	112167	80.10	ug/L	99
74) 3,3-Dimethyl-1-butanol	11.185	57	810598	4404.22	ug/L	97
75) 2-hexanone	11.246	43	802941	453.42	ug/L	99
76) 1-Chlorohexane	11.539	91	167240	77.55	ug/L	90
77) Ethylbenzene	11.606	91	601164	69.50	ug/L	97
78) Chlorobenzene	11.612	112	333753	69.98	ug/L	94
79) 1,1,1,2-Tetrachloroethane	11.661	131	102346	74.41	ug/L	97
80) m,p-Xylene	11.746	91	909849	144.83	ug/L	99
81) o-Xylene	12.185	91	408248	69.19	ug/L	99
82) Styrene	12.240	104	304110	78.55	ug/L	98
83) Bromoform	12.301	173	74850	69.45	ug/L	96
84) Isopropylbenzene	12.490	105	492106	71.49	ug/L	98
87) cis-1,4-Dichloro-2-butene	12.849	53	34585	68.46	ug/L	94
88) n-Propylbenzene	12.910	91	621427	70.04	ug/L	99
89) Bromobenzene	12.941	156	119201	70.37	ug/L	94
90) 1,1,2,2-Tetrachloroethane	12.977	83	175127	76.61	ug/L	99
91) 1,3,5-Trimethylbenzene	13.087	105	413007	74.31	ug/L	95
92) 2-Chlorotoluene	13.105	91	405413	70.49	ug/L	98
93) trans-1,4-Dichloro-2-B...	13.160	53	37242	77.34	ug/L	92
94) 1,2,3-Trichloropropane	13.142	110	44462	79.30	ug/L	93
95) Cyclohexanone	13.221	55	30314	472.64	ug/L	95
96) 4-Chlorotoluene	13.270	91	343938	70.39	ug/L	95
98) tert-Butylbenzene	13.435	91	223203	71.49	ug/L	94
99) 1,2,4-Trimethylbenzene	13.502	105	395062	73.47	ug/L	99
100) Pentachloroethane	13.489	167	67128	91.44	ug/L	99
101) sec-Butylbenzene	13.618	105	499955	70.28	ug/L	98
102) 4-Isopropyltoluene	13.746	119	400260	74.22	ug/L	98
103) 1,3-Dichlorobenzene	13.886	146	221713	69.63	ug/L	97
104) 1,2,3-Trimethylbenzene	13.959	105	460622	75.38	ug/L	99
105) 1,4-Dichlorobenzene	13.965	146	261049	71.10	ug/L	98
106) n-Butylbenzene	14.166	92	222250	81.24	ug/L	97
107) Benzyl Chloride	14.197	126	46380	71.95	ug/L	93
108) 1,2-Dichlorobenzene	14.386	146	207203	71.89	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

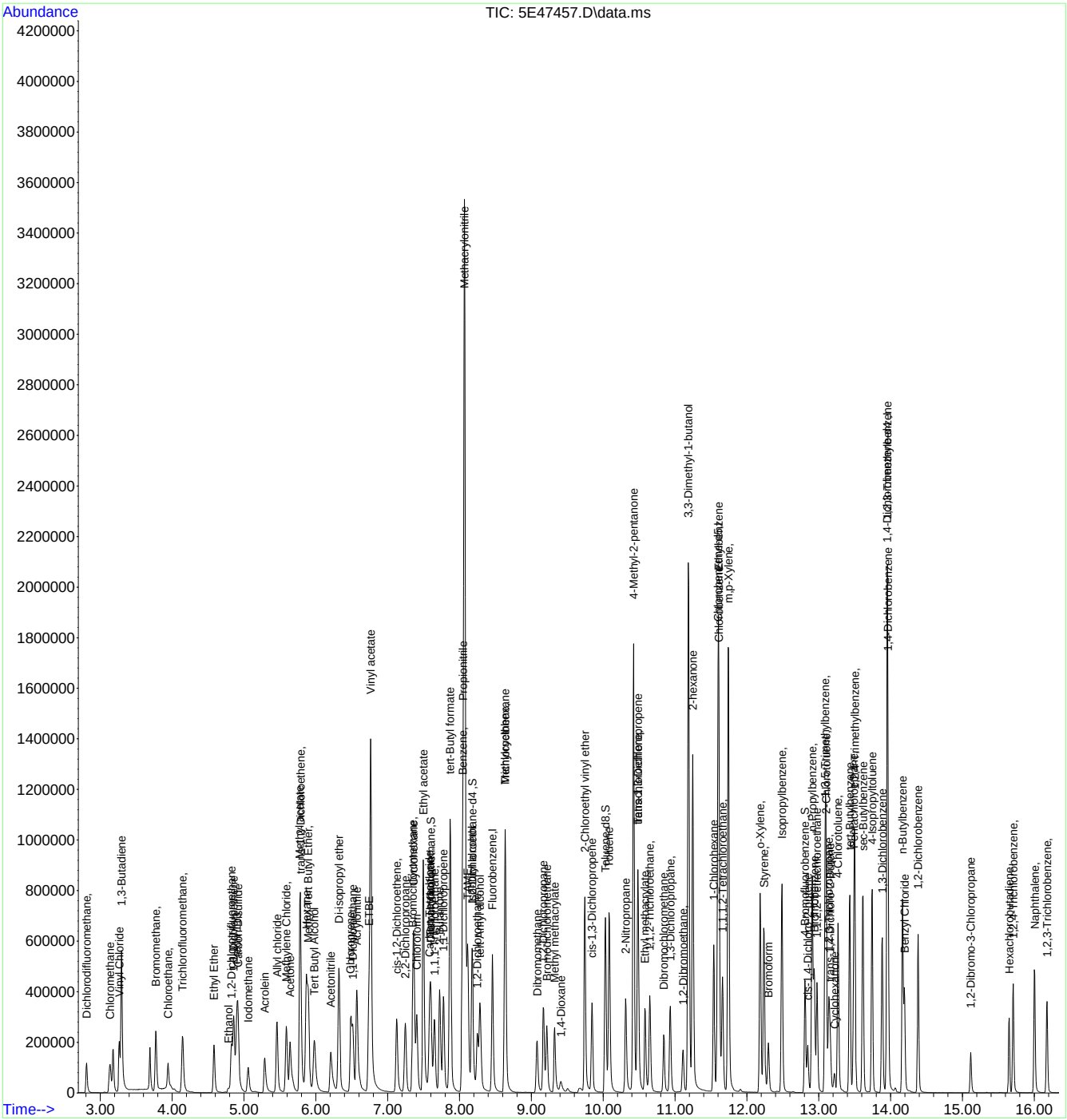
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	25933	82.46	ug/L	88
110) Hexachlorobutadiene	15.654	225	41637	68.84	ug/L	96
111) 1,2,4-Trichlorobenzene	15.709	180	111560	76.02	ug/L	97
112) Naphthalene	16.007	128	332543	83.06	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	97217	73.60	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	459709	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	348733	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	198638	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	124396	50.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.78%			
49) 1,2-Dichloroethane-d4	8.180	65	151204	56.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.48%			
62) Toluene-d8	10.033	98	425830	45.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 90.36%			
86) 4-Bromofluorobenzene	12.807	95	139058	43.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	148915	95.01	ug/L	98
3) Chloromethane	3.138	50	226826	92.91	ug/L	99
4) Vinyl Chloride	3.266	62	267443	88.96	ug/L	97
5) 1,3-Butadiene	3.297	39	336485	123.92	ug/L	97
6) Bromomethane	3.772	94	216343	100.86	ug/L	98
7) Chloroethane	3.943	64	102718	48.82	ug/L	96
8) Trichlorofluoromethane	4.144	101	340922	113.62	ug/L	98
9) Ethyl Ether	4.589	59	151498	109.47	ug/L	99
10) Ethanol	4.790	45	64176	2142.29	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	160532	108.44	ug/L	94
12) 1,1-Dichloroethene	4.857	61	275413	108.44	ug/L	93
13) Freon 113	4.900	101	180976	104.50	ug/L	96
14) Carbon Disulfide	4.918	76	515584	99.97	ug/L	99
15) Iodomethane	5.058	142	202188	79.70	ug/L	96
16) Acrolein	5.290	56	205839	619.69	ug/L	96
17) Allyl chloride	5.461	41	284608	104.64	ug/L	99
18) Methylene Chloride	5.589	49	261769	99.34	ug/L	93
19) Acetone	5.644	43	430367	543.97	ug/L	99
20) Methyl acetate	5.778	43	1141635	565.49	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	283345	103.92	ug/L	96
22) Hexane	5.869	56	165708	108.93	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	527364	110.37	ug/L	98
24) Acetonitrile	6.211	41	348533	1189.57	ug/L	98
25) Di-isopropyl ether	6.320	45	663473	109.01	ug/L	96
26) Chloroprene	6.485	53	257369	119.89	ug/L	91
27) 1,1-Dichloroethane	6.515	63	358298	109.21	ug/L	100
28) Acrylonitrile	6.570	53	529225	621.40	ug/L	98
29) ETBE	6.741	59	596173	119.12	ug/L	95
30) Tert Butyl Alcohol	5.985	59	395496	1244.01	ug/L	99
31) Vinyl acetate	6.765	43	2998408	665.14	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	198632	103.71	ug/L	89
33) 2,2-Dichloropropane	7.247	77	237759	107.73	ug/L	98
34) Bromochloromethane	7.351	128	88346	102.85	ug/L	88
35) Cyclohexane	7.363	56	352764	115.52	ug/L	95
36) Chloroform	7.405	83	341777	110.14	ug/L	96
37) Ethyl acetate	7.497	43	1630023	627.17	ug/L	99
38) Tetrahydrofuran	7.594	42	108220	104.32	ug/L	94
40) Carbon Tetrachloride	7.582	117	223074	93.07	ug/L	99
41) 1,1,1-Trichloroethane	7.655	97	262342	108.81	ug/L	98
42) 2-Butanone	7.722	43	784577	657.42	ug/L	95
43) 1,1-Dichloropropene	7.777	75	253171	111.32	ug/L	96
44) tert-Butyl formate	7.875	59	607296	989.01	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	543921	1055.83	ug/L		86
46) Methacrylonitrile	8.070	41	2419345	1071.53	ug/L		98
47) Benzene	8.046	78	839025	110.37	ug/L		99
48) TAME	8.113	73	562104	115.04	ug/L		95
50) 1,2-Dichloroethane	8.247	62	251750	112.07	ug/L		96
51) tert Amyl alcohol	8.289	59	300573	1341.27	ug/L		97
52) Trichloroethene	8.637	95	209376	109.39	ug/L		95
53) Methylcyclohexane	8.637	83	354787	98.81	ug/L		96
54) Dibromomethane	9.076	93	122422	98.59	ug/L		89
55) 1,2-Dichloropropane	9.167	63	191399	109.70	ug/L		97
56) Bromodichloromethane	9.216	83	236883	102.35	ug/L		98
57) Methyl methacrylate	9.326	41	204321	110.29	ug/L		95
58) 1,4-Dioxane	9.411	88	56923	1981.20	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	450256	610.39	ug/L		96
60) cis-1,3-Dichloropropene	9.844	75	277076	101.74	ug/L		98
63) Toluene	10.088	91	766274	92.44	ug/L		98
64) Isobutyl alcohol	8.180	43	341637	2659.36	ug/L		97
65) 2-Nitropropane	10.313	41	283634	668.53	ug/L		94
66) 4-Methyl-2-pentanone	10.423	43	1747046	583.91	ug/L		98
67) trans-1,3-Dichloropropene	10.484	75	284105	112.30	ug/L		98
68) Tetrachloroethene	10.484	166	215910	102.64	ug/L		99
69) Ethyl methacrylate	10.582	69	257864	108.98	ug/L		93
70) 1,1,2-Trichloroethane	10.649	83	152471	104.62	ug/L		97
71) Dibromochloromethane	10.844	129	171404	104.24	ug/L		95
72) 1,3-Dichloropropane	10.935	76	276581	104.85	ug/L		96
73) 1,2-Dibromoethane	11.112	107	172812	111.31	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.191	57	1429008	5921.30	ug/L		99
75) 2-hexanone	11.246	43	1271566	647.68	ug/L		97
76) 1-Chlorohexane	11.539	91	270143	112.99	ug/L		91
77) Ethylbenzene	11.606	91	1010558	105.38	ug/L		97
78) Chlorobenzene	11.612	112	556587	105.27	ug/L		94
79) 1,1,1,2-Tetrachloroethane	11.661	131	166934	109.48	ug/L		97
80) m,p-Xylene	11.740	91	1556179	223.44	ug/L		96
81) o-Xylene	12.185	91	668062	102.13	ug/L		97
82) Styrene	12.234	104	501634	116.87	ug/L		96
83) Bromoform	12.301	173	125369	104.92	ug/L		97
84) Isopropylbenzene	12.490	105	813734	106.62	ug/L		97
87) cis-1,4-Dichloro-2-butene	12.850	53	58165	100.58	ug/L		95
88) n-Propylbenzene	12.910	91	1024488	100.87	ug/L		100
89) Bromobenzene	12.935	156	191755	98.89	ug/L		83
90) 1,1,2,2-Tetrachloroethane	12.978	83	273049	104.34	ug/L		98
91) 1,3,5-Trimethylbenzene	13.087	105	707266	111.16	ug/L		95
92) 2-Chlorotoluene	13.099	91	691788	105.07	ug/L		93
93) trans-1,4-Dichloro-2-B...	13.160	53	60598	109.92	ug/L		90
94) 1,2,3-Trichloropropane	13.142	110	69302	107.97	ug/L		91
95) Cyclohexanone	13.215	55	47039	640.67	ug/L		97
96) 4-Chlorotoluene	13.270	91	568609	101.65	ug/L		96
98) tert-Butylbenzene	13.435	91	374540	104.80	ug/L		94
99) 1,2,4-Trimethylbenzene	13.502	105	672479	109.25	ug/L		99
100) Pentachloroethane	13.490	167	112623	134.02	ug/L		95
101) sec-Butylbenzene	13.612	105	829119	101.82	ug/L		96
102) 4-Isopropyltoluene	13.746	119	672694	108.97	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	365891	100.38	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	793887	113.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	446539	106.25	ug/L		99
106) n-Butylbenzene	14.166	92	365821	116.81	ug/L		99
107) Benzyl Chloride	14.191	126	78438	106.30	ug/L	#	78
108) 1,2-Dichlorobenzene	14.386	146	337660	102.34	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

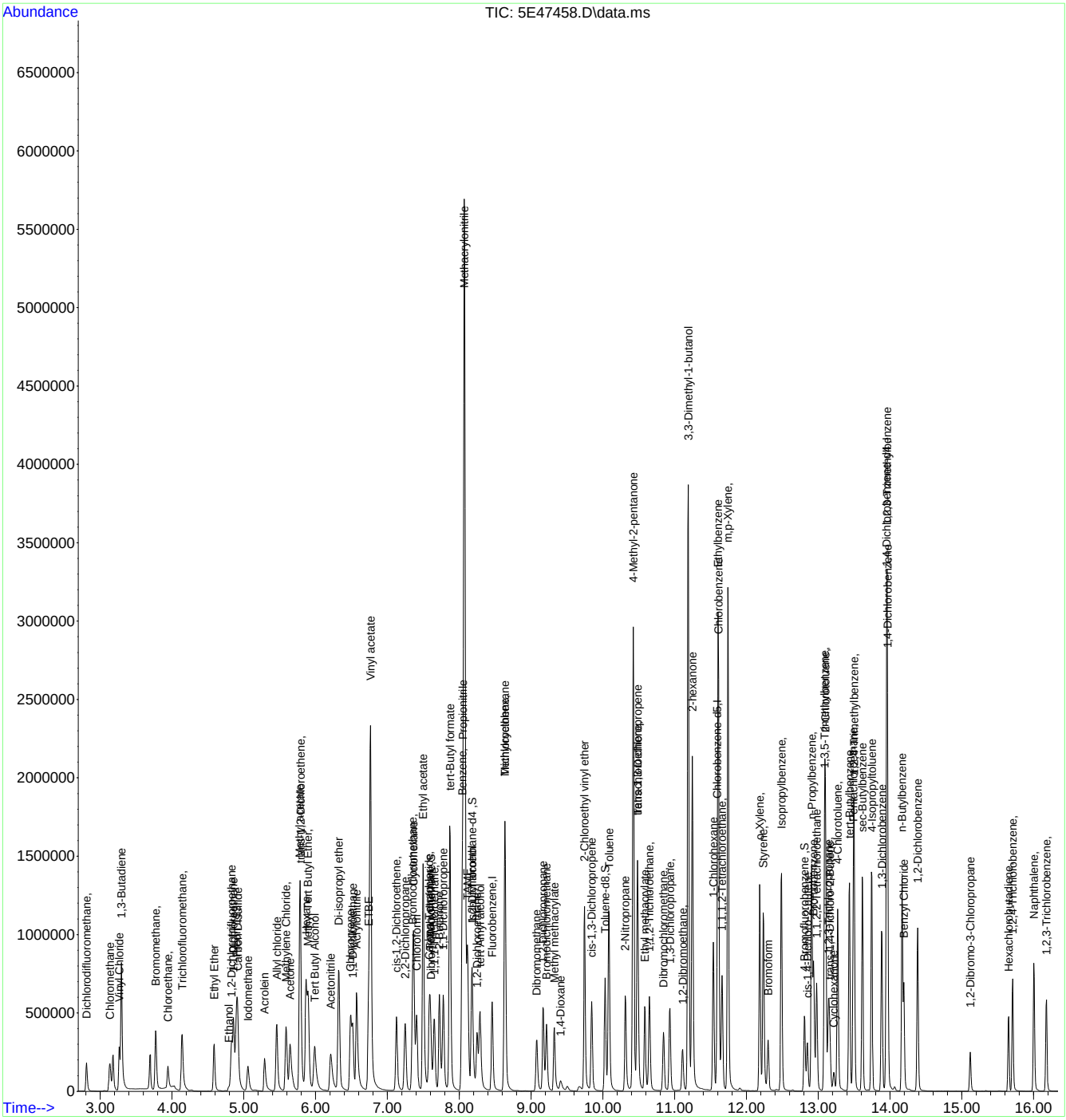
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	42049	116.79	ug/L	91
110) Hexachlorobutadiene	15.654	225	65837	95.08	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	179650	106.94	ug/L	99
112) Naphthalene	16.001	128	524837	114.52	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	153751	101.68	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	448133	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	302796	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	162149	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	119111	51.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.50%			
49) 1,2-Dichloroethane-d4	8.180	65	146738	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
62) Toluene-d8	10.033	98	420439	49.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.42%			
86) 4-Bromofluorobenzene	12.807	95	131859	49.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	66036	47.14	ug/L	99
3) Chloromethane	3.132	50	91079	41.81	ug/L	99
4) Vinyl Chloride	3.266	62	116632	40.70	ug/L	98
5) 1,3-Butadiene	3.297	39	143318	40.96	ug/L	95
6) Bromomethane	3.772	94	76785	39.11	ug/L	99
7) Chloroethane	3.943	64	93577	44.92	ug/L	99
8) Trichlorofluoromethane	4.156	101	111030	39.97	ug/L	98
9) Ethyl Ether	4.583	59	51900	38.62	ug/L	97
10) Ethanol	4.772	45	21354	759.84	ug/L	99
11) 1,2-Dichlorotrifluoroe...	4.827	67	82631	58.21	ug/L	99
12) 1,1-Dichloroethene	4.863	61	97472	40.76	ug/L	97
13) Freon 113	4.900	101	65217	38.75	ug/L	95
14) Carbon Disulfide	4.924	76	155466	33.02	ug/L	96
15) Iodomethane	5.058	142	61521	33.75	ug/L	99
16) Acrolein	5.290	56	86003	226.46	ug/L	99
17) Allyl chloride	5.461	41	107119	40.05	ug/L	94
18) Methylene Chloride	5.589	49	102012	39.18	ug/L	97
19) Acetone	5.644	43	165552	209.40	ug/L	97
20) Methyl acetate	5.778	43	394898	191.92	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	97178	40.80	ug/L	98
22) Hexane	5.869	56	55649	36.07	ug/L	98
23) Methyl Tert Butyl Ether	5.894	73	186057	41.21	ug/L	98
24) Acetonitrile	6.205	41	121913	409.03	ug/L	98
25) Di-isopropyl ether	6.320	45	230519	38.14	ug/L	96
26) Chloroprene	6.485	53	92615	44.66	ug/L	96
27) 1,1-Dichloroethane	6.515	63	125370	39.71	ug/L	99
28) Acrylonitrile	6.570	53	171018	195.22	ug/L	99
29) ETBE	6.741	59	194147	40.11	ug/L	97
30) Tert Butyl Alcohol	5.973	59	130044	360.93	ug/L	98
31) Vinyl acetate	6.765	43	980800	185.43	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	71619	40.73	ug/L	98
33) 2,2-Dichloropropane	7.247	77	91333	44.91	ug/L	99
34) Bromochloromethane	7.351	128	32006	42.48	ug/L	96
35) Cyclohexane	7.363	56	122515	41.66	ug/L	99
36) Chloroform	7.406	83	124734	42.60	ug/L	97
37) Ethyl acetate	7.497	43	551902	201.54	ug/L	100
38) Tetrahydrofuran	7.594	42	39534	37.26	ug/L	99
40) Carbon Tetrachloride	7.582	117	78288	39.51	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	92474	41.13	ug/L	96
42) 2-Butanone	7.723	43	265817	180.86	ug/L	100
43) 1,1-Dichloropropene	7.777	75	93480	43.51	ug/L	98
44) tert-Butyl formate	7.869	59	188199	423.89	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	171637	404.33	ug/L		99
46) Methacrylonitrile	8.070	41	755769	399.82	ug/L		99
47) Benzene	8.046	78	289343	40.32	ug/L		99
48) TAME	8.113	73	184137	39.94	ug/L		97
50) 1,2-Dichloroethane	8.247	62	90676	41.76	ug/L		96
51) tert Amyl alcohol	8.283	59	104499	386.59	ug/L		95
52) Trichloroethene	8.637	95	71145	40.37	ug/L		95
53) Methylcyclohexane	8.637	83	121266	38.00	ug/L		98
54) Dibromomethane	9.082	93	44715	39.45	ug/L		95
55) 1,2-Dichloropropane	9.173	63	72146	42.78	ug/L		96
56) Bromodichloromethane	9.216	83	79931	41.63	ug/L		97
57) Methyl methacrylate	9.326	41	72487	38.12	ug/L		99
58) 1,4-Dioxane	9.411	88	18070	717.11	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	160280	188.31	ug/L		97
60) cis-1,3-Dichloropropene	9.844	75	100026	39.84	ug/L		97
63) Toluene	10.088	91	273368	38.06	ug/L		97
64) Isobutyl alcohol	8.168	43	111391	878.94	ug/L		94
65) 2-Nitropropane	10.313	41	82673	208.22	ug/L		97
66) 4-Methyl-2-pentanone	10.423	43	599818	211.22	ug/L		100
67) trans-1,3-Dichloropropene	10.484	75	86390	37.43	ug/L		99
68) Tetrachloroethene	10.490	166	72124	41.61	ug/L		97
69) Ethyl methacrylate	10.588	69	89055	40.48	ug/L		97
70) 1,1,2-Trichloroethane	10.649	83	54233	41.96	ug/L		97
71) Dibromochloromethane	10.844	129	57003	40.25	ug/L		99
72) 1,3-Dichloropropane	10.935	76	104765	44.35	ug/L		98
73) 1,2-Dibromoethane	11.112	107	59238	39.57	ug/L		96
74) 3,3-Dimethyl-1-butanol	11.185	57	341686	2039.78	ug/L		97
75) 2-hexanone	11.246	43	438915	205.00	ug/L		99
76) 1-Chlorohexane	11.539	91	92249	44.57	ug/L		99
77) Ethylbenzene	11.606	91	326400	38.93	ug/L		98
78) Chlorobenzene	11.612	112	182346	40.27	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	55741	43.11	ug/L		96
80) m,p-Xylene	11.746	91	479406	79.03	ug/L		100
81) o-Xylene	12.185	91	222070	38.96	ug/L		99
82) Styrene	12.240	104	166416	40.02	ug/L		97
83) Bromoform	12.301	173	37084	41.71	ug/L		96
84) Isopropylbenzene	12.490	105	268615	40.97	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	18855	43.85	ug/L		89
88) n-Propylbenzene	12.911	91	339177	39.40	ug/L		99
89) Bromobenzene	12.935	156	66606	41.92	ug/L		94
90) 1,1,2,2-Tetrachloroethane	12.978	83	93918	41.28	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	222048	41.69	ug/L		99
92) 2-Chlorotoluene	13.106	91	219540	39.11	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.160	53	19846	42.70	ug/L		93
94) 1,2,3-Trichloropropane	13.142	110	24821	42.84	ug/L		95
95) Cyclohexanone	13.215	55	23173	306.62	ug/L		91
96) 4-Chlorotoluene	13.270	91	185702	39.20	ug/L		97
98) tert-Butylbenzene	13.435	91	120143	39.78	ug/L		96
99) 1,2,4-Trimethylbenzene	13.502	105	214351	41.30	ug/L		99
100) Pentachloroethane	13.490	167	33875	39.01	ug/L		98
101) sec-Butylbenzene	13.618	105	260837	38.14	ug/L		99
102) 4-Isopropyltoluene	13.746	119	213410	41.74	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	117226	39.12	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	238982	40.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	139562	40.06	ug/L		97
106) n-Butylbenzene	14.166	92	122700	41.96	ug/L		99
107) Benzyl Chloride	14.197	126	22417	42.74	ug/L	#	89
108) 1,2-Dichlorobenzene	14.386	146	111316	40.90	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

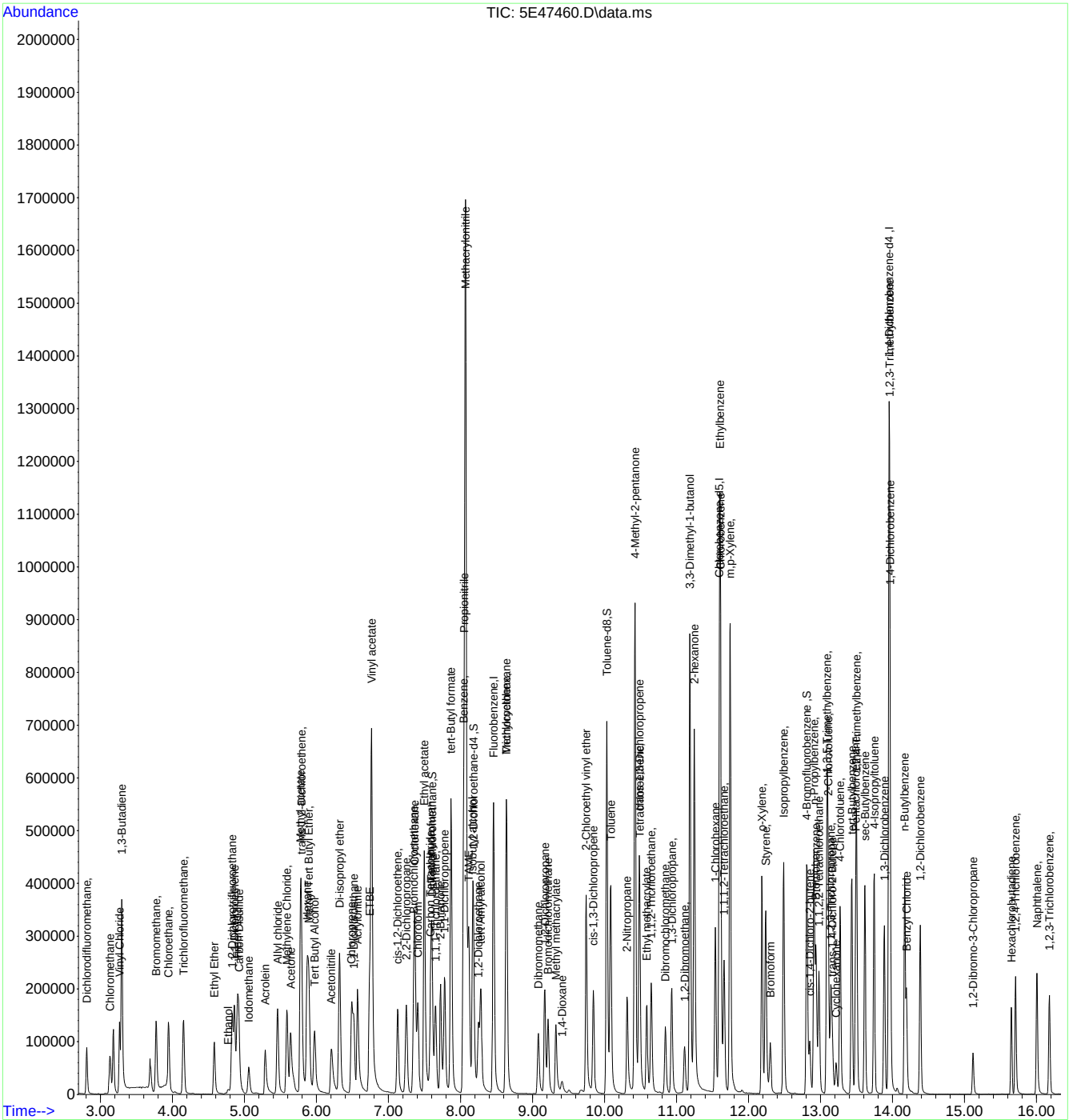
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	13936	42.52	ug/L	95
110) Hexachlorobutadiene	15.654	225	23429	42.03	ug/L	99
111) 1,2,4-Trichlorobenzene	15.709	180	58524	42.61	ug/L	98
112) Naphthalene	16.007	128	169150	39.39	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	51034	41.23	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	385180	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	260456	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	141008	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.600	113	98888	49.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	99.02%		
49) 1,2-Dichloroethane-d4	8.180	65	115653	49.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	98.72%		
62) Toluene-d8	10.033	98	358465	49.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.54%		
86) 4-Bromofluorobenzene	12.807	95	112575	48.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	96.86%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	50911	42.29	ug/L	96
3) Chloromethane	3.132	50	81074	43.30	ug/L	98
4) Vinyl Chloride	3.266	62	103194	41.89	ug/L	98
5) 1,3-Butadiene	3.296	39	133268	44.31	ug/L	94
6) Bromomethane	3.772	94	78574	46.56	ug/L	99
7) Chloroethane	3.949	64	89644	50.06	ug/L	98
8) Trichlorofluoromethane	4.150	101	103183	43.22	ug/L	100
9) Ethyl Ether	4.583	59	49893	43.20	ug/L	93
10) Ethanol	4.772	45	21283	881.08	ug/L	95
11) 1,2-Dichlorotrifluoroe...	4.827	67	80662	66.11	ug/L	98
12) 1,1-Dichloroethene	4.857	61	96503	46.95	ug/L	97
13) Freon 113	4.900	101	63174	43.67	ug/L	95
14) Carbon Disulfide	4.918	76	186529	46.10	ug/L	96
15) Iodomethane	5.058	142	65881	42.05	ug/L	94
16) Acrolein	5.290	56	66147	202.64	ug/L	99
17) Allyl chloride	5.461	41	101781	44.27	ug/L	93
18) Methylene Chloride	5.589	49	94752	42.34	ug/L	98
19) Acetone	5.637	43	143778	211.58	ug/L	99
20) Methyl acetate	5.778	43	359430	203.23	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	92107	44.99	ug/L	99
22) Hexane	5.869	56	59660	44.98	ug/L	96
23) Methyl Tert Butyl Ether	5.893	73	162975	41.99	ug/L	96
24) Acetonitrile	6.204	41	119415	466.13	ug/L	99
25) Di-isopropyl ether	6.320	45	225437	43.40	ug/L	97
26) Chloroprene	6.485	53	83815	47.02	ug/L	98
27) 1,1-Dichloroethane	6.515	63	120455	44.38	ug/L	99
28) Acrylonitrile	6.570	53	166917	221.68	ug/L	99
29) ETBE	6.741	59	181983	43.74	ug/L	98
30) Tert Butyl Alcohol	5.973	59	120436	388.90	ug/L	98
31) Vinyl acetate	6.765	43	880401	193.65	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	64615	42.75	ug/L	98
33) 2,2-Dichloropropane	7.247	77	81555	46.65	ug/L	99
34) Bromochloromethane	7.350	128	29875	46.13	ug/L	97
35) Cyclohexane	7.363	56	123394	48.81	ug/L	96
36) Chloroform	7.405	83	111481	44.30	ug/L	99
37) Ethyl acetate	7.497	43	519708	220.80	ug/L	100
38) Tetrahydrofuran	7.594	42	38372	42.08	ug/L	99
40) Carbon Tetrachloride	7.582	117	70478	41.38	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	86228	44.62	ug/L	97
42) 2-Butanone	7.722	43	261342	206.87	ug/L	98
43) 1,1-Dichloropropene	7.777	75	87404	47.33	ug/L	98
44) tert-Butyl formate	7.869	59	172280	445.50	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	165113	444.77	ug/L		97
46) Methacrylonitrile	8.070	41	713709	433.06	ug/L		99
47) Benzene	8.045	78	270093	43.79	ug/L		98
48) TAME	8.112	73	173035	43.67	ug/L		99
50) 1,2-Dichloroethane	8.253	62	79832	42.78	ug/L		98
51) tert Amyl alcohol	8.283	59	95587	411.41	ug/L		98
52) Trichloroethene	8.637	95	65702	43.37	ug/L		97
53) Methylcyclohexane	8.637	83	116947	42.64	ug/L		99
54) Dibromomethane	9.082	93	39285	40.33	ug/L		97
55) 1,2-Dichloropropane	9.173	63	64818	44.72	ug/L		97
56) Bromodichloromethane	9.216	83	76053	46.09	ug/L		98
57) Methyl methacrylate	9.326	41	68924	42.17	ug/L		98
58) 1,4-Dioxane	9.411	88	16560	764.59	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	172845	236.27	ug/L		97
60) cis-1,3-Dichloropropene	9.844	75	89888	41.65	ug/L		98
63) Toluene	10.088	91	252827	40.93	ug/L		97
64) Isobutyl alcohol	8.173	43	110025	1009.29	ug/L		99
65) 2-Nitropropane	10.313	41	96352	267.59	ug/L		94
66) 4-Methyl-2-pentanone	10.423	43	516168	211.32	ug/L		99
67) trans-1,3-Dichloropropene	10.484	75	81709	41.16	ug/L		98
68) Tetrachloroethene	10.490	166	66169	44.38	ug/L		98
69) Ethyl methacrylate	10.588	69	79078	41.79	ug/L		96
70) 1,1,2-Trichloroethane	10.649	83	48585	43.70	ug/L		98
71) Dibromochloromethane	10.844	129	50059	41.09	ug/L		97
72) 1,3-Dichloropropane	10.935	76	90571	44.58	ug/L		99
73) 1,2-Dibromoethane	11.112	107	52560	40.82	ug/L		92
74) 3,3-Dimethyl-1-butanol	11.185	57	297897	2060.15	ug/L		100
75) 2-hexanone	11.246	43	381035	206.90	ug/L		100
76) 1-Chlorohexane	11.539	91	89055	50.02	ug/L		97
77) Ethylbenzene	11.606	91	304124	42.17	ug/L		99
78) Chlorobenzene	11.612	112	167166	42.92	ug/L		97
79) 1,1,1,2-Tetrachloroethane	11.661	131	50384	45.30	ug/L		94
80) m,p-Xylene	11.746	91	450574	86.36	ug/L		99
81) o-Xylene	12.185	91	212258	43.29	ug/L		97
82) Styrene	12.240	104	152409	42.61	ug/L		98
83) Bromoform	12.301	173	35136	45.26	ug/L		95
84) Isopropylbenzene	12.490	105	252728	44.81	ug/L		100
87) cis-1,4-Dichloro-2-butene	12.849	53	17243	45.92	ug/L		96
88) n-Propylbenzene	12.910	91	323305	43.18	ug/L		100
89) Bromobenzene	12.941	156	57284	41.46	ug/L		98
90) 1,1,2,2-Tetrachloroethane	12.977	83	86008	43.48	ug/L		95
91) 1,3,5-Trimethylbenzene	13.093	105	203825	44.00	ug/L		99
92) 2-Chlorotoluene	13.105	91	205700	42.13	ug/L		100
93) trans-1,4-Dichloro-2-B...	13.160	53	18095	44.77	ug/L		98
94) 1,2,3-Trichloropropane	13.142	110	20651	40.99	ug/L		96
95) Cyclohexanone	13.221	55	13487	205.21	ug/L		92
96) 4-Chlorotoluene	13.270	91	175993	42.72	ug/L		99
98) tert-Butylbenzene	13.435	91	110994	42.26	ug/L		98
99) 1,2,4-Trimethylbenzene	13.502	105	196088	43.44	ug/L		99
100) Pentachloroethane	13.489	167	31717	42.00	ug/L		95
101) sec-Butylbenzene	13.618	105	258207	43.42	ug/L		100
102) 4-Isopropyltoluene	13.746	119	202316	45.50	ug/L		97
103) 1,3-Dichlorobenzene	13.886	146	109176	41.89	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	222582	43.37	ug/L		100
105) 1,4-Dichlorobenzene	13.965	146	125428	41.40	ug/L		98
106) n-Butylbenzene	14.166	92	113067	44.46	ug/L		96
107) Benzyl Chloride	14.197	126	22756	48.60	ug/L	#	85
108) 1,2-Dichlorobenzene	14.386	146	99787	42.16	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

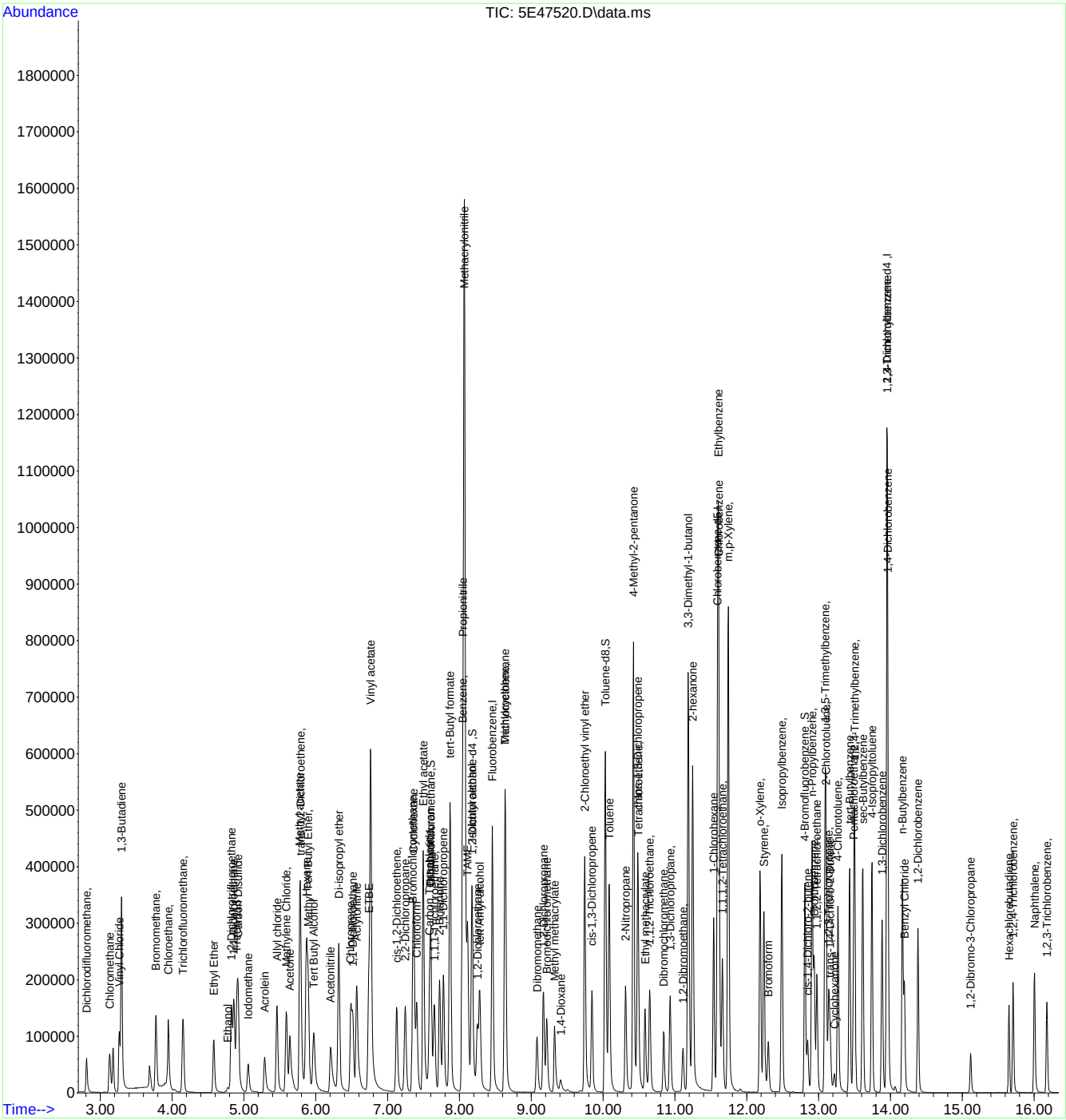
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11412	40.04	ug/L	86
110) Hexachlorobutadiene	15.654	225	20936	43.19	ug/L	98
111) 1,2,4-Trichlorobenzene	15.709	180	50911	42.63	ug/L	95
112) Naphthalene	16.007	128	148607	39.79	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	43466	40.38	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	320948	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	222025	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	118502	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	82418	49.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.04%			
49) 1,2-Dichloroethane-d4	8.180	65	97946	50.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.34%			
62) Toluene-d8	10.033	98	303650	48.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.92%			
86) 4-Bromofluorobenzene	12.807	95	94024	48.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	42712	42.5764	ug/L	96
3) Chloromethane	3.132	50	70557	45.2205	ug/L	99
4) Vinyl Chloride	3.266	62	83875	40.8656	ug/L	99
5) 1,3-Butadiene	3.296	39	131316	52.3960	ug/L	91
6) Bromomethane	3.772	94	54178	38.5282	ug/L	99
7) Chloroethane	3.943	64	74175	49.7156	ug/L	99
8) Trichlorofluoromethane	4.156	101	78739	39.5801	ug/L	99
9) Ethyl Ether	4.577	59	44426	46.1607	ug/L	95
10) Ethanol	4.772	45	14083	699.6957	ug/L	91
11) 1,2-Dichlorotrifluoroe...	4.827	67	67965	66.8504	ug/L	96
12) 1,1-Dichloroethene	4.863	61	77799	45.4258	ug/L	98
13) Freon 113	4.900	101	49372	40.9625	ug/L	97
14) Carbon Disulfide	4.924	76	142719	42.3308	ug/L	100
15) Iodomethane	5.058	142	57913	44.3639	ug/L	94
16) Acrolein	5.290	56	47218	173.6004	ug/L	100
17) Allyl chloride	5.461	41	81331	42.4577	ug/L	95
18) Methylene Chloride	5.589	49	81247	43.5678	ug/L	96
19) Acetone	5.637	43	103690	183.1222	ug/L	99
20) Methyl acetate	5.778	43	292786	198.6785	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	75327	44.1598	ug/L	98
22) Hexane	5.869	56	47816	43.2694	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	141299	43.6945	ug/L	94
24) Acetonitrile	6.204	41	84891	397.6811	ug/L	97
25) Di-isopropyl ether	6.320	45	199507	46.0902	ug/L	98
26) Chloroprene	6.491	53	66713	44.9161	ug/L	97
27) 1,1-Dichloroethane	6.515	63	100912	44.6253	ug/L	98
28) Acrylonitrile	6.570	53	129389	206.2305	ug/L	98
29) ETBE	6.741	59	156530	45.1490	ug/L	98
30) Tert Butyl Alcohol	5.973	59	86330	334.5558	ug/L	98
31) Vinyl acetate	6.765	43	752996	198.7773	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	54633	43.3836	ug/L	98
33) 2,2-Dichloropropane	7.247	77	59708	40.9928	ug/L	97
34) Bromochloromethane	7.351	128	24932	46.1990	ug/L #	86
35) Cyclohexane	7.363	56	104070	49.4067	ug/L	97
36) Chloroform	7.405	83	92333	44.0317	ug/L	98
37) Ethyl acetate	7.497	43	418949	213.6185	ug/L	99
38) Tetrahydrofuran	7.594	42	30382	39.9840	ug/L	95
40) Carbon Tetrachloride	7.582	117	55797	39.3155	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	68465	42.5142	ug/L	97
42) 2-Butanone	7.722	43	195462	185.6902	ug/L	98
43) 1,1-Dichloropropene	7.777	75	69660	45.2702	ug/L	95
44) tert-Butyl formate	7.869	59	127261	404.9632	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.046	54	115810	384.2560	ug/L		88
46)	Methacrylonitrile	8.070	41	574594	420.6467	ug/L		99
47)	Benzene	8.046	78	222202	43.2364	ug/L		98
48)	TAME	8.113	73	155086	46.9709	ug/L		99
50)	1,2-Dichloroethane	8.253	62	69299	44.5643	ug/L		97
51)	tert Amyl alcohol	8.283	59	61097	315.5936	ug/L		99
52)	Trichloroethene	8.637	95	53229	42.1723	ug/L		98
53)	Methylcyclohexane	8.637	83	94394	41.3032	ug/L		98
54)	Dibromomethane	9.082	93	34021	41.9148	ug/L		96
55)	1,2-Dichloropropane	9.167	63	54790	45.3655	ug/L		98
56)	Bromodichloromethane	9.216	83	61562	44.7712	ug/L		96
57)	Methyl methacrylate	9.326	41	54571	40.0694	ug/L		98
58)	1,4-Dioxane	9.411	88	11919	660.4460	ug/L		88
59)	2-Chloroethyl vinyl ether	9.746	63	122809	201.4662	ug/L		97
60)	cis-1,3-Dichloropropene	9.844	75	71652	39.8461	ug/L		98
63)	Toluene	10.088	91	209733	39.8261	ug/L		98
64)	Isobutyl alcohol	8.167	43	73043	786.0274	ug/L		95
65)	2-Nitropropane	10.313	41	59684	205.5100	ug/L		98
66)	4-Methyl-2-pentanone	10.423	43	426429	204.7953	ug/L		98
67)	trans-1,3-Dichloropropene	10.484	75	66160	39.0919	ug/L		90
68)	Tetrachloroethene	10.484	166	57149	44.9686	ug/L		97
69)	Ethyl methacrylate	10.588	69	67967	42.1358	ug/L		95
70)	1,1,2-Trichloroethane	10.649	83	42346	44.6777	ug/L		96
71)	Dibromochloromethane	10.844	129	40909	39.3910	ug/L		96
72)	1,3-Dichloropropane	10.935	76	77730	44.8779	ug/L		94
73)	1,2-Dibromoethane	11.112	107	44763	40.7790	ug/L		97
74)	3,3-Dimethyl-1-butanol	11.185	57	191162	1665.1028	ug/L		98
75)	2-hexanone	11.246	43	288182	183.5650	ug/L		97
76)	1-Chlorohexane	11.539	91	70745	46.6127	ug/L		96
77)	Ethylbenzene	11.606	91	248950	40.4899	ug/L		98
78)	Chlorobenzene	11.612	112	139989	42.1617	ug/L		98
79)	1,1,1,2-Tetrachloroethane	11.661	131	41493	43.7615	ug/L		92
80)	m,p-Xylene	11.746	91	371710	83.5725	ug/L		98
81)	o-Xylene	12.185	91	173891	41.6025	ug/L		99
82)	Styrene	12.240	104	127661	41.8663	ug/L		96
83)	Bromoform	12.301	173	25517	39.5156	ug/L		96
84)	Isopropylbenzene	12.490	105	207920	43.2505	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.849	53	8663	28.4718	ug/L		85
88)	n-Propylbenzene	12.910	91	263995	41.9573	ug/L		98
89)	Bromobenzene	12.941	156	49360	42.5108	ug/L		96
90)	1,1,2,2-Tetrachloroethane	12.977	83	71378	42.9326	ug/L		95
91)	1,3,5-Trimethylbenzene	13.087	105	166528	42.7801	ug/L		96
92)	2-Chlorotoluene	13.106	91	167448	40.8121	ug/L		99
93)	trans-1,4-Dichloro-2-B...	13.166	53	9348	27.5209	ug/L	#	71
94)	1,2,3-Trichloropropane	13.142	110	16779	39.6306	ug/L		94
95)	Cyclohexanone	13.221	55	9530	172.5448	ug/L		95
96)	4-Chlorotoluene	13.270	91	144599	41.7618	ug/L		98
98)	tert-Butylbenzene	13.435	91	91835	41.6037	ug/L		99
99)	1,2,4-Trimethylbenzene	13.502	105	160248	42.2470	ug/L		99
100)	Pentachloroethane	13.490	167	21458	33.8091	ug/L		98
101)	sec-Butylbenzene	13.618	105	207966	41.6085	ug/L		99
102)	4-Isopropyltoluene	13.746	119	164852	44.1171	ug/L		99
103)	1,3-Dichlorobenzene	13.886	146	90557	41.3491	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	186193	43.1679	ug/L		99
105)	1,4-Dichlorobenzene	13.965	146	105718	41.5224	ug/L		99
106)	n-Butylbenzene	14.166	92	87124	40.7686	ug/L		98
107)	Benzyl Chloride	14.197	126	13353	35.9492	ug/L	#	88
108)	1,2-Dichlorobenzene	14.386	146	84353	42.4075	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

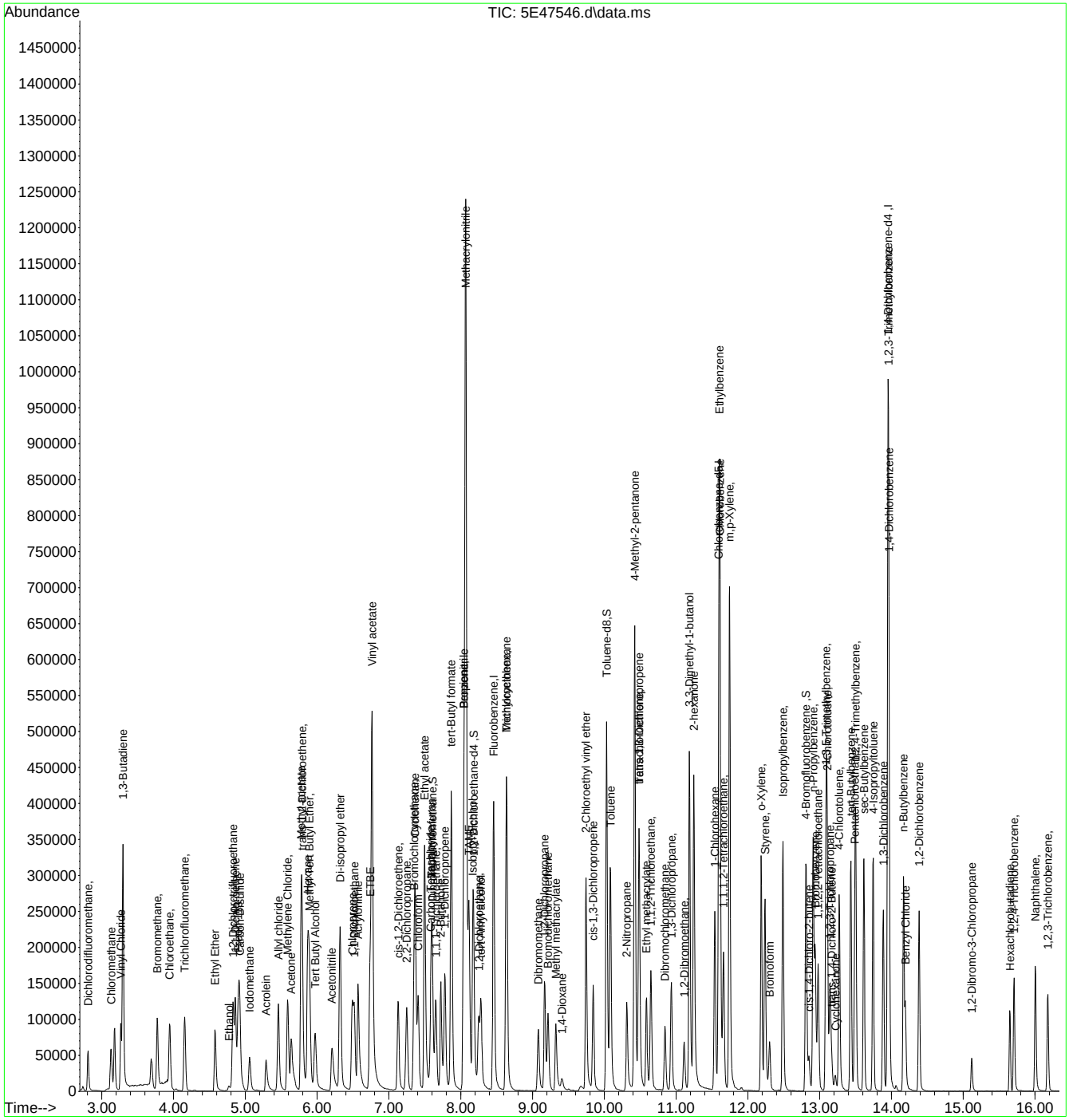
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	7982	33.3237	ug/L	94
110) Hexachlorobutadiene	15.654	225	15890	39.0021	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	42451	42.2935	ug/L	98
112) Naphthalene	16.001	128	121696	38.7775	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	37190	41.1136	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA20-5E
Date:	6/25/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2113**

BFB:	VS4048
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4048

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/2022
AFA Lot#:	VS3511
Data processed by:	Liana T
Sample ID Ver. by:	Liana T
Date Verified:	6/25/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47450	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47451	IC2113-1	-	-	Water	2	-	-	-	-	1uL(-)100mL✓
5E47452	IC2113-8	-	-	Water	3	-	-	-	-	2uL(-)100mL✓
5E47453	IC2113-2	-	-	Water	4	-	-	-	-	5uL(-)100mL✓
5E47454	IC2113-3	-	-	Water	5	-	-	-	-	5uL(-)50mL✓
5E47455	IC2113-4	-	-	Water	6	-	-	-	-	12.5uL(-)50mL✓
5E47456	ICC2113-5	-	-	Water	7	-	-	-	-	20uL(-)50mL✓
5E47457	IC2113-6	-	-	Water	8	-	-	-	-	35uL(-)50mL✓
5E47458	IC2113-7	-	-	Water	9	-	-	-	-	50uL(-)50mL✓
5E47459	BLANK	-	-	Water	10	-	-	-	-	-
5E47460	ICV2113-5	-	-	Water	11	-	-	-	-	20uL(-)50mL✓
5E47461	ICV2113-4	-	-	Water	12	-	-	-	-	12.5uL(-)50mL

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA20-5E
Date:	6/28/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2118**

BFB:	VS3987
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS3987

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/2022
AFA Lot#:	VS3511
Data processed by:	Liana T/LotusA
Sample ID Ver. by:	Liana T
Date Verified:	6/28/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47519	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47520	CC2113-5	-	-	Water	2	-	-	-	-	40uL(-)100mL✓
5E47521	BS	-	-	Water	3	-	-	-	-	25uL(-)100mL
5E47522	BLANK	-	-	Water	4	-	-	-	-	-
5E47523	MB	-	-	Water	5	-	-	-	-	AFA
5E47524	**FC16592-1**	**-**	**1**	**Water**	**6**	**MS56934**	**1**	**N**	**10X**	**cis12DCE, TCE OR ✓**
5E47525	FC16592-2	-	1	Water	7	MS56934	1	N	-	✓
5E47526	FC16592-3	-	1	Water	8	MS56934	1	N	-	ND ✓
5E47527	FC16592-4	-	1	Water	9	MS56934	1	N	-	ND ✓
5E47528	FC16592-5	-	1	Water	10	MS56934	1	N	-	ND ✓
5E47529	FC16592-6	-	1	Water	11	MS56934	1	N	-	✓
5E47530	FC16592-7	-	1	Water	12	MS56934	1	N	-	ND ✓
5E47531	FC16592-8	-	1	Water	13	MS56934	1	N	-	✓
5E47532	FC16592-9	-	1	Water	14	MS56934	1	N	-	ND ✓
5E47533	FC16592-10	10X	1	Water	15	MS56934	1	N	-	5mL(-)50mL ✓
5E47534	FC16592-11	-	1	Water	16	MS56934	1	N	-	ND ✓
5E47535	FC16592-12	-	1	Water	17	MS56934	1	N	-	✓
5E47536	FC16592-13	-	1	Water	18	MS56934	1	N	-	ND ✓
5E47537	FC16634-1	-	1	Water	19	MS56934	1	N	-	✓
5E47538	FC16634-2	-	1	Water	20	MS56934	1	N	-	✓
5E47539	FC16634-3	-	1	Water	21	MS56934	1	N	-	✓
5E47540	FC16634-4	-	1	Water	22	MS56934	1	N	-	✓
5E47541	FC16634-5	-	1	Water	23	MS56934	1	N	-	✓
5E47542	FC16634-6	-	1	Water	24	MS56934	1	N	-	✓
5E47543	FC16634-7	-	1	Water	25	MS56934	1	N	-	ND ✓
5E47544	FC16592-2MS	5X	1	Water	26	MS56934	1	N	-	20mL(-)100mL, Spiked 25uL(-)100mL
5E47545	FC16592-2MSD	5X	1	Water	27	MS56934	1	N	-	20mL(-)100mL, Spiked 25uL(-)100mL
5E47546	ECC2113-5	-	-	Water	28	-	-	-	-	40uL(-)100mL

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

Former Seneca Army Depot; Romulus, NY

SGS Job Number: FC16592

Sampling Date: 06/19/24

Report to:

EA Science and Technology
269 W Jefferson St
Syracuse, NY 13202
fdesantis@eaest.com; mwright@eaest.com

ATTN: Frank DeSantis

Total number of pages in report: **1034**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

Table of Contents

Table of Contents

SGS North America Inc.

Sample Summary

EA Engineering

Job No: FC16592

Former Seneca Army Depot; Romulus, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC16592-1	06/19/24	08:20	MW	06/20/24	AQ	Ground Water	SEAD-AL-PT-18A-20240619
FC16592-2	06/19/24	08:25	MW	06/20/24	AQ	Ground Water	SEAD-AL-PT-22-20240619
FC16592-3	06/19/24	08:30	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-28-20240619
FC16592-4	06/19/24	09:28	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-39-20240619
FC16592-5	06/19/24	09:20	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-48-20240619
FC16592-6	06/19/24	09:55	MW	06/20/24	AQ	Ground Water	SEAD-AL-PT-20-20240619
FC16592-7	06/19/24	10:15	MW	06/20/24	AQ	Ground Water	SEAD-AL-PT-19-20240619
FC16592-8	06/19/24	10:15	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-46-20240619
FC16592-9	06/19/24	10:50	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-32-20240619
FC16592-10	06/19/24	10:50	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-44A-20240619
FC16592-11	06/19/24	11:25	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-58D-20240619
FC16592-12	06/19/24	12:00	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-56R-20240619
FC16592-13	06/19/24	11:55	MW	06/20/24	AQ	Ground Water	SEAD-AL-MW-27-20240619

SGS North America Inc.

Sample Summary
(continued)

EA Engineering

Job No: FC16592

Former Seneca Army Depot; Romulus, NY

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC16592-14	06/19/24	12:40	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-24-20240619
FC16592-15	06/19/24	12:18	MW	06/20/24	AQ	Ground Water	SEAD-AL-PT-16-20240619
FC16592-16	06/19/24	12:55	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-10-20240619
FC16592-17	06/19/24	13:30	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-1-20240619
FC16592-18	06/19/24	13:20	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-9-20240619
FC16592-19	06/19/24	14:05	MW	06/20/24	AQ	Ground Water	SEAD-AL-MWT-5-20240619
FC16592-20	06/19/24	00:00	MW	06/20/24	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: EA Engineering **Job No:** FC16592

Site: Former Seneca Army Depot; Romulus, NY **Report Date:** 7/5/2024 9:26:29 AM

On 06/20/2024, 19 Sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC16592 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1O3089

Sample(s) FC16592-1MS, FC16592-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

V1O3089-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V2A1913

Sample(s) FC16724-2MS, FC16724-2MSD were used as the QC samples indicated.

V2A1913-MB: Sample was treated with an anti-foaming agent.

Matrix: AQ **Batch ID:** V5E2118

Sample(s) FC16592-2MS, FC16592-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Methyl Bromide are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FC16592-2MSD. Probable cause is due to sample non-homogeneity.

V5E2118-MB: Sample was treated with an anti-foaming agent.

FC16592-1 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-1 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-2 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-2 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-3 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-3 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-4 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-4 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-5 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-5 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-6 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-6 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-7 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-7 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-8 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-8 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-9 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-9 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-10 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-10 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-11 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-11 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-12 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-12 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-13 for Chloroethane: Associated CCV outside of DOD QSM control limits high, sample is ND.

FC16592-13 for Cyclohexane: Associated CCV outside of DOD QSM control limits high, sample is ND.

GC Volatiles By Method RSKSOP-147/175

Matrix: AQ **Batch ID:** GLL3144

Sample(s) FC16561-5DUP, FC16561-5MS were used as the QC samples indicated.

RPD(s) for Duplicate for Methane are outside control limits for sample FC16561-5DUP. Probable cause is due to sample non-homogeneity.

Matrix: AQ **Batch ID:** GLL3145

Sample(s) FC16768-1MS, FC16768-6DUP were used as the QC samples indicated.

RPD(s) for Duplicate for Methane are outside control limits for sample FC16768-6DUP. Probable cause is due to sample non-homogeneity.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP40153

Sample(s) FC16591-2MS, FC16591-2MSD were used as the QC samples for Chloride, Nitrogen, Nitrate, Sulfate.

FC16592-1 for Chloride: Dilution required based on initial conductivity reading.

FC16592-1 for Nitrogen, Nitrate: Sample analyzed beyond hold time due to instrument issues. Dilution required based on initial conductivity reading.

FC16592-3 for Chloride: Dilution required based on initial conductivity reading.

FC16592-3 for Sulfate: Dilution required based on initial conductivity reading.

FC16592-3 for Nitrogen, Nitrate: Sample analyzed beyond hold time due to instrument issues. Dilution required based on initial conductivity reading.

General Chemistry By Method SM5310 B-14/SW9060A

Matrix: AQ **Batch ID:** GP40176

Sample(s) FC16586-1MS, FC16586-1MSD were used as the QC samples for Total Organic Carbon.

FC16592-1 for Total Organic Carbon: Sample preserved to pH <2 with HCL in Lab prior analysis.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Report Generation (signature on file)

Summary of Hits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16592-1	**SEAD-AL-PT-18A-20240619**					
Chloroform		1.2	1.0	0.50	ug/l	SW846 8260D
1,1-Dichloroethylene		1.3	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		313	10	5.0	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		1.6	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		297	10	5.0	ug/l	SW846 8260D
Vinyl Chloride		1.8	1.0	0.50	ug/l	SW846 8260D
Methane		9.3	0.50	0.25	ug/l	RSKSOP-147/175
Nitrogen, Nitrate [a]		0.60 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Sulfate		356	20	10	mg/l	EPA 300/SW846 9056A
Total Organic Carbon [b]		7.2	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16592-2	**SEAD-AL-PT-22-20240619**					
1,2-Dichloroethane		1.3	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		29.1	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		0.88 J	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		12.5	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		2.0	1.0	0.50	ug/l	SW846 8260D
FC16592-3	**SEAD-AL-MWT-28-20240619**					
Methane		7630	5.0	2.5	ug/l	RSKSOP-147/175
Ethane		2.9	1.0	0.50	ug/l	RSKSOP-147/175
Chloride [c]		11.2 J	20	10	mg/l	EPA 300/SW846 9056A
Nitrogen, Nitrate [a]		0.49 J	1.0	0.50	mg/l	EPA 300/SW846 9056A
Total Organic Carbon		19.7	2.0	1.0	mg/l	SM5310 B-14/SW9060A
FC16592-4	**SEAD-AL-MW-39-20240619**					
No hits reported in this sample.						
FC16592-5	**SEAD-AL-MW-48-20240619**					
No hits reported in this sample.						
FC16592-6	**SEAD-AL-PT-20-20240619**					
cis-1,2-Dichloroethylene		21.5	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		2.0	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		7.5	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		1.3	1.0	0.50	ug/l	SW846 8260D

Summary of Hits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16592-7	**SEAD-AL-PT-19-20240619**					
No hits reported in this sample.						
FC16592-8	**SEAD-AL-MW-46-20240619**					
cis-1,2-Dichloroethylene		22.9	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		2.3	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		6.0	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		1.8	1.0	0.50	ug/l	SW846 8260D
FC16592-9	**SEAD-AL-MW-32-20240619**					
No hits reported in this sample.						
FC16592-10	**SEAD-AL-MW-44A-20240619**					
1,1-Dichloroethane		4.8 J	10	5.0	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		356	10	5.0	ug/l	SW846 8260D
Vinyl Chloride		463	10	5.0	ug/l	SW846 8260D
FC16592-11	**SEAD-AL-MW-58D-20240619**					
No hits reported in this sample.						
FC16592-12	**SEAD-AL-MW-56R-20240619**					
cis-1,2-Dichloroethylene		9.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.5	1.0	0.50	ug/l	SW846 8260D
FC16592-13	**SEAD-AL-MW-27-20240619**					
No hits reported in this sample.						
FC16592-14	**SEAD-AL-MWT-24-20240619**					
1,1-Dichloroethane		0.38 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		12.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		3.2	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		1.3	1.0	0.50	ug/l	SW846 8260D
FC16592-15	**SEAD-AL-PT-16-20240619**					
No hits reported in this sample.						

Summary of Hits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC16592-16	**SEAD-AL-MWT-10-20240619**					
Benzene		0.65 J	1.0	0.50	ug/l	SW846 8260D
FC16592-17	**SEAD-AL-MWT-1-20240619**					
cis-1,2-Dichloroethylene		2.4	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		1.0	1.0	0.50	ug/l	SW846 8260D
FC16592-18	**SEAD-AL-MWT-9-20240619**					
cis-1,2-Dichloroethylene		63.3	1.0	0.50	ug/l	SW846 8260D
trans-1,2-Dichloroethylene		1.0	1.0	0.50	ug/l	SW846 8260D
Trichloroethylene		35.3	1.0	0.50	ug/l	SW846 8260D
Vinyl Chloride		2.4	1.0	0.50	ug/l	SW846 8260D
FC16592-19	**SEAD-AL-MWT-5-20240619**					
Benzene		2.0	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethylene		1.6	1.0	0.50	ug/l	SW846 8260D
Ethylbenzene		0.47 J	1.0	0.50	ug/l	SW846 8260D
Methyl Chloride		1.8 J	2.0	1.0	ug/l	SW846 8260D
Toluene		1.5	1.0	0.50	ug/l	SW846 8260D
FC16592-20	**TRIP BLANK**					

No hits reported in this sample.

(a) Sample analyzed beyond hold time due to instrument issues. Dilution required based on initial conductivity reading.
(b) Sample preserved to pH < 2 with HCL in Lab prior analysis.
(c) Dilution required based on initial conductivity reading.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-18A-20240619		
Lab Sample ID:	FC16592-1	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47524.D	1	06/28/24 11:33	LT	n/a	n/a	V5E2118
Run #2	1O85457.D	10	07/01/24 10:28	JW	n/a	n/a	V1O3089

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	1.2	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	1.3	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	313 [b]	10	5.0	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.6	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-18A-20240619		
Lab Sample ID:	FC16592-1	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	297 [b]	10	5.0	3.5	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.8	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	111%	79-125%
2037-26-5	Toluene-D8	107%	101%	85-112%
460-00-4	4-Bromofluorobenzene	109%	101%	83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.
(b) Result is from Run# 2

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-18A-20240619		
Lab Sample ID:	FC16592-1	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90292.D	1	06/27/24 11:26	JR	n/a	n/a	GLL3144
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	9.3	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-18A-20240619		
Lab Sample ID:	FC16592-1	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	10 U	20	10	8.0	mg/l	10	06/21/24 15:35	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	0.60 J	1.0	0.50	0.40	mg/l	10	06/21/24 15:35	GN	EPA 300/SW846 9056A
Sulfate	356	20	10	6.0	mg/l	10	06/21/24 15:35	GN	EPA 300/SW846 9056A
Total Organic Carbon [c]	7.2	2.0	1.0	0.54	mg/l	1	07/01/24 15:03	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

(b) Sample analyzed beyond hold time due to instrument issues. Dilution required based on initial conductivity reading.

(c) Sample preserved to pH < 2 with HCL in Lab prior analysis.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD

LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-22-20240619		
Lab Sample ID:	FC16592-2	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47525.D	1	06/28/24 11:56	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	1.3	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	29.1	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.88	1.0	0.50	0.22	ug/l	J
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-22-20240619		
Lab Sample ID:	FC16592-2	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	12.5	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	2.0	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-28-20240619		
Lab Sample ID:	FC16592-3	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47526.D	1	06/28/24 12:18	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-28-20240619		
Lab Sample ID:	FC16592-3	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-28-20240619		
Lab Sample ID:	FC16592-3	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90293.D	1	06/27/24 11:33	JR	n/a	n/a	GLL3144
Run #2	LL90337.D	10	06/28/24 13:38	JR	n/a	n/a	GLL3145

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.5 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	7630 [a]	5.0	2.5	1.6	ug/l	
74-84-0	Ethane	2.9	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-28-20240619		
Lab Sample ID:	FC16592-3	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
		Percent Solids:	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Chloride [a]	11.2 J	20	10	8.0	mg/l	10	06/21/24 16:01	GN	EPA 300/SW846 9056A
Nitrogen, Nitrate [b]	0.49 J	1.0	0.50	0.40	mg/l	10	06/21/24 16:01	GN	EPA 300/SW846 9056A
Sulfate [a]	10 U	20	10	6.0	mg/l	10	06/21/24 16:01	GN	EPA 300/SW846 9056A
Total Organic Carbon	19.7	2.0	1.0	0.54	mg/l	1	07/01/24 15:25	FN	SM5310 B-14/SW9060A

(a) Dilution required based on initial conductivity reading.

(b) Sample analyzed beyond hold time due to instrument issues. Dilution required based on initial conductivity reading.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD

LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-39-20240619		
Lab Sample ID:	FC16592-4	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47527.D	1	06/28/24 12:41	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-39-20240619		
Lab Sample ID:	FC16592-4	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-48-20240619		
Lab Sample ID:	FC16592-5	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47528.D	1	06/28/24 13:04	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-48-20240619		
Lab Sample ID:	FC16592-5	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-20-20240619		
Lab Sample ID:	FC16592-6	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47529.D	1	06/28/24 13:27	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	21.5	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.0	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-20-20240619		
Lab Sample ID:	FC16592-6	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	7.5	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.3	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-19-20240619		
Lab Sample ID:	FC16592-7	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47530.D	1	06/28/24 13:50	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-19-20240619		
Lab Sample ID:	FC16592-7	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-46-20240619		
Lab Sample ID:	FC16592-8	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47531.D	1	06/28/24 14:12	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	22.9	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.3	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-46-20240619		
Lab Sample ID:	FC16592-8	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	6.0	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.8	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-32-20240619		
Lab Sample ID:	FC16592-9	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47532.D	1	06/28/24 14:35	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-32-20240619		
Lab Sample ID:	FC16592-9	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-44A-20240619		
Lab Sample ID:	FC16592-10	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47533.D	10	06/28/24 14:57	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	200 U	250	200	100	ug/l	
71-43-2	Benzene	5.0 U	10	5.0	3.1	ug/l	
74-97-5	Bromochloromethane	5.0 U	10	5.0	4.5	ug/l	
75-27-4	Bromodichloromethane	5.0 U	10	5.0	2.4	ug/l	
75-25-2	Bromoform	5.0 U	10	5.0	4.1	ug/l	
78-93-3	2-Butanone (MEK)	35 U	50	35	20	ug/l	
75-15-0	Carbon Disulfide	10 U	20	10	5.3	ug/l	
56-23-5	Carbon Tetrachloride	5.0 U	10	5.0	3.6	ug/l	
108-90-7	Chlorobenzene	5.0 U	10	5.0	2.0	ug/l	
75-00-3	Chloroethane [a]	10 U	20	10	6.7	ug/l	
67-66-3	Chloroform	5.0 U	10	5.0	3.0	ug/l	
110-82-7	Cyclohexane [a]	5.0 U	10	5.0	3.9	ug/l	
124-48-1	Dibromochloromethane	5.0 U	10	5.0	2.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	20 U	50	20	10	ug/l	
106-93-4	1,2-Dibromoethane	10 U	20	10	2.8	ug/l	
75-71-8	Dichlorodifluoromethane	10 U	20	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	5.0 U	10	5.0	3.2	ug/l	
541-73-1	1,3-Dichlorobenzene	5.0 U	10	5.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	5.0 U	10	5.0	2.6	ug/l	
75-34-3	1,1-Dichloroethane	4.8	10	5.0	3.4	ug/l	J
107-06-2	1,2-Dichloroethane	5.0 U	10	5.0	3.1	ug/l	
75-35-4	1,1-Dichloroethylene	5.0 U	10	5.0	3.2	ug/l	
156-59-2	cis-1,2-Dichloroethylene	356	10	5.0	2.8	ug/l	
156-60-5	trans-1,2-Dichloroethylene	5.0 U	10	5.0	2.2	ug/l	
78-87-5	1,2-Dichloropropane	5.0 U	10	5.0	4.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	10	5.0	2.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	10	5.0	2.1	ug/l	
100-41-4	Ethylbenzene	5.0 U	10	5.0	3.6	ug/l	
76-13-1	Freon 113	5.0 U	10	5.0	4.8	ug/l	
591-78-6	2-Hexanone	50 U	100	50	20	ug/l	
98-82-8	Isopropylbenzene	5.0 U	10	5.0	2.2	ug/l	
79-20-9	Methyl Acetate	100 U	200	100	50	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-44A-20240619		
Lab Sample ID:	FC16592-10	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	40 U	50	40	20	ug/l	
74-87-3	Methyl Chloride	10 U	20	10	5.0	ug/l	
108-87-2	Methylcyclohexane	5.0 U	10	5.0	4.4	ug/l	
75-09-2	Methylene Chloride	40 U	50	40	20	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	20 U	50	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.0 U	10	5.0	2.3	ug/l	
100-42-5	Styrene	5.0 U	10	5.0	2.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	10	5.0	3.0	ug/l	
127-18-4	Tetrachloroethylene	5.0 U	10	5.0	2.2	ug/l	
108-88-3	Toluene	5.0 U	10	5.0	3.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	10 U	20	10	6.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	10 U	20	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	5.0 U	10	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	5.0 U	10	5.0	4.7	ug/l	
79-01-6	Trichloroethylene	5.0 U	10	5.0	3.5	ug/l	
75-69-4	Trichlorofluoromethane	10 U	20	10	5.0	ug/l	
75-01-4	Vinyl Chloride	463	10	5.0	4.1	ug/l	
	m,p-Xylene	10 U	20	10	4.7	ug/l	
95-47-6	o-Xylene	5.0 U	10	5.0	2.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-58D-20240619		
Lab Sample ID:	FC16592-11	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47534.D	1	06/28/24 15:20	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-58D-20240619		
Lab Sample ID:	FC16592-11	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-56R-20240619		
Lab Sample ID:	FC16592-12	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47535.D	1	06/28/24 15:43	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.4	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-56R-20240619		
Lab Sample ID:	FC16592-12	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.5	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MW-27-20240619		
Lab Sample ID:	FC16592-13	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E47536.D	1	06/28/24 16:06	LT	n/a	n/a	V5E2118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane [a]	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane [a]	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MW-27-20240619		
Lab Sample ID:	FC16592-13	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated CCV outside of DOD QSM control limits high, sample is ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-24-20240619		
Lab Sample ID:	FC16592-14	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56372.D	1	06/27/24 15:16	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.38	1.0	0.50	0.34	ug/l	J
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	12.4	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-24-20240619		
Lab Sample ID:	FC16592-14	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	3.2	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	1.3	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-PT-16-20240619		
Lab Sample ID:	FC16592-15	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56373.D	1	06/27/24 15:40	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-PT-16-20240619		
Lab Sample ID:	FC16592-15	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-10-20240619		
Lab Sample ID:	FC16592-16	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56374.D	1	06/27/24 16:04	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.65	1.0	0.50	0.31	ug/l	J
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-10-20240619		
Lab Sample ID:	FC16592-16	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-1-20240619		
Lab Sample ID:	FC16592-17	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56375.D	1	06/27/24 16:28	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.4	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-1-20240619		
Lab Sample ID:	FC16592-17	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	1.0	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-9-20240619		
Lab Sample ID:	FC16592-18	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56376.D	1	06/27/24 16:52	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	63.3	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.0	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-9-20240619		
Lab Sample ID:	FC16592-18	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	35.3	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	2.4	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-5-20240619		
Lab Sample ID:	FC16592-19	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56377.D	1	06/27/24 17:16	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	2.0	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.6	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.47	1.0	0.50	0.36	ug/l	J
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEAD-AL-MWT-5-20240619		
Lab Sample ID:	FC16592-19	**Date Sampled:**	06/19/24
Matrix:	AQ - Ground Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.8	2.0	1.0	0.50	ug/l	J
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	1.5	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16592-20	**Date Sampled:**	06/19/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A56358.D	1	06/27/24 09:39	JW	n/a	n/a	V2A1913
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	0.39	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	0.48	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
79-20-9	Methyl Acetate	10 U	20	10	5.0	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16592-20	**Date Sampled:**	06/19/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/20/24
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-83-9	Methyl Bromide	4.0 U	5.0	4.0	2.0	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	0.44	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FC16592-20	**Date Sampled:**	06/19/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/20/24
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	Former Seneca Army Depot; Romulus, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL90294.D	1	06/27/24 11:43	JR	n/a	n/a	GLL3144
Run #2							

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	5.1 ml	500 ul	21 Deg. C
Run #2				

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
74-82-8	Methane	0.25 U	0.50	0.25	0.16	ug/l	
74-84-0	Ethane	0.50 U	1.0	0.50	0.32	ug/l	
74-85-1	Ethene	0.50 U	1.0	0.50	0.43	ug/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FC16592 PAGE 1 OF 2

SGS - ORLANDO Quote #

Client / Reporting Information

Company Name: EA Engineering
Address: 333 W Washington St
City: Syracuse State: NY Zip: 13202
Project Contact: MWright@eaest.com Email: Fdesantis@eaeng.com
Phone #:

Project Information

Project Name: Seneca Army Depot
Street Ash Land Fill
City Romulus State NY
Project #
Fax #
Client Purchase Order #

Sampler(s) Name(s) (Printed)
Sampler 1: MW Sampler 2:

Analytical Information

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	VOC	TOC	Diss 9045	SO4 9020 CHL	LAB USE ONLY
1	SEAD-AL-PT-18A-20240619	6/19/24	0820	MW	GW	9			X							X	X	X	X	
2	SEAD-AL-PT-22-20240619	6/19/24	0825	MW	GW	3			X							X				
3	SEAD-AL-MWT-28-20240619	6/19/24	0830	MW	GW	9			X							X	X	X	X	
4	SEAD-AL-MW-39-20240619	6/19/24	0925	MW	GW	3			X							X				
5	SEAD-AL-MW-45-20240619	6/19/24	0920	MW	GW	3			X							X				
6	SEAD-AL-PT-20-20240619	6/19/24	0955	MW	GW	3			X							X				
7	SEAD-AL-PT-19-20240619	6/19/24	1045	MW	GW	3			X							X				
8	SEAD-AL-MW-46-20240619	6/19/24	1015	MW	GW	3			X							X				
9	SEAD-AL-MW-32-20240619	6/19/24	1050	MW	GW	3			X							X				
10	SEAD-AL-MW-44A-20240619	6/19/24	1050	MW	GW	3			X							X				
11	SEAD-AL-MW-54D-20240619	6/19/24	1125	MW	GW	3			X							X				
12	SEAD-AL-MW-56R-20240619	6/19/24	1200	MW	GW	3			X							X				

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S NYS DEC

Comments / Remarks

INITIAL ASSESSMENT ZB
LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1		6/19/24	2	3		4 930 06/20/24
	Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5			6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 3.4 IR #1

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FC16592: Chain of Custody
Page 1 of 4

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE 2 OF 2

SGS - ORLANDO Quote # SKIP # FC16592

Client / Reporting Information

Company Name:
Address:
City: State: Zip:
Project Contact: SAME AS PAGE 1 Email:
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: Sampler 2:

Project Information

Project Name:
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information

VOC
Disolved Gas

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC	Disolved Gas	LAB USE ONLY
13	SEAD-AL-MWF-27-20240619	6/19/24	1155	MW	GW	3			X							X		
14	SEAD-AL-MWF-24-20240619	6/19/24	1240	MW	GW	3			X							X		
15	SEAD-AL-PT-16-20240619	6/19/24	1218	MW	GW	3			X							X		
16	SEAD-AL-MWT-10-20240619	6/19/24	1755	MW	GW	3			X							X		
17	SEAD-AL-MWT-1-20240619	6/19/24	1330	MW	GW	3			X							X		
18	SEAD-AL-MWT-9-20240619	6/19/24	1320	MW	GW	3			X							X		
19	SEAD-AL-MWT-5-20240619	6/19/24	1405	MW	GW	3			X							X		
20	TRIP BLANK	~~6/19/24~~	—	LAB	W	2			X							X	X	

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH* SAME AS PAGE 1
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [x] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	6/19/24	2	3		4 06/20/24 930
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

5.1 5

FC16592: Chain of Custody
Page 2 of 4

SGS - Orlando Sample Receipt Summary

Job Number: fc16592 **Client:** EA ENGINEERING **Project:** SENECA ARMY DEPOT

Date / Time Received: 6/20/2024 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7024 6629 8571

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐

	W	or	S	N/A
3. Type of TB Received	☑		☐	☐

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Sufficient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar Received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc Information

Number of Encores: 25 Gram 5 Gram

Test Strip Lot #s: pH 0-3: 226422 pH 10-12:

Residual Chlorine Test Strip Lot #

Number of Lab Filtered Metals:

Other: (Specify) pH 1.0 - 12.0 222221

Comments

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 6/20/2024 12:55:02 PM Reviewer: Date:

Job Change Order: FC16592

Requested Date:	6/21/2024	**Received Date:**	6/20/2024
Account Name:	EA Engineering	**Due Date:**	6/21/2024
Project Description:	Former Seneca Army Depot; Romulus, NY	**Deliverable:**	FULT1
C/O Initiated By:	ANDREA_C **PM:** AC	**TAT (Days):**	14

==========

Sample #: FC16592-13 **Dept:** LOGIN

Client ID: SEAD-AL-MW-27-20240619 **TAT:** 14

Change: Please change ID to MW-27

==========

Sample #: FC16592-14 **Dept:** LOGIN

Client ID: SEAD-AL-MWT-24-20240619 **TAT:** 14

Change: Please change ID to MWT-24

FC16592: Chain of Custody
Page 4 of 4

Above Changes Per: Mike Wright **Date/Time:** 6/21/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1O3089	SW846 8260D						
V1O3089-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	95	%	78-123
V1O3089-BS	79-01-6	Trichloroethylene	BSP	REC	103	%	79-123
V1O3089-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	105	%	80-119
V1O3089-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	111	%	81-118
V1O3089-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	89-112
V1O3089-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	100	%	85-114
FC16592-1MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	96	%	78-123
FC16592-1MS	79-01-6	Trichloroethylene	MS	REC	84	%	79-123
FC16592-1MS	1868-53-7	Dibromofluoromethane	MS	SURR	105	%	80-119
FC16592-1MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	111	%	81-118
FC16592-1MS	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FC16592-1MS	460-00-4	4-Bromofluorobenzene	MS	SURR	99	%	85-114
FC16592-1MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	81	%	78-123
FC16592-1MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	7	%	20
FC16592-1MSD	79-01-6	Trichloroethylene	MSD	REC	76	%	79-123
FC16592-1MSD	79-01-6	Trichloroethylene	MSD	RPD	4	%	20
FC16592-1MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	104	%	80-119
FC16592-1MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	108	%	81-118
FC16592-1MSD	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112
FC16592-1MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	103	%	85-114
V1O3089-MB	1868-53-7	Dibromofluoromethane	MB	SURR	102	%	80-119
V1O3089-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	109	%	81-118
V1O3089-MB	2037-26-5	Toluene-D8	MB	SURR	102	%	89-112
V1O3089-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	107	%	85-114
FC16592-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	80-119
FC16592-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FC16592-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16592-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	85-114
V2A1913	SW846 8260D						
V2A1913-BS	67-64-1	Acetone	BSP	REC	106	%	39-160
V2A1913-BS	71-43-2	Benzene	BSP	REC	96	%	79-120
V2A1913-BS	74-97-5	Bromochloromethane	BSP	REC	91	%	78-123
V2A1913-BS	75-27-4	Bromodichloromethane	BSP	REC	88	%	79-125
V2A1913-BS	75-25-2	Bromoform	BSP	REC	96	%	66-130
V2A1913-BS	78-93-3	2-Butanone (MEK)	BSP	REC	96	%	56-143
V2A1913-BS	75-15-0	Carbon Disulfide	BSP	REC	85	%	64-133
V2A1913-BS	56-23-5	Carbon Tetrachloride	BSP	REC	96	%	72-136
V2A1913-BS	108-90-7	Chlorobenzene	BSP	REC	96	%	82-118
V2A1913-BS	75-00-3	Chloroethane	BSP	REC	91	%	60-138
V2A1913-BS	67-66-3	Chloroform	BSP	REC	100	%	79-124

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2A1913-BS	110-82-7	Cyclohexane	BSP	REC	94	%	71-130
V2A1913-BS	124-48-1	Dibromochloromethane	BSP	REC	100	%	74-126
V2A1913-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	100	%	62-128
V2A1913-BS	106-93-4	1,2-Dibromoethane	BSP	REC	102	%	77-121
V2A1913-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	82	%	32-152
V2A1913-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	94	%	80-119
V2A1913-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	94	%	80-119
V2A1913-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	96	%	79-118
V2A1913-BS	75-34-3	1,1-Dichloroethane	BSP	REC	90	%	77-125
V2A1913-BS	107-06-2	1,2-Dichloroethane	BSP	REC	97	%	73-128
V2A1913-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	94	%	71-131
V2A1913-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	94	%	78-123
V2A1913-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	94	%	75-124
V2A1913-BS	78-87-5	1,2-Dichloropropane	BSP	REC	98	%	78-122
V2A1913-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	96	%	75-124
V2A1913-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	97	%	73-127
V2A1913-BS	100-41-4	Ethylbenzene	BSP	REC	96	%	79-121
V2A1913-BS	76-13-1	Freon 113	BSP	REC	100	%	70-136
V2A1913-BS	591-78-6	2-Hexanone	BSP	REC	106	%	57-139
V2A1913-BS	98-82-8	Isopropylbenzene	BSP	REC	93	%	72-131
V2A1913-BS	79-20-9	Methyl Acetate	BSP	REC	100	%	56-136
V2A1913-BS	74-83-9	Methyl Bromide	BSP	REC	89	%	53-141
V2A1913-BS	74-87-3	Methyl Chloride	BSP	REC	82	%	50-139
V2A1913-BS	108-87-2	Methylcyclohexane	BSP	REC	97	%	72-132
V2A1913-BS	75-09-2	Methylene Chloride	BSP	REC	98	%	74-124
V2A1913-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	104	%	67-130
V2A1913-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	71-124
V2A1913-BS	100-42-5	Styrene	BSP	REC	95	%	78-123
V2A1913-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	96	%	71-121
V2A1913-BS	127-18-4	Tetrachloroethylene	BSP	REC	100	%	74-129
V2A1913-BS	108-88-3	Toluene	BSP	REC	97	%	80-121
V2A1913-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	97	%	69-129
V2A1913-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	96	%	69-130
V2A1913-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	93	%	74-131
V2A1913-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	95	%	80-119
V2A1913-BS	79-01-6	Trichloroethylene	BSP	REC	97	%	79-123
V2A1913-BS	75-69-4	Trichlorofluoromethane	BSP	REC	93	%	65-141
V2A1913-BS	75-01-4	Vinyl Chloride	BSP	REC	81	%	58-137
V2A1913-BS		m,p-Xylene	BSP	REC	93	%	80-121
V2A1913-BS	95-47-6	o-Xylene	BSP	REC	90	%	78-122
V2A1913-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	95	%	80-119
V2A1913-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V2A1913-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	89-112
V2A1913-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	85-114
FC16724-2MS*	67-64-1	Acetone	MS	REC	98	%	39-160

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16724-2MS*	71-43-2	Benzene	MS	REC	94	%	79-120
FC16724-2MS*	74-97-5	Bromochloromethane	MS	REC	94	%	78-123
FC16724-2MS*	75-27-4	Bromodichloromethane	MS	REC	89	%	79-125
FC16724-2MS*	75-25-2	Bromoform	MS	REC	86	%	66-130
FC16724-2MS*	78-93-3	2-Butanone (MEK)	MS	REC	97	%	56-143
FC16724-2MS*	75-15-0	Carbon Disulfide	MS	REC	77	%	64-133
FC16724-2MS*	56-23-5	Carbon Tetrachloride	MS	REC	90	%	72-136
FC16724-2MS*	108-90-7	Chlorobenzene	MS	REC	94	%	82-118
FC16724-2MS*	75-00-3	Chloroethane	MS	REC	88	%	60-138
FC16724-2MS*	67-66-3	Chloroform	MS	REC	98	%	79-124
FC16724-2MS*	110-82-7	Cyclohexane	MS	REC	90	%	71-130
FC16724-2MS*	124-48-1	Dibromochloromethane	MS	REC	96	%	74-126
FC16724-2MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	97	%	62-128
FC16724-2MS*	106-93-4	1,2-Dibromoethane	MS	REC	102	%	77-121
FC16724-2MS*	75-71-8	Dichlorodifluoromethane	MS	REC	76	%	32-152
FC16724-2MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	97	%	80-119
FC16724-2MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	92	%	80-119
FC16724-2MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	94	%	79-118
FC16724-2MS*	75-34-3	1,1-Dichloroethane	MS	REC	90	%	77-125
FC16724-2MS*	107-06-2	1,2-Dichloroethane	MS	REC	99	%	73-128
FC16724-2MS*	75-35-4	1,1-Dichloroethylene	MS	REC	89	%	71-131
FC16724-2MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	92	%	78-123
FC16724-2MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	90	%	75-124
FC16724-2MS*	78-87-5	1,2-Dichloropropane	MS	REC	98	%	78-122
FC16724-2MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	93	%	75-124
FC16724-2MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	90	%	73-127
FC16724-2MS*	100-41-4	Ethylbenzene	MS	REC	92	%	79-121
FC16724-2MS*	76-13-1	Freon 113	MS	REC	94	%	70-136
FC16724-2MS*	591-78-6	2-Hexanone	MS	REC	106	%	57-139
FC16724-2MS*	98-82-8	Isopropylbenzene	MS	REC	89	%	72-131
FC16724-2MS*	79-20-9	Methyl Acetate	MS	REC	102	%	56-136
FC16724-2MS*	74-83-9	Methyl Bromide	MS	REC	68	%	53-141
FC16724-2MS*	74-87-3	Methyl Chloride	MS	REC	78	%	50-139
FC16724-2MS*	108-87-2	Methylcyclohexane	MS	REC	94	%	72-132
FC16724-2MS*	75-09-2	Methylene Chloride	MS	REC	99	%	74-124
FC16724-2MS*	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	105	%	67-130
FC16724-2MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	98	%	71-124
FC16724-2MS*	100-42-5	Styrene	MS	REC	92	%	78-123
FC16724-2MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	94	%	71-121
FC16724-2MS*	127-18-4	Tetrachloroethylene	MS	REC	98	%	74-129
FC16724-2MS*	108-88-3	Toluene	MS	REC	93	%	80-121
FC16724-2MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	95	%	69-129
FC16724-2MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	96	%	69-130
FC16724-2MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	88	%	74-131
FC16724-2MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	95	%	80-119

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16724-2MS*	79-01-6	Trichloroethylene	MS	REC	90	%	79-123
FC16724-2MS*	75-69-4	Trichlorofluoromethane	MS	REC	89	%	65-141
FC16724-2MS*	75-01-4	Vinyl Chloride	MS	REC	77	%	58-137
FC16724-2MS*		m,p-Xylene	MS	REC	90	%	80-121
FC16724-2MS*	95-47-6	o-Xylene	MS	REC	88	%	78-122
FC16724-2MS*	1868-53-7	Dibromofluoromethane	MS	SURR	97	%	80-119
FC16724-2MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FC16724-2MS*	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FC16724-2MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC16724-2MSD*	67-64-1	Acetone	MSD	REC	106	%	39-160
FC16724-2MSD*	67-64-1	Acetone	MSD	RPD	8	%	20
FC16724-2MSD*	71-43-2	Benzene	MSD	REC	90	%	79-120
FC16724-2MSD*	71-43-2	Benzene	MSD	RPD	3	%	20
FC16724-2MSD*	74-97-5	Bromochloromethane	MSD	REC	90	%	78-123
FC16724-2MSD*	74-97-5	Bromochloromethane	MSD	RPD	5	%	20
FC16724-2MSD*	75-27-4	Bromodichloromethane	MSD	REC	85	%	79-125
FC16724-2MSD*	75-27-4	Bromodichloromethane	MSD	RPD	5	%	20
FC16724-2MSD*	75-25-2	Bromoform	MSD	REC	87	%	66-130
FC16724-2MSD*	75-25-2	Bromoform	MSD	RPD	1	%	20
FC16724-2MSD*	78-93-3	2-Butanone (MEK)	MSD	REC	99	%	56-143
FC16724-2MSD*	78-93-3	2-Butanone (MEK)	MSD	RPD	2	%	20
FC16724-2MSD*	75-15-0	Carbon Disulfide	MSD	REC	75	%	64-133
FC16724-2MSD*	75-15-0	Carbon Disulfide	MSD	RPD	3	%	20
FC16724-2MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	89	%	72-136
FC16724-2MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FC16724-2MSD*	108-90-7	Chlorobenzene	MSD	REC	92	%	82-118
FC16724-2MSD*	108-90-7	Chlorobenzene	MSD	RPD	2	%	20
FC16724-2MSD*	75-00-3	Chloroethane	MSD	REC	82	%	60-138
FC16724-2MSD*	75-00-3	Chloroethane	MSD	RPD	7	%	20
FC16724-2MSD*	67-66-3	Chloroform	MSD	REC	97	%	79-124
FC16724-2MSD*	67-66-3	Chloroform	MSD	RPD	2	%	20
FC16724-2MSD*	110-82-7	Cyclohexane	MSD	REC	87	%	71-130
FC16724-2MSD*	110-82-7	Cyclohexane	MSD	RPD	3	%	20
FC16724-2MSD*	124-48-1	Dibromochloromethane	MSD	REC	97	%	74-126
FC16724-2MSD*	124-48-1	Dibromochloromethane	MSD	RPD	1	%	20
FC16724-2MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	97	%	62-128
FC16724-2MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	0	%	20
FC16724-2MSD*	106-93-4	1,2-Dibromoethane	MSD	REC	103	%	77-121
FC16724-2MSD*	106-93-4	1,2-Dibromoethane	MSD	RPD	2	%	20
FC16724-2MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	75	%	32-152
FC16724-2MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	0	%	20
FC16724-2MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	94	%	80-119
FC16724-2MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	3	%	20
FC16724-2MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	90	%	80-119
FC16724-2MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	3	%	20

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16724-2MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	91	%	79-118
FC16724-2MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	3	%	20
FC16724-2MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	85	%	77-125
FC16724-2MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	6	%	20
FC16724-2MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	98	%	73-128
FC16724-2MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	1	%	20
FC16724-2MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	88	%	71-131
FC16724-2MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	1	%	20
FC16724-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	87	%	78-123
FC16724-2MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	5	%	20
FC16724-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	85	%	75-124
FC16724-2MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	6	%	20
FC16724-2MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	95	%	78-122
FC16724-2MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	2	%	20
FC16724-2MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	92	%	75-124
FC16724-2MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	1	%	20
FC16724-2MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	92	%	73-127
FC16724-2MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	2	%	20
FC16724-2MSD*	100-41-4	Ethylbenzene	MSD	REC	89	%	79-121
FC16724-2MSD*	100-41-4	Ethylbenzene	MSD	RPD	4	%	20
FC16724-2MSD*	76-13-1	Freon 113	MSD	REC	93	%	70-136
FC16724-2MSD*	76-13-1	Freon 113	MSD	RPD	1	%	20
FC16724-2MSD*	591-78-6	2-Hexanone	MSD	REC	108	%	57-139
FC16724-2MSD*	591-78-6	2-Hexanone	MSD	RPD	2	%	20
FC16724-2MSD*	98-82-8	Isopropylbenzene	MSD	REC	87	%	72-131
FC16724-2MSD*	98-82-8	Isopropylbenzene	MSD	RPD	2	%	20
FC16724-2MSD*	79-20-9	Methyl Acetate	MSD	REC	102	%	56-136
FC16724-2MSD*	79-20-9	Methyl Acetate	MSD	RPD	0	%	20
FC16724-2MSD*	74-83-9	Methyl Bromide	MSD	REC	80	%	53-141
FC16724-2MSD*	74-83-9	Methyl Bromide	MSD	RPD	16	%	20
FC16724-2MSD*	74-87-3	Methyl Chloride	MSD	REC	74	%	50-139
FC16724-2MSD*	74-87-3	Methyl Chloride	MSD	RPD	5	%	20
FC16724-2MSD*	108-87-2	Methylcyclohexane	MSD	REC	92	%	72-132
FC16724-2MSD*	108-87-2	Methylcyclohexane	MSD	RPD	3	%	20
FC16724-2MSD*	75-09-2	Methylene Chloride	MSD	REC	98	%	74-124
FC16724-2MSD*	75-09-2	Methylene Chloride	MSD	RPD	2	%	20
FC16724-2MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	106	%	67-130
FC16724-2MSD*	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	0	%	20
FC16724-2MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	96	%	71-124
FC16724-2MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	2	%	20
FC16724-2MSD*	100-42-5	Styrene	MSD	REC	92	%	78-123
FC16724-2MSD*	100-42-5	Styrene	MSD	RPD	0	%	20
FC16724-2MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	93	%	71-121
FC16724-2MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	2	%	20
FC16724-2MSD*	127-18-4	Tetrachloroethylene	MSD	REC	99	%	74-129

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16724-2MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	1	%	20
FC16724-2MSD*	108-88-3	Toluene	MSD	REC	91	%	80-121
FC16724-2MSD*	108-88-3	Toluene	MSD	RPD	2	%	20
FC16724-2MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	96	%	69-129
FC16724-2MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	1	%	20
FC16724-2MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	96	%	69-130
FC16724-2MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	0	%	20
FC16724-2MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	85	%	74-131
FC16724-2MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	4	%	20
FC16724-2MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	95	%	80-119
FC16724-2MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	0	%	20
FC16724-2MSD*	79-01-6	Trichloroethylene	MSD	REC	89	%	79-123
FC16724-2MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC16724-2MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	84	%	65-141
FC16724-2MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	6	%	20
FC16724-2MSD*	75-01-4	Vinyl Chloride	MSD	REC	72	%	58-137
FC16724-2MSD*	75-01-4	Vinyl Chloride	MSD	RPD	6	%	20
FC16724-2MSD*		m,p-Xylene	MSD	REC	88	%	80-121
FC16724-2MSD*		m,p-Xylene	MSD	RPD	3	%	20
FC16724-2MSD*	95-47-6	o-Xylene	MSD	REC	87	%	78-122
FC16724-2MSD*	95-47-6	o-Xylene	MSD	RPD	1	%	20
FC16724-2MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	96	%	80-119
FC16724-2MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	100	%	81-118
FC16724-2MSD*	2037-26-5	Toluene-D8	MSD	SURR	101	%	89-112
FC16724-2MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	98	%	85-114
V2A1913-MB	1868-53-7	Dibromofluoromethane	MB	SURR	101	%	80-119
V2A1913-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	99	%	81-118
V2A1913-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	89-112
V2A1913-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	85-114
FC16592-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16592-14	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16592-14	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16592-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16592-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16592-15	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC16592-15	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC16592-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16592-16	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC16592-16	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	102	%	81-118
FC16592-16	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16592-16	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16592-17	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16592-17	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC16592-17	2037-26-5	Toluene-D8	SAMP	SURR	100	%	89-112
FC16592-17	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-18	1868-53-7	Dibromofluoromethane	SAMP	SURR	102	%	80-119
FC16592-18	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	81-118
FC16592-18	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC16592-18	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	85-114
FC16592-19	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16592-19	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16592-19	2037-26-5	Toluene-D8	SAMP	SURR	99	%	89-112
FC16592-19	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
FC16592-20	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	80-119
FC16592-20	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	100	%	81-118
FC16592-20	2037-26-5	Toluene-D8	SAMP	SURR	101	%	89-112
FC16592-20	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	85-114
V5E2118	SW846 8260D						
V5E2118-BS	67-64-1	Acetone	BSP	REC	107	%	39-160
V5E2118-BS	71-43-2	Benzene	BSP	REC	99	%	79-120
V5E2118-BS	74-97-5	Bromochloromethane	BSP	REC	104	%	78-123
V5E2118-BS	75-27-4	Bromodichloromethane	BSP	REC	102	%	79-125
V5E2118-BS	75-25-2	Bromoform	BSP	REC	104	%	66-130
V5E2118-BS	78-93-3	2-Butanone (MEK)	BSP	REC	89	%	56-143
V5E2118-BS	75-15-0	Carbon Disulfide	BSP	REC	88	%	64-133
V5E2118-BS	56-23-5	Carbon Tetrachloride	BSP	REC	95	%	72-136
V5E2118-BS	108-90-7	Chlorobenzene	BSP	REC	100	%	82-118
V5E2118-BS	75-00-3	Chloroethane	BSP	REC	122	%	60-138
V5E2118-BS	67-66-3	Chloroform	BSP	REC	103	%	79-124
V5E2118-BS	110-82-7	Cyclohexane	BSP	REC	105	%	71-130
V5E2118-BS	124-48-1	Dibromochloromethane	BSP	REC	96	%	74-126
V5E2118-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	101	%	62-128
V5E2118-BS	106-93-4	1,2-Dibromoethane	BSP	REC	96	%	77-121
V5E2118-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	91	%	32-152
V5E2118-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	101	%	80-119
V5E2118-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	99	%	80-119
V5E2118-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	100	%	79-118
V5E2118-BS	75-34-3	1,1-Dichloroethane	BSP	REC	100	%	77-125
V5E2118-BS	107-06-2	1,2-Dichloroethane	BSP	REC	102	%	73-128
V5E2118-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	106	%	71-131
V5E2118-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	100	%	78-123
V5E2118-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	104	%	75-124
V5E2118-BS	78-87-5	1,2-Dichloropropane	BSP	REC	108	%	78-122
V5E2118-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	93	%	75-124
V5E2118-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	89	%	73-127
V5E2118-BS	100-41-4	Ethylbenzene	BSP	REC	97	%	79-121
V5E2118-BS	76-13-1	Freon 113	BSP	REC	100	%	70-136
V5E2118-BS	591-78-6	2-Hexanone	BSP	REC	100	%	57-139

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V5E2118-BS	98-82-8	Isopropylbenzene	BSP	REC	104	%	72-131
V5E2118-BS	79-20-9	Methyl Acetate	BSP	REC	94	%	56-136
V5E2118-BS	74-83-9	Methyl Bromide	BSP	REC	98	%	53-141
V5E2118-BS	74-87-3	Methyl Chloride	BSP	REC	90	%	50-139
V5E2118-BS	108-87-2	Methylcyclohexane	BSP	REC	95	%	72-132
V5E2118-BS	75-09-2	Methylene Chloride	BSP	REC	104	%	74-124
V5E2118-BS	108-10-1	4-Methyl-2-pentanone (MIBK)	BSP	REC	104	%	67-130
V5E2118-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	98	%	71-124
V5E2118-BS	100-42-5	Styrene	BSP	REC	99	%	78-123
V5E2118-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	104	%	71-121
V5E2118-BS	127-18-4	Tetrachloroethylene	BSP	REC	102	%	74-129
V5E2118-BS	108-88-3	Toluene	BSP	REC	99	%	80-121
V5E2118-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	103	%	69-129
V5E2118-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	105	%	69-130
V5E2118-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	101	%	74-131
V5E2118-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	104	%	80-119
V5E2118-BS	79-01-6	Trichloroethylene	BSP	REC	101	%	79-123
V5E2118-BS	75-69-4	Trichlorofluoromethane	BSP	REC	90	%	65-141
V5E2118-BS	75-01-4	Vinyl Chloride	BSP	REC	86	%	58-137
V5E2118-BS		m,p-Xylene	BSP	REC	98	%	80-121
V5E2118-BS	95-47-6	o-Xylene	BSP	REC	98	%	78-122
V5E2118-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	98	%	80-119
V5E2118-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	100	%	81-118
V5E2118-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	89-112
V5E2118-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	85-114
FC16592-2MS	67-64-1	Acetone	MS	REC	99	%	39-160
FC16592-2MS	71-43-2	Benzene	MS	REC	102	%	79-120
FC16592-2MS	74-97-5	Bromochloromethane	MS	REC	108	%	78-123
FC16592-2MS	75-27-4	Bromodichloromethane	MS	REC	99	%	79-125
FC16592-2MS	75-25-2	Bromoform	MS	REC	91	%	66-130
FC16592-2MS	78-93-3	2-Butanone (MEK)	MS	REC	89	%	56-143
FC16592-2MS	75-15-0	Carbon Disulfide	MS	REC	80	%	64-133
FC16592-2MS	56-23-5	Carbon Tetrachloride	MS	REC	90	%	72-136
FC16592-2MS	108-90-7	Chlorobenzene	MS	REC	100	%	82-118
FC16592-2MS	75-00-3	Chloroethane	MS	REC	86	%	60-138
FC16592-2MS	67-66-3	Chloroform	MS	REC	106	%	79-124
FC16592-2MS	110-82-7	Cyclohexane	MS	REC	110	%	71-130
FC16592-2MS	124-48-1	Dibromochloromethane	MS	REC	90	%	74-126
FC16592-2MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	84	%	62-128
FC16592-2MS	106-93-4	1,2-Dibromoethane	MS	REC	98	%	77-121
FC16592-2MS	75-71-8	Dichlorodifluoromethane	MS	REC	90	%	32-152
FC16592-2MS	95-50-1	1,2-Dichlorobenzene	MS	REC	102	%	80-119
FC16592-2MS	541-73-1	1,3-Dichlorobenzene	MS	REC	99	%	80-119
FC16592-2MS	106-46-7	1,4-Dichlorobenzene	MS	REC	98	%	79-118
FC16592-2MS	75-34-3	1,1-Dichloroethane	MS	REC	102	%	77-125

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MS	107-06-2	1,2-Dichloroethane	MS	REC	109	%	73-128
FC16592-2MS	75-35-4	1,1-Dichloroethylene	MS	REC	105	%	71-131
FC16592-2MS	156-59-2	cis-1,2-Dichloroethylene	MS	REC	95	%	78-123
FC16592-2MS	156-60-5	trans-1,2-Dichloroethylene	MS	REC	103	%	75-124
FC16592-2MS	78-87-5	1,2-Dichloropropane	MS	REC	113	%	78-122
FC16592-2MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	84	%	75-124
FC16592-2MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	82	%	73-127
FC16592-2MS	100-41-4	Ethylbenzene	MS	REC	96	%	79-121
FC16592-2MS	76-13-1	Freon 113	MS	REC	98	%	70-136
FC16592-2MS	591-78-6	2-Hexanone	MS	REC	98	%	57-139
FC16592-2MS	98-82-8	Isopropylbenzene	MS	REC	99	%	72-131
FC16592-2MS	79-20-9	Methyl Acetate	MS	REC	99	%	56-136
FC16592-2MS	74-83-9	Methyl Bromide	MS	REC	56	%	53-141
FC16592-2MS	74-87-3	Methyl Chloride	MS	REC	92	%	50-139
FC16592-2MS	108-87-2	Methylcyclohexane	MS	REC	98	%	72-132
FC16592-2MS	75-09-2	Methylene Chloride	MS	REC	107	%	74-124
FC16592-2MS	108-10-1	4-Methyl-2-pentanone (MIBK)	MS	REC	108	%	67-130
FC16592-2MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	102	%	71-124
FC16592-2MS	100-42-5	Styrene	MS	REC	99	%	78-123
FC16592-2MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	106	%	71-121
FC16592-2MS	127-18-4	Tetrachloroethylene	MS	REC	98	%	74-129
FC16592-2MS	108-88-3	Toluene	MS	REC	97	%	80-121
FC16592-2MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	98	%	69-129
FC16592-2MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	99	%	69-130
FC16592-2MS	71-55-6	1,1,1-Trichloroethane	MS	REC	104	%	74-131
FC16592-2MS	79-00-5	1,1,2-Trichloroethane	MS	REC	109	%	80-119
FC16592-2MS	79-01-6	Trichloroethylene	MS	REC	96	%	79-123
FC16592-2MS	75-69-4	Trichlorofluoromethane	MS	REC	85	%	65-141
FC16592-2MS	75-01-4	Vinyl Chloride	MS	REC	86	%	58-137
FC16592-2MS		m,p-Xylene	MS	REC	95	%	80-121
FC16592-2MS	95-47-6	o-Xylene	MS	REC	95	%	78-122
FC16592-2MS	1868-53-7	Dibromofluoromethane	MS	SURR	96	%	80-119
FC16592-2MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	81-118
FC16592-2MS	2037-26-5	Toluene-D8	MS	SURR	100	%	89-112
FC16592-2MS	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	85-114
FC16592-2MSD	67-64-1	Acetone	MSD	REC	89	%	39-160
FC16592-2MSD	67-64-1	Acetone	MSD	RPD	10	%	20
FC16592-2MSD	71-43-2	Benzene	MSD	REC	100	%	79-120
FC16592-2MSD	71-43-2	Benzene	MSD	RPD	2	%	20
FC16592-2MSD	74-97-5	Bromochloromethane	MSD	REC	108	%	78-123
FC16592-2MSD	74-97-5	Bromochloromethane	MSD	RPD	0	%	20
FC16592-2MSD	75-27-4	Bromodichloromethane	MSD	REC	97	%	79-125
FC16592-2MSD	75-27-4	Bromodichloromethane	MSD	RPD	2	%	20
FC16592-2MSD	75-25-2	Bromoform	MSD	REC	89	%	66-130
FC16592-2MSD	75-25-2	Bromoform	MSD	RPD	3	%	20

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MSD	78-93-3	2-Butanone (MEK)	MSD	REC	85	%	56-143
FC16592-2MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	5	%	20
FC16592-2MSD	75-15-0	Carbon Disulfide	MSD	REC	80	%	64-133
FC16592-2MSD	75-15-0	Carbon Disulfide	MSD	RPD	0	%	20
FC16592-2MSD	56-23-5	Carbon Tetrachloride	MSD	REC	91	%	72-136
FC16592-2MSD	56-23-5	Carbon Tetrachloride	MSD	RPD	1	%	20
FC16592-2MSD	108-90-7	Chlorobenzene	MSD	REC	100	%	82-118
FC16592-2MSD	108-90-7	Chlorobenzene	MSD	RPD	0	%	20
FC16592-2MSD	75-00-3	Chloroethane	MSD	REC	92	%	60-138
FC16592-2MSD	75-00-3	Chloroethane	MSD	RPD	6	%	20
FC16592-2MSD	67-66-3	Chloroform	MSD	REC	103	%	79-124
FC16592-2MSD	67-66-3	Chloroform	MSD	RPD	2	%	20
FC16592-2MSD	110-82-7	Cyclohexane	MSD	REC	110	%	71-130
FC16592-2MSD	110-82-7	Cyclohexane	MSD	RPD	0	%	20
FC16592-2MSD	124-48-1	Dibromochloromethane	MSD	REC	93	%	74-126
FC16592-2MSD	124-48-1	Dibromochloromethane	MSD	RPD	3	%	20
FC16592-2MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	83	%	62-128
FC16592-2MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	1	%	20
FC16592-2MSD	106-93-4	1,2-Dibromoethane	MSD	REC	94	%	77-121
FC16592-2MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	4	%	20
FC16592-2MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	86	%	32-152
FC16592-2MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	5	%	20
FC16592-2MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	104	%	80-119
FC16592-2MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	2	%	20
FC16592-2MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	98	%	80-119
FC16592-2MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	1	%	20
FC16592-2MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	102	%	79-118
FC16592-2MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	3	%	20
FC16592-2MSD	75-34-3	1,1-Dichloroethane	MSD	REC	100	%	77-125
FC16592-2MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	2	%	20
FC16592-2MSD	107-06-2	1,2-Dichloroethane	MSD	REC	104	%	73-128
FC16592-2MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	5	%	20
FC16592-2MSD	75-35-4	1,1-Dichloroethylene	MSD	REC	106	%	71-131
FC16592-2MSD	75-35-4	1,1-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	94	%	78-123
FC16592-2MSD	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	102	%	75-124
FC16592-2MSD	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	1	%	20
FC16592-2MSD	78-87-5	1,2-Dichloropropane	MSD	REC	113	%	78-122
FC16592-2MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	0	%	20
FC16592-2MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	86	%	75-124
FC16592-2MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	2	%	20
FC16592-2MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	81	%	73-127
FC16592-2MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	2	%	20
FC16592-2MSD	100-41-4	Ethylbenzene	MSD	REC	95	%	79-121

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MSD	100-41-4	Ethylbenzene	MSD	RPD	1	%	20
FC16592-2MSD	76-13-1	Freon 113	MSD	REC	95	%	70-136
FC16592-2MSD	76-13-1	Freon 113	MSD	RPD	2	%	20
FC16592-2MSD	591-78-6	2-Hexanone	MSD	REC	97	%	57-139
FC16592-2MSD	591-78-6	2-Hexanone	MSD	RPD	1	%	20
FC16592-2MSD	98-82-8	Isopropylbenzene	MSD	REC	101	%	72-131
FC16592-2MSD	98-82-8	Isopropylbenzene	MSD	RPD	2	%	20
FC16592-2MSD	79-20-9	Methyl Acetate	MSD	REC	93	%	56-136
FC16592-2MSD	79-20-9	Methyl Acetate	MSD	RPD	6	%	20
FC16592-2MSD	74-83-9	Methyl Bromide	MSD	REC	74	%	53-141
FC16592-2MSD	74-83-9	Methyl Bromide	MSD	RPD	26	%	20
FC16592-2MSD	74-87-3	Methyl Chloride	MSD	REC	94	%	50-139
FC16592-2MSD	74-87-3	Methyl Chloride	MSD	RPD	2	%	20
FC16592-2MSD	108-87-2	Methylcyclohexane	MSD	REC	94	%	72-132
FC16592-2MSD	108-87-2	Methylcyclohexane	MSD	RPD	4	%	20
FC16592-2MSD	75-09-2	Methylene Chloride	MSD	REC	106	%	74-124
FC16592-2MSD	75-09-2	Methylene Chloride	MSD	RPD	2	%	20
FC16592-2MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	REC	104	%	67-130
FC16592-2MSD	108-10-1	4-Methyl-2-pentanone (MIBK)	MSD	RPD	3	%	20
FC16592-2MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	102	%	71-124
FC16592-2MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	0	%	20
FC16592-2MSD	100-42-5	Styrene	MSD	REC	98	%	78-123
FC16592-2MSD	100-42-5	Styrene	MSD	RPD	2	%	20
FC16592-2MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	106	%	71-121
FC16592-2MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	20
FC16592-2MSD	127-18-4	Tetrachloroethylene	MSD	REC	96	%	74-129
FC16592-2MSD	127-18-4	Tetrachloroethylene	MSD	RPD	2	%	20
FC16592-2MSD	108-88-3	Toluene	MSD	REC	98	%	80-121
FC16592-2MSD	108-88-3	Toluene	MSD	RPD	1	%	20
FC16592-2MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	101	%	69-129
FC16592-2MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	3	%	20
FC16592-2MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	104	%	69-130
FC16592-2MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	5	%	20
FC16592-2MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	98	%	74-131
FC16592-2MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	6	%	20
FC16592-2MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	105	%	80-119
FC16592-2MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	4	%	20
FC16592-2MSD	79-01-6	Trichloroethylene	MSD	REC	94	%	79-123
FC16592-2MSD	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC16592-2MSD	75-69-4	Trichlorofluoromethane	MSD	REC	83	%	65-141
FC16592-2MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	2	%	20
FC16592-2MSD	75-01-4	Vinyl Chloride	MSD	REC	84	%	58-137
FC16592-2MSD	75-01-4	Vinyl Chloride	MSD	RPD	2	%	20
FC16592-2MSD		m,p-Xylene	MSD	REC	96	%	80-121
FC16592-2MSD		m,p-Xylene	MSD	RPD	1	%	20

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-2MSD	95-47-6	o-Xylene	MSD	REC	96	%	78-122
FC16592-2MSD	95-47-6	o-Xylene	MSD	RPD	1	%	20
FC16592-2MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	97	%	80-119
FC16592-2MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	102	%	81-118
FC16592-2MSD	2037-26-5	Toluene-D8	MSD	SURR	99	%	89-112
FC16592-2MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	101	%	85-114
V5E2118-MB	1868-53-7	Dibromofluoromethane	MB	SURR	96	%	80-119
V5E2118-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	95	%	81-118
V5E2118-MB	2037-26-5	Toluene-D8	MB	SURR	106	%	89-112
V5E2118-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	108	%	85-114
FC16592-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16592-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-1	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16592-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	109	%	85-114
FC16592-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16592-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-2	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16592-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC16592-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-3	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC16592-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC16592-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-4	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
FC16592-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	104	%	85-114
FC16592-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16592-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	81-118
FC16592-5	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16592-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16592-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	81-118
FC16592-6	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16592-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16592-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC16592-7	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16592-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	80-119
FC16592-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-8	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC16592-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	110	%	85-114
FC16592-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	95	%	80-119
FC16592-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	95	%	81-118
FC16592-9	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC16592-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	108	%	85-114
FC16592-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16592-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	93	%	81-118
FC16592-10	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16592-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	85-114
FC16592-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16592-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC16592-11	2037-26-5	Toluene-D8	SAMP	SURR	107	%	89-112
FC16592-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	85-114
FC16592-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	80-119
FC16592-12	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	81-118
FC16592-12	2037-26-5	Toluene-D8	SAMP	SURR	106	%	89-112
FC16592-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	85-114
FC16592-13	1868-53-7	Dibromofluoromethane	SAMP	SURR	94	%	80-119
FC16592-13	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	81-118
FC16592-13	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC16592-13	460-00-4	4-Bromofluorobenzene	SAMP	SURR	107	%	85-114
GLL3144	RSKSOP-147/175						
GLL3144-BS	74-82-8	Methane	BSP	REC	98	%	73-125
GLL3144-BS	74-84-0	Ethane	BSP	REC	98	%	74-131
GLL3144-BS	74-85-1	Ethene	BSP	REC	102	%	72-133
GLL3144-BSD	74-82-8	Methane	BSD	REC	101	%	73-125
GLL3144-BSD	74-82-8	Methane	BSD	RPD	3	%	30
GLL3144-BSD	74-84-0	Ethane	BSD	REC	101	%	74-131
GLL3144-BSD	74-84-0	Ethane	BSD	RPD	3	%	30
GLL3144-BSD	74-85-1	Ethene	BSD	REC	104	%	72-133
GLL3144-BSD	74-85-1	Ethene	BSD	RPD	2	%	30
FC16561-5MS*	74-82-8	Methane	MS	REC	97	%	73-125
FC16561-5MS*	74-84-0	Ethane	MS	REC	98	%	74-131
FC16561-5MS*	74-85-1	Ethene	MS	REC	102	%	72-133
FC16561-5DUP*	74-82-8	Methane	DUP	RPD	200	%	30
FC16561-5DUP*	74-84-0	Ethane	DUP	RPD	0	%	30
FC16561-5DUP*	74-85-1	Ethene	DUP	RPD	0	%	30
GLL3145	RSKSOP-147/175						
GLL3145-BS	74-82-8	Methane	BSP	REC	94	%	73-125
GLL3145-BSD	74-82-8	Methane	BSD	REC	102	%	73-125
GLL3145-BSD	74-82-8	Methane	BSD	RPD	8	%	30
FC16768-1MS*	74-82-8	Methane	MS	REC	93	%	73-125
FC16768-6DUP*	74-82-8	Methane	DUP	RPD	200	%	30

* Sample used for QC is not from job FC16592

QC Evaluation: DOD QSM5.x Limits

Job Number: FC16592
Account: EA Engineering
Project: Former Seneca Army Depot; Romulus, NY
Collected: 06/19/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
GP40153	EPA 300/SW846 9056A						
GP40153-B1	16887-00-6	Chloride	BSP	REC	103.8	%	87-111
GP40153-B1	14797-55-8	Nitrogen, Nitrate	BSP	REC	100.4	%	88-111
GP40153-B1	14808-79-8	Sulfate	BSP	REC	101.2	%	87-112
GP40153-S1*	16887-00-6	Chloride	MS	REC	104.2	%	87-111
GP40153-S1*	14797-55-8	Nitrogen, Nitrate	MS	REC	100.3	%	88-111
GP40153-S1*	14808-79-8	Sulfate	MS	REC	98	%	87-112
GP40153-S2*	16887-00-6	Chloride	MSD	RPD	0	%	15
GP40153-S2*	16887-00-6	Chloride	MSD	REC	104.2	%	87-111
GP40153-S2*	14797-55-8	Nitrogen, Nitrate	MSD	RPD	0	%	15
GP40153-S2*	14797-55-8	Nitrogen, Nitrate	MSD	REC	100.3	%	88-111
GP40153-S2*	14808-79-8	Sulfate	MSD	RPD	0	%	15
GP40153-S2*	14808-79-8	Sulfate	MSD	REC	98	%	87-112

* Sample used for QC is not from job FC16592

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1913-MB [a]	2A56357.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.39	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
76-13-1	Freon 113	ND	1.0	0.48	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.44	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1913-MB [a]	2A56357.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	2.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-MB [a]	5E47523.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.45	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.41	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.36	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.67	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.39	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.26	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.34	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.43	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
76-13-1	Freon 113	ND	1.0	0.48	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.22	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.44	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-MB [a]	5E47523.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.47	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.41	ug/l	
	m,p-Xylene	ND	2.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

(a) Sample was treated with an anti-foaming agent.

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1O3089-MB [a]	1O85456.D	1	07/01/24	JW	n/a	n/a	V1O3089

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

(a) Sample was treated with an anti-foaming agent.

Blank Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1913-BS	2A56355.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	132	106	50-147
71-43-2	Benzene	25	24.1	96	81-122
74-97-5	Bromochloromethane	25	22.7	91	76-123
75-27-4	Bromodichloromethane	25	22.1	88	79-123
75-25-2	Bromoform	25	24.0	96	66-123
78-93-3	2-Butanone (MEK)	125	120	96	56-143
75-15-0	Carbon Disulfide	25	21.2	85	66-148
56-23-5	Carbon Tetrachloride	25	24.1	96	76-136
108-90-7	Chlorobenzene	25	23.9	96	82-124
75-00-3	Chloroethane	25	22.7	91	62-144
67-66-3	Chloroform	25	25.1	100	80-124
110-82-7	Cyclohexane	25	23.5	94	73-138
124-48-1	Dibromochloromethane	25	25.1	100	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	24.9	100	64-123
106-93-4	1,2-Dibromoethane	25	25.4	102	75-120
75-71-8	Dichlorodifluoromethane	25	20.4	82	42-167
95-50-1	1,2-Dichlorobenzene	25	23.6	94	82-124
541-73-1	1,3-Dichlorobenzene	25	23.4	94	84-125
106-46-7	1,4-Dichlorobenzene	25	23.9	96	78-120
75-34-3	1,1-Dichloroethane	25	22.5	90	81-122
107-06-2	1,2-Dichloroethane	25	24.2	97	75-125
75-35-4	1,1-Dichloroethylene	25	23.4	94	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.6	94	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.6	94	76-127
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.1	96	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.2	97	80-120
100-41-4	Ethylbenzene	25	24.0	96	81-121
76-13-1	Freon 113	25	25.1	100	72-134
591-78-6	2-Hexanone	125	133	106	61-129
98-82-8	Isopropylbenzene	25	23.2	93	83-132
79-20-9	Methyl Acetate	125	125	100	65-126
74-83-9	Methyl Bromide	25	22.2	89	59-143
74-87-3	Methyl Chloride	25	20.4	82	50-159
108-87-2	Methylcyclohexane	25	24.2	97	76-129
75-09-2	Methylene Chloride	25	24.4	98	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A1913-BS	2A56355.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	130	104	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.4	98	72-117
100-42-5	Styrene	25	23.7	95	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	24.0	96	72-120
127-18-4	Tetrachloroethylene	25	25.1	100	76-135
108-88-3	Toluene	25	24.2	97	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.3	97	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.1	96	73-129
71-55-6	1,1,1-Trichloroethane	25	23.2	93	75-130
79-00-5	1,1,2-Trichloroethane	25	23.7	95	76-119
79-01-6	Trichloroethylene	25	24.2	97	81-126
75-69-4	Trichlorofluoromethane	25	23.3	93	71-156
75-01-4	Vinyl Chloride	25	20.2	81	69-159
	m,p-Xylene	50	46.7	93	79-126
95-47-6	o-Xylene	25	22.6	90	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-BS	5E47521.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	134	107	50-147
71-43-2	Benzene	25	24.7	99	81-122
74-97-5	Bromochloromethane	25	26.1	104	76-123
75-27-4	Bromodichloromethane	25	25.4	102	79-123
75-25-2	Bromoform	25	26.0	104	66-123
78-93-3	2-Butanone (MEK)	125	111	89	56-143
75-15-0	Carbon Disulfide	25	21.9	88	66-148
56-23-5	Carbon Tetrachloride	25	23.7	95	76-136
108-90-7	Chlorobenzene	25	25.0	100	82-124
75-00-3	Chloroethane	25	30.4	122	62-144
67-66-3	Chloroform	25	25.8	103	80-124
110-82-7	Cyclohexane	25	26.2	105	73-138
124-48-1	Dibromochloromethane	25	24.1	96	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.2	101	64-123
106-93-4	1,2-Dibromoethane	25	24.0	96	75-120
75-71-8	Dichlorodifluoromethane	25	22.8	91	42-167
95-50-1	1,2-Dichlorobenzene	25	25.2	101	82-124
541-73-1	1,3-Dichlorobenzene	25	24.8	99	84-125
106-46-7	1,4-Dichlorobenzene	25	25.0	100	78-120
75-34-3	1,1-Dichloroethane	25	24.9	100	81-122
107-06-2	1,2-Dichloroethane	25	25.4	102	75-125
75-35-4	1,1-Dichloroethylene	25	26.4	106	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	76-127
78-87-5	1,2-Dichloropropane	25	27.0	108	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	75-118
10061-02-6	trans-1,3-Dichloropropene	25	22.2	89	80-120
100-41-4	Ethylbenzene	25	24.2	97	81-121
76-13-1	Freon 113	25	24.9	100	72-134
591-78-6	2-Hexanone	125	125	100	61-129
98-82-8	Isopropylbenzene	25	25.9	104	83-132
79-20-9	Methyl Acetate	125	117	94	65-126
74-83-9	Methyl Bromide	25	24.4	98	59-143
74-87-3	Methyl Chloride	25	22.6	90	50-159
108-87-2	Methylcyclohexane	25	23.8	95	76-129
75-09-2	Methylene Chloride	25	26.0	104	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5E2118-BS	5E47521.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	130	104	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.5	98	72-117
100-42-5	Styrene	25	24.7	99	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	26.0	104	72-120
127-18-4	Tetrachloroethylene	25	25.4	102	76-135
108-88-3	Toluene	25	24.7	99	80-120
87-61-6	1,2,3-Trichlorobenzene	25	25.7	103	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.2	105	73-129
71-55-6	1,1,1-Trichloroethane	25	25.3	101	75-130
79-00-5	1,1,2-Trichloroethane	25	26.1	104	76-119
79-01-6	Trichloroethylene	25	25.3	101	81-126
75-69-4	Trichlorofluoromethane	25	22.5	90	71-156
75-01-4	Vinyl Chloride	25	21.5	86	69-159
	m,p-Xylene	50	48.8	98	79-126
95-47-6	o-Xylene	25	24.4	98	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1O3089-BS	1O85454.D	1	07/01/24	JW	n/a	n/a	V1O3089

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	78-120
79-01-6	Trichloroethylene	25	25.7	103	81-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16724-2MS	2A56378.D	5	06/27/24	JW	n/a	n/a	V2A1913
FC16724-2MSD	2A56379.D	5	06/27/24	JW	n/a	n/a	V2A1913
FC16724-2 [a]	2A56360.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	FC16724-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		625	614	98	625	665	106	8	50-147/21
71-43-2	Benzene	1.0 U		125	117	94	125	113	90	3	81-122/14
74-97-5	Bromochloromethane	1.0 U		125	118	94	125	112	90	5	76-123/14
75-27-4	Bromodichloromethane	1.0 U		125	111	89	125	106	85	5	79-123/19
75-25-2	Bromoform	1.0 U		125	108	86	125	109	87	1	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		625	607	97	625	619	99	2	56-143/18
75-15-0	Carbon Disulfide	2.0 U		125	96.6	77	125	93.3	75	3	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		125	112	90	125	111	89	1	76-136/23
108-90-7	Chlorobenzene	1.0 U		125	117	94	125	115	92	2	82-124/14
75-00-3	Chloroethane	2.0 U		125	110	88	125	103	82	7	62-144/20
67-66-3	Chloroform	1.0 U		125	123	98	125	121	97	2	80-124/15
110-82-7	Cyclohexane	1.0 U		125	112	90	125	109	87	3	73-138/18
124-48-1	Dibromochloromethane	1.0 U		125	120	96	125	121	97	1	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		125	121	97	125	121	97	0	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		125	127	102	125	129	103	2	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		125	94.5	76	125	94.1	75	0	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		125	121	97	125	117	94	3	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		125	115	92	125	112	90	3	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		125	117	94	125	114	91	3	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		125	112	90	125	106	85	6	81-122/15
107-06-2	1,2-Dichloroethane	1.0 U		125	124	99	125	123	98	1	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		125	111	89	125	110	88	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.37	J	125	115	92	125	109	87	5	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0 U		125	112	90	125	106	85	6	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		125	122	98	125	119	95	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		125	116	93	125	115	92	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		125	113	90	125	115	92	2	80-120/22
100-41-4	Ethylbenzene	1.0 U		125	115	92	125	111	89	4	81-121/14
76-13-1	Freon 113	1.0 U		125	117	94	125	116	93	1	72-134/20
591-78-6	2-Hexanone	10 U		625	661	106	625	676	108	2	61-129/18
98-82-8	Isopropylbenzene	1.0 U		125	111	89	125	109	87	2	83-132/15
79-20-9	Methyl Acetate	20 U		625	636	102	625	636	102	0	65-126/18
74-83-9	Methyl Bromide	5.0 U		125	84.6	68	125	99.4	80	16	59-143/19
74-87-3	Methyl Chloride	2.0 U		125	97.2	78	125	92.8	74	5	50-159/19
108-87-2	Methylcyclohexane	1.0 U		125	118	94	125	115	92	3	76-129/17
75-09-2	Methylene Chloride	5.0 U		125	124	99	125	122	98	2	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16724-2MS	2A56378.D	5	06/27/24	JW	n/a	n/a	V2A1913
FC16724-2MSD	2A56379.D	5	06/27/24	JW	n/a	n/a	V2A1913
FC16724-2 [a]	2A56360.D	1	06/27/24	JW	n/a	n/a	V2A1913

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-14, FC16592-15, FC16592-16, FC16592-17, FC16592-18, FC16592-19, FC16592-20

CAS No.	Compound	FC16724-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		625	659	105	625	660	106	0	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		125	123	98	125	120	96	2	72-117/14
100-42-5	Styrene	1.0 U		125	115	92	125	115	92	0	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		125	118	94	125	116	93	2	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		125	123	98	125	124	99	1	76-135/16
108-88-3	Toluene	1.0 U		125	116	93	125	114	91	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		125	119	95	125	120	96	1	68-131/25
120-82-1	1,2,4-Trichlorobenzene	2.0 U		125	120	96	125	120	96	0	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		125	110	88	125	106	85	4	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		125	119	95	125	119	95	0	76-119/14
79-01-6	Trichloroethylene	1.0 U		125	113	90	125	111	89	2	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		125	111	89	125	105	84	6	71-156/21
75-01-4	Vinyl Chloride	1.0 U		125	95.8	77	125	90.6	72	6	69-159/18
	m,p-Xylene	2.0 U		250	225	90	250	219	88	3	79-126/15
95-47-6	o-Xylene	1.0 U		125	110	88	125	109	87	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FC16724-2	Limits
1868-53-7	Dibromofluoromethane	97%	96%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	100%	99%	79-125%
2037-26-5	Toluene-D8	100%	101%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	98%	83-118%

(a) Sample was not preserved to a pH < 2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16592-2MS	5E47544.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2MSD	5E47545.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2	5E47525.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	FC16592-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		625	619	99	625	559	89	10	50-147/21
71-43-2	Benzene	1.0 U		125	128	102	125	125	100	2	81-122/14
74-97-5	Bromochloromethane	1.0 U		125	135	108	125	135	108	0	76-123/14
75-27-4	Bromodichloromethane	1.0 U		125	124	99	125	121	97	2	79-123/19
75-25-2	Bromoform	1.0 U		125	114	91	125	111	89	3	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		625	558	89	625	531	85	5	56-143/18
75-15-0	Carbon Disulfide	2.0 U		125	99.9	80	125	100	80	0	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		125	113	90	125	114	91	1	76-136/23
108-90-7	Chlorobenzene	1.0 U		125	125	100	125	125	100	0	82-124/14
75-00-3	Chloroethane	2.0 U		125	108	86	125	115	92	6	62-144/20
67-66-3	Chloroform	1.0 U		125	132	106	125	129	103	2	80-124/15
110-82-7	Cyclohexane	1.0 U		125	137	110	125	137	110	0	73-138/18
124-48-1	Dibromochloromethane	1.0 U		125	113	90	125	116	93	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		125	105	84	125	104	83	1	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		125	123	98	125	118	94	4	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		125	112	90	125	107	86	5	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		125	128	102	125	130	104	2	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		125	124	99	125	123	98	1	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		125	123	98	125	127	102	3	78-120/15
75-34-3	1,1-Dichloroethane	1.0 U		125	128	102	125	125	100	2	81-122/15
107-06-2	1,2-Dichloroethane	1.3		125	138	109	125	131	104	5	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		125	131	105	125	132	106	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	29.1		125	148	95	125	146	94	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.88	J	125	130	103	125	129	102	1	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		125	141	113	125	141	113	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		125	105	84	125	107	86	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		125	103	82	125	101	81	2	80-120/22
100-41-4	Ethylbenzene	1.0 U		125	120	96	125	119	95	1	81-121/14
76-13-1	Freon 113	1.0 U		125	122	98	125	119	95	2	72-134/20
591-78-6	2-Hexanone	10 U		625	612	98	625	607	97	1	61-129/18
98-82-8	Isopropylbenzene	1.0 U		125	124	99	125	126	101	2	83-132/15
79-20-9	Methyl Acetate	20 U		625	618	99	625	583	93	6	65-126/18
74-83-9	Methyl Bromide	5.0 U		125	70.4	56*	125	91.9	74	26*	59-143/19
74-87-3	Methyl Chloride	2.0 U		125	115	92	125	117	94	2	50-159/19
108-87-2	Methylcyclohexane	1.0 U		125	122	98	125	117	94	4	76-129/17
75-09-2	Methylene Chloride	5.0 U		125	134	107	125	132	106	2	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16592-2MS	5E47544.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2MSD	5E47545.D	5	06/28/24	LT	n/a	n/a	V5E2118
FC16592-2	5E47525.D	1	06/28/24	LT	n/a	n/a	V5E2118

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1, FC16592-2, FC16592-3, FC16592-4, FC16592-5, FC16592-6, FC16592-7, FC16592-8, FC16592-9, FC16592-10, FC16592-11, FC16592-12, FC16592-13

CAS No.	Compound	FC16592-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		625	674	108	625	651	104	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		125	128	102	125	128	102	0	72-117/14
100-42-5	Styrene	1.0 U		125	124	99	125	122	98	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		125	133	106	125	132	106	1	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		125	122	98	125	120	96	2	76-135/16
108-88-3	Toluene	1.0 U		125	121	97	125	122	98	1	80-120/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		125	122	98	125	126	101	3	68-131/25
120-82-1	1,2,4-Trichlorobenzene	2.0 U		125	124	99	125	130	104	5	73-129/20
71-55-6	1,1,1-Trichloroethane	1.0 U		125	130	104	125	123	98	6	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		125	136	109	125	131	105	4	76-119/14
79-01-6	Trichloroethylene	12.5		125	133	96	125	130	94	2	81-126/15
75-69-4	Trichlorofluoromethane	2.0 U		125	106	85	125	104	83	2	71-156/21
75-01-4	Vinyl Chloride	2.0		125	109	86	125	107	84	2	69-159/18
	m,p-Xylene	2.0 U		250	238	95	250	241	96	1	79-126/15
95-47-6	o-Xylene	1.0 U		125	119	95	125	120	96	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FC16592-2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	95%	79-125%
2037-26-5	Toluene-D8	100%	99%	107%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16592-1MS	1O85477.D	10	07/01/24	JW	n/a	n/a	V1O3089
FC16592-1MSD	1O85478.D	10	07/01/24	JW	n/a	n/a	V1O3089
FC16592-1	1O85457.D	10	07/01/24	JW	n/a	n/a	V1O3089

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC16592-1

CAS No.	Compound	FC16592-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	313		250	553	96	250	516	81	7	78-120/15
79-01-6	Trichloroethylene	297		250	507	84	250	488	76*	4	81-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FC16592-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	108%	111%	79-125%
2037-26-5	Toluene-D8	100%	101%	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	103%	101%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-BFB
Lab File ID: 1O84557.D
Instrument ID: GCMS1O
Injection Date: 06/02/24
Injection Time: 09:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	127955	100.0		Pass
96	5.0 - 9.0% of mass 95	8968	7.01		Pass
173	Less than 2.0% of mass 174	675	0.53	(0.82) [a]	Pass
174	50.0 - 200.0% of mass 95	82296	64.3		Pass
175	5.0 - 9.0% of mass 174	6159	4.81	(7.48) [a]	Pass
176	95.0 - 105.0% of mass 174	78965	61.7	(96.0) [a]	Pass
177	5.0 - 10.0% of mass 176	5049	3.95	(6.39) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1O3054-IC3054	1O84558.D	06/02/24	09:26	00:25	Initial cal 1
V1O3054-IC3054	1O84561.D	06/02/24	10:54	01:53	Initial cal 8
V1O3054-IC3054	1O84562.D	06/02/24	11:19	02:18	Initial cal 2
V1O3054-IC3054	1O84563.D	06/02/24	11:45	02:44	Initial cal 3
V1O3054-IC3054	1O84564.D	06/02/24	12:10	03:09	Initial cal 4
V1O3054-ICC3054	1O84565.D	06/02/24	12:35	03:34	Initial cal 5
V1O3054-IC3054	1O84566.D	06/02/24	13:01	04:00	Initial cal 6
V1O3054-IC3054	1O84567.D	06/02/24	13:26	04:25	Initial cal 7
V1O3054-ICV3054	1O84569.D	06/02/24	14:26	05:25	Initial cal verification 5
V1O3054-BS	1O84570.D	06/02/24	14:51	05:50	Blank Spike
V1O3054-MB	1O84572.D	06/02/24	15:42	06:41	Method Blank
FC15887-9	1O84573.D	06/02/24	16:10	07:09	(used for QC only; not part of job FC16592)
ZZZZZZ	1O84574.D	06/02/24	16:35	07:34	(unrelated sample)
ZZZZZZ	1O84575.D	06/02/24	17:01	08:00	(unrelated sample)
ZZZZZZ	1O84576.D	06/02/24	17:26	08:25	(unrelated sample)
ZZZZZZ	1O84577.D	06/02/24	17:51	08:50	(unrelated sample)
ZZZZZZ	1O84578.D	06/02/24	18:17	09:16	(unrelated sample)
ZZZZZZ	1O84579.D	06/02/24	18:42	09:41	(unrelated sample)
FC15887-9MS	1O84580.D	06/02/24	19:07	10:06	Matrix Spike
FC15887-9MSD	1O84581.D	06/02/24	19:33	10:32	Matrix Spike Duplicate
V1O3054-ECC3054	1O84582.D	06/02/24	19:58	10:57	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3089-BFB
Lab File ID: 1O85452.D
Instrument ID: GCMS1O
Injection Date: 07/01/24
Injection Time: 08:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	93963	100.0		Pass
96	5.0 - 9.0% of mass 95	6080	6.47		Pass
173	Less than 2.0% of mass 174	508	0.54	(0.82) [a]	Pass
174	50.0 - 200.0% of mass 95	61989	66.0		Pass
175	5.0 - 9.0% of mass 174	4574	4.87	(7.38) [a]	Pass
176	95.0 - 105.0% of mass 174	59112	62.9	(95.4) [a]	Pass
177	5.0 - 10.0% of mass 176	3993	4.25	(6.75) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1O3089-CC3054	1O85453.D	07/01/24	08:44	00:25	Continuing cal 4
V1O3089-BS	1O85454.D	07/01/24	09:10	00:51	Blank Spike
V1O3089-MB	1O85456.D	07/01/24	10:00	01:41	Method Blank
FC16592-1	1O85457.D	07/01/24	10:28	02:09	SEAD-AL-PT-18A-20240619
ZZZZZZ	1O85458.D	07/01/24	10:54	02:35	(unrelated sample)
ZZZZZZ	1O85459.D	07/01/24	11:19	03:00	(unrelated sample)
ZZZZZZ	1O85460.D	07/01/24	11:45	03:26	(unrelated sample)
ZZZZZZ	1O85461.D	07/01/24	12:10	03:51	(unrelated sample)
ZZZZZZ	1O85462.D	07/01/24	12:35	04:16	(unrelated sample)
ZZZZZZ	1O85463.D	07/01/24	13:01	04:42	(unrelated sample)
ZZZZZZ	1O85464.D	07/01/24	13:26	05:07	(unrelated sample)
ZZZZZZ	1O85465.D	07/01/24	13:51	05:32	(unrelated sample)
ZZZZZZ	1O85466.D	07/01/24	14:17	05:58	(unrelated sample)
ZZZZZZ	1O85467.D	07/01/24	14:42	06:23	(unrelated sample)
ZZZZZZ	1O85468.D	07/01/24	15:07	06:48	(unrelated sample)
ZZZZZZ	1O85470.D	07/01/24	15:58	07:39	(unrelated sample)
ZZZZZZ	1O85471.D	07/01/24	16:24	08:05	(unrelated sample)
ZZZZZZ	1O85472.D	07/01/24	16:56	08:37	(unrelated sample)
ZZZZZZ	1O85473.D	07/01/24	17:15	08:56	(unrelated sample)
ZZZZZZ	1O85474.D	07/01/24	17:40	09:21	(unrelated sample)
ZZZZZZ	1O85475.D	07/01/24	18:05	09:46	(unrelated sample)
ZZZZZZ	1O85476.D	07/01/24	18:31	10:12	(unrelated sample)
FC16592-1MS	1O85477.D	07/01/24	18:56	10:37	Matrix Spike
FC16592-1MSD	1O85478.D	07/01/24	19:21	11:02	Matrix Spike Duplicate
V1O3089-ECC3054	1O85479.D	07/01/24	19:47	11:28	Ending cal 4
V1O3090-CC3054	1O85481.D	07/01/24	20:38	12:19	Continuing cal 4

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample:	V1O3089-BFB	**Injection Date:**	07/01/24
Lab File ID:	1O85452.D	**Injection Time:**	08:19
Instrument ID:	GCMS1O		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1O3090-BS	1O85482.D	07/01/24	21:03	12:44	Blank Spike
FC16863-43MS	1O85483.D	07/01/24	21:29	13:10	Matrix Spike
FC16863-43MSD	1O85484.D	07/01/24	21:54	13:35	Matrix Spike Duplicate
V1O3090-MB	1O85486.D	07/01/24	22:45	14:26	Method Blank
FC16863-43	1O85488.D	07/01/24	23:35	15:16	(used for QC only; not part of job FC16592)
ZZZZZZ	1O85489.D	07/02/24	00:01	15:42	(unrelated sample)
ZZZZZZ	1O85490.D	07/02/24	00:26	16:07	(unrelated sample)
ZZZZZZ	1O85491.D	07/02/24	00:52	16:33	(unrelated sample)
ZZZZZZ	1O85492.D	07/02/24	01:17	16:58	(unrelated sample)
ZZZZZZ	1O85493.D	07/02/24	01:42	17:23	(unrelated sample)
ZZZZZZ	1O85494.D	07/02/24	02:08	17:49	(unrelated sample)
ZZZZZZ	1O85495.D	07/02/24	02:33	18:14	(unrelated sample)
ZZZZZZ	1O85496.D	07/02/24	02:58	18:39	(unrelated sample)
ZZZZZZ	1O85497.D	07/02/24	03:24	19:05	(unrelated sample)
ZZZZZZ	1O85498.D	07/02/24	03:49	19:30	(unrelated sample)
ZZZZZZ	1O85499.D	07/02/24	04:14	19:55	(unrelated sample)
ZZZZZZ	1O85500.D	07/02/24	04:40	20:21	(unrelated sample)
ZZZZZZ	1O85501.D	07/02/24	05:05	20:46	(unrelated sample)
V1O3090-ECC3054	1O85502.D	07/02/24	05:30	21:11	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-BFB
Lab File ID: 2A56264.D
Instrument ID: GCMS2A
Injection Date: 06/25/24
Injection Time: 07:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	77464	100.0		Pass
96	5.0 - 9.0% of mass 95	5256	6.79		Pass
173	Less than 2.0% of mass 174	451	0.58	(0.74) [a]	Pass
174	50.0 - 200.0% of mass 95	60557	78.2		Pass
175	5.0 - 9.0% of mass 174	4463	5.76	(7.37) [a]	Pass
176	95.0 - 105.0% of mass 174	58979	76.1	(97.4) [a]	Pass
177	5.0 - 10.0% of mass 176	3865	4.99	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A1910-IC1910	2A56266.D	06/25/24	08:07	00:39	Initial cal 1
V2A1910-IC1910	2A56268.D	06/25/24	08:39	01:11	Initial cal 8
V2A1910-IC1910	2A56270.D	06/25/24	09:11	01:43	Initial cal 2
V2A1910-IC1910	2A56272.D	06/25/24	09:43	02:15	Initial cal 3
V2A1910-IC1910	2A56274.D	06/25/24	10:15	02:47	Initial cal 4
V2A1910-ICC1910	2A56276.D	06/25/24	10:47	03:19	Initial cal 5
V2A1910-IC1910	2A56278.D	06/25/24	11:19	03:51	Initial cal 6
V2A1910-IC1910	2A56280.D	06/25/24	11:51	04:23	Initial cal 7
V2A1910-ICV1910	2A56284.D	06/25/24	13:01	05:33	Initial cal verification 5
V2A1910-BS	2A56286.D	06/25/24	13:33	06:05	Blank Spike
V2A1910-MB	2A56288.D	06/25/24	14:22	06:54	Method Blank
FC16589-2	2A56290.D	06/25/24	14:57	07:29	(used for QC only; not part of job FC16592)
ZZZZZZ	2A56291.D	06/25/24	15:16	07:48	(unrelated sample)
ZZZZZZ	2A56292.D	06/25/24	15:40	08:12	(unrelated sample)
ZZZZZZ	2A56293.D	06/25/24	16:04	08:36	(unrelated sample)
ZZZZZZ	2A56294.D	06/25/24	16:28	09:00	(unrelated sample)
FC16589-2MS	2A56295.D	06/25/24	16:53	09:25	Matrix Spike
FC16589-2MSD	2A56296.D	06/25/24	17:17	09:49	Matrix Spike Duplicate
V2A1910-ECC1910	2A56297.D	06/25/24	17:41	10:13	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1913-BFB
Lab File ID: 2A56353.D
Instrument ID: GCMS2A
Injection Date: 06/27/24
Injection Time: 07:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	63307	100.0		Pass
96	5.0 - 9.0% of mass 95	4146	6.55		Pass
173	Less than 2.0% of mass 174	448	0.71	(0.83) [a]	Pass
174	50.0 - 200.0% of mass 95	54045	85.4		Pass
175	5.0 - 9.0% of mass 174	4071	6.43	(7.53) [a]	Pass
176	95.0 - 105.0% of mass 174	52795	83.4	(97.7) [a]	Pass
177	5.0 - 10.0% of mass 176	3287	5.19	(6.23) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A1913-CC1910	2A56354.D	06/27/24	08:02	00:24	Continuing cal 4
V2A1913-BS	2A56355.D	06/27/24	08:26	00:48	Blank Spike
V2A1913-MB	2A56357.D	06/27/24	09:14	01:36	Method Blank
FC16592-20	2A56358.D	06/27/24	09:39	02:01	TRIP BLANK
ZZZZZZ	2A56359.D	06/27/24	10:03	02:25	(unrelated sample)
FC16724-2	2A56360.D	06/27/24	10:27	02:49	(used for QC only; not part of job FC16592)
ZZZZZZ	2A56361.D	06/27/24	10:51	03:13	(unrelated sample)
ZZZZZZ	2A56362.D	06/27/24	11:16	03:38	(unrelated sample)
ZZZZZZ	2A56363.D	06/27/24	11:40	04:02	(unrelated sample)
ZZZZZZ	2A56364.D	06/27/24	12:03	04:25	(unrelated sample)
ZZZZZZ	2A56365.D	06/27/24	12:27	04:49	(unrelated sample)
ZZZZZZ	2A56366.D	06/27/24	12:51	05:13	(unrelated sample)
ZZZZZZ	2A56367.D	06/27/24	13:15	05:37	(unrelated sample)
ZZZZZZ	2A56368.D	06/27/24	13:39	06:01	(unrelated sample)
ZZZZZZ	2A56369.D	06/27/24	14:04	06:26	(unrelated sample)
ZZZZZZ	2A56370.D	06/27/24	14:28	06:50	(unrelated sample)
ZZZZZZ	2A56371.D	06/27/24	14:52	07:14	(unrelated sample)
FC16592-14	2A56372.D	06/27/24	15:16	07:38	SEAD-AL-MWT-24-20240619
FC16592-15	2A56373.D	06/27/24	15:40	08:02	SEAD-AL-PT-16-20240619
FC16592-16	2A56374.D	06/27/24	16:04	08:26	SEAD-AL-MWT-10-20240619
FC16592-17	2A56375.D	06/27/24	16:28	08:50	SEAD-AL-MWT-1-20240619
FC16592-18	2A56376.D	06/27/24	16:52	09:14	SEAD-AL-MWT-9-20240619
FC16592-19	2A56377.D	06/27/24	17:16	09:38	SEAD-AL-MWT-5-20240619
FC16724-2MS	2A56378.D	06/27/24	17:40	10:02	Matrix Spike
FC16724-2MSD	2A56379.D	06/27/24	18:04	10:26	Matrix Spike Duplicate
V2A1913-ECC1910	2A56380.D	06/27/24	18:28	10:50	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-BFB
Lab File ID: 5E47450.D
Instrument ID: GCMS5E
Injection Date: 06/25/24
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	52048	100.0		Pass
96	5.0 - 9.0% of mass 95	3740	7.19		Pass
173	Less than 2.0% of mass 174	195	0.37	(0.40) [a]	Pass
174	50.0 - 200.0% of mass 95	48613	93.4		Pass
175	5.0 - 9.0% of mass 174	3397	6.53	(6.99) [a]	Pass
176	95.0 - 105.0% of mass 174	46925	90.2	(96.5) [a]	Pass
177	5.0 - 10.0% of mass 176	3166	6.08	(6.75) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2113-IC2113	5E47451.D	06/25/24	12:49	00:28	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24	13:12	00:51	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24	13:34	01:13	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24	13:57	01:36	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24	14:20	01:59	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24	14:43	02:22	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24	15:06	02:45	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24	15:29	03:08	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24	16:14	03:53	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-BFB
Lab File ID: 5E47519.D
Instrument ID: GCMS5E
Injection Date: 06/28/24
Injection Time: 09:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	54888	100.0		Pass
96	5.0 - 9.0% of mass 95	3723	6.78		Pass
173	Less than 2.0% of mass 174	228	0.42	(0.45) [a]	Pass
174	50.0 - 200.0% of mass 95	50243	91.5		Pass
175	5.0 - 9.0% of mass 174	3625	6.60	(7.21) [a]	Pass
176	95.0 - 105.0% of mass 174	48149	87.7	(95.8) [a]	Pass
177	5.0 - 10.0% of mass 176	3302	6.02	(6.86) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5E2118-CC2113	5E47520.D	06/28/24	09:44	00:27	Continuing cal 5
V5E2118-BS	5E47521.D	06/28/24	10:16	00:59	Blank Spike
V5E2118-MB	5E47523.D	06/28/24	11:02	01:45	Method Blank
FC16592-1	5E47524.D	06/28/24	11:33	02:16	SEAD-AL-PT-18A-20240619
FC16592-2	5E47525.D	06/28/24	11:56	02:39	SEAD-AL-PT-22-20240619
FC16592-3	5E47526.D	06/28/24	12:18	03:01	SEAD-AL-MWT-28-20240619
FC16592-4	5E47527.D	06/28/24	12:41	03:24	SEAD-AL-MW-39-20240619
FC16592-5	5E47528.D	06/28/24	13:04	03:47	SEAD-AL-MW-48-20240619
FC16592-6	5E47529.D	06/28/24	13:27	04:10	SEAD-AL-PT-20-20240619
FC16592-7	5E47530.D	06/28/24	13:50	04:33	SEAD-AL-PT-19-20240619
FC16592-8	5E47531.D	06/28/24	14:12	04:55	SEAD-AL-MW-46-20240619
FC16592-9	5E47532.D	06/28/24	14:35	05:18	SEAD-AL-MW-32-20240619
FC16592-10	5E47533.D	06/28/24	14:57	05:40	SEAD-AL-MW-44A-20240619
FC16592-11	5E47534.D	06/28/24	15:20	06:03	SEAD-AL-MW-58D-20240619
FC16592-12	5E47535.D	06/28/24	15:43	06:26	SEAD-AL-MW-56R-20240619
FC16592-13	5E47536.D	06/28/24	16:06	06:49	SEAD-AL-MW-27-20240619
ZZZZZZ	5E47537.D	06/28/24	16:29	07:12	(unrelated sample)
ZZZZZZ	5E47538.D	06/28/24	16:51	07:34	(unrelated sample)
ZZZZZZ	5E47539.D	06/28/24	17:14	07:57	(unrelated sample)
ZZZZZZ	5E47540.D	06/28/24	17:37	08:20	(unrelated sample)
ZZZZZZ	5E47541.D	06/28/24	17:59	08:42	(unrelated sample)
ZZZZZZ	5E47542.D	06/28/24	18:22	09:05	(unrelated sample)
ZZZZZZ	5E47543.D	06/28/24	18:45	09:28	(unrelated sample)
FC16592-2MS	5E47544.D	06/28/24	19:08	09:51	Matrix Spike
FC16592-2MSD	5E47545.D	06/28/24	19:30	10:13	Matrix Spike Duplicate
V5E2118-ECC2113	5E47546.D	06/28/24	19:53	10:36	Ending cal 5

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V1O3089-CC3054	**Injection Date:**	07/01/24
Lab File ID:	1O85453.D	**Injection Time:**	08:44
Instrument ID:	GCMS1O	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	514301	3.98	353598	5.98	191685	7.72
Check Std [b]	381627	3.98	259365	5.97	140976	7.71
Upper Limit [c]	763254	4.15	518730	6.14	281952	7.88
Lower Limit [d]	190814	3.81	129683	5.80	70488	7.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V1O3089-BS	394377	3.98	264083	5.97	142889	7.72
V1O3089-MB [e]	418813	3.98	273539	5.98	146625	7.72
FC16592-1	403985	3.98	260259	5.98	138994	7.72
ZZZZZZ	386913	3.98	253999	5.98	134555	7.72
ZZZZZZ	386227	3.98	254640	5.98	136646	7.72
ZZZZZZ	385280	3.98	253868	5.98	133520	7.72
ZZZZZZ	382597	3.98	251595	5.98	133738	7.72
ZZZZZZ	376846	3.98	248637	5.98	133787	7.72
ZZZZZZ	379321	3.98	248409	5.98	131937	7.72
ZZZZZZ	375870	3.98	247269	5.98	132358	7.72
ZZZZZZ	374221	3.98	244176	5.98	131341	7.72
ZZZZZZ	371462	3.98	247876	5.98	130479	7.72
ZZZZZZ	368898	3.98	245900	5.98	128378	7.72
ZZZZZZ	367326	3.98	244420	5.98	129363	7.72
ZZZZZZ	375427	3.98	246535	5.98	129819	7.72
ZZZZZZ	373106	3.98	245534	5.98	130956	7.72
ZZZZZZ	372919	3.98	243362	5.98	131636	7.72
ZZZZZZ	375218	3.98	252212	5.98	137770	7.72
ZZZZZZ	400504	3.98	269126	5.98	146049	7.72
ZZZZZZ	422525	3.98	275707	5.98	146485	7.72
ZZZZZZ	416898	3.98	273778	5.98	145890	7.72
FC16592-1MS	423593	3.98	288159	5.98	155927	7.72
FC16592-1MSD	438343	3.98	294001	5.98	157058	7.72
V1O3089-ECC3054	442098	3.98	297893	5.98	162953	7.72

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V1O3054-ICC3054 1O84565.D 06/02/24 12:35
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V1O3089-CC3054	**Injection Date:**	07/01/24
Lab File ID:	1O85453.D	**Injection Time:**	08:44
Instrument ID:	GCMS1O	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(e) Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V2A1913-CC1910	**Injection Date:**	06/27/24
Lab File ID:	2A56354.D	**Injection Time:**	08:02
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	300895	3.40	219742	5.35	130499	7.09
Check Std [b]	267062	3.40	191370	5.35	112752	7.09
Upper Limit [c]	534124	3.57	382740	5.52	225504	7.26
Lower Limit [d]	133531	3.23	95685	5.18	56376	6.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2A1913-BS	269653	3.40	192263	5.35	113648	7.09
V2A1913-MB [e]	251920	3.40	188890	5.35	109868	7.09
FC16592-20	245899	3.40	184189	5.35	108340	7.09
ZZZZZZ	249292	3.40	187234	5.35	109315	7.09
FC16724-2	248140	3.40	186442	5.35	109770	7.09
ZZZZZZ	249207	3.40	189064	5.35	111218	7.09
ZZZZZZ	247823	3.40	186077	5.35	108515	7.09
ZZZZZZ	247295	3.40	187205	5.35	109040	7.09
ZZZZZZ	247351	3.40	186487	5.35	108316	7.09
ZZZZZZ	247496	3.40	185140	5.35	109441	7.09
ZZZZZZ	244521	3.40	183153	5.35	108174	7.09
ZZZZZZ	245975	3.40	184426	5.35	108448	7.09
ZZZZZZ	242988	3.40	182369	5.35	108211	7.09
ZZZZZZ	246461	3.40	184951	5.35	110397	7.09
ZZZZZZ	244382	3.40	185091	5.35	109766	7.09
ZZZZZZ	243494	3.40	182815	5.35	108171	7.09
FC16592-14	243279	3.40	181214	5.35	107992	7.09
FC16592-15	241731	3.40	183078	5.35	106733	7.09
FC16592-16	239186	3.40	182249	5.35	107149	7.09
FC16592-17	240491	3.40	181172	5.35	106647	7.09
FC16592-18	241159	3.40	183354	5.35	106840	7.09
FC16592-19	240274	3.40	180231	5.35	106235	7.09
FC16724-2MS	257444	3.40	186360	5.35	111885	7.09
FC16724-2MSD	260101	3.40	185939	5.35	112449	7.09
V2A1913-ECC1910	258568	3.40	184669	5.35	113951	7.09

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V2A1910-ICC1910 2A56276.D 06/25/24 10:47
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V2A1913-CC1910	**Injection Date:**	06/27/24
Lab File ID:	2A56354.D	**Injection Time:**	08:02
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2118-CC2113	**Injection Date:**	06/28/24
Lab File ID:	5E47520.D	**Injection Time:**	09:44
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	422604	8.46	286059	11.59	149134	13.95
Check Std [b]	385180	8.46	260456	11.59	141008	13.95
Upper Limit [c]	770360	8.63	520912	11.76	282016	14.12
Lower Limit [d]	192590	8.29	130228	11.42	70504	13.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5E2118-BS	395794	8.46	257380	11.59	132416	13.95
V5E2118-MB [e]	342088	8.46	215338	11.59	106839	13.95
FC16592-1	344926	8.46	216116	11.60	104830	13.95
FC16592-2	331856	8.46	208662	11.59	103136	13.95
FC16592-3	325674	8.46	202467	11.59	99672	13.95
FC16592-4	310124	8.46	199293	11.59	95954	13.95
FC16592-5	306922	8.46	192780	11.59	93579	13.95
FC16592-6	303062	8.46	190060	11.59	93906	13.95
FC16592-7	299503	8.46	189977	11.59	93594	13.95
FC16592-8	297344	8.46	188275	11.59	89315	13.95
FC16592-9	293382	8.46	185376	11.59	90478	13.95
FC16592-10	289197	8.46	182651	11.59	88562	13.95
FC16592-11	283116	8.46	180269	11.60	87640	13.95
FC16592-12	283834	8.46	180220	11.59	88720	13.95
FC16592-13	280786	8.46	178543	11.59	86491	13.95
ZZZZZZ	279615	8.46	177669	11.59	85684	13.95
ZZZZZZ	272247	8.46	177797	11.59	84921	13.95
ZZZZZZ	274701	8.46	174737	11.59	84049	13.95
ZZZZZZ	272114	8.46	173803	11.60	84839	13.95
ZZZZZZ	272225	8.46	169353	11.59	83141	13.95
ZZZZZZ	268426	8.46	168637	11.60	82529	13.95
ZZZZZZ	266357	8.46	169684	11.60	84075	13.95
FC16592-2MS	295535	8.46	198523	11.59	103918	13.95
FC16592-2MSD	307205	8.46	203767	11.59	105377	13.95
V5E2118-ECC2113	320948	8.46	222025	11.59	118502	13.95

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V5E2113-ICC2113 5E47456.D 06/25/24 14:43
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.

Internal Standard Area Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Check Std:	V5E2118-CC2113	**Injection Date:**	06/28/24
Lab File ID:	5E47520.D	**Injection Time:**	09:44
Instrument ID:	GCMS5E	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT

(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Sample was treated with an anti-foaming agent.

Surrogate Recovery Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC16592-1	1O85457.D	103	111	101	101
FC16592-1	5E47524.D	97	95	107	109
FC16592-2	5E47525.D	97	95	107	106
FC16592-3	5E47526.D	95	95	106	106
FC16592-4	5E47527.D	95	95	104	104
FC16592-5	5E47528.D	96	94	107	106
FC16592-6	5E47529.D	97	94	107	106
FC16592-7	5E47530.D	94	96	105	106
FC16592-8	5E47531.D	97	95	106	110
FC16592-9	5E47532.D	95	95	106	108
FC16592-10	5E47533.D	94	93	105	105
FC16592-11	5E47534.D	96	96	107	106
FC16592-12	5E47535.D	96	96	106	103
FC16592-13	5E47536.D	94	94	105	107
FC16592-14	2A56372.D	101	100	101	99
FC16592-15	2A56373.D	101	101	99	99
FC16592-16	2A56374.D	102	102	100	98
FC16592-17	2A56375.D	101	101	100	99
FC16592-18	2A56376.D	102	101	99	99
FC16592-19	2A56377.D	101	100	99	98
FC16592-20	2A56358.D	101	100	101	98
FC16592-1MS	1O85477.D	105	111	100	99
FC16592-1MSD	1O85478.D	104	108	101	103
FC16592-2MS	5E47544.D	96	102	100	98
FC16592-2MSD	5E47545.D	97	102	99	101
FC16724-2MS	2A56378.D	97	102	100	98
FC16724-2MSD	2A56379.D	96	100	101	98
V1O3089-BS	1O85454.D	105	111	102	100
V1O3089-MB	1O85456.D	102	109	102	107
V2A1913-BS	2A56355.D	95	100	101	98
V2A1913-MB	2A56357.D	101	99	100	97
V5E2118-BS	5E47521.D	98	100	101	103
V5E2118-MB	5E47523.D	96	95	106	108

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%

Surrogate Recovery Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICC3054
Lab FileID: 1O84565.D

Response Factor Report MSVOA12-O

Method : C:\msdchem\1\met...O3054_06022024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Calibration Files
1 =1O84558.D 2 =1O84562.D 3 =1O84563.D 4 =1O84564.D
5 =1O84565.D 6 =1O84566.D 7 =1O84567.D 8 =1O84561.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	ISTD									
2) Dichlorodifl	0.151	0.157	0.160	0.172	0.181	0.174	0.180	0.139	0.164	9.03
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9992									
	Response Ratio = 0.00000 + 0.17602 *A									
3) Chloromethan	0.258	0.248	0.246	0.257	0.263	0.251	0.251	0.262	0.255	2.42
4) 1,3-butadien	0.122	0.147	0.154	0.153	0.170	0.152	0.162	0.125	0.148	11.32
5) Vinyl Chlori	0.199	0.200	0.206	0.211	0.231	0.227	0.249	0.196	0.215	8.75
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9964									
	Response Ratio = 0.00000 + 0.23314 *A									
6) Bromomethane		0.039	0.042	0.046	0.055	0.055	0.058		0.049	15.98
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9968									
	Response Ratio = 0.00000 + 0.05432 *A									
7) Chloroethane		0.058	0.059	0.055	0.058	0.052	0.051	0.074	0.058	13.30
8) Trichloroflu	0.230	0.236	0.239	0.245	0.264	0.241	0.210	0.219	0.236	7.05
9) Ethyl Ether	0.223	0.213	0.204	0.217	0.219	0.212	0.215	0.199	0.213	3.71
10) Ethanol		0.005	0.006	0.006	0.006	0.005	0.006	0.005	0.005	6.96
11) 1,2-Dichloro	0.149	0.169	0.170	0.180	0.188	0.179	0.183	0.167	0.173	7.02
12) 1,1-Dichloro	0.279	0.312	0.311	0.337	0.353	0.336	0.347	0.300	0.322	7.86
13) Freon 113	0.110	0.174	0.171	0.189	0.192	0.184	0.192	0.145	0.170	16.97
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9994									
	Response Ratio = 0.00000 + 0.18776 *A									
14) Carbon Disul	0.534	0.504	0.502	0.560	0.597	0.578	0.606	0.498	0.547	8.06
15) Iodomethane	0.049	0.036	0.046	0.074	0.104			0.033	0.057	47.91
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 0.02793 *A + 0.09481 *A^2									
16) Acrolein	0.066	0.068	0.071	0.075	0.077	0.075	0.077	0.064	0.072	7.14
17) Allyl chlori	0.257	0.265	0.279	0.295	0.323	0.295	0.289	0.257	0.282	8.04
18) Methylene Ch		0.367	0.341	0.328	0.332	0.308	0.311		0.331	6.50
19) Acetone	0.141	0.131	0.129	0.133	0.132	0.126	0.128	0.129	0.131	3.49
20) Methyl aceta	0.342	0.311	0.315	0.321	0.326	0.305	0.316	0.309	0.318	3.63
21) trans-1,2-Di	0.323	0.322	0.327	0.342	0.354	0.334	0.345	0.331	0.335	3.46
22) Hexane		0.182	0.212	0.201	0.212	0.216	0.203	0.207	0.192	0.203	5.53
23) Methyl Tert	0.549	0.507	0.509	0.553	0.570	0.566	0.590	0.480	0.540	6.96
24) Tert Butyl A	0.045	0.052	0.050	0.055	0.058	0.060	0.067	0.045	0.054	13.87
25) Acetonitrile	0.067	0.054	0.053	0.052	0.054	0.047	0.046	0.059	0.054	12.56
26) Di-isopropyl	0.704	0.715	0.721	0.761	0.775	0.753	0.768	0.695	0.737	4.22
27) Chloroprene	0.258	0.291	0.292	0.326	0.337	0.333	0.340	0.271	0.306	10.47
28) 1,1-Dichloro	0.408	0.408	0.402	0.430	0.437	0.417	0.429	0.403	0.417	3.25
29) Acrylonitril	0.145	0.141	0.140	0.146	0.145	0.138	0.142	0.125	0.140	4.89
30) ETBE	0.636	0.627	0.629	0.682	0.698	0.680	0.705	0.593	0.656	6.16
31) Vinyl acetat	0.423	0.459	0.470	0.521	0.527	0.497	0.498	0.385	0.473	10.37

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICC3054
Lab FileID: 1O84565.D

32) cis-1,2-Dich 0.219 0.214 0.201 0.214 0.220 0.213 0.218 0.212 0.214 2.78
33) 2,2-Dichloro 0.196 0.206 0.205 0.226 0.242 0.241 0.254 0.201 0.221 9.97
34) Bromochlorom 0.088 0.098 0.102 0.101 0.103 0.098 0.099 0.095 0.098 4.88
35) Cyclohexane 0.272 0.375 0.388 0.419 0.436 0.416 0.430 0.316 0.381 15.47
---- Linear regr., Force(0,0) ---- Coefficient = 0.9995
Response Ratio = 0.00000 + 0.42170 *A

36) Chloroform 0.358 0.346 0.361 0.385 0.391 0.374 0.389 0.362 0.371 4.45
37) Ethyl acetat 0.364 0.362 0.369 0.392 0.399 0.375 0.382 0.329 0.371 5.79
38) Tetrahydrofu 0.170 0.174 0.144 0.149 0.150 0.149 0.158 0.157 0.156 6.74
39) Dibromofluor 0.248 0.252 0.256 0.262 0.260 0.265 0.262 0.250 0.257 2.42
40) Carbon Tetra 0.149 0.190 0.192 0.226 0.238 0.233 0.245 0.185 0.207 16.16
---- Linear regr., Force(0,0) ---- Coefficient = 0.9980
Response Ratio = 0.00000 + 0.23486 *A

41) 1,1,1-Trichl 0.259 0.262 0.262 0.294 0.302 0.295 0.307 0.243 0.278 8.64
42) 2-Butanone 0.237 0.234 0.228 0.237 0.238 0.227 0.233 0.212 0.231 3.66
43) 1,1-Dichloro 0.240 0.260 0.265 0.276 0.286 0.273 0.283 0.252 0.267 5.89
44) tert-Butyl f 0.085 0.089 0.096 0.112 0.122 0.127 0.133 0.080 0.105 19.58
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.10256 *A + 0.00323 *A^2

45) Propionitril 0.079 0.081 0.074 0.077 0.078 0.071 0.072 0.073 0.076 4.74
46) Methacryloni 0.217 0.216 0.217 0.216 0.219 0.196 0.192 0.200 0.209 5.23
47) Benzene 0.810 0.805 0.804 0.815 0.814 0.781 0.806 0.817 0.806 1.40
48) TAME 0.473 0.460 0.464 0.509 0.517 0.522 0.546 0.409 0.487 9.06
49) Isobutyl alc 0.020 0.020 0.022 0.023 0.026 0.025 0.027 0.018 0.023 13.38
50) 1,2-Dichloro 0.325 0.333 0.333 0.343 0.342 0.348 0.327 0.333 0.335 2.42
51) 1,2-Dichloro 0.316 0.319 0.312 0.321 0.323 0.309 0.312 0.318 0.316 1.61
52) Tert Amyl Al 0.033 0.038 0.039 0.044 0.047 0.049 0.053 0.032 0.042 18.19
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995
Response Ratio = 0.00000 + 0.03976 *A + 0.00068 *A^2

53) Trichloroeth 0.235 0.208 0.207 0.215 0.222 0.210 0.218 0.215 0.216 4.21
54) Methylcycloh 0.174 0.270 0.280 0.306 0.321 0.308 0.322 0.218 0.275 19.34
---- Quadratic regression ---- Coefficient = 0.9995
Response Ratio = -0.00314 + 0.30742 *A + 0.00721 *A^2

55) Dibromometha 0.136 0.126 0.132 0.137 0.138 0.137 0.141 0.129 0.134 3.78
56) 1,2-Dichloro 0.221 0.228 0.224 0.241 0.247 0.236 0.248 0.232 0.235 4.29
57) Bromodichlor 0.224 0.219 0.228 0.255 0.266 0.267 0.281 0.218 0.245 10.23
58) Methyl metha 0.215 0.220 0.239 0.256 0.245 0.252 0.238 7.13
59) 1,4-Dioxane 0.004 0.004 0.004 0.005 0.005 0.005 0.005 7.45
60) 2-Chloroethy 0.151 0.164 0.184 0.200 0.204 0.199 0.199 0.141 0.180 13.83
61) cis-1,3-Dich 0.247 0.252 0.255 0.297 0.315 0.316 0.336 0.226 0.281 14.40

62) I Chlorobenzene-d5 ----------ISTD----------
63) Toluene-d8 1.432 1.424 1.432 1.448 1.459 1.467 1.478 1.434 1.447 1.34
64) Toluene 1.259 1.170 1.161 1.191 1.242 1.201 1.245 1.205 1.209 2.99
65) 2-Nitropropa 0.074 0.078 0.083 0.107 0.116 0.118 0.124 0.074 0.097 22.18
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980
Response Ratio = 0.00000 + 0.09507 *A + 0.00311 *A^2

66) 4-Methyl-2-p 0.499 0.543 0.552 0.582 0.583 0.550 0.554 0.466 0.541 7.37
67) trans-1,3-Di 0.338 0.351 0.362 0.413 0.433 0.434 0.457 0.306 0.387 14.09
68) Tetrachloroe 0.244 0.260 0.264 0.276 0.285 0.271 0.282 0.270 0.269 4.85
69) Ethyl methac 0.339 0.359 0.403 0.431 0.424 0.446 0.400 10.68
---- Linear regr., Force(0,0) ---- Coefficient = 0.9991
Response Ratio = 0.00000 + 0.42772 *A

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICC3054
Lab FileID: 1O84565.D

```
 70) 1,1,2-Trichl 0.249 0.252 0.257 0.260 0.265 0.254 0.260 0.254 0.256   2.01
 71) Dibromochlor 0.198 0.212 0.232 0.264 0.273 0.281 0.299 0.189 0.244  17.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 0.23880 *A + 0.03088 *A^2

 72) 1,3-Dichloro 0.488 0.491 0.482 0.502 0.504 0.485 0.506 0.474 0.491   2.38
 73) 1,2-Dibromoe 0.242 0.287 0.288 0.307 0.313 0.308 0.321 0.267 0.292   9.04
 74) 3,3-dimethyl 0.066 0.076 0.084 0.095 0.098 0.099 0.102 0.061 0.085  18.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 0.08745 *A + 0.00016 *A^2

 75) 2-hexanone   0.504 0.570 0.580 0.607 0.603 0.567 0.572 0.490 0.562   7.60
 76) 1-Chlorohexa 0.428 0.356 0.341 0.377 0.383 0.368 0.381 0.385 0.377   6.76
 77) Ethylbenzene 1.290 1.270 1.283 1.333 1.353 1.305 1.357 1.281 1.309   2.62
 78) Chlorobenzen 0.831 0.768 0.758 0.782 0.789 0.757 0.793 0.790 0.783   3.06
 79) 1,1,1,2-Tetr 0.195 0.211 0.217 0.242 0.257 0.252 0.267 0.204 0.231  11.77
 80) m,p-Xylene   1.005 0.973 0.995 1.043 1.074 1.029 1.065 0.983 1.021   3.70
 81) o-Xylene     1.007 0.977 0.987 1.070 1.088 1.071 1.105 0.936 1.030   5.96
 82) Styrene      0.576 0.686 0.735 0.809 0.834 0.817 0.849 0.647 0.744  13.42
 83) Bromoform    0.117 0.124 0.131 0.154 0.165 0.176 0.186 0.108 0.145  20.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 0.13805 *A + 0.02524 *A^2

 84) Isopropylben 0.987 1.066 1.116 1.190 1.239 1.214 1.258 1.042 1.139   8.82

 85) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
 86) 4-Bromofluor 0.693 0.689 0.697 0.703 0.696 0.699 0.705 0.694 0.697   0.73
 87) cis-1,4-Dich       0.306 0.281 0.315 0.338 0.325 0.348       0.319   7.49
 88) n-Propylbenz 2.620 2.537 2.643 2.775 2.831 2.729 2.837 2.530 2.688   4.58
 89) Bromobenzene 0.492 0.526 0.517 0.537 0.549 0.533 0.554 0.495 0.525   4.36
 90) 1,1,2,2-Tetr 0.836 0.879 0.864 0.917 0.936 0.905 0.960 0.775 0.884   6.70
 91) 1,3,5-Trimet 1.633 1.689 1.759 1.902 1.965 1.890 1.954 1.611 1.800   8.06
 92) 2-Chlorotolu 1.880 1.796 1.839 1.888 1.936 1.852 1.939 1.762 1.861   3.35
 93) trans-1,4-Di       0.245 0.247 0.262 0.273 0.270 0.293       0.265   6.74
 94) 1,2,3-Trichl 0.221 0.241 0.245 0.268 0.270 0.258 0.263 0.231 0.250   7.17
 95) Cyclohexanon       0.050 0.055 0.061 0.065 0.064 0.071       0.061  12.21
 96) 4-Chlorotolu 1.747 1.698 1.723 1.789 1.831 1.773 1.834 1.635 1.754   3.87
 97) tert-Butylbe 0.857 0.939 0.957 1.042 1.087 1.053 1.099 0.900 0.992   9.13
 98) a-Methyl sty                                                 0.000  -1.00
 99) 1,2,4-Trimet 1.532 1.636 1.748 1.896 1.969 1.917 2.007 1.589 1.787  10.33
100) Pentachloroe       0.207 0.223 0.253 0.276 0.274 0.295       0.255  13.30
101) sec-Butylben 1.733 1.978 2.064 2.210 2.300 2.220 2.317 1.822 2.081  10.57
102) 4-Isopropylt 1.356 1.513 1.661 1.826 1.923 1.873 1.970 1.457 1.697  13.77
103) 1,3-Dichloro 1.052 1.029 1.040 1.070 1.089 1.055 1.105 1.007 1.056   3.03
104) 1,2,3-Trimet 1.793 1.869 1.847 1.999 2.077 2.010 2.106 1.841 1.943   6.15
105) 1,4-Dichloro 1.201 1.103 1.081 1.098 1.106 1.065 1.110 1.076 1.105   3.78
106) n-Butylbenze 0.810 0.871 0.931 1.031 1.077 1.064 1.105 0.804 0.962  12.80
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9987
               Response Ratio = 0.00000 + 1.06680 *A

107) Benzyl Chlor       0.129 0.143 0.192 0.226 0.250 0.277 0.095 0.187  36.02
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.15888 *A + 0.06153 *A^2

108) 1,2-Dichloro 1.044 1.051 0.977 1.020 1.035 1.006 1.051 0.947 1.016   3.74
109) 1,2-Dibromo-       0.154 0.158 0.190 0.205 0.212 0.231       0.192  15.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 0.17109 *A + 0.03037 *A^2

110) Hexachlorobu 0.167 0.175 0.196 0.210 0.221 0.212 0.227 0.186 0.199  10.88
```

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICC3054
Lab FileID: 1O84565.D

```
              ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 0.21718 *A

111) 1,2,4-Trichl       0.518 0.543 0.600 0.632 0.620 0.659 0.502 0.582  10.47
112) Naphthalene        1.831 1.943 2.313 2.467 2.499 2.671       2.287  14.53
113) 1,2,3-Trichl       0.519 0.523 0.585 0.598 0.600 0.631 0.531 0.569   7.82
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           V1O3054_06022024.M        Sun Jun 02 14:49:18 2024
```

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICV3054
Lab FileID: 1O84569.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\060224\1O84569.D Vial: 12
Acq On : 2 Jun 2024 2:26 pm Operator: jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...O3054_06022024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Sun Jun 02 14:43:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	109	0.00	3.98
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	59.188	-48.0#	157	0.00	1.20
		AvgRF	CCRF	%Dev			
3 P	Chloromethane	0.255	0.305	-19.6	126	0.00	1.35
4	1,3-butadiene	0.148	0.164	-10.8	105	0.00	1.42
		Amount	Calc.	%Drift			
5 C	Vinyl Chloride	40.000	46.376	-15.9	127	0.00	1.41
6	Bromomethane	40.000	45.446	-13.6	123	0.00	1.64
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.058	0.065	-12.1	122	0.00	1.72
8	Trichlorofluoromethane	0.236	0.274	-16.1	113	0.00	1.82
9	Ethyl Ether	0.213	0.189	11.3	94	0.00	2.03
10	Ethanol	0.005	0.006	-20.0	111	0.00	2.14
11	1,2-Dichlorotrifluoroetha	0.173	0.244	-41.0#	141	0.00	2.15
12 C	1,1-Dichloroethene	0.322	0.326	-1.2	101	0.00	2.15
		Amount	Calc.	%Drift			
13	Freon 113	40.000	40.373	-0.9	107	0.00	2.18
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.547	0.555	-1.5	101	0.00	2.17
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	35.840	10.4	90	0.00	2.24
		AvgRF	CCRF	%Dev			
16	Acrolein	0.072	0.085	-18.1	120	0.00	2.35
17	Allyl chloride	0.282	0.319	-13.1	107	0.00	2.44
18	Methylene Chloride	0.331	0.317	4.2	104	0.00	2.50
19	Acetone	0.131	0.143	-9.2	118	0.00	2.53
20	Methyl acetate	0.318	0.288	9.4	96	0.00	2.60
21	trans-1,2-Dichloroethene	0.335	0.339	-1.2	104	0.00	2.60
22	Hexane	0.203	0.202	0.5	102	0.00	2.65
23	Methyl Tert Butyl Ether	0.540	0.524	3.0	100	0.00	2.66
24	Tert Butyl Alcohol	0.054	0.056	-3.7	105	0.00	2.71
25	Acetonitrile	0.054	0.056	-3.7	113	0.00	2.80
26	Di-isopropyl ether	0.737	0.690	6.4	97	0.00	2.88

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICV3054
Lab FileID: 1O84569.D

27		Chloroprene	0.306	0.325	-6.2	105	0.00	2.94
28	P	1,1-Dichloroethane	0.417	0.410	1.7	102	0.00	2.95
29		Acrylonitrile	0.140	0.140	0.0	105	0.00	2.98
30		ETBE	0.656	0.628	4.3	98	0.00	3.09
31		Vinyl acetate	0.473	0.566	-19.7	117	0.00	3.09
32		cis-1,2-Dichloroethene	0.214	0.210	1.9	104	0.00	3.26
33		2,2-Dichloropropane	0.221	0.255	-15.4	115	0.00	3.32
34		Bromochloromethane	0.098	0.095	3.1	101	0.00	3.37
		----------	Amount	Calc.	%Drift	----------		
35		Cyclohexane	40.000	37.774	5.6	100	0.00	3.38
		----------	AvgRF	CCRF	%Dev	----------		
36	C	Chloroform	0.371	0.385	-3.8	107	0.00	3.41
37		Ethyl acetate	0.371	0.396	-6.7	108	0.00	3.46
38		Tetrahydrofuran	0.156	0.135	13.5	98	0.00	3.50
39	S	Dibromofluoromethane	0.257	0.263	-2.3	110	0.00	3.51
		----------	Amount	Calc.	%Drift	----------		
40		Carbon Tetrachloride	40.000	39.164	2.1	105	0.00	3.49
		----------	AvgRF	CCRF	%Dev	----------		
41		1,1,1-Trichloroethane	0.278	0.297	-6.8	107	0.00	3.53
42		2-Butanone	0.231	0.225	2.6	103	0.00	3.57
43		1,1-Dichloropropene	0.267	0.285	-6.7	109	0.00	3.60
		----------	Amount	Calc.	%Drift	----------		
44		tert-Butyl formate	200.000	222.076	-11.0	116	0.00	3.66
		----------	AvgRF	CCRF	%Dev	----------		
45		Propionitrile	0.076	0.083	-9.2	115	0.00	3.74
46		Methacrylonitrile	0.209	0.224	-7.2	111	0.00	3.76
47		Benzene	0.806	0.807	-0.1	108	0.00	3.74
48		TAME	0.487	0.473	2.9	100	0.00	3.80
49		Isobutyl alcohol	0.023	0.027	-17.4	114	0.00	3.84
50	S	1,2-Dichloroethane-d4	0.335	0.333	0.6	106	0.00	3.82
51		1,2-Dichloroethane	0.316	0.313	0.9	105	0.00	3.85
		----------	Amount	Calc.	%Drift	----------		
52		Tert Amyl Alcohol	400.000	419.490	-4.9	109	0.00	3.90
		----------	AvgRF	CCRF	%Dev	----------		
53		Trichloroethene	0.216	0.223	-3.2	109	0.00	4.08
		----------	Amount	Calc.	%Drift	----------		
54		Methylcyclohexane	40.000	39.925	0.2	105	0.00	4.08
		----------	AvgRF	CCRF	%Dev	----------		
55		Dibromomethane	0.134	0.141	-5.2	111	0.00	4.33
56	C	1,2-Dichloropropane	0.235	0.259	-10.2	114	0.00	4.39
57		Bromodichloromethane	0.245	0.265	-8.2	109	0.00	4.43
58		Methyl methacrylate	0.238	0.271	-13.9	115	0.00	4.51
59		1,4-Dioxane	0.005	0.005	0.0	114	0.00	4.54
60		2-Chloroethyl vinyl ether	0.180	0.200	-11.1	107	0.00	4.77
61		cis-1,3-Dichloropropene	0.281	0.325	-15.7	112	0.00	4.81
62	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	5.98
63	S	Toluene-d8	1.447	1.470	-1.6	109	0.00	4.93
64	C	Toluene	1.209	1.270	-5.0	111	0.00	4.97

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICV3054
Lab FileID: 1O84569.D

			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	210.839	-5.4	106	0.00	5.11
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.541	0.597	-10.4	111	0.00	5.20
67		trans-1,3-Dichloropropene	0.387	0.430	-11.1	107	0.00	5.23
68		Tetrachloroethene	0.269	0.294	-9.3	112	0.00	5.23
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	45.550	-13.9	122	0.00	5.32
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.256	0.270	-5.5	110	0.00	5.34
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	44.953	-12.4	119	0.00	5.46
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.491	0.548	-11.6	118	0.00	5.52
73		1,2-Dibromoethane	0.292	0.322	-10.3	111	0.00	5.62
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2000.000	2083.331	-4.2	108	0.00	5.74
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.562	0.610	-8.5	109	0.00	5.76
76		1-Chlorohexane	0.377	0.385	-2.1	109	0.00	5.97
77	C	Ethylbenzene	1.309	1.395	-6.6	111	0.00	6.01
78	P	Chlorobenzene	0.783	0.811	-3.6	111	0.00	5.99
79		1,1,1,2-Tetrachloroethane	0.231	0.266	-15.2	112	0.00	6.03
80		m,p-Xylene	1.021	1.098	-7.5	111	0.00	6.10
81		o-Xylene	1.030	1.105	-7.3	110	0.00	6.42
82		Styrene	0.744	0.876	-17.7	114	0.00	6.46
			Amount	Calc.	%Drift			
83	P	Bromoform	40.000	42.127	-5.3	110	0.00	6.48
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.139	1.282	-12.6	112	0.00	6.65
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	7.72
86	S	4-Bromofluorobenzene	0.697	0.699	-0.3	110	0.00	6.87
87		cis-1,4-Dichloro-2-butene	0.319	0.357	-11.9	116	0.00	6.91
88		n-Propylbenzene	2.688	2.899	-7.8	113	0.00	6.96
89		Bromobenzene	0.525	0.579	-10.3	116	0.00	6.95
90	P	1,1,2,2-Tetrachloroethane	0.884	0.960	-8.6	113	0.00	7.01
91		1,3,5-Trimethylbenzene	1.800	2.019	-12.2	113	0.00	7.12
92		2-Chlorotoluene	1.861	1.968	-5.7	112	0.00	7.09
93		trans-1,4-Dichloro-2-Bute	0.265	0.278	-4.9	112	0.00	7.15
94		1,2,3-Trichloropropane	0.250	0.282	-12.8	115	0.00	7.12
95		Cyclohexanone	0.061	0.066	-8.2	112	0.00	7.15
96		4-Chlorotoluene	1.754	1.850	-5.5	111	0.00	7.21
97		tert-Butylbenzene	0.992	1.119	-12.8	113	0.00	7.37
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	1.787	2.067	-15.7	115	0.00	7.42
100		Pentachloroethane	0.255	0.296	-16.1	118	0.00	7.38
101		sec-Butylbenzene	2.081	2.290	-10.0	109	0.00	7.50
102		4-Isopropyltoluene	1.697	2.023	-19.2	116	0.00	7.61
103		1,3-Dichlorobenzene	1.056	1.089	-3.1	110	0.00	7.66
104		1,2,3-Trimethylbenzene	1.943	2.155	-10.9	114	0.00	7.75

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3054-ICV3054
Lab FileID: 1O84569.D

105	1,4-Dichlorobenzene	1.105	1.127	-2.0	112	0.00	7.73
		Amount	Calc.	%Drift			
106	n-Butylbenzene	40.000	43.458	-8.6	118	0.00	7.93
107	Benzyl Chloride	40.000	43.063	-7.7	111	0.00	7.91
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.016	1.046	-3.0	111	0.00	8.04
		Amount	Calc.	%Drift			
109	1,2-Dibromo-3-Chloropropa	40.000	44.151	-10.4	117	0.00	8.61
110	Hexachlorobutadiene	40.000	44.212	-10.5	120	0.00	9.07
		AvgRF	CCRF	%Dev			
111	1,2,4-Trichlorobenzene	0.582	0.652	-12.0	113	0.00	9.09
112	Naphthalene	2.287	2.506	-9.6	112	0.00	9.30
113	1,2,3-Trichlorobenzene	0.569	0.618	-8.6	114	0.00	9.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1O84565.D V1O3054_06022024.M Sun Jun 02 14:49:52 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3089-CC3054
Lab FileID: 1O85453.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\070124\1O85453.D Vial: 2
Acq On : 1 Jul 2024 8:44 am Operator: jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...O3054_06022024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Sun Jun 02 14:43:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	74	0.00	3.98
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	25.000	33.073	-32.3#	100	0.00	1.20
			AvgRF	CCRF	%Dev			
3	P	Chloromethane	0.255	0.291	-14.1	84	0.00	1.34
4		1,3-butadiene	0.148	0.175	-18.2	85	0.00	1.42
			Amount	Calc.	%Drift			
5	C	Vinyl Chloride	25.000	27.265	-9.1	89	0.00	1.40
6		Bromomethane	25.000	27.877	-11.5	97	0.00	1.64
			AvgRF	CCRF	%Dev			
7		Chloroethane	0.058	0.072	-24.1#	96	0.00	1.71
8		Trichlorofluoromethane	0.236	0.326	-38.1#	98	0.00	1.81
9		Ethyl Ether	0.213	0.215	-0.9	73	0.00	2.03
10		Ethanol	0.005	0.006	-20.0	85	0.00	2.14
11		1,2-Dichlorotrifluoroetha	0.173	0.266	-53.8#	109	0.00	2.15
12	C	1,1-Dichloroethene	0.322	0.351	-9.0	77	0.00	2.15
			Amount	Calc.	%Drift			
13		Freon 113	25.000	24.949	0.2	73	0.00	2.17
			AvgRF	CCRF	%Dev			
14		Carbon Disulfide	0.547	0.552	-0.9	73	0.00	2.17
			Amount	Calc.	%Drift			
15		Iodomethane	25.000	29.263	-17.1	97	0.00	2.23
			AvgRF	CCRF	%Dev			
16		Acrolein	0.072	0.076	-5.6	75	0.00	2.35
17		Allyl chloride	0.282	0.308	-9.2	77	0.00	2.43
18		Methylene Chloride	0.331	0.329	0.6	74	0.00	2.50
19		Acetone	0.131	0.144	-9.9	80	0.00	2.53
20		Methyl acetate	0.318	0.311	2.2	72	0.00	2.60
21		trans-1,2-Dichloroethene	0.335	0.351	-4.8	76	0.00	2.59
22		Hexane	0.203	0.210	-3.4	73	0.00	2.65
23		Methyl Tert Butyl Ether	0.540	0.555	-2.8	74	0.00	2.66
24		Tert Butyl Alcohol	0.054	0.066	-22.2#	89	0.00	2.71
25		Acetonitrile	0.054	0.053	1.9	76	0.00	2.79
26		Di-isopropyl ether	0.737	0.716	2.8	70	0.00	2.87

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V1O3089-CC3054
Account: EAENYS EA Engineering **Lab FileID:** 1O85453.D
Project: Former Seneca Army Depot; Romulus, NY

27		Chloroprene	0.306	0.336	-9.8	76	0.00	2.93
28	P	1,1-Dichloroethane	0.417	0.436	-4.6	75	0.00	2.95
29		Acrylonitrile	0.140	0.157	-12.1	80	0.00	2.97
30		ETBE	0.656	0.686	-4.6	74	0.00	3.08
31		Vinyl acetate	0.473	0.563	-19.0	80	0.00	3.09
32		cis-1,2-Dichloroethene	0.214	0.209	2.3	72	0.00	3.25
33		2,2-Dichloropropane	0.221	0.263	-19.0	86	0.00	3.32
34		Bromochloromethane	0.098	0.098	0.0	71	0.00	3.37
		----------	Amount	Calc.	%Drift	----------		
35		Cyclohexane	25.000	23.184	7.3	69	0.00	3.37
		----------	AvgRF	CCRF	%Dev	----------		
36	C	Chloroform	0.371	0.401	-8.1	77	0.00	3.40
37		Ethyl acetate	0.371	0.404	-8.9	76	0.00	3.46
38		Tetrahydrofuran	0.156	0.144	7.7	71	0.00	3.49
39	S	Dibromofluoromethane	0.257	0.277	-7.8	78	0.00	3.51
		----------	Amount	Calc.	%Drift	----------		
40		Carbon Tetrachloride	25.000	28.230	-12.9	87	0.00	3.49
		----------	AvgRF	CCRF	%Dev	----------		
41		1,1,1-Trichloroethane	0.278	0.322	-15.8	81	0.00	3.53
42		2-Butanone	0.231	0.242	-4.8	76	0.00	3.57
43		1,1-Dichloropropene	0.267	0.274	-2.6	73	0.00	3.60
		----------	Amount	Calc.	%Drift	----------		
44		tert-Butyl formate	125.000	160.588	-28.5#	96	0.00	3.65
		----------	AvgRF	CCRF	%Dev	----------		
45		Propionitrile	0.076	0.081	-6.6	78	0.00	3.74
46		Methacrylonitrile	0.209	0.218	-4.3	75	0.00	3.76
47		Benzene	0.806	0.781	3.1	71	0.00	3.74
48		TAME	0.487	0.499	-2.5	72	0.00	3.80
49		Isobutyl alcohol	0.023	0.026	-13.0	82	0.00	3.84
50	S	1,2-Dichloroethane-d4	0.335	0.382	-14.0	82	0.00	3.81
51		1,2-Dichloroethane	0.316	0.347	-9.8	80	0.00	3.85
		----------	Amount	Calc.	%Drift	----------		
52		Tert Amyl Alcohol	250.000	293.419	-17.4	87	0.00	3.90
		----------	AvgRF	CCRF	%Dev	----------		
53		Trichloroethene	0.216	0.213	1.4	73	0.00	4.08
		----------	Amount	Calc.	%Drift	----------		
54		Methylcyclohexane	25.000	23.350	6.6	69	0.00	4.08
		----------	AvgRF	CCRF	%Dev	----------		
55		Dibromomethane	0.134	0.135	-0.7	73	0.00	4.33
56	C	1,2-Dichloropropane	0.235	0.233	0.9	71	0.00	4.39
57		Bromodichloromethane	0.245	0.276	-12.7	80	0.00	4.42
58		Methyl methacrylate	0.238	0.228	4.2	70	0.00	4.51
59		1,4-Dioxane	0.005	0.005	0.0	79	0.00	4.54
60		2-Chloroethyl vinyl ether	0.180	0.195	-8.3	72	0.00	4.76
61		cis-1,3-Dichloropropene	0.281	0.303	-7.8	75	0.00	4.81
62	I	Chlorobenzene-d5	1.000	1.000	0.0	73	0.00	5.97
63	S	Toluene-d8	1.447	1.464	-1.2	74	0.00	4.93
64	C	Toluene	1.209	1.184	2.1	73	0.00	4.96

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V1O3089-CC3054
Account: EAENYS EA Engineering **Lab FileID:** 1O85453.D
Project: Former Seneca Army Depot; Romulus, NY

			Amount	Calc.	%Drift			
65		2-Nitropropane	125.000	155.055	-24.0#	89	0.00	5.10
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.541	0.569	-5.2	71	0.00	5.20
67		trans-1,3-Dichloropropene	0.387	0.446	-15.2	79	0.00	5.23
68		Tetrachloroethene	0.269	0.273	-1.5	72	0.00	5.22
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	25.000	22.185	11.3	69	0.00	5.32
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.256	0.251	2.0	71	0.00	5.34
			Amount	Calc.	%Drift			
71		Dibromochloromethane	25.000	27.710	-10.8	78	0.00	5.46
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.491	0.487	0.8	71	0.00	5.52
73		1,2-Dibromoethane	0.292	0.301	-3.1	72	0.00	5.62
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	1250.000	1451.476	-16.1	83	0.00	5.74
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.562	0.632	-12.5	76	0.00	5.76
76		1-Chlorohexane	0.377	0.333	11.7	65	0.00	5.96
77	C	Ethylbenzene	1.309	1.338	-2.2	73	0.00	6.00
78	P	Chlorobenzene	0.783	0.766	2.2	72	0.00	5.98
79		1,1,1,2-Tetrachloroethane	0.231	0.260	-12.6	78	0.00	6.03
80		m,p-Xylene	1.021	1.049	-2.7	73	0.00	6.10
81		o-Xylene	1.030	1.036	-0.6	71	0.00	6.42
82		Styrene	0.744	0.767	-3.1	69	0.00	6.45
			Amount	Calc.	%Drift			
83	P	Bromoform	25.000	28.179	-12.7	82	0.00	6.48
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.139	1.172	-2.9	72	0.00	6.65
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00	7.71
86	S	4-Bromofluorobenzene	0.697	0.696	0.1	72	0.00	6.86
87		cis-1,4-Dichloro-2-butene	0.319	0.344	-7.8	80	0.00	6.90
88		n-Propylbenzene	2.688	2.789	-3.8	73	0.00	6.96
89		Bromobenzene	0.525	0.538	-2.5	73	0.00	6.95
90	P	1,1,2,2-Tetrachloroethane	0.884	0.921	-4.2	73	0.00	7.01
91		1,3,5-Trimethylbenzene	1.800	1.910	-6.1	73	0.00	7.12
92		2-Chlorotoluene	1.861	1.896	-1.9	73	0.00	7.08
93		trans-1,4-Dichloro-2-Bute	0.265	0.280	-5.7	78	0.00	7.15
94		1,2,3-Trichloropropane	0.250	0.270	-8.0	73	0.00	7.12
95		Cyclohexanone	0.061	0.062	-1.6	74	0.00	7.15
96		4-Chlorotoluene	1.754	1.811	-3.2	74	0.00	7.21
97		tert-Butylbenzene	0.992	1.073	-8.2	75	0.00	7.36
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	1.787	1.892	-5.9	73	0.00	7.41
100		Pentachloroethane	0.255	0.291	-14.1	84	0.00	7.38
101		sec-Butylbenzene	2.081	2.221	-6.7	73	0.00	7.50
102		4-Isopropyltoluene	1.697	1.834	-8.1	73	0.00	7.61
103		1,3-Dichlorobenzene	1.056	1.077	-2.0	73	0.00	7.66
104		1,2,3-Trimethylbenzene	1.943	2.070	-6.5	75	0.00	7.74

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3089-CC3054
Lab FileID: 1O85453.D

105	1,4-Dichlorobenzene	1.105	1.097	0.7	73	0.00	7.73
		Amount	Calc.	%Drift			
106	n-Butylbenzene	25.000	24.595	1.6	74	0.00	7.92
107	Benzyl Chloride	25.000	29.843	-19.4	89	0.00	7.91
		AvgRF	CCRF	%Dev			
108	1,2-Dichlorobenzene	1.016	1.031	-1.5	74	0.00	8.04
		Amount	Calc.	%Drift			
109	1,2-Dibromo-3-Chloropropa	25.000	29.095	-16.4	84	0.00	8.61
110	Hexachlorobutadiene	25.000	27.953	-11.8	84	0.00	9.07
		AvgRF	CCRF	%Dev			
111	1,2,4-Trichlorobenzene	0.582	0.600	-3.1	73	0.00	9.08
112	Naphthalene	2.287	2.187	4.4	69	0.00	9.30
113	1,2,3-Trichlorobenzene	0.569	0.588	-3.3	73	0.00	9.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1O84564.D V1O3054_06022024.M Mon Jul 01 09:00:27 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3089-ECC3054
Lab FileID: 1O85479.D

Evaluate Continuing Calibration Report

Data File : R:\GBS Manila Data V...089\V1O3089\1O85479.d Vial: 28
Acq On : 1 Jul 2024 7:47 pm Operator: jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : R:\GBS Manila Da...O3054_06022024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Sun Jun 02 14:43:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	86	0.00	3.98
		---------- True	Calc.	% Drift	----------			
2		Dichlorodifluoromethane	25.000	31.101	-24.4	109	0.00	1.20
		---------- AvgRF	CCRF	% Dev	----------			
3	P	Chloromethane	0.255	0.288	-12.9	96	0.00	1.35
4		1,3-butadiene	0.148	0.181	-22.3	101	0.00	1.42
		---------- True	Calc.	% Drift	----------			
5	C	Vinyl Chloride	25.000	26.927	-7.7	102	0.00	1.40
6		Bromomethane	25.000	29.059	-16.2	117	0.00	1.64
		---------- AvgRF	CCRF	% Dev	----------			
7		Chloroethane	0.058	0.068	-17.2	105	0.00	1.71
8		Trichlorofluoromethane	0.236	0.298	-26.3	104	0.00	1.81
9		Ethyl Ether	0.213	0.212	0.5	84	0.00	2.03
10		Ethanol	0.005	0.006	-20.0	99	0.00	2.13
11		1,2-Dichlorotrifluoroetha	0.173	0.257	-48.6	122	0.00	2.15
12	C	1,1-Dichloroethene	0.322	0.336	-4.3	85	0.00	2.15
		---------- True	Calc.	% Drift	----------			
13		Freon 113	25.000	23.777	4.9	81	0.00	2.18
		---------- AvgRF	CCRF	% Dev	----------			
14		Carbon Disulfide	0.547	0.528	3.5	81	0.00	2.17
		---------- True	Calc.	% Drift	----------			
15		Iodomethane	25.000	35.652	-42.6	157	0.00	2.24
		---------- AvgRF	CCRF	% Dev	----------			
16		Acrolein	0.072	0.069	4.2	79	0.00	2.35
17		Allyl chloride	0.282	0.296	-5.0	86	0.00	2.44
18		Methylene Chloride	0.331	0.326	1.5	85	0.00	2.50
19		Acetone	0.131	0.135	-3.1	87	0.00	2.53
20		Methyl acetate	0.318	0.310	2.5	83	0.00	2.60
21		trans-1,2-Dichloroethene	0.335	0.336	-0.3	84	0.00	2.60
22		Hexane	0.203	0.189	6.9	76	0.00	2.65
23		Methyl Tert Butyl Ether	0.540	0.555	-2.8	86	0.00	2.66
24		Tert Butyl Alcohol	0.054	0.060	-11.1	94	0.00	2.71
25		Acetonitrile	0.054	0.051	5.6	85	0.00	2.80
26		Di-isopropyl ether	0.737	0.725	1.6	82	0.00	2.88

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V1O3089-ECC3054
Account: EAENYS EA Engineering **Lab FileID:** 1O85479.D
Project: Former Seneca Army Depot; Romulus, NY

27		Chloroprene	0.306	0.321	-4.9	84	0.00	2.94
28	P	1,1-Dichloroethane	0.417	0.418	-0.2	83	0.00	2.95
29		Acrylonitrile	0.140	0.153	-9.3	90	0.00	2.98
30		ETBE	0.656	0.681	-3.8	86	0.00	3.08
31		Vinyl acetate	0.473	0.551	-16.5	91	0.00	3.09
32		cis-1,2-Dichloroethene	0.214	0.207	3.3	83	0.00	3.26
33		2,2-Dichloropropane	0.221	0.231	-4.5	88	0.00	3.32
34		Bromochloromethane	0.098	0.096	2.0	81	0.00	3.37
		----------	True	Calc.	% Drift	----------		
35		Cyclohexane	25.000	23.581	5.7	81	0.00	3.38
		----------	AvgRF	CCRF	% Dev	----------		
36	C	Chloroform	0.371	0.378	-1.9	84	0.00	3.41
37		Ethyl acetate	0.371	0.409	-10.2	89	0.00	3.46
38		Tetrahydrofuran	0.156	0.144	7.7	82	0.00	3.50
39	S	Dibromofluoromethane	0.257	0.265	-3.1	87	0.00	3.51
		----------	True	Calc.	% Drift	----------		
40		Carbon Tetrachloride	25.000	25.285	-1.1	90	0.00	3.50
		----------	AvgRF	CCRF	% Dev	----------		
41		1,1,1-Trichloroethane	0.278	0.304	-9.4	88	0.00	3.53
42		2-Butanone	0.231	0.230	0.4	83	0.00	3.57
43		1,1-Dichloropropene	0.267	0.270	-1.1	84	0.00	3.60
		----------	True	Calc.	% Drift	----------		
44		tert-Butyl formate	125.000	150.588	-20.5	103	0.00	3.66
		----------	AvgRF	CCRF	% Dev	----------		
45		Propionitrile	0.076	0.075	1.3	83	0.00	3.74
46		Methacrylonitrile	0.209	0.212	-1.4	84	0.00	3.76
47		Benzene	0.806	0.772	4.2	81	0.00	3.74
48		TAME	0.487	0.497	-2.1	84	0.00	3.80
49		Isobutyl alcohol	0.023	0.022	4.3	81	0.00	3.84
50	S	1,2-Dichloroethane-d4	0.335	0.367	-9.6	92	0.00	3.82
51		1,2-Dichloroethane	0.316	0.327	-3.5	87	0.00	3.85
		----------	True	Calc.	% Drift	----------		
52		Tert Amyl Alcohol	250.000	274.947	-10.0	94	0.00	3.90
		----------	AvgRF	CCRF	% Dev	----------		
53		Trichloroethene	0.216	0.209	3.2	83	0.00	4.08
		----------	True	Calc.	% Drift	----------		
54		Methylcyclohexane	25.000	23.421	6.3	80	0.00	4.08
		----------	AvgRF	CCRF	% Dev	----------		
55		Dibromomethane	0.134	0.132	1.5	83	0.00	4.33
56	C	1,2-Dichloropropane	0.235	0.235	0.0	84	0.00	4.39
57		Bromodichloromethane	0.245	0.256	-4.5	86	0.00	4.43
58		Methyl methacrylate	0.238	0.234	1.7	84	0.00	4.51
59		1,4-Dioxane	0.005	0.005	0.0	93	0.00	4.54
60		2-Chloroethyl vinyl ether	0.180	0.189	-5.0	81	0.00	4.77
61		cis-1,3-Dichloropropene	0.281	0.289	-2.8	83	0.00	4.81
62	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	5.98
63	S	Toluene-d8	1.447	1.465	-1.2	85	0.00	4.93
64	C	Toluene	1.209	1.172	3.1	83	0.00	4.97

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V1O3089-ECC3054
Account: EAENYS EA Engineering **Lab FileID:** 1O85479.D
Project: Former Seneca Army Depot; Romulus, NY

			True	Calc.	% Drift			
65		2-Nitropropane	125.000	138.002	-10.4	90	0.00	5.11
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.541	0.580	-7.2	84	0.00	5.20
67		trans-1,3-Dichloropropene	0.387	0.428	-10.6	87	0.00	5.23
68		Tetrachloroethene	0.269	0.283	-5.2	86	0.00	5.23
			True	Calc.	% Drift			
69		Ethyl methacrylate	25.000	23.384	6.5	83	0.00	5.33
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.256	0.258	-0.8	83	0.00	5.34
			True	Calc.	% Drift			
71		Dibromochloromethane	25.000	26.618	-6.5	86	0.00	5.46
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.491	0.492	-0.2	82	0.00	5.52
73		1,2-Dibromoethane	0.292	0.300	-2.7	82	0.00	5.63
			True	Calc.	% Drift			
74		3,3-dimethyl-1-butanol	1250.000	1341.664	-7.3	87	0.00	5.74
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.562	0.611	-8.7	85	0.00	5.76
76		1-Chlorohexane	0.377	0.355	5.8	79	0.00	5.96
77	C	Ethylbenzene	1.309	1.305	0.3	82	0.00	6.00
78	P	Chlorobenzene	0.783	0.756	3.4	81	0.00	5.99
79		1,1,1,2-Tetrachloroethane	0.231	0.255	-10.4	88	0.00	6.03
80		m,p-Xylene	1.021	1.033	-1.2	83	0.00	6.10
81		o-Xylene	1.030	1.042	-1.2	82	0.00	6.42
82		Styrene	0.744	0.775	-4.2	80	0.00	6.46
			True	Calc.	% Drift			
83	P	Bromoform	25.000	26.512	-6.0	88	0.00	6.48
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.139	1.175	-3.2	83	0.00	6.65
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00	7.72
86	S	4-Bromofluorobenzene	0.697	0.700	-0.4	84	0.00	6.87
87		cis-1,4-Dichloro-2-butene	0.319	0.301	5.6	81	0.00	6.91
88		n-Propylbenzene	2.688	2.701	-0.5	82	0.00	6.96
89		Bromobenzene	0.525	0.536	-2.1	84	0.00	6.95
90	P	1,1,2,2-Tetrachloroethane	0.884	0.911	-3.1	84	0.00	7.01
91		1,3,5-Trimethylbenzene	1.800	1.872	-4.0	83	0.00	7.12
92		2-Chlorotoluene	1.861	1.862	-0.1	83	0.00	7.09
93		trans-1,4-Dichloro-2-Bute	0.265	0.250	5.7	80	0.00	7.15
94		1,2,3-Trichloropropane	0.250	0.265	-6.0	83	0.00	7.12
95		Cyclohexanone	0.061	0.060	1.6	83	0.00	7.15
96		4-Chlorotoluene	1.754	1.763	-0.5	83	0.00	7.21
97		tert-Butylbenzene	0.992	1.062	-7.1	86	0.00	7.37
98		a-Methyl styrene		----------NA----------				
99		1,2,4-Trimethylbenzene	1.787	1.865	-4.4	83	0.00	7.42
100		Pentachloroethane	0.255	0.245	3.9	82	0.00	7.38
101		sec-Butylbenzene	2.081	2.164	-4.0	82	0.00	7.50
102		4-Isopropyltoluene	1.697	1.780	-4.9	82	0.00	7.61
103		1,3-Dichlorobenzene	1.056	1.044	1.1	82	0.00	7.66
104		1,2,3-Trimethylbenzene	1.943	1.996	-2.7	84	0.00	7.75

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V1O3089-ECC3054
Lab FileID: 1O85479.D

105	1,4-Dichlorobenzene	1.105	1.072	3.0	82	0.00	7.73
	----------	True	Calc.	% Drift	----------		
106	n-Butylbenzene	25.000	23.533	5.9	82	0.00	7.93
107	Benzyl Chloride	25.000	24.988	0.0	83	0.00	7.91
	----------	AvgRF	CCRF	% Dev	----------		
108	1,2-Dichlorobenzene	1.016	1.006	1.0	83	0.00	8.04
	----------	True	Calc.	% Drift	----------		
109	1,2-Dibromo-3-Chloropropa	25.000	27.015	-8.1	90	0.00	8.61
110	Hexachlorobutadiene	25.000	24.868	0.5	87	0.00	9.07
	----------	AvgRF	CCRF	% Dev	----------		
111	1,2,4-Trichlorobenzene	0.582	0.585	-0.5	82	0.00	9.09
112	Naphthalene	2.287	2.197	3.9	80	0.00	9.30
113	1,2,3-Trichlorobenzene	0.569	0.590	-3.7	85	0.00	9.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1O84564.D V1O3054_06022024.M Tue Jul 02 10:40:29 2024

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

Response Factor Report MSVOA17

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Calibration Files
1 =2A56266.D 2 =2A56270.D 3 =2A56272.D 4 =2A56274.D
5 =2A56276.D 6 =2A56278.D 7 =2A56280.D 8 =2A56268.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------									
2) Dichlorodifl	0.276	0.261	0.240	0.241	0.249	0.233	0.225	0.252	0.247	6.49
3) Chloromethan		0.322	0.286	0.266	0.271	0.254	0.252	0.341	0.284	12.13
4) 1,3-butadien		0.399	0.346	0.336	0.312	0.302	0.284	0.547	0.361	24.99
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9983										
Response Ratio = 0.00000 + 0.36029 *A + -0.04025 *A^2										
5) Vinyl Chlori	0.351	0.304	0.272	0.265	0.272	0.261	0.255	0.320	0.288	11.84
6) Bromomethane		0.149	0.130	0.117	0.117	0.117	0.120		0.125	10.15
7) Chloroethane		0.184	0.165	0.150	0.145	0.129	0.119	0.210	0.157	20.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992										
Response Ratio = 0.00000 + 0.16752 *A + -0.02539 *A^2										
8) Trichloroflu	0.393	0.424	0.390	0.377	0.378	0.363	0.345	0.388	0.382	6.05
9) Ethyl Ether	0.224	0.211	0.204	0.195	0.199	0.193	0.190	0.212	0.204	5.67
10) Ethanol		0.003	0.003	0.003	0.003	0.003	0.003		0.003	9.25
11) 1,2-Dichloro		0.221	0.211	0.201	0.203	0.195	0.189	0.305	0.218	18.26
---- Linear regr., Force(0,0) ---- Coefficient = 0.9993										
Response Ratio = 0.00000 + 0.19648 *A										
12) 1,1-Dichloro	0.447	0.404	0.386	0.374	0.377	0.359	0.349	0.414	0.389	8.16
13) Freon 113	0.214	0.232	0.244	0.236	0.238	0.230	0.225	0.222	0.230	4.22
14) Carbon Disul		0.788	0.733	0.710	0.726	0.695	0.677	0.848	0.740	8.04
---- Linear regr., Force(0,0) ---- Coefficient = 0.9993										
Response Ratio = 0.00000 + 0.69872 *A										
15) Iodomethane		0.109	0.124	0.178	0.209	0.218	0.207		0.174	26.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9924										
Response Ratio = 0.00000 + 0.16928 *A + 0.02375 *A^2										
16) Acrolein	0.047	0.044	0.048	0.049	0.049	0.048	0.048	0.049	0.048	3.56
17) Allyl chlori		0.384	0.368	0.371	0.380	0.362	0.355	0.440	0.380	7.50
18) Methylene Ch		0.453	0.373	0.341	0.336	0.318	0.311		0.355	14.79
19) Acetone	0.110	0.097	0.099	0.103	0.102	0.097	0.091	0.105	0.100	5.99
20) Methyl aceta	0.272	0.249	0.249	0.247	0.250	0.240	0.240	0.244	0.249	4.04
21) trans-1,2-Di	0.482	0.397	0.372	0.361	0.358	0.347	0.342	0.429	0.386	12.51
22) Hexane	0.225	0.240	0.227	0.232	0.239	0.228	0.227	0.221	0.230	2.85
23) Methyl Tert	0.684	0.709	0.719	0.690	0.722	0.691	0.693	0.697	0.701	2.03
24) Acetonitrile		0.035	0.033	0.034	0.033	0.031	0.029	0.041	0.034	11.30
25) Tert Butyl A	0.042	0.040	0.042	0.039	0.041	0.039	0.039	0.040	0.040	3.13
26) Di-isopropyl	0.887	0.776	0.787	0.754	0.781	0.762	0.762	0.830	0.792	5.67
27) Chloroprene	1.131	1.000	1.030	1.038	1.040	1.003	0.989	1.074	1.038	4.47
28) 1,1-Dichloro	0.608	0.508	0.477	0.456	0.465	0.447	0.433	0.551	0.493	12.08
29) Acrylonitril	0.132	0.124	0.128	0.125	0.127	0.121	0.121	0.124	0.125	2.87
30) ETBE	0.733	0.741	0.758	0.734	0.779	0.763	0.759	0.738	0.751	2.22
31) Vinyl acetat	0.513	0.551	0.639	0.629	0.646	0.618	0.619	0.578	0.599	7.86

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

```
32) cis-1,2-Dich 0.419 0.292 0.279 0.266 0.269 0.258 0.255 0.328 0.296  18.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.28238 *A + -0.01510 *A^2

33) 2,2-Dichloro 0.509 0.415 0.379 0.361 0.364 0.360 0.348 0.456 0.399  14.31
34) Bromochlorom 0.150 0.146 0.138 0.132 0.137 0.129 0.124 0.153 0.139   7.42
35) Cyclohexane  0.452 0.485 0.474 0.455 0.459 0.442 0.434 0.460 0.458   3.57
36) Chloroform   0.667 0.527 0.489 0.463 0.469 0.451 0.442 0.569 0.509  14.97
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.45621 *A

37) Ethyl acetat 0.316 0.295 0.342 0.337 0.351 0.336 0.338 0.314 0.328   5.61
38) Tetrahydrofu       0.123 0.126 0.110 0.121 0.115 0.114 0.111 0.117   5.35
39) Dibromofluor 0.297 0.300 0.292 0.285 0.283 0.279 0.277 0.297 0.289   3.08
40) Carbon Tetra 0.434 0.379 0.384 0.348 0.372 0.365 0.365 0.402 0.381   7.00
41) 1,1,1-Trichl 0.553 0.436 0.420 0.400 0.411 0.398 0.394 0.487 0.437  12.70
42) 2-Butanone   0.158 0.155 0.165 0.170 0.172 0.166 0.167 0.155 0.164   4.19
43) 1,1-Dichloro 0.395 0.341 0.348 0.333 0.337 0.328 0.318 0.357 0.345   6.88
44) tert-Butyl f 0.175 0.191 0.201 0.207 0.224 0.224 0.230 0.187 0.205   9.70
45) Propionitril 0.052 0.044 0.046 0.048 0.047 0.045 0.043 0.050 0.047   6.36
46) Methacryloni 0.177 0.173 0.182 0.192 0.192 0.186 0.184 0.188 0.184   3.72
47) Benzene      1.254 1.000 0.985 0.940 0.966 0.940 0.924 1.078 1.011  10.82
48) TAME         0.678 0.652 0.651 0.630 0.666 0.657 0.663 0.650 0.656   2.16
49) 1,2-Dichloro 0.350 0.356 0.351 0.349 0.354 0.353 0.308 0.348 0.346   4.51
50) 1,2-Dichloro 0.412 0.370 0.370 0.358 0.361 0.351 0.349 0.386 0.369   5.64
51) Isobutyl Alc 0.027 0.025 0.025 0.025 0.026 0.024 0.023 0.027 0.025   4.91
52) Tert Amyl Al 0.030 0.032 0.034 0.032 0.033 0.032 0.032 0.031 0.032   3.23
53) Trichloroeth 0.321 0.291 0.286 0.271 0.277 0.271 0.263 0.326 0.288   8.21
54) Methylcycloh 0.442 0.463 0.455 0.433 0.449 0.443 0.441 0.445 0.446   2.10
55) Dibromometha 0.183 0.179 0.175 0.171 0.173 0.167 0.167 0.184 0.175   3.83
56) 1,2-Dichloro 0.297 0.260 0.255 0.250 0.258 0.247 0.241 0.282 0.261   7.22
57) Bromodichlor 0.417 0.365 0.354 0.349 0.352 0.349 0.345 0.393 0.365   7.06
58) Methyl metha 0.242 0.230 0.228 0.251 0.261 0.248 0.250 0.257 0.246   4.81
59) 1,4-Dioxane        0.002 0.003 0.002 0.003 0.002 0.003       0.003   6.02
60) 2-Chloroethy 0.172 0.178 0.180 0.176 0.184 0.177 0.178 0.180 0.178   2.03
61) cis-1,3-Dich 0.398 0.395 0.394 0.390 0.399 0.392 0.393 0.411 0.396   1.67

62) I   Chlorobenzene-d5      ----------------ISTD---------------------
63) Toluene-d8   1.332 1.369 1.380 1.385 1.346 1.341 1.351 1.340 1.355   1.47
64) Toluene      1.818 1.507 1.482 1.413 1.423 1.385 1.386 1.586 1.500   9.71
65) 2-Nitropropa 0.122 0.122 0.131 0.135 0.141 0.141 0.143 0.121 0.132   7.18
66) 4-Methyl-2-p 0.447 0.425 0.456 0.459 0.456 0.447 0.451 0.441 0.448   2.42
67) trans-1,3-Di 0.498 0.466 0.489 0.495 0.516 0.520 0.526 0.457 0.496   5.00
68) Tetrachloroe 0.418 0.389 0.382 0.378 0.384 0.381 0.381 0.389 0.388   3.25
69) Ethyl methac 0.449 0.415 0.426 0.463 0.458 0.448 0.447 0.448 0.444   3.62
70) 1,1,2-Trichl 0.342 0.271 0.267 0.273 0.273 0.275 0.276 0.279 0.282   8.68
71) Dibromochlor 0.333 0.334 0.346 0.349 0.366 0.369 0.378 0.324 0.350   5.48
72) 1,3-Dichloro 0.448 0.492 0.494 0.494 0.512 0.503 0.510 0.467 0.490   4.51
73) 1,2-Dibromoe 0.316 0.314 0.337 0.336 0.352 0.345 0.349 0.328 0.335   4.28
74) 3,3-Dimethyl 0.056 0.054 0.057 0.055 0.055 0.054 0.056 0.055 0.055   2.12
75) 2-hexanone   0.418 0.429 0.460 0.446 0.440 0.424 0.424 0.432 0.434   3.19
76) 1-Chlorohexa 0.694 0.597 0.563 0.540 0.526 0.507 0.509 0.611 0.568  11.22
77) Ethylbenzene 2.101 1.742 1.707 1.626 1.657 1.611 1.609 1.852 1.738   9.67
78) Chlorobenzen 1.120 0.994 0.964 0.926 0.931 0.907 0.908 1.014 0.971   7.41
79) 1,1,1,2-Tetr 0.339 0.318 0.325 0.322 0.331 0.337 0.341 0.336 0.331   2.57
80) m,p-Xylene   1.702 1.420 1.398 1.345 1.360 1.325 1.321 1.498 1.421   8.98
81) o-Xylene     1.723 1.511 1.467 1.408 1.427 1.397 1.387 1.587 1.488   7.81
82) Styrene      1.184 1.087 1.062 1.042 1.050 1.023 1.027 1.111 1.073   4.99
83) Bromoform    0.237 0.231 0.245 0.249 0.258 0.268 0.274 0.224 0.248   7.09
84) Isopropylben 2.045 1.788 1.725 1.651 1.670 1.612 1.602 1.931 1.753   9.12
```

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICC1910
Lab FileID: 2A56276.D

85)	I 1,4-Dichlorobenzene-d	----------	----------	----------	----------	ISTD	----------	----------	----------	----------	
86)	4-Bromofluor	0.791	0.784	0.789	0.787	0.791	0.796	0.800	0.793	0.791	0.64
87)	cis-1,4-Dich		0.177	0.181	0.204	0.213	0.225	0.239	0.229	0.210	11.37
88)	n-Propylbenz	4.584	3.611	3.522	3.416	3.504	3.454	3.462	3.944	3.687	10.83
89)	Bromobenzene	0.801	0.695	0.670	0.653	0.671	0.681	0.678	0.745	0.699	7.05
90)	1,1,2,2-Tetr	0.976	0.809	0.805	0.774	0.794	0.784	0.796	0.848	0.823	7.94
91)	1,3,5-Trimet	2.990	2.450	2.404	2.315	2.394	2.365	2.355	2.760	2.504	9.59
92)	2-Chlorotolu	2.436	1.996	1.949	1.884	1.957	1.932	1.917	2.211	2.035	9.36
93)	trans-1,4-Di		0.247	0.243	0.255	0.279	0.277	0.283	0.272	0.265	6.12
94)	1,2,3-Trichl	0.213	0.210	0.215	0.216	0.219	0.219	0.222	0.211	0.216	2.03
95)	Cyclohexanon		0.025	0.026	0.024	0.025	0.023	0.024		0.025	4.38
96)	4-Chlorotolu	2.592	2.153	2.120	2.016	2.077	2.052	2.043	2.381	2.179	9.30
97)	tert-Butylbe	1.846	1.492	1.467	1.381	1.433	1.404	1.386	1.642	1.506	10.69
98)	1,2,4-Trimet	2.743	2.340	2.248	2.174	2.282	2.266	2.255	2.433	2.343	7.63
99)	Pentachloroe	0.383	0.342	0.351	0.376	0.397	0.400	0.406	0.364	0.377	6.26
100)	sec-Butylben	3.888	3.175	3.060	2.947	3.076	2.979	2.936	3.313	3.172	9.96
101)	4-Isopropylt	3.343	2.655	2.583	2.489	2.576	2.525	2.502	2.873	2.693	10.76
102)	1,3-Dichloro	1.551	1.373	1.335	1.276	1.326	1.291	1.290	1.439	1.360	6.89
103)	1,2,3-Trimet	2.520	2.300	2.281	2.199	2.307	2.267	2.269	2.431	2.322	4.44
104)	1,4-Dichloro	1.571	1.373	1.333	1.285	1.334	1.300	1.277	1.410	1.360	7.07
105)	n-Butylbenze	1.452	1.201	1.186	1.140	1.191	1.156	1.167	1.362	1.232	9.13
106)	Benzyl Chlor	0.270	0.284	0.295	0.307	0.325	0.324	0.326	0.286	0.302	7.14
107)	1,2-Dichloro	1.284	1.274	1.218	1.158	1.212	1.177	1.164	1.273	1.220	4.25
108)	1,2-Dibromo-	0.158	0.164	0.165	0.170	0.169	0.165	0.165	0.179	0.167	3.58
109)	Hexachlorobu	0.435	0.357	0.342	0.312	0.322	0.304	0.307	0.385	0.346	13.16
110)	1,2,4-Trichl	0.825	0.768	0.742	0.706	0.726	0.701	0.715	0.754	0.742	5.51
111)	Naphthalene	2.132	2.055	2.059	1.964	2.013	1.951	1.983	2.066	2.028	3.02
112)	1,2,3-Trichl	0.732	0.672	0.663	0.623	0.641	0.627	0.644	0.706	0.664	5.81

(#) = Out of Range ### Number of calibration levels exceeded format ###

V2A1910_06252024.M Tue Jun 25 13:47:03 2024

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\06-25-2024\2A56284.D Vial: 61
Acq On : 25 Jun 2024 1:01 pm Operator: jeniferw
Sample : ICV1910-5 Inst : MSVOA17
Misc : MS56892,V2A1910,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	101	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.268	-8.5	109	0.00	1.03
3	Chloromethane	0.284	0.273	3.9	102	0.00	1.13
	----------	Amount	Calc.	%Drift	----------		
4	1,3-butadiene	40.000	37.110	7.2	99	0.00	1.19
	----------	AvgRF	CCRF	%Dev	----------		
5	Vinyl Chloride	0.288	0.273	5.2	101	0.00	1.18
6	Bromomethane	0.125	0.112	10.4	96	0.00	1.35
	----------	Amount	Calc.	%Drift	----------		
7	Chloroethane	40.000	39.267	1.8	101	0.00	1.42
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	0.382	0.382	0.0	102	0.00	1.50
9	Ethyl Ether	0.204	0.188	7.8	95	0.00	1.66
10	Ethanol	0.003	0.003	0.0	92	0.00	1.71
	----------	Amount	Calc.	%Drift	----------		
11	1,2-Dichlorotrifluoroetha	40.000	56.252	-40.6#	137	0.00	1.75
	----------	AvgRF	CCRF	%Dev	----------		
12	1,1-Dichloroethene	0.389	0.364	6.4	98	0.00	1.77
13	Freon 113	0.230	0.229	0.4	97	0.00	1.79
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide	40.000	33.319	16.7	81	0.00	1.79
15	Iodomethane	40.000	33.891	15.3	76	0.00	1.83
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.048	0.056	-16.7	117	0.00	1.91
17	Allyl chloride	0.380	0.371	2.4	99	0.00	2.00
18	Methylene Chloride	0.355	0.343	3.4	103	0.00	2.04
19	Acetone	0.100	0.100	0.0	99	0.00	2.05
20	Methyl acetate	0.249	0.250	-0.4	101	0.00	2.13
21	trans-1,2-Dichloroethene	0.386	0.353	8.5	100	0.00	2.13
22	Hexane	0.230	0.221	3.9	93	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.703	-0.3	98	0.00	2.20
24	Acetonitrile	0.034	0.031	8.8	95	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.037	7.5	92	0.00	2.21
26	Di-isopropyl ether	0.792	0.730	7.8	94	0.00	2.40

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

			Amount	Calc.	%Drift			
27		Chloroprene	1.038	1.004	3.3	98	0.00	2.44
28		1,1-Dichloroethane	0.493	0.444	9.9	97	0.00	2.44
29		Acrylonitrile	0.125	0.119	4.8	95	0.00	2.44
30		ETBE	0.751	0.725	3.5	94	0.00	2.58
31		Vinyl acetate	0.599	0.662	-10.5	104	0.00	2.56
			Amount	Calc.	%Drift			
32		cis-1,2-Dichloroethene	40.000	37.831	5.4	96	0.00	2.72
			AvgRF	CCRF	%Dev			
33		2,2-Dichloropropane	0.399	0.384	3.8	107	0.00	2.78
34		Bromochloromethane	0.139	0.131	5.8	97	0.00	2.82
35		Cyclohexane	0.458	0.439	4.1	97	0.00	2.86
			Amount	Calc.	%Drift			
36		Chloroform	40.000	39.888	0.3	98	0.00	2.86
			AvgRF	CCRF	%Dev			
37		Ethyl acetate	0.328	0.337	-2.7	97	0.00	2.91
38		Tetrahydrofuran	0.117	0.110	6.0	92	0.00	2.94
39	S	Dibromofluoromethane	0.289	0.286	1.0	102	0.00	2.96
40		Carbon Tetrachloride	0.381	0.373	2.1	101	0.00	2.96
41		1,1,1-Trichloroethane	0.437	0.396	9.4	97	0.00	2.99
42		2-Butanone	0.164	0.156	4.9	92	0.00	3.00
43		1,1-Dichloropropene	0.345	0.339	1.7	102	0.00	3.05
44		tert-Butyl formate	0.205	0.235	-14.6	106	0.00	3.10
45		Propionitrile	0.047	0.045	4.3	97	0.00	3.14
46		Methacrylonitrile	0.184	0.192	-4.3	101	0.00	3.17
47		Benzene	1.011	0.943	6.7	99	0.00	3.18
48		TAME	0.656	0.618	5.8	94	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.351	-1.4	100	0.00	3.24
50		1,2-Dichloroethane	0.369	0.361	2.2	101	0.00	3.27
51		Isobutyl Alcohol	0.025	0.025	0.0	97	0.00	3.25
52		Tert Amyl Alcohol	0.032	0.032	0.0	100	0.00	3.32
53		Trichloroethene	0.288	0.273	5.2	100	0.00	3.51
54		Methylcyclohexane	0.446	0.442	0.9	99	0.00	3.53
55		Dibromomethane	0.175	0.171	2.3	100	0.00	3.74
56		1,2-Dichloropropane	0.261	0.260	0.4	102	0.00	3.79
57		Bromodichloromethane	0.365	0.335	8.2	96	0.00	3.83
58		Methyl methacrylate	0.246	0.258	-4.9	100	0.00	3.92
59		1,4-Dioxane	0.003	0.003	0.0	102	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.182	-2.2	100	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.395	0.3	100	0.00	4.20
62	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00	5.35
63	S	Toluene-d8	1.355	1.357	-0.1	102	0.00	4.34
64		Toluene	1.500	1.403	6.5	100	0.00	4.37
65		2-Nitropropane	0.132	0.142	-7.6	102	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.459	-2.5	102	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.480	3.2	94	0.00	4.61
68		Tetrachloroethene	0.388	0.374	3.6	98	0.00	4.63
69		Ethyl methacrylate	0.444	0.450	-1.4	99	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.263	6.7	98	0.00	4.71
71		Dibromochloromethane	0.350	0.364	-4.0	100	0.00	4.84
72		1,3-Dichloropropane	0.490	0.529	-8.0	104	0.00	4.89
73		1,2-Dibromoethane	0.335	0.344	-2.7	99	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.054	1.8	100	0.00	5.12
75		2-hexanone	0.434	0.449	-3.5	103	0.00	5.14
76		1-Chlorohexane	0.568	0.511	10.0	98	0.00	5.36
77		Ethylbenzene	1.738	1.620	6.8	99	0.00	5.39

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1910-ICV1910
Lab FileID: 2A56284.D

78		Chlorobenzene	0.971	0.902	7.1	98	0.00	5.36
79		1,1,1,2-Tetrachloroethane	0.331	0.324	2.1	99	0.00	5.41
80		m,p-Xylene	1.421	1.312	7.7	98	0.00	5.50
81		o-Xylene	1.488	1.358	8.7	96	0.00	5.80
82		Styrene	1.073	1.031	3.9	99	0.00	5.83
83		Bromoform	0.248	0.249	-0.4	98	0.00	5.84
84		Isopropylbenzene	1.753	1.613	8.0	98	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.788	0.4	102	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.218	-3.8	105	0.00	6.26
88		n-Propylbenzene	3.687	3.345	9.3	98	0.00	6.34
89		Bromobenzene	0.699	0.684	2.1	104	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.761	7.5	98	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.302	8.1	98	0.00	6.50
92		2-Chlorotoluene	2.035	1.869	8.2	98	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.285	-7.5	105	0.00	6.50
94		1,2,3-Trichloropropane	0.216	0.227	-5.1	106	0.00	6.46
95		Cyclohexanone	0.025	0.035	-40.0#	142	0.00	6.48
96		4-Chlorotoluene	2.179	1.977	9.3	97	0.00	6.58
97		tert-Butylbenzene	1.506	1.359	9.8	97	0.00	6.74
98		1,2,4-Trimethylbenzene	2.343	2.197	6.2	99	0.00	6.80
99		Pentachloroethane	0.377	0.390	-3.4	100	0.00	6.74
100		sec-Butylbenzene	3.172	2.774	12.5	92	0.00	6.88
101		4-Isopropyltoluene	2.693	2.425	10.0	96	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.252	7.9	97	0.00	7.03
103		1,2,3-Trimethylbenzene	2.322	2.177	6.2	97	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.274	6.3	98	0.00	7.10
105		n-Butylbenzene	1.232	1.187	3.7	102	0.00	7.34
106		Benzyl Chloride	0.302	0.325	-7.6	102	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.166	4.4	98	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.165	1.2	100	0.00	8.00
109		Hexachlorobutadiene	0.346	0.321	7.2	102	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.688	7.3	97	0.00	8.50
111		Naphthalene	2.028	1.880	7.3	96	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.618	6.9	99	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0

2A56276.D V2A1910_06252024.M Tue Jun 25 13:48:29 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1913-CC1910
Lab FileID: 2A56354.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\06-27-2024\2A56354.D Vial: 2
Acq On : 27 Jun 2024 8:02 am Operator: jeniferw
Sample : CC1910-4 Inst : MSVOA17
Misc : MS56917,V2A1913,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	91	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.237	4.0	89	0.00	1.03
3	Chloromethane	0.284	0.264	7.0	90	0.00	1.13
	----------	Amount	Calc.	%Drift	----------		
4	1,3-butadiene	25.000	25.865	-3.5	95	0.00	1.19
	----------	AvgRF	CCRF	%Dev	----------		
5	Vinyl Chloride	0.288	0.271	5.9	93	0.00	1.18
6	Bromomethane	0.125	0.123	1.6	96	0.00	1.35
	----------	Amount	Calc.	%Drift	----------		
7	Chloroethane	25.000	25.490	-2.0	95	0.00	1.42
	----------	AvgRF	CCRF	%Dev	----------		
8	Trichlorofluoromethane	0.382	0.401	-5.0	96	0.00	1.50
9	Ethyl Ether	0.204	0.195	4.4	90	0.00	1.66
10	Ethanol	0.003	0.003	0.0	107	0.00	1.71
	----------	Amount	Calc.	%Drift	----------		
11	1,2-Dichlorotrifluoroetha	25.000	38.192	-52.8#	135	0.00	1.75
	----------	AvgRF	CCRF	%Dev	----------		
12	1,1-Dichloroethene	0.389	0.377	3.1	92	0.00	1.77
13	Freon 113	0.230	0.240	-4.3	92	0.00	1.79
	----------	Amount	Calc.	%Drift	----------		
14	Carbon Disulfide	25.000	26.197	-4.8	93	0.00	1.79
15	Iodomethane	25.000	26.913	-7.7	100	0.00	1.83
	----------	AvgRF	CCRF	%Dev	----------		
16	Acrolein	0.048	0.049	-2.1	92	0.00	1.91
17	Allyl chloride	0.380	0.369	2.9	90	0.00	2.00
18	Methylene Chloride	0.355	0.345	2.8	92	0.00	2.05
19	Acetone	0.100	0.101	-1.0	89	0.00	2.05
20	Methyl acetate	0.249	0.246	1.2	90	0.00	2.13
21	trans-1,2-Dichloroethene	0.386	0.363	6.0	91	0.00	2.14
22	Hexane	0.230	0.240	-4.3	94	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.696	0.7	91	0.00	2.20
24	Acetonitrile	0.034	0.034	0.0	91	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.042	-5.0	97	0.00	2.21
26	Di-isopropyl ether	0.792	0.770	2.8	93	0.00	2.40

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V2A1913-CC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56354.D
Project: Former Seneca Army Depot; Romulus, NY

27		Chloroprene	1.038	1.037	0.1	91	0.00	2.44
28		1,1-Dichloroethane	0.493	0.467	5.3	93	0.00	2.44
29		Acrylonitrile	0.125	0.128	-2.4	93	0.00	2.44
30		ETBE	0.751	0.760	-1.2	94	0.00	2.58
31		Vinyl acetate	0.599	0.662	-10.5	95	0.00	2.57
		----------	Amount	Calc.	%Drift	----------		
32		cis-1,2-Dichloroethene	25.000	24.034	3.9	90	0.00	2.72
		----------	AvgRF	CCRF	%Dev	----------		
33		2,2-Dichloropropane	0.399	0.374	6.3	94	0.00	2.79
34		Bromochloromethane	0.139	0.131	5.8	90	0.00	2.83
35		Cyclohexane	0.458	0.460	-0.4	92	0.00	2.86
		----------	Amount	Calc.	%Drift	----------		
36		Chloroform	25.000	24.895	0.4	89	0.00	2.86
		----------	AvgRF	CCRF	%Dev	----------		
37		Ethyl acetate	0.328	0.350	-6.7	94	0.00	2.91
38		Tetrahydrofuran	0.117	0.109	6.8	90	0.00	2.95
39	S	Dibromofluoromethane	0.289	0.277	4.2	88	0.00	2.96
40		Carbon Tetrachloride	0.381	0.360	5.5	94	0.00	2.97
41		1,1,1-Trichloroethane	0.437	0.412	5.7	94	0.00	2.99
42		2-Butanone	0.164	0.170	-3.7	91	0.00	3.00
43		1,1-Dichloropropene	0.345	0.342	0.9	93	0.00	3.06
44		tert-Butyl formate	0.205	0.228	-11.2	100	0.00	3.10
45		Propionitrile	0.047	0.048	-2.1	91	0.00	3.14
46		Methacrylonitrile	0.184	0.195	-6.0	92	0.00	3.17
47		Benzene	1.011	0.964	4.6	93	0.00	3.18
48		TAME	0.656	0.672	-2.4	97	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.344	0.6	89	0.00	3.24
50		1,2-Dichloroethane	0.369	0.360	2.4	91	0.00	3.27
51		Isobutyl Alcohol	0.025	0.028	-12.0	100	0.00	3.26
52		Tert Amyl Alcohol	0.032	0.036	-12.5	101	0.00	3.32
53		Trichloroethene	0.288	0.281	2.4	94	0.00	3.51
54		Methylcyclohexane	0.446	0.444	0.4	93	0.00	3.53
55		Dibromomethane	0.175	0.170	2.9	90	0.00	3.74
56		1,2-Dichloropropane	0.261	0.250	4.2	91	0.00	3.79
57		Bromodichloromethane	0.365	0.335	8.2	87	0.00	3.83
58		Methyl methacrylate	0.246	0.258	-4.9	93	0.00	3.92
59		1,4-Dioxane	0.003	0.003	0.0	109	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.186	-4.5	96	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.384	3.0	89	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	5.35
63	S	Toluene-d8	1.355	1.378	-1.7	89	0.00	4.34
64		Toluene	1.500	1.462	2.5	93	0.00	4.37
65		2-Nitropropane	0.132	0.137	-3.8	91	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.467	-4.2	91	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.502	-1.2	91	0.00	4.61
68		Tetrachloroethene	0.388	0.400	-3.1	95	0.00	4.63
69		Ethyl methacrylate	0.444	0.458	-3.2	89	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.273	3.2	90	0.00	4.71
71		Dibromochloromethane	0.350	0.353	-0.9	91	0.00	4.84
72		1,3-Dichloropropane	0.490	0.514	-4.9	93	0.00	4.89
73		1,2-Dibromoethane	0.335	0.345	-3.0	92	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.058	-5.5	95	0.00	5.12
75		2-hexanone	0.434	0.452	-4.1	91	0.00	5.14
76		1-Chlorohexane	0.568	0.514	9.5	85	0.00	5.36
77		Ethylbenzene	1.738	1.683	3.2	93	0.00	5.40

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V2A1913-CC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56354.D
Project: Former Seneca Army Depot; Romulus, NY

78		Chlorobenzene	0.971	0.944	2.8	92	0.00	5.37
79		1,1,1,2-Tetrachloroethane	0.331	0.327	1.2	91	0.00	5.41
80		m,p-Xylene	1.421	1.344	5.4	90	0.00	5.50
81		o-Xylene	1.488	1.402	5.8	89	0.00	5.80
82		Styrene	1.073	1.007	6.2	87	0.00	5.83
83		Bromoform	0.248	0.243	2.0	88	0.00	5.84
84		Isopropylbenzene	1.753	1.637	6.6	89	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.770	2.7	86	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.189	10.0	81	0.00	6.27
88		n-Propylbenzene	3.687	3.448	6.5	88	0.00	6.35
89		Bromobenzene	0.699	0.670	4.1	90	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.802	2.6	91	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.325	7.1	88	0.00	6.51
92		2-Chlorotoluene	2.035	1.911	6.1	89	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.265	0.0	91	0.00	6.51
94		1,2,3-Trichloropropane	0.216	0.222	-2.8	90	0.00	6.47
95		Cyclohexanone	0.025	0.028	-12.0	102	0.00	6.48
96		4-Chlorotoluene	2.179	2.046	6.1	89	0.00	6.58
97		tert-Butylbenzene	1.506	1.378	8.5	87	0.00	6.74
98		1,2,4-Trimethylbenzene	2.343	2.212	5.6	89	0.00	6.80
99		Pentachloroethane	0.377	0.375	0.5	87	0.00	6.74
100		sec-Butylbenzene	3.172	2.919	8.0	87	0.00	6.89
101		4-Isopropyltoluene	2.693	2.452	8.9	86	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.292	5.0	89	0.00	7.04
103		1,2,3-Trimethylbenzene	2.322	2.239	3.6	89	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.303	4.2	89	0.00	7.11
105		n-Butylbenzene	1.232	1.126	8.6	87	0.00	7.34
106		Benzyl Chloride	0.302	0.306	-1.3	87	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.187	2.7	90	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.162	3.0	84	0.00	8.01
109		Hexachlorobutadiene	0.346	0.314	9.2	88	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.695	6.3	86	0.00	8.50
111		Naphthalene	2.028	1.996	1.6	89	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.617	7.1	87	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A56274.D V2A1910_06252024.M Thu Jun 27 08:32:53 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V2A1913-ECC1910
Lab FileID: 2A56380.D

Evaluate Continuing Calibration Report

Data File : X:\Orlando VOA\jhene...913\V2A1913\2A56380.d Vial: 28
Acq On : 27 Jun 2024 6:28 pm Operator: jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : X:\Orlando VOA\j...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Jun 25 13:23:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	88	0.00	3.40
2	Dichlorodifluoromethane	0.247	0.217	12.1	79	0.00	1.03
3	Chloromethane	0.284	0.253	10.9	83	0.00	1.13
	----------	True	Calc.	% Drift	----------		
4	1,3-butadiene	25.000	23.839	4.6	85	0.00	1.19
	----------	AvgRF	CCRF	% Dev	----------		
5	Vinyl Chloride	0.288	0.249	13.5	82	0.00	1.17
6	Bromomethane	0.125	0.125	0.0	94	0.00	1.35
	----------	True	Calc.	% Drift	----------		
7	Chloroethane	25.000	24.630	1.5	90	0.00	1.41
	----------	AvgRF	CCRF	% Dev	----------		
8	Trichlorofluoromethane	0.382	0.378	1.0	88	0.00	1.50
9	Ethyl Ether	0.204	0.203	0.5	91	0.00	1.66
10	Ethanol	0.003	0.004	-33.3	129	0.00	1.71
	----------	True	Calc.	% Drift	----------		
11	1,2-Dichlorotrifluoroetha	25.000	36.231	-44.9	124	0.00	1.74
	----------	AvgRF	CCRF	% Dev	----------		
12	1,1-Dichloroethene	0.389	0.363	6.7	85	0.00	1.76
13	Freon 113	0.230	0.229	0.4	85	0.00	1.79
	----------	True	Calc.	% Drift	----------		
14	Carbon Disulfide	25.000	24.081	3.7	83	0.00	1.78
15	Iodomethane	25.000	29.116	-16.5	105	0.00	1.83
	----------	AvgRF	CCRF	% Dev	----------		
16	Acrolein	0.048	0.047	2.1	84	0.00	1.90
17	Allyl chloride	0.380	0.352	7.4	83	0.00	2.00
18	Methylene Chloride	0.355	0.356	-0.3	92	0.00	2.04
19	Acetone	0.100	0.104	-4.0	88	0.00	2.05
20	Methyl acetate	0.249	0.248	0.4	88	0.00	2.13
21	trans-1,2-Dichloroethene	0.386	0.340	11.9	83	0.00	2.13
22	Hexane	0.230	0.234	-1.7	88	0.00	2.20
23	Methyl Tert Butyl Ether	0.701	0.699	0.3	89	0.00	2.20
24	Acetonitrile	0.034	0.035	-2.9	90	0.00	2.27
25	Tert Butyl Alcohol	0.040	0.044	-10.0	100	0.00	2.21
26	Di-isopropyl ether	0.792	0.786	0.8	92	0.00	2.39

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V2A1913-ECC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56380.D
Project: Former Seneca Army Depot; Romulus, NY

27		Chloroprene	1.038	1.026	1.2	87	0.00	2.44
28		1,1-Dichloroethane	0.493	0.460	6.7	89	0.00	2.44
29		Acrylonitrile	0.125	0.125	0.0	88	0.00	2.44
30		ETBE	0.751	0.767	-2.1	92	0.00	2.58
31		Vinyl acetate	0.599	0.631	-5.3	88	0.00	2.56
		----------	True	Calc.	% Drift	----------		
32		cis-1,2-Dichloroethene	25.000	23.494	6.0	85	0.00	2.72
		----------	AvgRF	CCRF	% Dev	----------		
33		2,2-Dichloropropane	0.399	0.324	18.8	79	0.00	2.78
34		Bromochloromethane	0.139	0.133	4.3	88	0.00	2.82
35		Cyclohexane	0.458	0.433	5.5	83	0.00	2.86
		----------	True	Calc.	% Drift	----------		
36		Chloroform	25.000	25.010	-0.0	87	0.00	2.86
		----------	AvgRF	CCRF	% Dev	----------		
37		Ethyl acetate	0.328	0.347	-5.8	91	0.00	2.91
38		Tetrahydrofuran	0.117	0.123	-5.1	99	0.00	2.94
39	S	Dibromofluoromethane	0.289	0.279	3.5	86	0.00	2.95
40		Carbon Tetrachloride	0.381	0.348	8.7	88	0.00	2.96
41		1,1,1-Trichloroethane	0.437	0.390	10.8	86	0.00	2.99
42		2-Butanone	0.164	0.177	-7.9	91	0.00	3.00
43		1,1-Dichloropropene	0.345	0.322	6.7	85	0.00	3.05
44		tert-Butyl formate	0.205	0.220	-7.3	93	0.00	3.09
45		Propionitrile	0.047	0.048	-2.1	89	0.00	3.14
46		Methacrylonitrile	0.184	0.195	-6.0	89	0.00	3.17
47		Benzene	1.011	0.953	5.7	89	0.00	3.18
48		TAME	0.656	0.672	-2.4	94	0.00	3.25
49	S	1,2-Dichloroethane-d4	0.346	0.350	-1.2	88	0.00	3.24
50		1,2-Dichloroethane	0.369	0.370	-0.3	91	0.00	3.27
51		Isobutyl Alcohol	0.025	0.028	-12.0	99	0.00	3.26
52		Tert Amyl Alcohol	0.032	0.037	-15.6	100	0.00	3.32
53		Trichloroethene	0.288	0.266	7.6	86	0.00	3.50
54		Methylcyclohexane	0.446	0.440	1.3	89	0.00	3.53
55		Dibromomethane	0.175	0.170	2.9	87	0.00	3.74
56		1,2-Dichloropropane	0.261	0.243	6.9	85	0.00	3.79
57		Bromodichloromethane	0.365	0.336	7.9	84	0.00	3.83
58		Methyl methacrylate	0.246	0.263	-6.9	92	0.00	3.92
59		1,4-Dioxane	0.003	0.003	0.0	128	0.00	3.94
60		2-Chloroethyl vinyl ether	0.178	0.181	-1.7	90	0.00	4.17
61		cis-1,3-Dichloropropene	0.396	0.378	4.5	85	0.00	4.21
62	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	5.35
63	S	Toluene-d8	1.355	1.385	-2.2	87	0.00	4.34
64		Toluene	1.500	1.418	5.5	87	0.00	4.37
65		2-Nitropropane	0.132	0.136	-3.0	87	0.00	4.47
66		4-Methyl-2-pentanone	0.448	0.480	-7.1	91	0.00	4.58
67		trans-1,3-Dichloropropene	0.496	0.494	0.4	87	0.00	4.61
68		Tetrachloroethene	0.388	0.408	-5.2	93	0.00	4.63
69		Ethyl methacrylate	0.444	0.447	-0.7	84	0.00	4.73
70		1,1,2-Trichloroethane	0.282	0.274	2.8	87	0.00	4.71
71		Dibromochloromethane	0.350	0.350	0.0	87	0.00	4.84
72		1,3-Dichloropropane	0.490	0.515	-5.1	90	0.00	4.89
73		1,2-Dibromoethane	0.335	0.348	-3.9	90	0.00	4.99
74		3,3-Dimethyl-1-Butanol	0.055	0.059	-7.3	93	0.00	5.12
75		2-hexanone	0.434	0.466	-7.4	91	0.00	5.14
76		1-Chlorohexane	0.568	0.494	13.0	79	0.00	5.36
77		Ethylbenzene	1.738	1.668	4.0	89	0.00	5.39

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V2A1913-ECC1910
Account: EAENYS EA Engineering **Lab FileID:** 2A56380.D
Project: Former Seneca Army Depot; Romulus, NY

78		Chlorobenzene	0.971	0.927	4.5	87	0.00	5.36
79		1,1,1,2-Tetrachloroethane	0.331	0.333	-0.6	90	0.00	5.41
80		m,p-Xylene	1.421	1.339	5.8	86	0.00	5.50
81		o-Xylene	1.488	1.413	5.0	87	0.00	5.80
82		Styrene	1.073	1.024	4.6	85	0.00	5.83
83		Bromoform	0.248	0.238	4.0	83	0.00	5.84
84		Isopropylbenzene	1.753	1.623	7.4	85	0.00	6.04
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	7.09
86	S	4-Bromofluorobenzene	0.791	0.758	4.2	85	0.00	6.23
87		cis-1,4-Dichloro-2-butene	0.210	0.174	17.1	76	0.00	6.26
88		n-Propylbenzene	3.687	3.290	10.8	85	0.00	6.34
89		Bromobenzene	0.699	0.646	7.6	88	0.00	6.31
90		1,1,2,2-Tetrachloroethane	0.823	0.764	7.2	87	0.00	6.37
91		1,3,5-Trimethylbenzene	2.504	2.262	9.7	87	0.00	6.50
92		2-Chlorotoluene	2.035	1.847	9.2	87	0.00	6.45
93		trans-1,4-Dichloro-2-Bute	0.265	0.233	12.1	81	0.00	6.50
94		1,2,3-Trichloropropane	0.216	0.219	-1.4	90	0.00	6.47
95		Cyclohexanone	0.025	0.029	-16.0	107	0.00	6.48
96		4-Chlorotoluene	2.179	1.971	9.5	87	0.00	6.58
97		tert-Butylbenzene	1.506	1.361	9.6	87	0.00	6.75
98		1,2,4-Trimethylbenzene	2.343	2.171	7.3	88	0.00	6.80
99		Pentachloroethane	0.377	0.337	10.6	79	0.00	6.75
100		sec-Butylbenzene	3.172	2.926	7.8	88	0.00	6.89
101		4-Isopropyltoluene	2.693	2.464	8.5	88	0.00	7.01
102		1,3-Dichlorobenzene	1.360	1.290	5.1	90	0.00	7.04
103		1,2,3-Trimethylbenzene	2.322	2.237	3.7	90	0.00	7.14
104		1,4-Dichlorobenzene	1.360	1.281	5.8	88	0.00	7.11
105		n-Butylbenzene	1.232	1.137	7.7	88	0.00	7.34
106		Benzyl Chloride	0.302	0.254	15.9	73	0.00	7.29
107		1,2-Dichlorobenzene	1.220	1.175	3.7	90	0.00	7.42
108		1,2-Dibromo-3-Chloropropa	0.167	0.156	6.6	81	0.00	8.01
109		Hexachlorobutadiene	0.346	0.320	7.5	91	0.00	8.51
110		1,2,4-Trichlorobenzene	0.742	0.731	1.5	92	0.00	8.50
111		Naphthalene	2.028	1.954	3.6	88	0.00	8.71
112		1,2,3-Trichlorobenzene	0.664	0.654	1.5	93	0.00	8.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A56274.D V2A1910_06252024.M Fri Jun 28 06:34:28 2024

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

Response Factor Report MSVOA20_5E

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Calibration Files
1 =5E47451.D 2 =5E47453.D 3 =5E47454.D 4 =5E47455.D
5 =5E47456.D 6 =5E47457.D 7 =5E47458.D 8 =5E47452.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------									
2) Dichlorodifl	0.176	0.151	0.154	0.144	0.158	0.159	0.162	0.146	0.156	6.38
3) Chloromethan	0.369	0.253	0.253	0.231	0.237	0.241	0.247	0.264	0.262	16.94
---- Linear regr., Force(0,0) ---- Coefficient = 0.9991										
Response Ratio = 0.00000 + 0.24308 *A										
4) Vinyl Chlori	0.433	0.309	0.319	0.293	0.308	0.306	0.291	0.299	0.320	14.61
5) 1,3-Butadien	0.724	0.566	0.490	0.411	0.405	0.374	0.366	0.535	0.484	25.28
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.39044 *A										
6) Bromomethane	0.313	0.190	0.203	0.185	0.201	0.221	0.235	0.223	0.222	18.32
---- Linear regr., Force(0,0) ---- Coefficient = 0.9921										
Response Ratio = 0.00000 + 0.21907 *A										
7) Chloroethane	0.277	0.204	0.228	0.261	0.213			0.212	0.232	12.81
8) Trichloroflu	0.373	0.281	0.279	0.275	0.308	0.323	0.371	0.269	0.310	13.65
9) Ethyl Ether	0.141	0.133	0.161	0.142	0.151	0.156	0.165	0.151	0.150	7.21
10) Ethanol		0.000	0.001	0.003	0.003	0.003	0.003		0.002	60.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.00314 *A										
11) 1,2-Dichloro	0.124	0.143	0.157	0.150	0.161	0.163	0.175	0.195	0.158	13.28
12) 1,1-Dichloro	0.238	0.241	0.272	0.240	0.270	0.280	0.300	0.294	0.267	9.25
13) Freon 113	0.125	0.153	0.188	0.166	0.184	0.188	0.197	0.203	0.175	14.91
---- Linear regr., Force(0,0) ---- Coefficient = 0.9968										
Response Ratio = 0.00000 + 0.18777 *A										
14) Carbon Disul	0.549	0.484	0.518	0.457	0.502	0.524	0.561	0.607	0.525	8.94
15) Iodomethane	0.074	0.115	0.174	0.180	0.196	0.208	0.220	0.099	0.158	34.48
---- Linear regr., Force(0,0) ---- Coefficient = 0.9948										
Response Ratio = 0.00000 + 0.20337 *A										
16) Acrolein	0.023	0.034	0.033	0.038	0.041	0.044	0.045	0.034	0.036	19.96
---- Linear regr., Force(0,0) ---- Coefficient = 0.9958										
Response Ratio = 0.00000 + 0.04237 *A										
17) Allyl chlori	0.371	0.327	0.275	0.270	0.288	0.302	0.310	0.246	0.298	12.88
18) Methylene Ch	0.955	0.397	0.380	0.270	0.276	0.274	0.285	0.673	0.439	56.68
---- Linear regr., Force(0,0) ---- Coefficient = 0.9965										
Response Ratio = 0.00000 + 0.29052 *A										
19) Acetone	0.087	0.084	0.084	0.089	0.084	0.091	0.094	0.093	0.088	4.69
20) Methyl aceta	0.165	0.172	0.206	0.201	0.210	0.234	0.248	0.171	0.201	15.17
---- Linear regr., Force(0,0) ---- Coefficient = 0.9939										
Response Ratio = 0.00000 + 0.22958 *A										

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
21) trans-1,2-Di 0.254 0.231 0.268 0.238 0.263 0.282 0.308 0.281 0.266   9.45
22) Hexane       0.110 0.155 0.172 0.151 0.170 0.171 0.180 0.189 0.162  14.99
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9969
              Response Ratio = 0.00000 + 0.17216 *A

23) Methyl Tert  0.452 0.442 0.514 0.477 0.513 0.545 0.574 0.513 0.504   8.93
24) Acetonitrile 0.034 0.033 0.032 0.032 0.033 0.037 0.038 0.028 0.033   9.39
25) Di-isopropyl 0.627 0.606 0.726 0.635 0.667 0.688 0.722 0.724 0.674   7.11
26) Chloroprene  0.193 0.241 0.213 0.222 0.242 0.261 0.280 0.199 0.231  13.00
27) 1,1-Dichloro 0.326 0.313 0.376 0.328 0.350 0.364 0.390 0.372 0.352   7.83
28) Acrylonitril 0.082 0.103 0.082 0.097 0.102 0.111 0.115 0.090 0.098  12.73
29) ETBE         0.447 0.457 0.567 0.507 0.551 0.598 0.648 0.545 0.540  12.63
30) Tert Butyl A 0.025 0.030 0.036 0.035 0.037 0.042 0.043 0.032 0.035  16.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9944
              Response Ratio = 0.00000 + 0.04020 *A

31) Vinyl acetat 0.012 0.422 0.420 0.500 0.545 0.610 0.652 0.384 0.443  44.80
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9915
              Response Ratio = 0.00000 + 0.59015 *A

32) cis-1,2-Dich 0.174 0.179 0.211 0.189 0.199 0.200 0.216 0.202 0.196   7.43
33) 2,2-Dichloro 0.209 0.206 0.229 0.215 0.236 0.241 0.259 0.221 0.227   7.89
34) Bromochlorom 0.067 0.083 0.096 0.084 0.088 0.090 0.096 0.068 0.084  13.41
35) Cyclohexane  0.241 0.297 0.341 0.310 0.349 0.363 0.384 0.341 0.328  13.63
36) Chloroform   0.277 0.292 0.342 0.317 0.334 0.349 0.372 0.331 0.327   9.41
37) Ethyl acetat 0.291 0.285 0.273 0.303 0.318 0.343 0.355 0.276 0.306  10.03
38) Tetrahydrofu 0.088 0.127 0.140 0.112 0.111 0.119 0.118 0.133 0.118  13.42
39) Dibromofluor 0.251 0.255 0.257 0.256 0.259 0.267 0.271 0.259 0.259   2.52
40) Carbon Tetra 0.138 0.165 0.193 0.180 0.207 0.223 0.243 0.205 0.194  17.03
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9910
              Response Ratio = 0.00000 + 0.22110 *A

41) 1,1,1-Trichl 0.230 0.217 0.260 0.232 0.254 0.264 0.285 0.265 0.251   9.06
42) 2-Butanone   0.011 0.134 0.145 0.164 0.154 0.168 0.171 0.138 0.136  38.39
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.16399 *A

43) 1,1-Dichloro 0.206 0.203 0.245 0.228 0.253 0.259 0.275 0.249 0.240  10.63
44) tert-Butyl f 0.030 0.031 0.042 0.043 0.049 0.060 0.066 0.035 0.044  29.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.03655 *A + 0.00153 *A^2

45) Propionitril 0.037 0.043 0.042 0.044 0.046 0.055 0.059 0.030 0.045  20.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.03910 *A + 0.00102 *A^2

46) Methacryloni 0.178 0.188 0.186 0.191 0.210 0.244 0.263 0.149 0.201  18.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.17446 *A + 0.00456 *A^2

47) Benzene      0.806 0.703 0.797 0.719 0.788 0.843 0.913 0.836 0.801   8.44
48) TAME         0.443 0.436 0.523 0.498 0.536 0.567 0.611 0.500 0.514  11.47
49) 1,2-Dichloro 0.290 0.289 0.297 0.310 0.303 0.322 0.329 0.294 0.304   4.97
50) 1,2-Dichloro 0.208 0.212 0.255 0.232 0.249 0.260 0.274 0.249 0.242   9.60
51) tert Amyl al 0.017 0.020 0.026 0.026 0.028 0.031 0.033 0.019 0.025  22.72
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9933
              Response Ratio = 0.00000 + 0.03016 *A

52) Trichloroeth 0.181 0.184 0.197 0.178 0.194 0.211 0.228 0.201 0.197   8.47
```

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
53) Methylcycloh 0.222 0.275 0.321 0.291 0.345 0.356 0.386 0.339 0.317  16.45
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9930
              Response Ratio = 0.00000 + 0.35604 *A

54) Dibromometha 0.071 0.099 0.123 0.112 0.120 0.129 0.133 0.114 0.113  17.84
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9968
              Response Ratio = 0.00000 + 0.12645 *A

55) 1,2-Dichloro 0.165 0.170 0.200 0.181 0.193 0.196 0.208 0.193 0.188   7.93
56) Bromodichlor 0.171 0.180 0.220 0.203 0.222 0.242 0.258 0.218 0.214  13.56
57) Methyl metha 0.057 0.192 0.195 0.197 0.204 0.218 0.222 0.070 0.169  39.21
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.21217 *A

58) 1,4-Dioxane        0.002 0.002 0.002 0.003 0.003 0.003 0.001 0.002  37.49
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9934
              Response Ratio = 0.00000 + 0.00281 *A

59) 2-Chloroethy 0.058 0.069 0.087 0.088 0.089 0.101 0.098 0.073 0.083  17.87
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.09496 *A

60) cis-1,3-Dich 0.152 0.192 0.254 0.242 0.267 0.285 0.301 0.213 0.238  20.93
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9949
              Response Ratio = 0.00000 + 0.28014 *A


61) I   Chlorobenzene-d5      ----------------ISTD--------------------
62) Toluene-d8   1.452 1.446 1.470 1.426 1.374 1.310 1.221 1.473 1.397   6.43
63) Toluene      1.479 1.067 1.245 1.059 1.101 1.085 1.099 1.353 1.186  13.23
64) Isobutyl alc 0.020 0.019 0.019 0.021 0.022 0.025 0.024 0.016 0.021  13.81
65) 2-Nitropropa 0.035 0.047 0.054 0.059 0.066 0.077 0.081 0.050 0.059  26.56
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.05308 *A + 0.00300 *A^2

66) 4-Methyl-2-p 0.374 0.451 0.454 0.509 0.467 0.498 0.501 0.497 0.469   9.47
67) trans-1,3-Di 0.153 0.248 0.346 0.333 0.363 0.393 0.407 0.257 0.312  27.65
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9956
              Response Ratio = 0.00000 + 0.38113 *A

68) Tetrachloroe 0.259 0.253 0.289 0.272 0.294 0.298 0.310 0.316 0.286   8.02
69) Ethyl methac 0.161 0.305 0.333 0.346 0.367 0.376 0.370 0.129 0.298  32.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.36326 *A

70) 1,1,2-Trichl 0.179 0.198 0.236 0.217 0.222 0.223 0.219 0.214 0.213   8.10
71) Dibromochlor 0.134 0.175 0.212 0.212 0.229 0.238 0.246 0.189 0.204  18.16
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 0.23388 *A

72) 1,3-Dichloro 0.309 0.366 0.453 0.399 0.406 0.404 0.397 0.388 0.390  10.47
73) 1,2-Dibromoe 0.101 0.194 0.259 0.239 0.247 0.255 0.248 0.222 0.220  23.89
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.24720 *A

74) 3,3-Dimethyl 0.018 0.015 0.019 0.024 0.027 0.037 0.041 0.015 0.024  40.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.01783 *A + 0.00024 *A^2

75) 2-hexanone   0.215 0.275 0.307 0.356 0.334 0.365 0.365 0.264 0.310  17.69
```

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.35355 *A

 76) 1-Chlorohexa 0.246 0.297 0.367 0.346 0.382 0.380 0.387 0.329 0.342  14.42
 77) Ethylbenzene 1.587 1.222 1.361 1.251 1.321 1.365 1.449 1.521 1.385   9.18
 78) Chlorobenzen 0.715 0.663 0.773 0.716 0.740 0.758 0.798 0.818 0.748   6.68
 79) 1,1,1,2-Tetr 0.189 0.176 0.224 0.213 0.228 0.232 0.239 0.207 0.214  10.37
 80) m,p-Xylene   1.091 0.848 0.998 0.906 0.984 1.033 1.116 1.037 1.002   8.95
 81) o-Xylene     1.042 0.806 0.994 0.893 0.927 0.927 0.958 0.985 0.941   7.61
 82) Styrene      0.390 0.520 0.668 0.639 0.668 0.691 0.719 0.550 0.606  18.27
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.68669 *A

 83) Bromoform    0.035 0.097 0.123 0.137 0.154 0.170 0.180 0.090 0.123  38.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.12052 *A + 0.03150 *A^2

 84) Isopropylben 0.978 0.989 1.135 1.024 1.101 1.117 1.167 1.150 1.083   6.90

 85) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 86) 4-Bromofluor 0.876 0.858 0.858 0.833 0.816 0.762 0.700 0.891 0.824   7.77
 87) cis-1,4-Dich 0.164 0.100 0.101 0.123 0.136 0.142 0.146 0.208 0.140  25.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
               Response Ratio = 0.00000 + 0.12058 *A + 0.01369 *A^2

 88) n-Propylbenz 2.660 2.493 2.825 2.477 2.675 2.558 2.579 2.970 2.655   6.39
 89) Bromobenzene 0.406 0.465 0.540 0.482 0.500 0.491 0.483 0.552 0.490   9.21
 90) 1,1,2,2-Tetr 0.593 0.631 0.804 0.710 0.743 0.721 0.687 0.722 0.701   9.33
 91) 1,3,5-Trimet 1.491 1.470 1.736 1.543 1.709 1.700 1.780 1.710 1.642   7.37
 92) 2-Chlorotolu 1.775 1.597 1.836 1.589 1.730 1.669 1.741 1.911 1.731   6.45
 93) trans-1,4-Di       0.057 0.092 0.128 0.139 0.153 0.153 0.078 0.114  33.71
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9924
               Response Ratio = 0.00000 + 0.14332 *A

 94) 1,2,3-Trichl 0.102 0.149 0.198 0.178 0.182 0.183 0.174 0.192 0.170  18.14
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.17864 *A

 95) Cyclohexanon 0.028 0.017 0.018 0.021 0.024 0.025 0.024 0.004 0.020  36.31
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9907
               Response Ratio = 0.00000 + 0.02330 *A

 96) 4-Chlorotolu 1.480 1.389 1.560 1.384 1.468 1.416 1.431 1.559 1.461   4.76
 97) a-Methyl sty                                                 0.000  -1.00
 98) tert-Butylbe 0.851 0.914 0.938 0.863 0.939 0.919 0.943 1.085 0.931   7.64
 99) 1,2,4-Trimet 1.515 1.407 1.705 1.537 1.645 1.626 1.693 1.676 1.600   6.53
100) Pentachloroe 0.116 0.210 0.219 0.229 0.267 0.276 0.283 0.141 0.218  28.33
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9961
               Response Ratio = 0.00000 + 0.26779 *A

101) sec-Butylben 2.068 1.999 2.152 1.943 2.162 2.058 2.087 2.402 2.109   6.58
102) 4-Isopropylt 1.333 1.427 1.669 1.508 1.696 1.648 1.693 1.640 1.577   8.72
103) 1,3-Dichloro 0.897 0.875 0.974 0.871 0.933 0.913 0.921 1.009 0.924   5.15
104) 1,2,3-Trimet 1.705 1.563 1.873 1.705 1.885 1.896 1.998 1.934 1.820   8.04
105) 1,4-Dichloro 1.006 0.992 1.141 1.019 1.085 1.075 1.124 1.153 1.074   5.86
106) n-Butylbenze 0.494 0.701 0.849 0.816 0.932 0.915 0.921 0.906 0.817  18.51
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
               Response Ratio = 0.00000 + 0.90169 *A

107) Benzyl Chlor 0.163 0.081 0.119 0.154 0.172 0.191 0.197 0.020 0.137  44.26
```

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICC2113
Lab FileID: 5E47456.D

```
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9935
               Response Ratio = 0.00000 + 0.13023 *A + 0.03685 *A^2

108) 1,2-Dichloro 0.736 0.738 0.922 0.824 0.877 0.853 0.850 0.915 0.839   8.49
109) 1,2-Dibromo- 0.099 0.063 0.084 0.091 0.099 0.107 0.106 0.019 0.083  35.41
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9921
               Response Ratio = 0.00000 + 0.10107 *A

110) Hexachlorobu 0.162 0.169 0.167 0.159 0.170 0.171 0.166 0.210 0.172   9.27
111) 1,2,4-Trichl 0.336 0.383 0.448 0.411 0.462 0.459 0.452 0.436 0.424  10.49
112) Naphthalene  0.810 1.062 1.316 1.265 1.352 1.369 1.321 1.043 1.192  16.75
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 1.32416 *A

113) 1,2,3-Trichl 0.315 0.368 0.400 0.374 0.406 0.400 0.387 0.404 0.382   8.00
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           V5E2113_06252024_.M        Wed Jun 26 07:06:10 2024
```

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-25-2024\5E47460.D Vial: 11
Acq On : 25 Jun 2024 4:14 pm Operator: lianatr
Sample : ICV2113-5 Inst : MSVOA20_5E
Misc : MS56909,V5E2113,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.184	-17.9	124	0.00	2.81
		Amount	Calc.	%Drift			
3	Chloromethane	40.000	41.806	-4.5	114	0.00	3.13
		AvgRF	CCRF	%Dev			
4	Vinyl Chloride	0.320	0.325	-1.6	112	0.00	3.27
		Amount	Calc.	%Drift			
5	1,3-Butadiene	40.000	40.955	-2.4	105	0.00	3.30
6	Bromomethane	40.000	39.107	2.2	113	0.00	3.77
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.232	0.261	-12.5	130	0.00	3.94
8	Trichlorofluoromethane	0.310	0.310	0.0	107	0.00	4.16
9	Ethyl Ether	0.150	0.145	3.3	101	0.00	4.58
		Amount	Calc.	%Drift			
10	Ethanol	800.000	759.838	5.0	103	0.00	4.77
		AvgRF	CCRF	%Dev			
11	1,2-Dichlorotrifluoroetha	0.158	0.230	-45.6#	152	0.00	4.83
12	1,1-Dichloroethene	0.267	0.272	-1.9	107	0.00	4.86
		Amount	Calc.	%Drift			
13	Freon 113	40.000	38.752	3.1	105	0.00	4.90
		AvgRF	CCRF	%Dev			
14	Carbon Disulfide	0.525	0.434	17.3	92	0.00	4.92
		Amount	Calc.	%Drift			
15	Iodomethane	40.000	33.752	15.6	93	0.00	5.06
16	Acrolein	200.000	226.456	-13.2	125	0.00	5.29
		AvgRF	CCRF	%Dev			
17	Allyl chloride	0.298	0.299	-0.3	110	0.00	5.46
		Amount	Calc.	%Drift			
18	Methylene Chloride	40.000	39.178	2.1	109	0.00	5.59
		AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

19		Acetone	0.088	0.092	-4.5	116	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	191.917	4.0	111	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.271	-1.9	109	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	36.066	9.8	97	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.519	-3.0	107	0.00	5.89
24		Acetonitrile	0.033	0.034	-3.0	110	0.00	6.20
25		Di-isopropyl ether	0.674	0.643	4.6	102	0.00	6.32
26		Chloroprene	0.231	0.258	-11.7	113	0.00	6.48
27		1,1-Dichloroethane	0.352	0.350	0.6	106	0.00	6.52
28		Acrylonitrile	0.098	0.095	3.1	99	0.00	6.57
29		ETBE	0.540	0.542	-0.4	104	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	360.932	9.8	105	0.00	5.97
31		Vinyl acetate	200.000	185.431	7.3	107	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.200	-2.0	107	0.00	7.13
33		2,2-Dichloropropane	0.227	0.255	-12.3	114	0.00	7.25
34		Bromochloromethane	0.084	0.089	-6.0	108	0.00	7.35
35		Cyclohexane	0.328	0.342	-4.3	104	0.00	7.36
36		Chloroform	0.327	0.348	-6.4	110	0.00	7.41
37		Ethyl acetate	0.306	0.308	-0.7	103	0.00	7.50
38		Tetrahydrofuran	0.118	0.110	6.8	105	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.266	-2.7	109	0.00	7.61
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	39.507	1.2	112	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.258	-2.8	108	0.00	7.66
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	180.858	9.6	102	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.261	-8.8	109	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	423.888	-6.0	114	0.00	7.87
45		Propionitrile	400.000	404.330	-1.1	110	0.00	8.05
46		Methacrylonitrile	400.000	399.820	0.0	107	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.807	-0.7	109	0.00	8.05
48		TAME	0.514	0.514	0.0	102	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.327	-7.6	114	0.00	8.18
50		1,2-Dichloroethane	0.242	0.253	-4.5	108	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	386.588	3.4	111	0.00	8.28

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.198	-0.5	109	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	38.002	5.0	104	0.00	8.64
54		Dibromomethane	40.000	39.455	1.4	110	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.201	-6.9	111	0.00	9.17
56		Bromodichloromethane	0.214	0.223	-4.2	106	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	38.119	4.7	105	0.00	9.33
58		1,4-Dioxane	800.000	717.106	10.4	102	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	188.312	5.8	106	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	39.838	0.4	111	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	11.59
62	S	Toluene-d8	1.397	1.389	0.6	107	0.00	10.03
63		Toluene	1.186	1.129	4.8	109	0.00	10.09
64		Isobutyl alcohol	0.021	0.023	-9.5	109	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	208.216	-4.1	109	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.495	-5.5	112	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	37.429	6.4	104	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.298	-4.2	107	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	40.482	-1.2	106	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.224	-5.2	107	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	40.246	-0.6	109	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.432	-10.8	113	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	39.570	1.1	105	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2039.782	-2.0	110	0.00	11.19
75		2-hexanone	200.000	205.001	-2.5	115	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.381	-11.4	106	0.00	11.54
77		Ethylbenzene	1.385	1.347	2.7	108	0.00	11.61
78		Chlorobenzene	0.748	0.753	-0.7	108	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.230	-7.5	107	0.00	11.66
80		m,p-Xylene	1.002	0.990	1.2	106	0.00	11.75
81		o-Xylene	0.941	0.917	2.6	105	0.00	12.19

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

			Amount	Calc.	%Drift			
82		Styrene	40.000	40.018	-0.0	109	0.00	12.24
83		Bromoform	40.000	41.712	-4.3	105	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.109	-2.4	107	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.813	1.3	108	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	43.850	-9.6	116	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.615	1.5	106	0.00	12.91
89		Bromobenzene	0.490	0.513	-4.7	112	0.00	12.93
90		1,1,2,2-Tetrachloroethane	0.701	0.724	-3.3	106	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.712	-4.3	109	0.00	13.09
92		2-Chlorotoluene	1.731	1.692	2.3	106	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	42.700	-6.8	119	0.00	13.16
94		1,2,3-Trichloropropane	40.000	42.845	-7.1	114	0.00	13.14
95		Cyclohexanone	200.000	306.622	-53.3#	163	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.432	2.0	106	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.926	0.5	107	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.652	-3.2	109	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	39.006	2.5	106	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.011	4.6	101	0.00	13.62
102		4-Isopropyltoluene	1.577	1.645	-4.3	105	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.904	2.2	105	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.842	-1.2	106	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.076	-0.2	108	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	41.961	-4.9	110	0.00	14.17
107		Benzyl Chloride	40.000	42.741	-6.9	109	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.858	-2.3	106	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	42.520	-6.3	118	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.181	-5.2	115	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.451	-6.4	106	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.390	1.5	105	0.00	16.01
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2113-ICV2113
Lab FileID: 5E47460.D

113	1,2,3-Trichlorobenzene	0.382	0.393	-2.9	105	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Wed Jun 26 07:05:58 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\06-28-2024\5E47520.D Vial: 2
Acq On : 28 Jun 2024 9:44 am Operator: lianatr
Sample : CC2113-5 Inst : MSVOA20_5E
Misc : MS56925,V5E2118,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF / Amount	CCRF / Calc.	%Dev / %Drift	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	91	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.165	-5.8	95	0.00	2.81
	---------- Amount	Calc.	%Drift	----------			
3	Chloromethane	40.000	43.296	-8.2	101	0.00	3.13
	---------- AvgRF	CCRF	%Dev	----------			
4	Vinyl Chloride	0.320	0.335	-4.7	99	0.00	3.27
	---------- Amount	Calc.	%Drift	----------			
5	1,3-Butadiene	40.000	44.307	-10.8	97	0.00	3.30
6	Bromomethane	40.000	46.559	-16.4	116	0.00	3.77
	---------- AvgRF	CCRF	%Dev	----------			
7	Chloroethane	0.232	0.291	-25.4#	124	0.00	3.95
8	Trichlorofluoromethane	0.310	0.335	-8.1	99	0.00	4.15
9	Ethyl Ether	0.150	0.162	-8.0	98	0.00	4.58
	---------- Amount	Calc.	%Drift	----------			
10	Ethanol	800.000	881.085	-10.1	103	0.00	4.77
	---------- AvgRF	CCRF	%Dev	----------			
11	1,2-Dichlorotrifluoroetha	0.158	0.262	-65.8#	148	0.00	4.83
12	1,1-Dichloroethene	0.267	0.313	-17.2	106	0.00	4.86
	---------- Amount	Calc.	%Drift	----------			
13	Freon 113	40.000	43.673	-9.2	102	0.00	4.90
	---------- AvgRF	CCRF	%Dev	----------			
14	Carbon Disulfide	0.525	0.605	-15.2	110	0.00	4.92
	---------- Amount	Calc.	%Drift	----------			
15	Iodomethane	40.000	42.052	-5.1	100	0.00	5.06
16	Acrolein	200.000	202.640	-1.3	96	0.00	5.29
	---------- AvgRF	CCRF	%Dev	----------			
17	Allyl chloride	0.298	0.330	-10.7	105	0.00	5.46
	---------- Amount	Calc.	%Drift	----------			
18	Methylene Chloride	40.000	42.337	-5.8	102	0.00	5.59
	---------- AvgRF	CCRF	%Dev	----------			

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V5E2118-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47520.D
Project: Former Seneca Army Depot; Romulus, NY

19		Acetone	0.088	0.093	-5.7	101	0.00	5.64
			Amount	Calc.	%Drift			
20		Methyl acetate	200.000	203.229	-1.6	101	0.00	5.78
			AvgRF	CCRF	%Dev			
21		trans-1,2-Dichloroethene	0.266	0.299	-12.4	104	0.00	5.79
			Amount	Calc.	%Drift			
22		Hexane	40.000	44.984	-12.5	104	0.00	5.87
			AvgRF	CCRF	%Dev			
23		Methyl Tert Butyl Ether	0.504	0.529	-5.0	94	0.00	5.89
24		Acetonitrile	0.033	0.039	-18.2	108	0.00	6.20
25		Di-isopropyl ether	0.674	0.732	-8.6	100	0.00	6.32
26		Chloroprene	0.231	0.272	-17.7	102	0.00	6.48
27		1,1-Dichloroethane	0.352	0.391	-11.1	102	0.00	6.52
28		Acrylonitrile	0.098	0.108	-10.2	97	0.00	6.57
29		ETBE	0.540	0.591	-9.4	98	0.00	6.74
			Amount	Calc.	%Drift			
30		Tert Butyl Alcohol	400.000	388.897	2.8	97	0.00	5.97
31		Vinyl acetate	200.000	193.654	3.2	96	0.00	6.77
			AvgRF	CCRF	%Dev			
32		cis-1,2-Dichloroethene	0.196	0.210	-7.1	96	0.00	7.12
33		2,2-Dichloropropane	0.227	0.265	-16.7	102	0.00	7.25
34		Bromochloromethane	0.084	0.097	-15.5	100	0.00	7.35
35		Cyclohexane	0.328	0.400	-22.0#	104	0.00	7.36
36		Chloroform	0.327	0.362	-10.7	99	0.00	7.41
37		Ethyl acetate	0.306	0.337	-10.1	97	0.00	7.50
38		Tetrahydrofuran	0.118	0.125	-5.9	102	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.257	0.8	90	0.00	7.60
			Amount	Calc.	%Drift			
40		Carbon Tetrachloride	40.000	41.379	-3.4	101	0.00	7.58
			AvgRF	CCRF	%Dev			
41		1,1,1-Trichloroethane	0.251	0.280	-11.6	100	0.00	7.66
			Amount	Calc.	%Drift			
42		2-Butanone	200.000	206.874	-3.4	100	0.00	7.72
			AvgRF	CCRF	%Dev			
43		1,1-Dichloropropene	0.240	0.284	-18.3	102	0.00	7.78
			Amount	Calc.	%Drift			
44		tert-Butyl formate	400.000	445.497	-11.4	104	0.00	7.87
45		Propionitrile	400.000	444.773	-11.2	106	0.00	8.05
46		Methacrylonitrile	400.000	433.058	-8.3	101	0.00	8.07
			AvgRF	CCRF	%Dev			
47		Benzene	0.801	0.877	-9.5	101	0.00	8.05
48		TAME	0.514	0.562	-9.3	96	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.300	1.3	90	0.00	8.18
50		1,2-Dichloroethane	0.242	0.259	-7.0	95	0.00	8.25
			Amount	Calc.	%Drift			
51		tert Amyl alcohol	400.000	411.413	-2.9	102	0.00	8.28

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

			AvgRF	CCRF	%Dev			
52		Trichloroethene	0.197	0.213	-8.1	100	0.00	8.64
			Amount	Calc.	%Drift			
53		Methylcyclohexane	40.000	42.638	-6.6	100	0.00	8.64
54		Dibromomethane	40.000	40.329	-0.8	97	0.00	9.08
			AvgRF	CCRF	%Dev			
55		1,2-Dichloropropane	0.188	0.210	-11.7	99	0.00	9.17
56		Bromodichloromethane	0.214	0.247	-15.4	101	0.00	9.22
			Amount	Calc.	%Drift			
57		Methyl methacrylate	40.000	42.169	-5.4	100	0.00	9.33
58		1,4-Dioxane	800.000	764.590	4.4	93	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	236.265	-18.1	115	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	41.651	-4.1	100	0.00	9.84
			AvgRF	CCRF	%Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	11.59
62	S	Toluene-d8	1.397	1.376	1.5	91	0.00	10.03
63		Toluene	1.186	1.213	-2.3	100	0.00	10.09
64		Isobutyl alcohol	0.021	0.026	-23.8#	108	0.00	8.17
			Amount	Calc.	%Drift			
65		2-Nitropropane	200.000	267.586	-33.8#	127	0.00	10.31
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.469	0.495	-5.5	97	0.00	10.42
			Amount	Calc.	%Drift			
67		trans-1,3-Dichloropropene	40.000	41.156	-2.9	98	0.00	10.48
			AvgRF	CCRF	%Dev			
68		Tetrachloroethene	0.286	0.318	-11.2	98	0.00	10.49
			Amount	Calc.	%Drift			
69		Ethyl methacrylate	40.000	41.790	-4.5	94	0.00	10.59
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.213	0.233	-9.4	96	0.00	10.65
			Amount	Calc.	%Drift			
71		Dibromochloromethane	40.000	41.089	-2.7	96	0.00	10.84
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.390	0.435	-11.5	97	0.00	10.94
			Amount	Calc.	%Drift			
73		1,2-Dibromoethane	40.000	40.817	-2.0	93	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	2060.151	-3.0	96	0.00	11.19
75		2-hexanone	200.000	206.898	-3.4	100	0.00	11.25
			AvgRF	CCRF	%Dev			
76		1-Chlorohexane	0.342	0.427	-24.9#	102	0.00	11.54
77		Ethylbenzene	1.385	1.460	-5.4	101	0.00	11.61
78		Chlorobenzene	0.748	0.802	-7.2	99	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.242	-13.1	96	0.00	11.66
80		m,p-Xylene	1.002	1.081	-7.9	100	0.00	11.75
81		o-Xylene	0.941	1.019	-8.3	100	0.00	12.18

Continuing Calibration Summary

Job Number: FC16592 **Sample:** V5E2118-CC2113
Account: EAENYS EA Engineering **Lab FileID:** 5E47520.D
Project: Former Seneca Army Depot; Romulus, NY

			Amount	Calc.	%Drift			
82		Styrene	40.000	42.607	-6.5	100	0.00	12.24
83		Bromoform	40.000	45.257	-13.1	100	0.00	12.30
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	1.083	1.213	-12.0	100	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.798	3.2	92	0.00	12.81
			Amount	Calc.	%Drift			
87		cis-1,4-Dichloro-2-butene	40.000	45.917	-14.8	106	0.00	12.85
			AvgRF	CCRF	%Dev			
88		n-Propylbenzene	2.655	2.866	-7.9	101	0.00	12.91
89		Bromobenzene	0.490	0.508	-3.7	96	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.762	-8.7	97	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.807	-10.0	100	0.00	13.09
92		2-Chlorotoluene	1.731	1.823	-5.3	100	0.00	13.11
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	44.770	-11.9	109	0.00	13.16
94		1,2,3-Trichloropropane	40.000	40.991	-2.5	95	0.00	13.14
95		Cyclohexanone	200.000	205.214	-2.6	95	0.00	13.22
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	1.461	1.560	-6.8	100	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.984	-5.7	99	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.738	-8.6	100	0.00	13.50
			Amount	Calc.	%Drift			
100		Pentachloroethane	40.000	41.997	-5.0	99	0.00	13.49
			AvgRF	CCRF	%Dev			
101		sec-Butylbenzene	2.109	2.289	-8.5	100	0.00	13.62
102		4-Isopropyltoluene	1.577	1.793	-13.7	100	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.968	-4.8	98	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.973	-8.4	99	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.112	-3.5	97	0.00	13.97
			Amount	Calc.	%Drift			
106		n-Butylbenzene	40.000	44.464	-11.2	102	0.00	14.17
107		Benzyl Chloride	40.000	48.596	-21.5#	111	0.00	14.20
			AvgRF	CCRF	%Dev			
108		1,2-Dichlorobenzene	0.839	0.885	-5.5	95	0.00	14.39
			Amount	Calc.	%Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	40.039	-0.1	97	0.00	15.12
			AvgRF	CCRF	%Dev			
110		Hexachlorobutadiene	0.172	0.186	-8.1	103	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.451	-6.4	92	0.00	15.71
			Amount	Calc.	%Drift			
112		Naphthalene	40.000	39.795	0.5	92	0.00	16.01
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-CC2113
Lab FileID: 5E47520.D

113	1,2,3-Trichlorobenzene	0.382	0.385	-0.8	90	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Fri Jun 28 11:21:36 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

Evaluate Continuing Calibration Report

Data File : R:\GBS Manila Data V...118\V5E2118\5E47546.d Vial: 28
Acq On : 28 Jun 2024 7:53 pm Operator: lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : R:\GBS Manila Da...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jun 26 06:41:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	76	0.00	8.46
2	Dichlorodifluoromethane	0.156	0.166	-6.4	80	0.00	2.81
	----------	True	Calc.	% Drift	----------		
3	Chloromethane	40.000	45.220	-13.0	88	0.00	3.13
	----------	AvgRF	CCRF	% Dev	----------		
4	Vinyl Chloride	0.320	0.327	-2.2	80	0.00	3.27
	----------	True	Calc.	% Drift	----------		
5	1,3-Butadiene	40.000	52.396	-31.0	96	0.00	3.30
6	Bromomethane	40.000	38.528	3.7	80	0.00	3.77
	----------	AvgRF	CCRF	% Dev	----------		
7	Chloroethane	0.232	0.289	-24.6	103	0.00	3.94
8	Trichlorofluoromethane	0.310	0.307	1.0	76	0.00	4.16
9	Ethyl Ether	0.150	0.173	-15.3	87	0.00	4.58
	----------	True	Calc.	% Drift	----------		
10	Ethanol	800.000	699.696	12.5	68	0.00	4.77
	----------	AvgRF	CCRF	% Dev	----------		
11	1,2-Dichlorotrifluoroetha	0.158	0.265	-67.7#	125	0.00	4.83
12	1,1-Dichloroethene	0.267	0.303	-13.5	85	0.00	4.86
	----------	True	Calc.	% Drift	----------		
13	Freon 113	40.000	40.962	-2.4	79	0.00	4.90
	----------	AvgRF	CCRF	% Dev	----------		
14	Carbon Disulfide	0.525	0.556	-5.9	84	0.00	4.92
	----------	True	Calc.	% Drift	----------		
15	Iodomethane	40.000	44.364	-10.9	88	0.00	5.06
16	Acrolein	200.000	173.600	13.2	69	0.00	5.29
	----------	AvgRF	CCRF	% Dev	----------		
17	Allyl chloride	0.298	0.317	-6.4	84	0.00	5.46
	----------	True	Calc.	% Drift	----------		
18	Methylene Chloride	40.000	43.568	-8.9	87	0.00	5.59
	----------	AvgRF	CCRF	% Dev	----------		

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

19		Acetone	0.088	0.081	8.0	73	0.00	5.64
			True	Calc.	% Drift			
20		Methyl acetate	200.000	198.678	0.7	82	0.00	5.78
			AvgRF	CCRF	% Dev			
21		trans-1,2-Dichloroethene	0.266	0.293	-10.2	85	0.00	5.79
			True	Calc.	% Drift			
22		Hexane	40.000	43.269	-8.2	83	0.00	5.87
			AvgRF	CCRF	% Dev			
23		Methyl Tert Butyl Ether	0.504	0.550	-9.1	81	0.00	5.89
24		Acetonitrile	0.033	0.033	0.0	77	0.00	6.20
25		Di-isopropyl ether	0.674	0.777	-15.3	88	0.00	6.32
26		Chloroprene	0.231	0.260	-12.6	82	0.00	6.49
27		1,1-Dichloroethane	0.352	0.393	-11.6	85	0.00	6.52
28		Acrylonitrile	0.098	0.101	-3.1	75	0.00	6.57
29		ETBE	0.540	0.610	-13.0	84	0.00	6.74
			True	Calc.	% Drift			
30		Tert Butyl Alcohol	400.000	334.556	16.4	70	0.00	5.97
31		Vinyl acetate	200.000	198.777	0.6	82	0.00	6.77
			AvgRF	CCRF	% Dev			
32		cis-1,2-Dichloroethene	0.196	0.213	-8.7	81	0.00	7.13
33		2,2-Dichloropropane	0.227	0.233	-2.6	75	0.00	7.25
34		Bromochloromethane	0.084	0.097	-15.5	84	0.00	7.35
35		Cyclohexane	0.328	0.405	-23.5	88	0.00	7.36
36		Chloroform	0.327	0.360	-10.1	82	0.00	7.41
37		Ethyl acetate	0.306	0.326	-6.5	78	0.00	7.50
38		Tetrahydrofuran	0.118	0.118	0.0	81	0.00	7.59
39	S	Dibromofluoromethane	0.259	0.257	0.8	75	0.00	7.61
			True	Calc.	% Drift			
40		Carbon Tetrachloride	40.000	39.316	1.7	80	0.00	7.58
			AvgRF	CCRF	% Dev			
41		1,1,1-Trichloroethane	0.251	0.267	-6.4	80	0.00	7.66
			True	Calc.	% Drift			
42		2-Butanone	200.000	185.690	7.2	75	0.00	7.72
			AvgRF	CCRF	% Dev			
43		1,1-Dichloropropene	0.240	0.271	-12.9	82	0.00	7.78
			True	Calc.	% Drift			
44		tert-Butyl formate	400.000	404.963	-1.2	77	0.00	7.87
45		Propionitrile	400.000	384.256	3.9	74	0.00	8.05
46		Methacrylonitrile	400.000	420.647	-5.2	81	0.00	8.07
			AvgRF	CCRF	% Dev			
47		Benzene	0.801	0.865	-8.0	83	0.00	8.05
48		TAME	0.514	0.604	-17.5	86	0.00	8.11
49	S	1,2-Dichloroethane-d4	0.304	0.305	-0.3	76	0.00	8.18
50		1,2-Dichloroethane	0.242	0.270	-11.6	82	0.00	8.25
			True	Calc.	% Drift			
51		tert Amyl alcohol	400.000	315.594	21.1	65	0.00	8.28

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

			AvgRF	CCRF	% Dev			
52		Trichloroethene	0.197	0.207	-5.1	81	0.00	8.64
			True	Calc.	% Drift			
53		Methylcyclohexane	40.000	41.303	-3.3	81	0.00	8.64
54		Dibromomethane	40.000	41.915	-4.8	84	0.00	9.08
			AvgRF	CCRF	% Dev			
55		1,2-Dichloropropane	0.188	0.213	-13.3	84	0.00	9.17
56		Bromodichloromethane	0.214	0.240	-12.1	82	0.00	9.22
			True	Calc.	% Drift			
57		Methyl methacrylate	40.000	40.069	-0.2	79	0.00	9.33
58		1,4-Dioxane	800.000	660.446	17.4	67	0.00	9.41
59		2-Chloroethyl vinyl ether	200.000	201.466	-0.7	81	0.00	9.75
60		cis-1,3-Dichloropropene	40.000	39.846	0.4	79	0.00	9.84
			AvgRF	CCRF	% Dev			
61	I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00	11.59
62	S	Toluene-d8	1.397	1.368	2.1	77	0.00	10.03
63		Toluene	1.186	1.181	0.4	83	0.00	10.09
64		Isobutyl alcohol	0.021	0.021	0.0	72	0.00	8.17
			True	Calc.	% Drift			
65		2-Nitropropane	200.000	205.510	-2.8	79	0.00	10.31
			AvgRF	CCRF	% Dev			
66		4-Methyl-2-pentanone	0.469	0.480	-2.3	80	0.00	10.42
			True	Calc.	% Drift			
67		trans-1,3-Dichloropropene	40.000	39.092	2.3	80	0.00	10.48
			AvgRF	CCRF	% Dev			
68		Tetrachloroethene	0.286	0.322	-12.6	85	0.00	10.48
			True	Calc.	% Drift			
69		Ethyl methacrylate	40.000	42.136	-5.3	81	0.00	10.59
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.213	0.238	-11.7	83	0.00	10.65
			True	Calc.	% Drift			
71		Dibromochloromethane	40.000	39.391	1.5	78	0.00	10.84
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.390	0.438	-12.3	84	0.00	10.94
			True	Calc.	% Drift			
73		1,2-Dibromoethane	40.000	40.779	-1.9	79	0.00	11.11
74		3,3-Dimethyl-1-butanol	2000.000	1665.103	16.7	62	0.00	11.19
75		2-hexanone	200.000	183.565	8.2	75	0.00	11.25
			AvgRF	CCRF	% Dev			
76		1-Chlorohexane	0.342	0.398	-16.4	81	0.00	11.54
77		Ethylbenzene	1.385	1.402	-1.2	82	0.00	11.61
78		Chlorobenzene	0.748	0.788	-5.3	83	0.00	11.61
79		1,1,1,2-Tetrachloroethane	0.214	0.234	-9.3	79	0.00	11.66
80		m,p-Xylene	1.002	1.046	-4.4	83	0.00	11.75
81		o-Xylene	0.941	0.979	-4.0	82	0.00	12.18

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

			True	Calc.	% Drift			
82		Styrene	40.000	41.866	-4.7	84	0.00	12.24
83		Bromoform	40.000	39.516	1.2	73	0.00	12.30
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	1.083	1.171	-8.1	83	0.00	12.49
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	13.95
86	S	4-Bromofluorobenzene	0.824	0.793	3.8	77	0.00	12.81
			True	Calc.	% Drift			
87		cis-1,4-Dichloro-2-butene	40.000	28.472	28.8	53	0.00	12.85
			AvgRF	CCRF	% Dev			
88		n-Propylbenzene	2.655	2.785	-4.9	83	0.00	12.91
89		Bromobenzene	0.490	0.521	-6.3	83	0.00	12.94
90		1,1,2,2-Tetrachloroethane	0.701	0.753	-7.4	81	0.00	12.98
91		1,3,5-Trimethylbenzene	1.642	1.757	-7.0	82	0.00	13.09
92		2-Chlorotoluene	1.731	1.766	-2.0	81	0.00	13.11
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	40.000	27.521	31.2	56	0.00	13.17
94		1,2,3-Trichloropropane	40.000	39.631	0.9	77	0.00	13.14
95		Cyclohexanone	200.000	172.545	13.7	67	0.00	13.22
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	1.461	1.525	-4.4	83	0.00	13.27
97		a-Methyl styrene		----------NA----------				
98		tert-Butylbenzene	0.931	0.969	-4.1	82	0.00	13.43
99		1,2,4-Trimethylbenzene	1.600	1.690	-5.6	82	0.00	13.50
			True	Calc.	% Drift			
100		Pentachloroethane	40.000	33.809	15.5	67	0.00	13.49
			AvgRF	CCRF	% Dev			
101		sec-Butylbenzene	2.109	2.194	-4.0	81	0.00	13.62
102		4-Isopropyltoluene	1.577	1.739	-10.3	81	0.00	13.75
103		1,3-Dichlorobenzene	0.924	0.955	-3.4	81	0.00	13.89
104		1,2,3-Trimethylbenzene	1.820	1.964	-7.9	83	0.00	13.96
105		1,4-Dichlorobenzene	1.074	1.115	-3.8	82	0.00	13.97
			True	Calc.	% Drift			
106		n-Butylbenzene	40.000	40.769	-1.9	78	0.00	14.17
107		Benzyl Chloride	40.000	35.949	10.1	65	0.00	14.20
			AvgRF	CCRF	% Dev			
108		1,2-Dichlorobenzene	0.839	0.890	-6.1	81	0.00	14.39
			True	Calc.	% Drift			
109		1,2-Dibromo-3-Chloropropa	40.000	33.324	16.7	68	0.00	15.12
			AvgRF	CCRF	% Dev			
110		Hexachlorobutadiene	0.172	0.168	2.3	78	0.00	15.65
111		1,2,4-Trichlorobenzene	0.424	0.448	-5.7	77	0.00	15.71
			True	Calc.	% Drift			
112		Naphthalene	40.000	38.778	3.1	75	0.00	16.00
			AvgRF	CCRF	% Dev			

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: V5E2118-ECC2113
Lab FileID: 5E47546.D

113	1,2,3-Trichlorobenzene	0.382	0.392	-2.6	77	0.00	16.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5E47456.D V5E2113_06252024_.M Mon Jul 01 07:01:15 2024

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V1O3054	**Method:** SW846 8260D	**Instrument ID:** GCMS1O

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1O3054-BFB	1O84557.D	06/02/24 09:01	n/a	BFB Tune
V1O3054-IC3054	1O84558.D	06/02/24 09:26	n/a	Initial cal 1
V1O3054-IC3054	1O84561.D	06/02/24 10:54	n/a	Initial cal 8
V1O3054-IC3054	1O84562.D	06/02/24 11:19	n/a	Initial cal 2
V1O3054-IC3054	1O84563.D	06/02/24 11:45	n/a	Initial cal 3
V1O3054-IC3054	1O84564.D	06/02/24 12:10	n/a	Initial cal 4
V1O3054-ICC3054	1O84565.D	06/02/24 12:35	n/a	Initial cal 5
V1O3054-IC3054	1O84566.D	06/02/24 13:01	n/a	Initial cal 6
V1O3054-IC3054	1O84567.D	06/02/24 13:26	n/a	Initial cal 7
V1O3054-ICV3054	1O84569.D	06/02/24 14:26	n/a	Initial cal verification 5
V1O3054-BS	1O84570.D	06/02/24 14:51	n/a	Blank Spike
V1O3054-MB	1O84572.D	06/02/24 15:42	n/a	Method Blank
FC15887-9	1O84573.D	06/02/24 16:10	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	1O84574.D	06/02/24 16:35	n/a	(unrelated sample)
ZZZZZZ	1O84575.D	06/02/24 17:01	n/a	(unrelated sample)
ZZZZZZ	1O84576.D	06/02/24 17:26	n/a	(unrelated sample)
ZZZZZZ	1O84577.D	06/02/24 17:51	n/a	(unrelated sample)
ZZZZZZ	1O84578.D	06/02/24 18:17	n/a	(unrelated sample)
ZZZZZZ	1O84579.D	06/02/24 18:42	n/a	(unrelated sample)
FC15887-9MS	1O84580.D	06/02/24 19:07	n/a	Matrix Spike
FC15887-9MSD	1O84581.D	06/02/24 19:33	n/a	Matrix Spike Duplicate
V1O3054-ECC3054	1O84582.D	06/02/24 19:58	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V1O3089	**Method:** SW846 8260D	**Instrument ID:** GCMS1O

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1O3089-BFB	1O85452.D	07/01/24 08:19	n/a	BFB Tune
V1O3089-CC3054	1O85453.D	07/01/24 08:44	n/a	Continuing cal 4
V1O3089-BS	1O85454.D	07/01/24 09:10	n/a	Blank Spike
V1O3089-MB	1O85456.D	07/01/24 10:00	n/a	Method Blank
FC16592-1	1O85457.D	07/01/24 10:28	n/a	SEAD-AL-PT-18A-20240619
ZZZZZZ	1O85458.D	07/01/24 10:54	n/a	(unrelated sample)
ZZZZZZ	1O85459.D	07/01/24 11:19	n/a	(unrelated sample)
ZZZZZZ	1O85460.D	07/01/24 11:45	n/a	(unrelated sample)
ZZZZZZ	1O85461.D	07/01/24 12:10	n/a	(unrelated sample)
ZZZZZZ	1O85462.D	07/01/24 12:35	n/a	(unrelated sample)
ZZZZZZ	1O85463.D	07/01/24 13:01	n/a	(unrelated sample)
ZZZZZZ	1O85464.D	07/01/24 13:26	n/a	(unrelated sample)
ZZZZZZ	1O85465.D	07/01/24 13:51	n/a	(unrelated sample)
ZZZZZZ	1O85466.D	07/01/24 14:17	n/a	(unrelated sample)
ZZZZZZ	1O85467.D	07/01/24 14:42	n/a	(unrelated sample)
ZZZZZZ	1O85468.D	07/01/24 15:07	n/a	(unrelated sample)
ZZZZZZ	1O85470.D	07/01/24 15:58	n/a	(unrelated sample)
ZZZZZZ	1O85471.D	07/01/24 16:24	n/a	(unrelated sample)
ZZZZZZ	1O85472.D	07/01/24 16:56	n/a	(unrelated sample)
ZZZZZZ	1O85473.D	07/01/24 17:15	n/a	(unrelated sample)
ZZZZZZ	1O85474.D	07/01/24 17:40	n/a	(unrelated sample)
ZZZZZZ	1O85475.D	07/01/24 18:05	n/a	(unrelated sample)
ZZZZZZ	1O85476.D	07/01/24 18:31	n/a	(unrelated sample)
FC16592-1MS	1O85477.D	07/01/24 18:56	n/a	Matrix Spike
FC16592-1MSD	1O85478.D	07/01/24 19:21	n/a	Matrix Spike Duplicate
V1O3089-ECC3054	1O85479.D	07/01/24 19:47	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V2A1910	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1910-BFB	2A56264.D	06/25/24 07:28	n/a	BFB Tune
V2A1910-IC1910	2A56266.D	06/25/24 08:07	n/a	Initial cal 1
V2A1910-IC1910	2A56268.D	06/25/24 08:39	n/a	Initial cal 8
V2A1910-IC1910	2A56270.D	06/25/24 09:11	n/a	Initial cal 2
V2A1910-IC1910	2A56272.D	06/25/24 09:43	n/a	Initial cal 3
V2A1910-IC1910	2A56274.D	06/25/24 10:15	n/a	Initial cal 4
V2A1910-ICC1910	2A56276.D	06/25/24 10:47	n/a	Initial cal 5
V2A1910-IC1910	2A56278.D	06/25/24 11:19	n/a	Initial cal 6
V2A1910-IC1910	2A56280.D	06/25/24 11:51	n/a	Initial cal 7
V2A1910-ICV1910	2A56284.D	06/25/24 13:01	n/a	Initial cal verification 5
V2A1910-BS	2A56286.D	06/25/24 13:33	n/a	Blank Spike
V2A1910-MB	2A56288.D	06/25/24 14:22	n/a	Method Blank
FC16589-2	2A56290.D	06/25/24 14:57	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	2A56291.D	06/25/24 15:16	n/a	(unrelated sample)
ZZZZZZ	2A56292.D	06/25/24 15:40	n/a	(unrelated sample)
ZZZZZZ	2A56293.D	06/25/24 16:04	n/a	(unrelated sample)
ZZZZZZ	2A56294.D	06/25/24 16:28	n/a	(unrelated sample)
FC16589-2MS	2A56295.D	06/25/24 16:53	n/a	Matrix Spike
FC16589-2MSD	2A56296.D	06/25/24 17:17	n/a	Matrix Spike Duplicate
V2A1910-ECC1910	2A56297.D	06/25/24 17:41	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V2A1913	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A1913-BFB	2A56353.D	06/27/24 07:38	n/a	BFB Tune
V2A1913-CC1910	2A56354.D	06/27/24 08:02	n/a	Continuing cal 4
V2A1913-BS	2A56355.D	06/27/24 08:26	n/a	Blank Spike
V2A1913-MB	2A56357.D	06/27/24 09:14	n/a	Method Blank
FC16592-20	2A56358.D	06/27/24 09:39	n/a	TRIP BLANK
ZZZZZZ	2A56359.D	06/27/24 10:03	n/a	(unrelated sample)
FC16724-2	2A56360.D	06/27/24 10:27	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	2A56361.D	06/27/24 10:51	n/a	(unrelated sample)
ZZZZZZ	2A56362.D	06/27/24 11:16	n/a	(unrelated sample)
ZZZZZZ	2A56363.D	06/27/24 11:40	n/a	(unrelated sample)
ZZZZZZ	2A56364.D	06/27/24 12:03	n/a	(unrelated sample)
ZZZZZZ	2A56365.D	06/27/24 12:27	n/a	(unrelated sample)
ZZZZZZ	2A56366.D	06/27/24 12:51	n/a	(unrelated sample)
ZZZZZZ	2A56367.D	06/27/24 13:15	n/a	(unrelated sample)
ZZZZZZ	2A56368.D	06/27/24 13:39	n/a	(unrelated sample)
ZZZZZZ	2A56369.D	06/27/24 14:04	n/a	(unrelated sample)
ZZZZZZ	2A56370.D	06/27/24 14:28	n/a	(unrelated sample)
ZZZZZZ	2A56371.D	06/27/24 14:52	n/a	(unrelated sample)
FC16592-14	2A56372.D	06/27/24 15:16	n/a	SEAD-AL-MWT-24-20240619
FC16592-15	2A56373.D	06/27/24 15:40	n/a	SEAD-AL-PT-16-20240619
FC16592-16	2A56374.D	06/27/24 16:04	n/a	SEAD-AL-MWT-10-20240619
FC16592-17	2A56375.D	06/27/24 16:28	n/a	SEAD-AL-MWT-1-20240619
FC16592-18	2A56376.D	06/27/24 16:52	n/a	SEAD-AL-MWT-9-20240619
FC16592-19	2A56377.D	06/27/24 17:16	n/a	SEAD-AL-MWT-5-20240619
FC16724-2MS	2A56378.D	06/27/24 17:40	n/a	Matrix Spike
FC16724-2MSD	2A56379.D	06/27/24 18:04	n/a	Matrix Spike Duplicate
V2A1913-ECC1910	2A56380.D	06/27/24 18:28	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2113	**Method:** SW846 8260D	**Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2113-BFB	5E47450.D	06/25/24 12:21	n/a	BFB Tune
V5E2113-IC2113	5E47451.D	06/25/24 12:49	n/a	Initial cal 1
V5E2113-IC2113	5E47452.D	06/25/24 13:12	n/a	Initial cal 8
V5E2113-IC2113	5E47453.D	06/25/24 13:34	n/a	Initial cal 2
V5E2113-IC2113	5E47454.D	06/25/24 13:57	n/a	Initial cal 3
V5E2113-IC2113	5E47455.D	06/25/24 14:20	n/a	Initial cal 4
V5E2113-ICC2113	5E47456.D	06/25/24 14:43	n/a	Initial cal 5
V5E2113-IC2113	5E47457.D	06/25/24 15:06	n/a	Initial cal 6
V5E2113-IC2113	5E47458.D	06/25/24 15:29	n/a	Initial cal 7
V5E2113-ICV2113	5E47460.D	06/25/24 16:14	n/a	Initial cal verification 5

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: V5E2118 **Method:** SW846 8260D **Instrument ID:** GCMS5E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5E2118-BFB	5E47519.D	06/28/24 09:17	n/a	BFB Tune
V5E2118-CC2113	5E47520.D	06/28/24 09:44	n/a	Continuing cal 5
V5E2118-BS	5E47521.D	06/28/24 10:16	n/a	Blank Spike
V5E2118-MB	5E47523.D	06/28/24 11:02	n/a	Method Blank
FC16592-1	5E47524.D	06/28/24 11:33	n/a	SEAD-AL-PT-18A-20240619
FC16592-2	5E47525.D	06/28/24 11:56	n/a	SEAD-AL-PT-22-20240619
FC16592-3	5E47526.D	06/28/24 12:18	n/a	SEAD-AL-MWT-28-20240619
FC16592-4	5E47527.D	06/28/24 12:41	n/a	SEAD-AL-MW-39-20240619
FC16592-5	5E47528.D	06/28/24 13:04	n/a	SEAD-AL-MW-48-20240619
FC16592-6	5E47529.D	06/28/24 13:27	n/a	SEAD-AL-PT-20-20240619
FC16592-7	5E47530.D	06/28/24 13:50	n/a	SEAD-AL-PT-19-20240619
FC16592-8	5E47531.D	06/28/24 14:12	n/a	SEAD-AL-MW-46-20240619
FC16592-9	5E47532.D	06/28/24 14:35	n/a	SEAD-AL-MW-32-20240619
FC16592-10	5E47533.D	06/28/24 14:57	n/a	SEAD-AL-MW-44A-20240619
FC16592-11	5E47534.D	06/28/24 15:20	n/a	SEAD-AL-MW-58D-20240619
FC16592-12	5E47535.D	06/28/24 15:43	n/a	SEAD-AL-MW-56R-20240619
FC16592-13	5E47536.D	06/28/24 16:06	n/a	SEAD-AL-MW-27-20240619
ZZZZZZ	5E47537.D	06/28/24 16:29	n/a	(unrelated sample)
ZZZZZZ	5E47538.D	06/28/24 16:51	n/a	(unrelated sample)
ZZZZZZ	5E47539.D	06/28/24 17:14	n/a	(unrelated sample)
ZZZZZZ	5E47540.D	06/28/24 17:37	n/a	(unrelated sample)
ZZZZZZ	5E47541.D	06/28/24 17:59	n/a	(unrelated sample)
ZZZZZZ	5E47542.D	06/28/24 18:22	n/a	(unrelated sample)
ZZZZZZ	5E47543.D	06/28/24 18:45	n/a	(unrelated sample)
FC16592-2MS	5E47544.D	06/28/24 19:08	n/a	Matrix Spike
FC16592-2MSD	5E47545.D	06/28/24 19:30	n/a	Matrix Spike Duplicate
V5E2118-ECC2113	5E47546.D	06/28/24 19:53	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85457.d
Acq On : 1 Jul 2024 10:28 am
Operator : jeniferw
Sample : FC16592-1 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 09:53:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

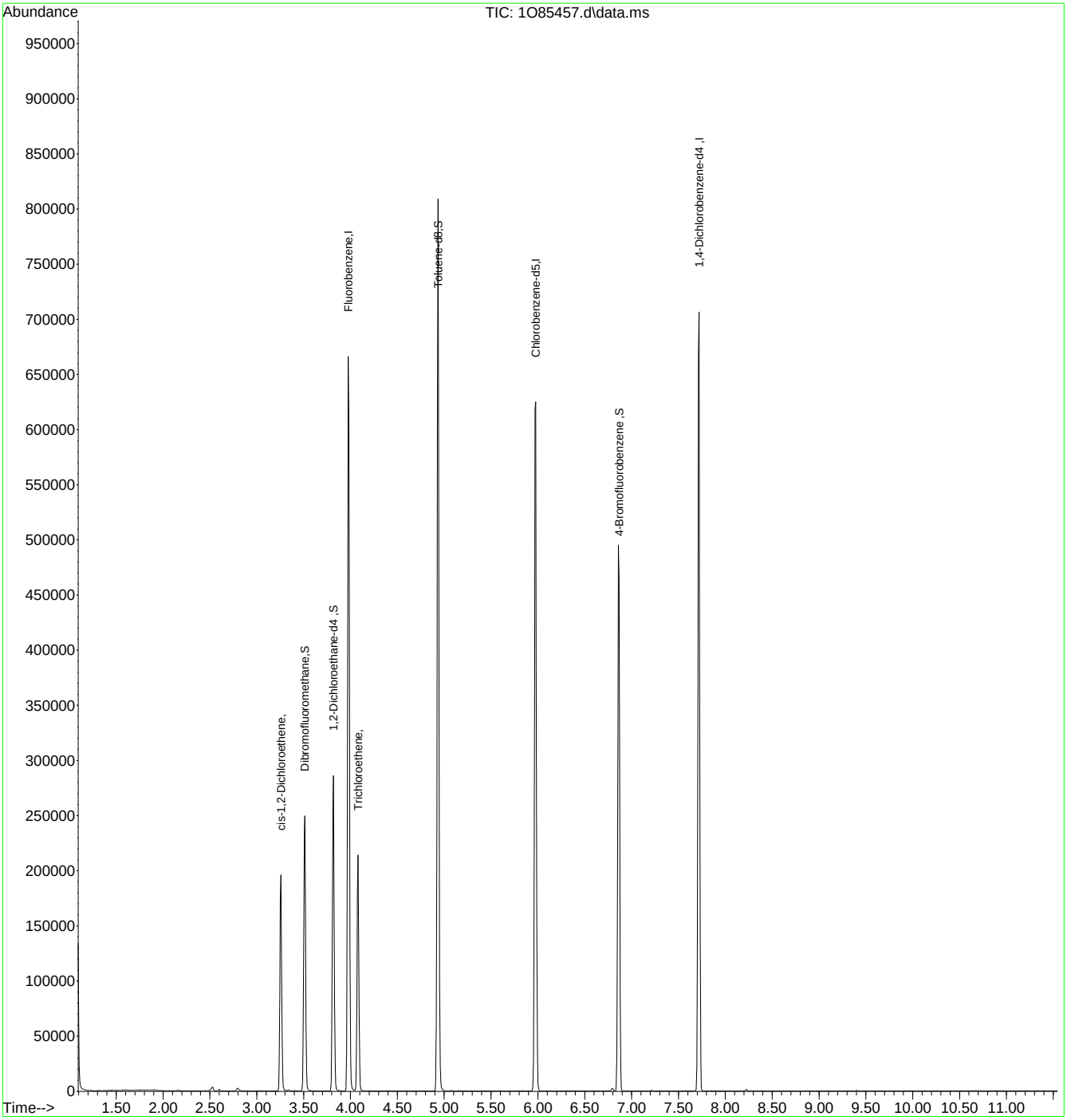
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		3.977	96	403985	50.00	ug/L	0.00
62) Chlorobenzene-d5		5.976	117	260259	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		7.720	152	138994	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		3.513	113	107151	51.61	ug/L	0.00
Spiked Amount	50.000	Range	83 - 118	Recovery	=	103.22%	
50) 1,2-Dichloroethane-d4		3.818	65	150227	55.43	ug/L	0.00
Spiked Amount	50.000	Range	79 - 125	Recovery	=	110.86%	
63) Toluene-d8		4.934	98	381329	50.64	ug/L	0.00
Spiked Amount	50.000	Range	85 - 112	Recovery	=	101.28%	
86) 4-Bromofluorobenzene		6.866	174	97894	50.53	ug/L	0.00
Spiked Amount	50.000	Range	83 - 118	Recovery	=	101.06%	
Target Compounds							Qvalue
32) cis-1,2-Dichloroethene		3.257	96	54067	31.3107	ug/L	99
53) Trichloroethene		4.080	95	51856	29.6602	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

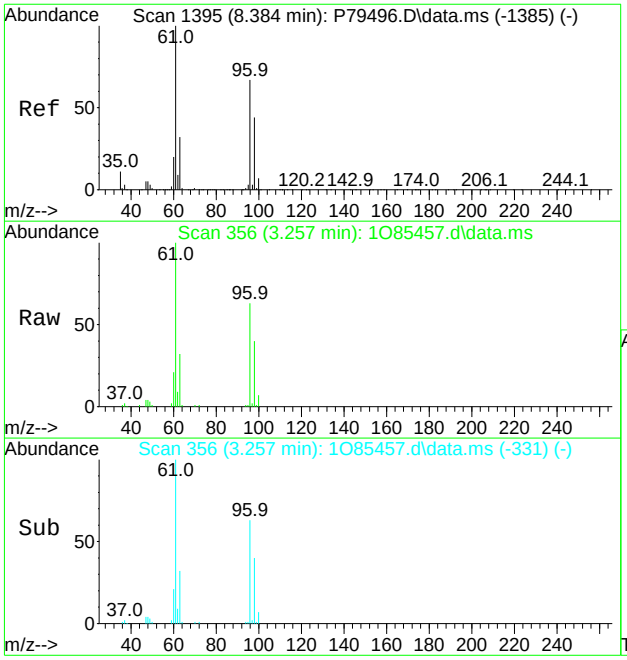
Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85457.d
Acq On : 1 Jul 2024 10:28 am
Operator : jeniferw
Sample : FC16592-1 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 09:53:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



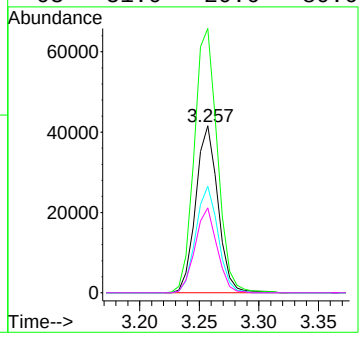
V1O3054_06022024.M Tue Jul 02 11:01:19 2024 Page: 2

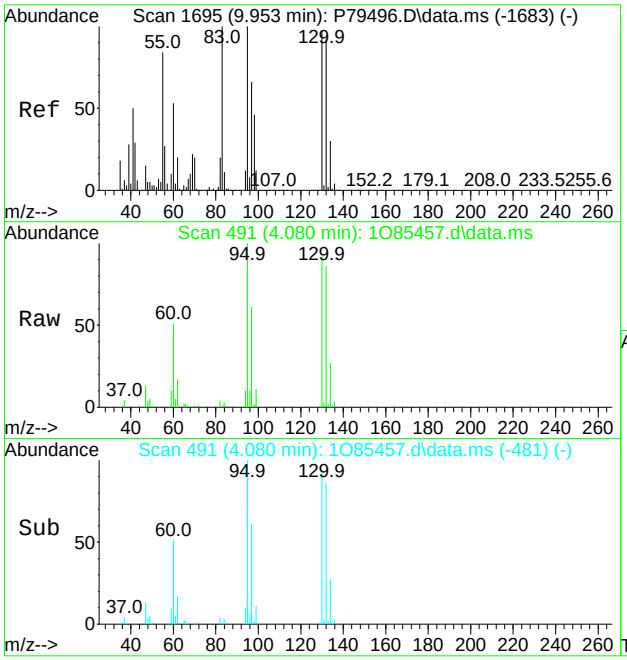


#32
cis-1,2-Dichloroethene
Concen: 31.3107 ug/L
RT: 3.257 min Scan# 356
Delta R.T. 0.000 min
Lab File: 1O85457.d
Acq: 1 Jul 2024 10:28 am

Tgt Ion: 96 Resp: 54067

Ion	Ratio	Lower	Upper
96	100		
61	158.3	129.9	189.9
98	63.8	33.4	93.4
63	51.0	20.6	80.6

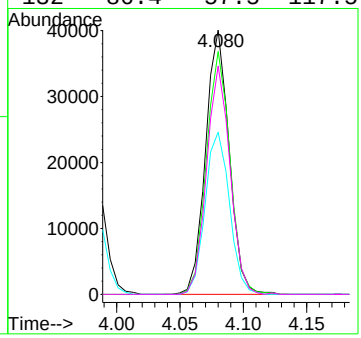




#53
Trichloroethene
Concen: 29.6602 ug/L
RT: 4.080 min Scan# 491
Delta R.T. 0.000 min
Lab File: 1O85457.d
Acq: 1 Jul 2024 10:28 am

Tgt Ion: 95 Resp: 51856

Ion	Ratio	Lower	Upper
95	100		
130	91.9	63.6	123.6
97	61.3	36.3	96.3
132	86.4	57.5	117.5



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47524.d
Acq On : 28 Jun 2024 11:33 am
Operator : lianatr
Sample : FC16592-1 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 06:44:45 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

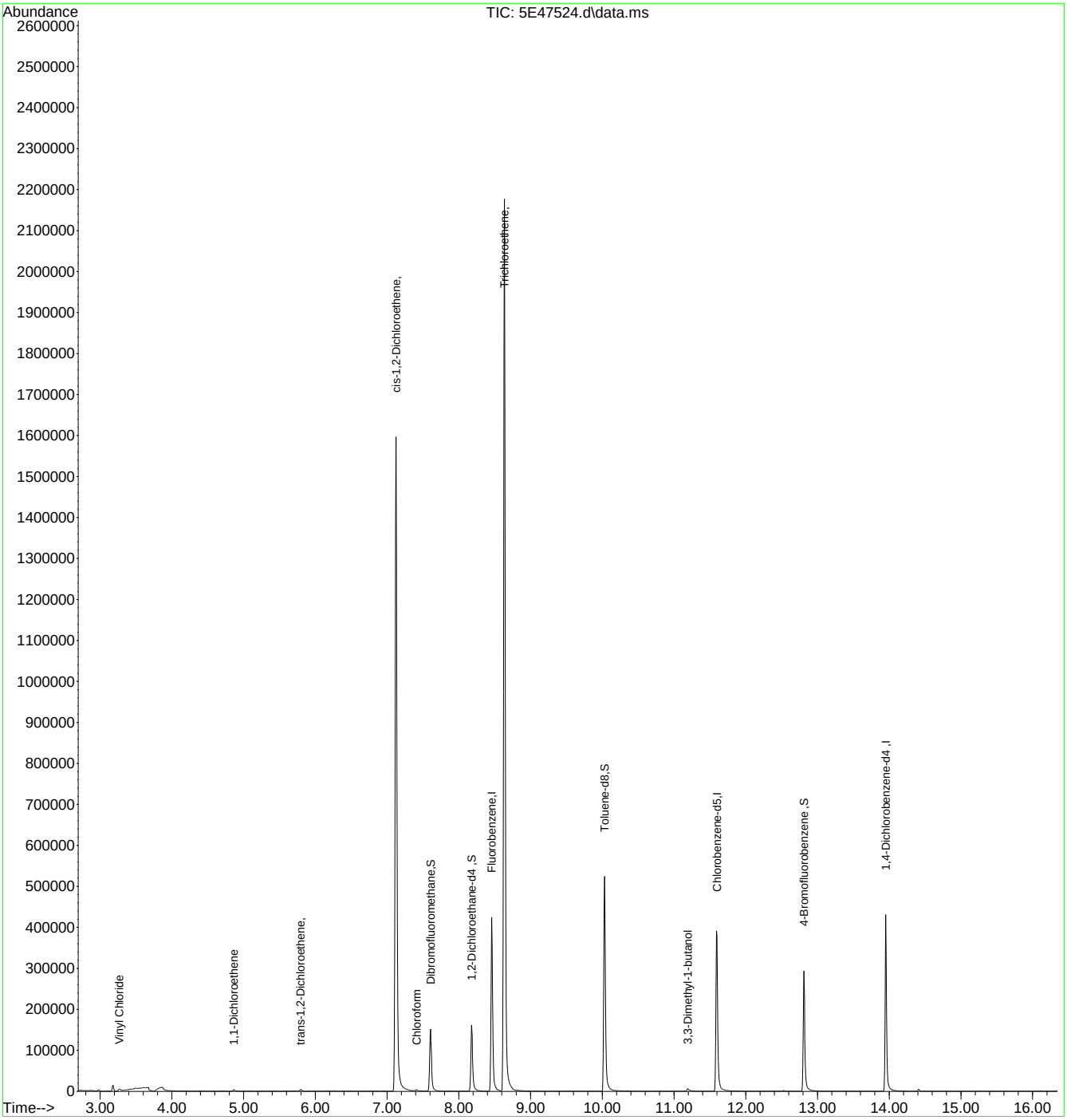
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	344926	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	216116	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	104830	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	87197	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.50%			
49) 1,2-Dichloroethane-d4	8.180	65	100039	47.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.36%			
62) Toluene-d8	10.033	98	321459	53.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.50%			
86) 4-Bromofluorobenzene	12.813	95	94417	54.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.26%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	3875	1.7567	ug/L	94
12) 1,1-Dichloroethene	4.863	61	2407	1.3077	ug/L	94
21) trans-1,2-Dichloroethene	5.796	61	3005	1.6392	ug/L	90
32) cis-1,2-Dichloroethene	7.125	96	605091	447.0957	ug/L	97
36) Chloroform	7.411	83	2776	1.2318	ug/L	92
52) Trichloroethene	8.637	95	579083	426.9020	ug/L	94
74) 3,3-Dimethyl-1-butanol	11.191	57	4290	54.8667	ug/L	83

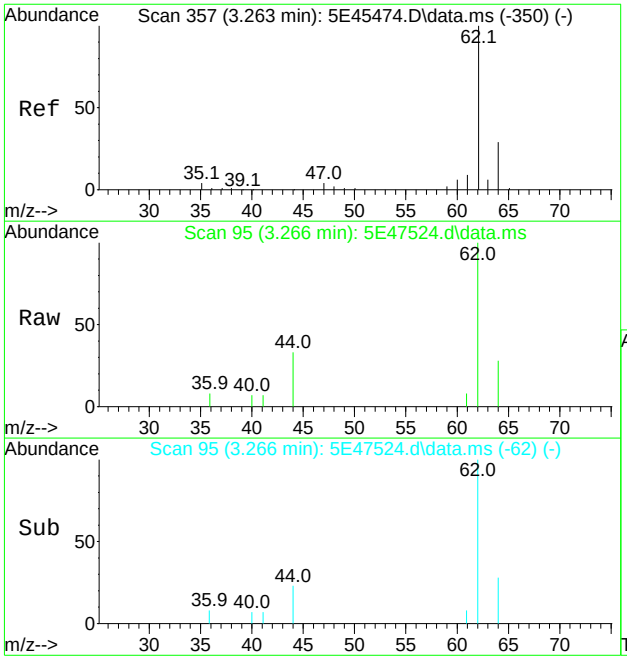
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47524.d
Acq On : 28 Jun 2024 11:33 am
Operator : lianatr
Sample : FC16592-1 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 06:44:45 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

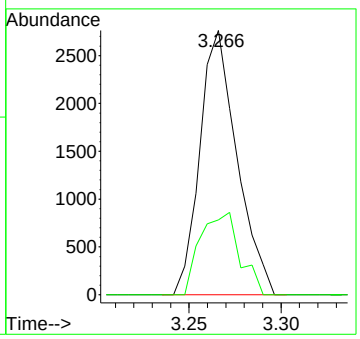


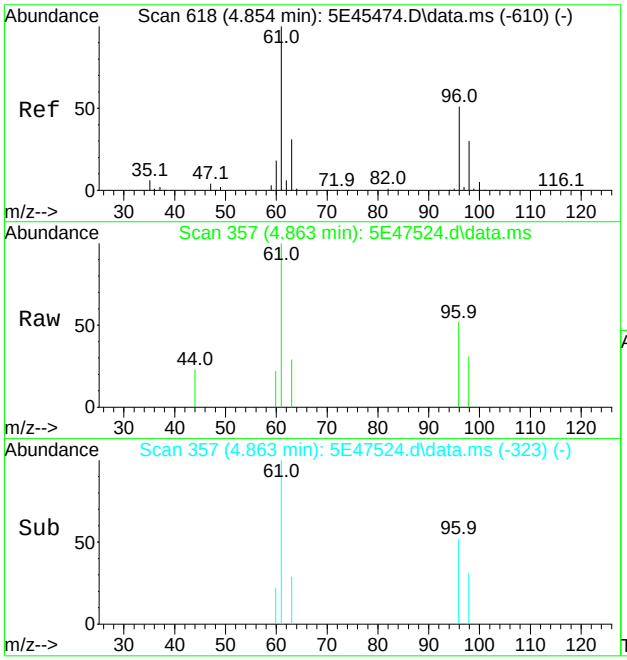


#4
Vinyl Chloride
Concen: 1.7567 ug/L
RT: 3.266 min Scan# 95
Delta R.T. -0.000 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 62 Resp: 3875

Ion	Ratio	Lower	Upper
62	100		
64	28.4	1.8	61.8

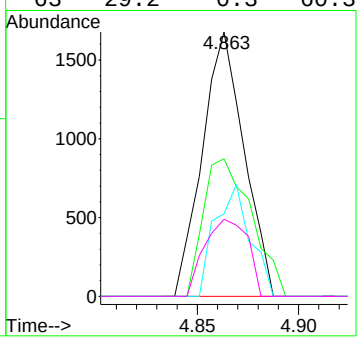


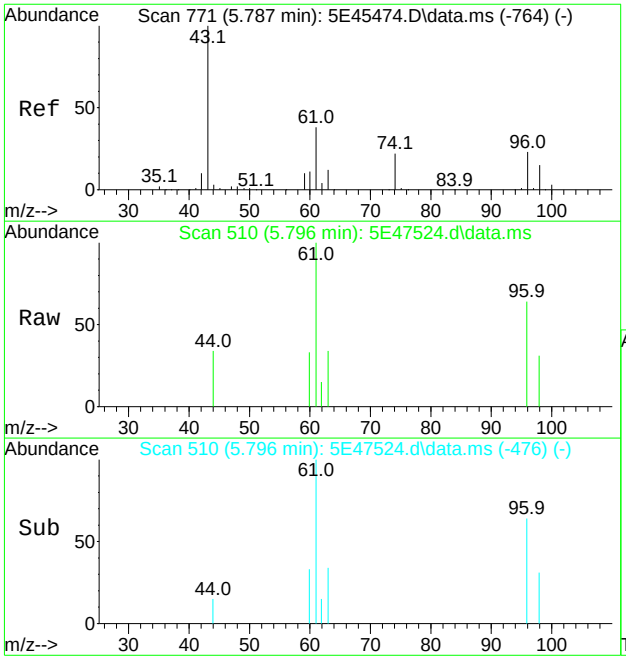


#12
1,1-Dichloroethene
Concen: 1.3077 ug/L
RT: 4.863 min Scan# 357
Delta R.T. 0.006 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 61 Resp: 2407

Ion	Ratio	Lower	Upper
61	100		
96	52.0	27.1	87.1
98	31.2	5.9	65.9
63	29.2	0.3	60.3

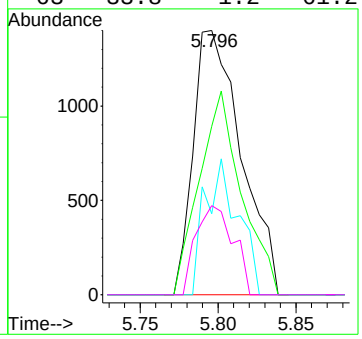


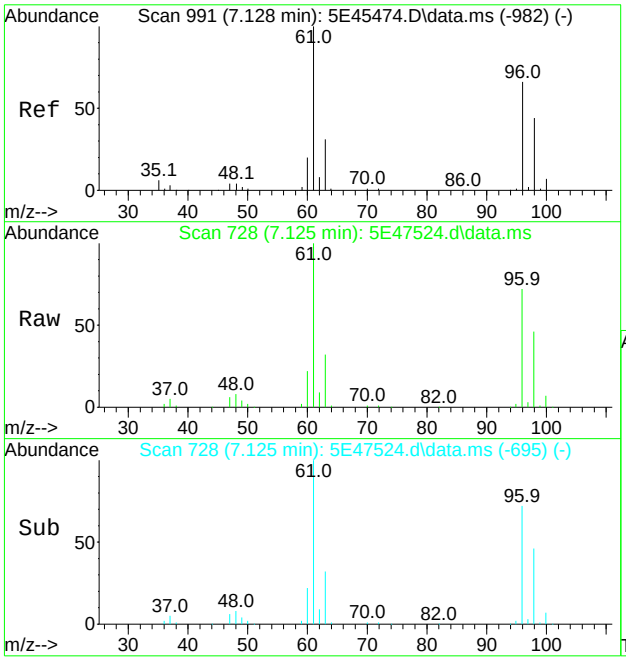


#21
trans-1,2-Dichloroethene
Concen: 1.6392 ug/L
RT: 5.796 min Scan# 510
Delta R.T. 0.006 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 61 Resp: 3005

Ion	Ratio	Lower	Upper
61	100		
96	63.7	38.7	98.7
98	30.7	13.9	73.9
63	33.8	1.2	61.2

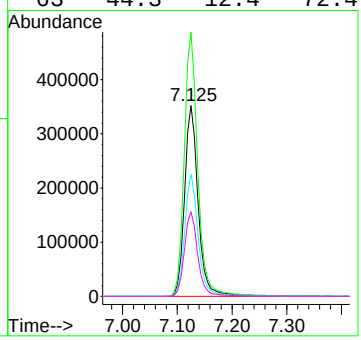


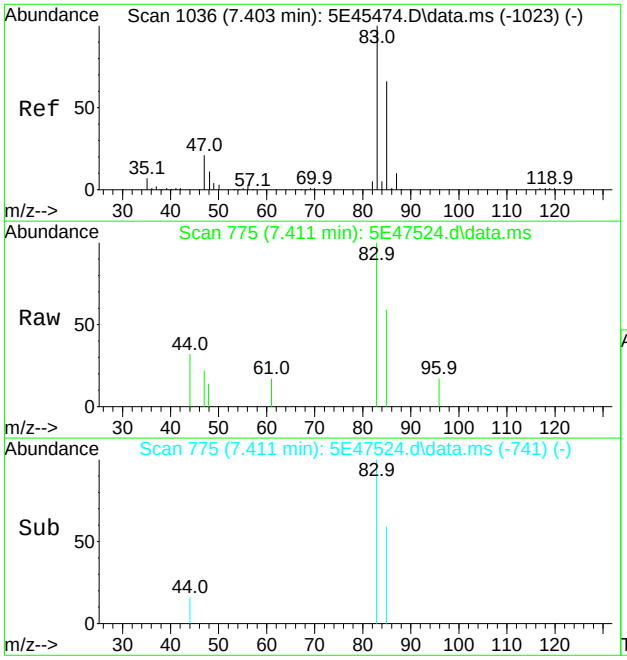


#32
cis-1,2-Dichloroethene
Concen: 447.0957 ug/L
RT: 7.125 min Scan# 728
Delta R.T. -0.000 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 96 Resp: 605091

Ion	Ratio	Lower	Upper
96	100		
61	138.5	104.0	164.0
98	64.0	35.5	95.5
63	44.3	12.4	72.4

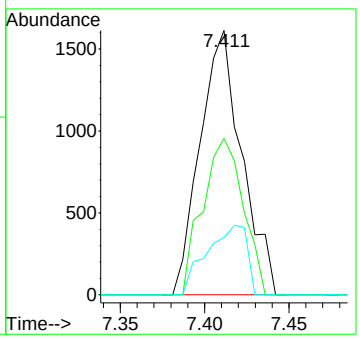


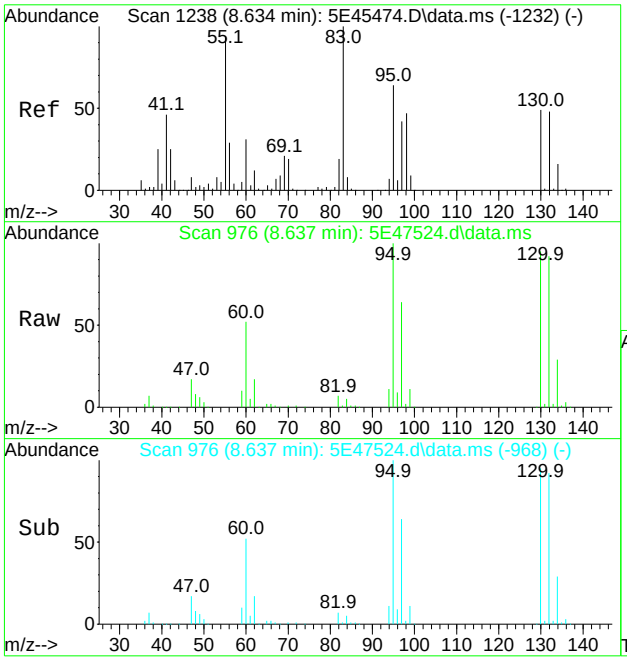


#36
Chloroform
Concen: 1.2318 ug/L
RT: 7.411 min Scan# 775
Delta R.T. 0.006 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 83 Resp: 2776

Ion	Ratio	Lower	Upper
83	100		
85	59.2	34.4	94.4
47	21.7	0.0	57.8

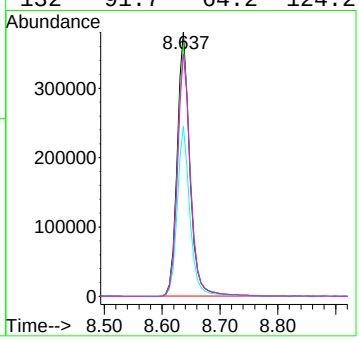


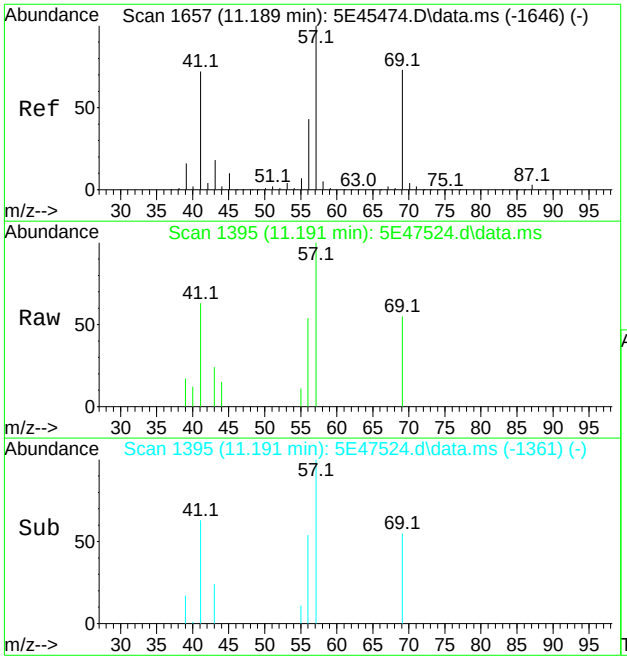


#52
Trichloroethene
Concen: 426.9020 ug/L
RT: 8.637 min Scan# 976
Delta R.T. -0.000 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 95 Resp: 579083

Ion	Ratio	Lower	Upper
95	100		
130	94.8	71.7	131.7
97	64.3	40.5	100.5
132	91.7	64.2	124.2

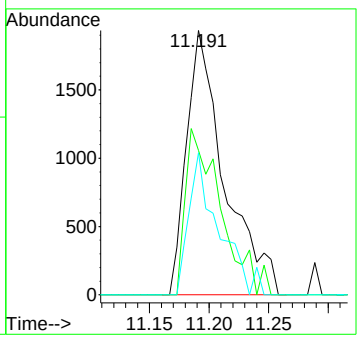




#74
3,3-Dimethyl-1-butanol
Concen: 54.8667 ug/L
RT: 11.191 min Scan# 1395
Delta R.T. 0.006 min
Lab File: 5E47524.d
Acq: 28 Jun 2024 11:33 am

Tgt Ion: 57 Resp: 4290

Ion	Ratio	Lower	Upper
57	100		
69	54.6	50.2	90.2
56	53.8	24.1	64.1



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47525.d
Acq On : 28 Jun 2024 11:56 am
Operator : lianatr
Sample : FC16592-2 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 06:45:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

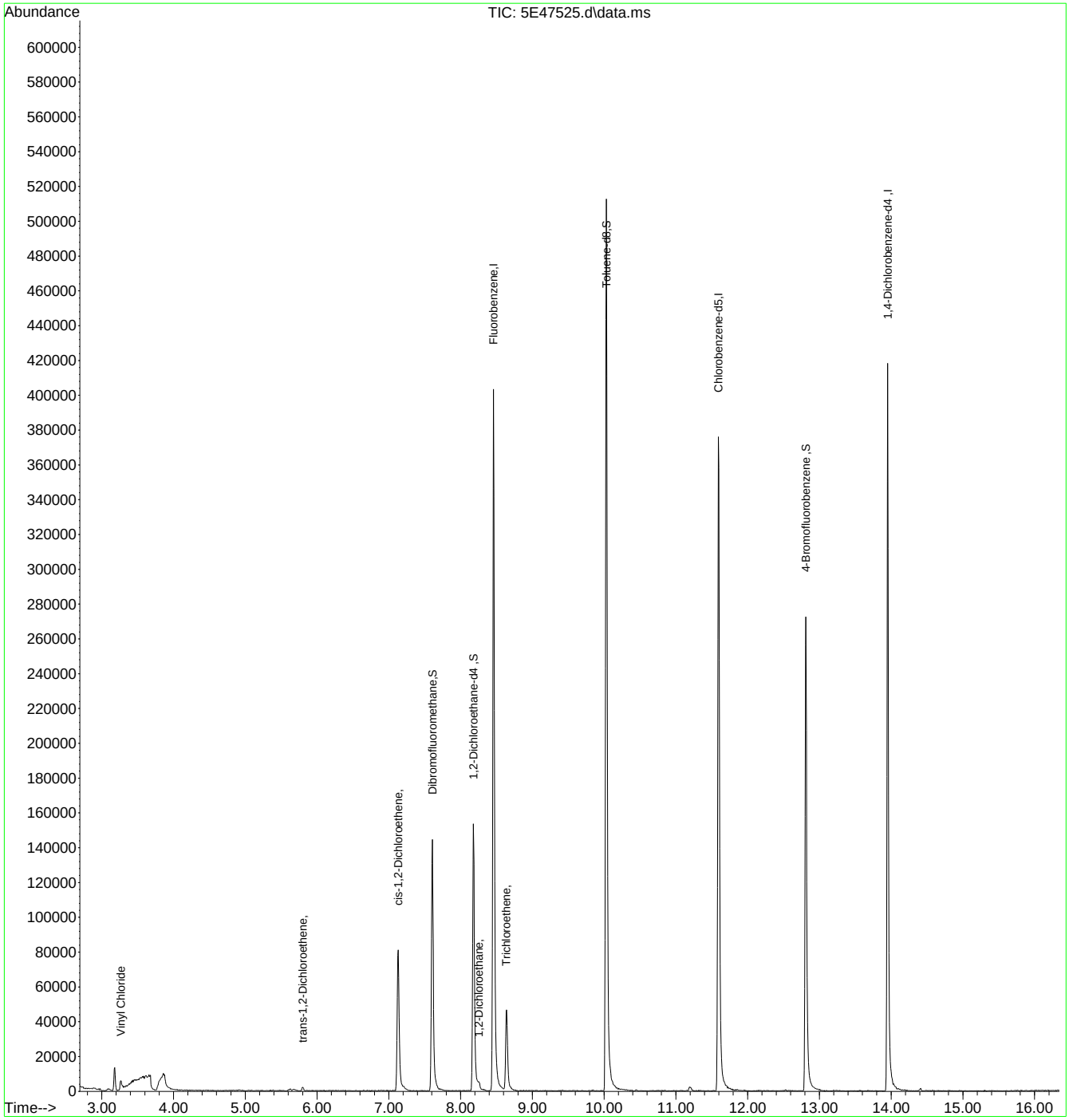
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	331856	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	208662	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	103136	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	83100	48.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.58%			
49) 1,2-Dichloroethane-d4	8.180	65	95597	47.35	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.70%			
62) Toluene-d8	10.033	98	310929	53.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.70%			
86) 4-Bromofluorobenzene	12.813	95	90519	53.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.48%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	4336	2.0431	ug/L	93
21) trans-1,2-Dichloroethene	5.802	61	1548	0.8777	ug/L	85
32) cis-1,2-Dichloroethene	7.131	96	37841	29.0615	ug/L	96
50) 1,2-Dichloroethane	8.253	62	2120	1.3185	ug/L	88
52) Trichloroethene	8.637	95	16327	12.5104	ug/L	93

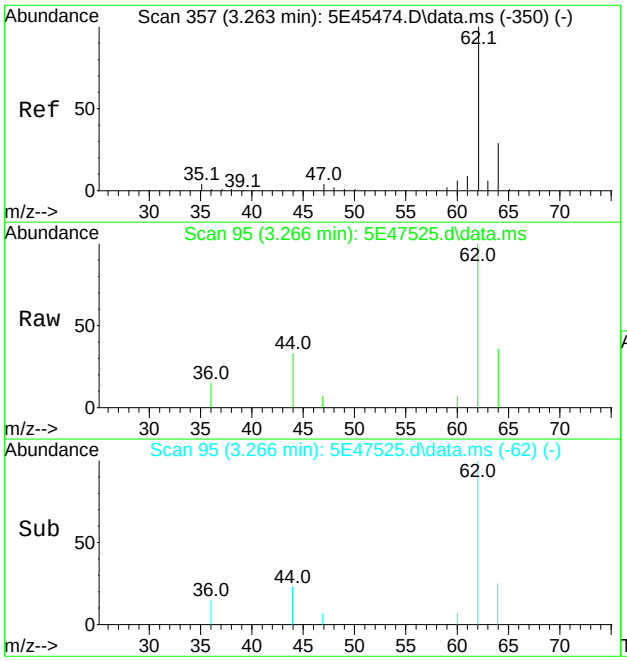
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47525.d
Acq On : 28 Jun 2024 11:56 am
Operator : lianatr
Sample : FC16592-2 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 06:45:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

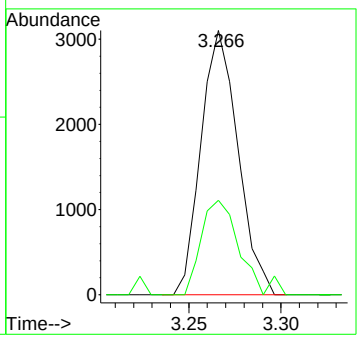


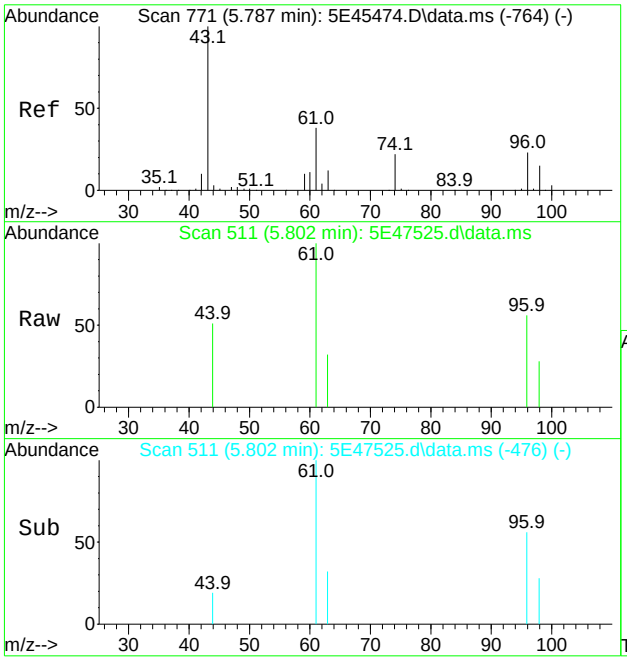


#4
Vinyl Chloride
Concen: 2.0431 ug/L
RT: 3.266 min Scan# 95
Delta R.T. 0.000 min
Lab File: 5E47525.d
Acq: 28 Jun 2024 11:56 am

Tgt Ion: 62 Resp: 4336

Ion	Ratio	Lower	Upper
62	100		
64	35.7	1.8	61.8

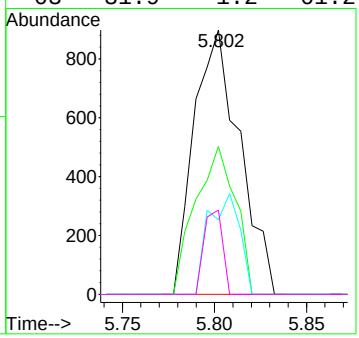


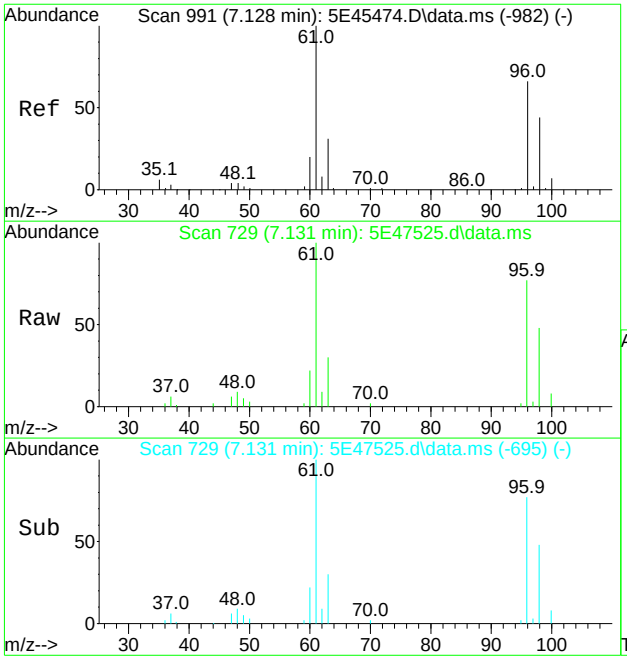


#21
trans-1,2-Dichloroethene
Concen: 0.8777 ug/L
RT: 5.802 min Scan# 511
Delta R.T. 0.012 min
Lab File: 5E47525.d
Acq: 28 Jun 2024 11:56 am

Tgt Ion: 61 Resp: 1548

Ion	Ratio	Lower	Upper
61	100		
96	56.0	38.7	98.7
98	28.3	13.9	73.9
63	31.9	1.2	61.2

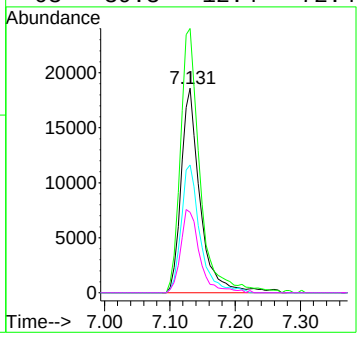


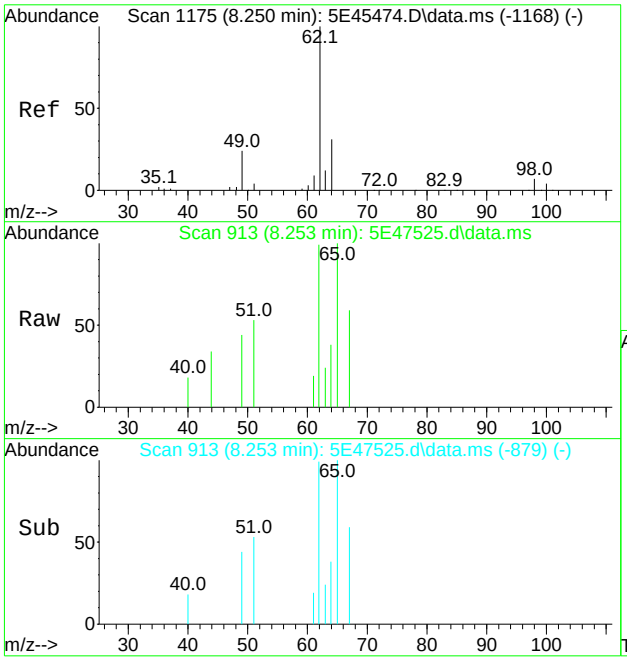


#32
cis-1,2-Dichloroethene
Concen: 29.0615 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47525.d
Acq: 28 Jun 2024 11:56 am

Tgt Ion: 96 Resp: 37841

Ion	Ratio	Lower	Upper
96	100		
61	129.2	104.0	164.0
98	62.5	35.5	95.5
63	39.3	12.4	72.4

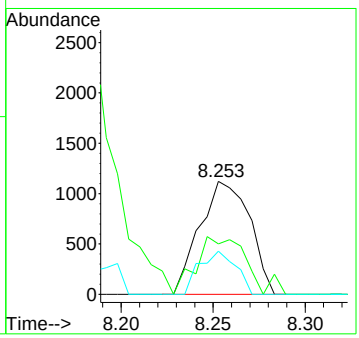


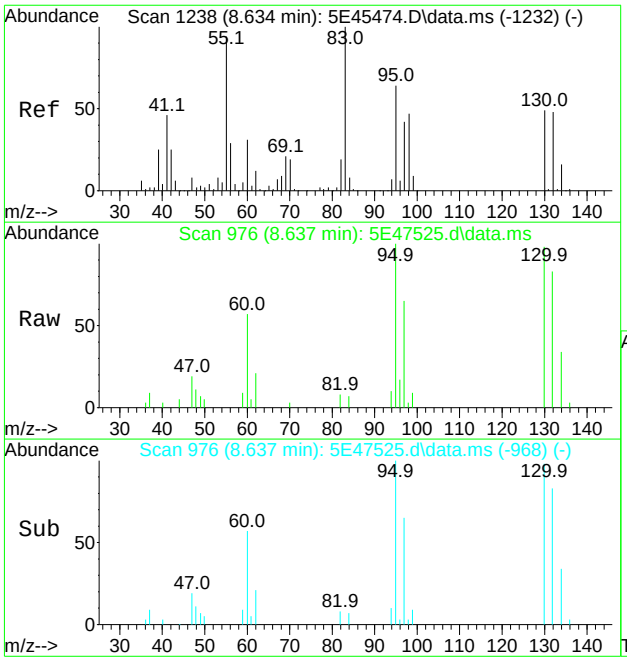


#50
1,2-Dichloroethane
Concen: 1.3185 ug/L
RT: 8.253 min Scan# 913
Delta R.T. 0.006 min
Lab File: 5E47525.d
Acq: 28 Jun 2024 11:56 am

Tgt Ion: 62 Resp: 2120

Ion	Ratio	Lower	Upper
62	100		
49	44.6	7.0	67.0
64	38.3	1.8	61.8

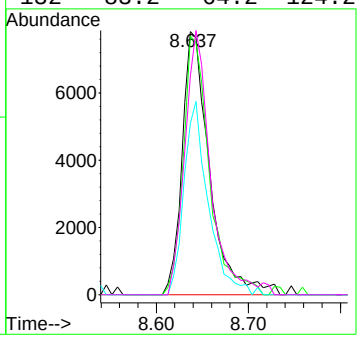




#52
Trichloroethene
Concen: 12.5104 ug/L
RT: 8.637 min Scan# 976
Delta R.T. -0.000 min
Lab File: 5E47525.d
Acq: 28 Jun 2024 11:56 am

Tgt Ion: 95 Resp: 16327

Ion	Ratio	Lower	Upper
95	100		
130	98.2	71.7	131.7
97	65.2	40.5	100.5
132	83.2	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47526.d
Acq On : 28 Jun 2024 12:18 pm
Operator : lianatr
Sample : FC16592-3 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 06:46:28 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

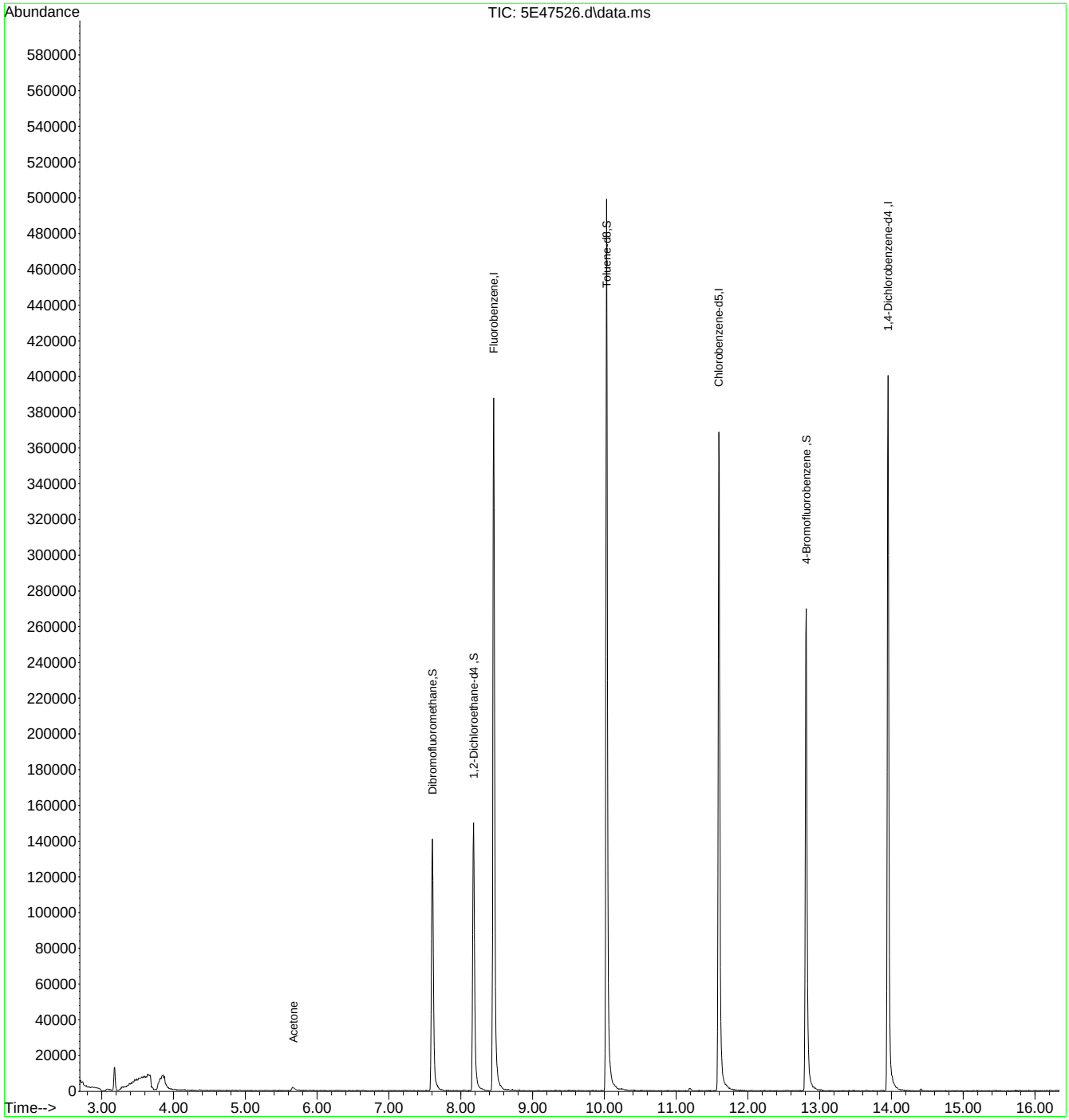
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	325674	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	202467	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	99672	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	79992	47.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.72%			
49) 1,2-Dichloroethane-d4	8.180	65	93731	47.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.62%			
62) Toluene-d8	10.033	98	300629	53.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.32%			
86) 4-Bromofluorobenzene	12.813	95	87274	53.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.22%			
Target Compounds						Qvalue
19) Acetone	5.668	43	4869	8.4741	ug/L	100

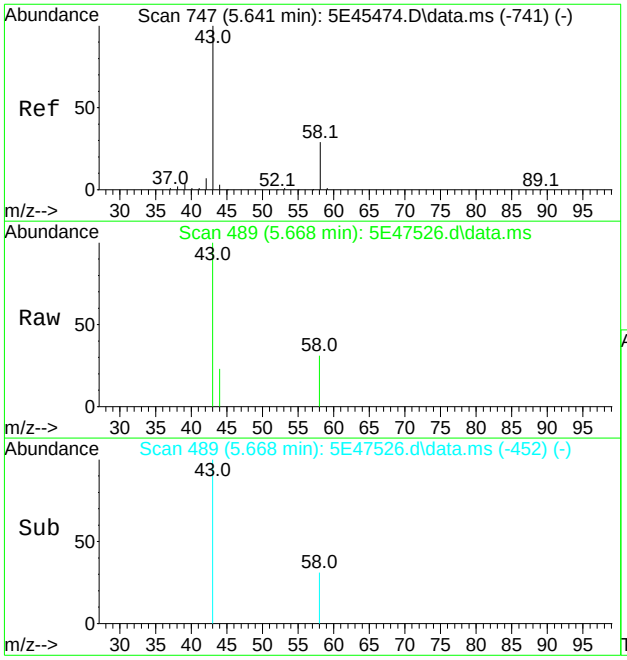
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47526.d
Acq On : 28 Jun 2024 12:18 pm
Operator : lianatr
Sample : FC16592-3 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 06:46:28 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

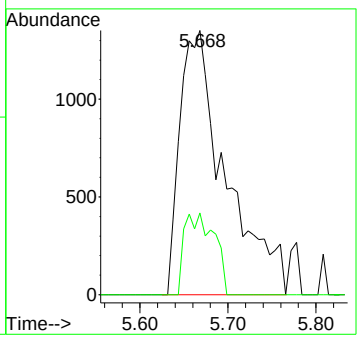




#19
Acetone
Concen: 8.4741 ug/L
RT: 5.668 min Scan# 489
Delta R.T. 0.025 min
Lab File: 5E47526.d
Acq: 28 Jun 2024 12:18 pm

Tgt Ion: 43 Resp: 4869

Ion	Ratio	Lower	Upper
43	100		
58	30.9	0.7	60.7



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47527.d
Acq On : 28 Jun 2024 12:41 pm
Operator : lianatr
Sample : FC16592-4 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 06:47:03 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

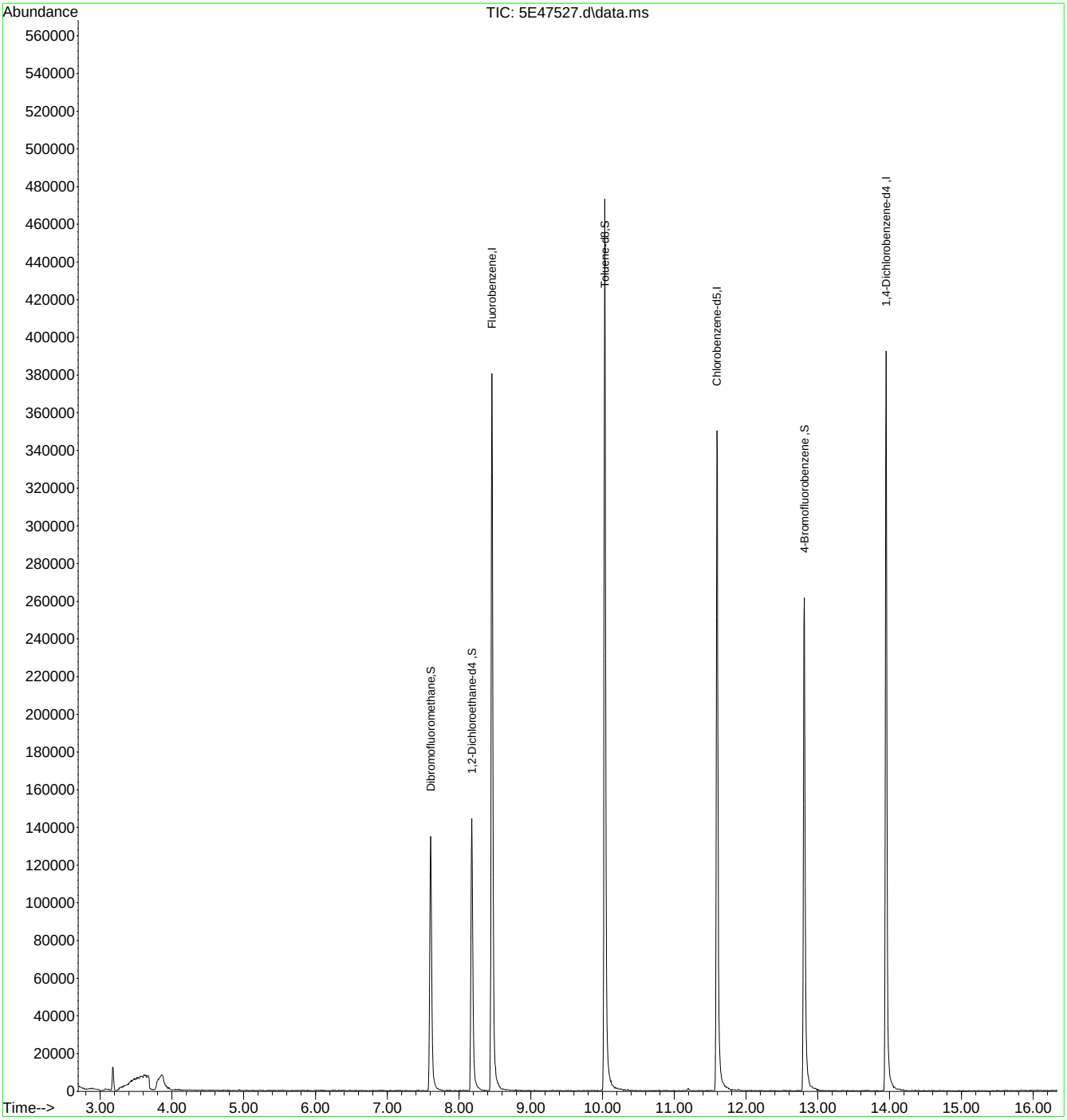
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.460	96	310124	50.00	ug/L	0.00
61) Chlorobenzene-d5		11.593	117	199293	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.953	152	95954	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.606	113	76302	47.45	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	94.90%		
49) 1,2-Dichloroethane-d4		8.180	65	89619	47.50	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	95.00%		
62) Toluene-d8		10.033	98	290033	52.10	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	104.20%		
86) 4-Bromofluorobenzene		12.813	95	82136	51.92	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	103.84%		
Target Compounds							Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47527.d
Acq On : 28 Jun 2024 12:41 pm
Operator : lianatr
Sample : FC16592-4 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 06:47:03 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47528.d
Acq On : 28 Jun 2024 1:04 pm
Operator : lianatr
Sample : FC16592-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:47:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

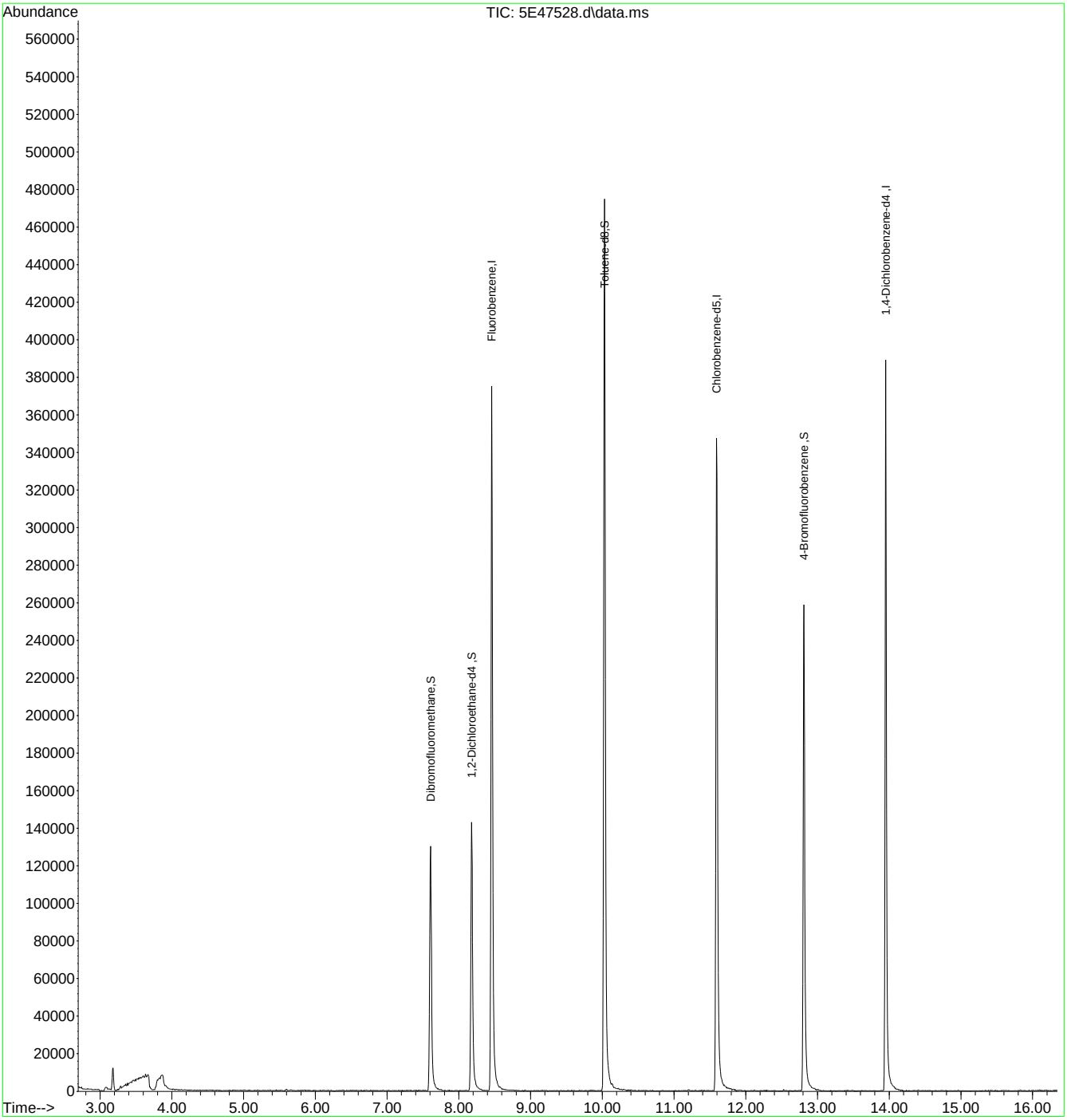
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	306922	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	192780	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	93579	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	76426	48.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.04%			
49) 1,2-Dichloroethane-d4	8.180	65	87834	47.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.08%			
62) Toluene-d8	10.033	98	288988	53.67	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.34%			
86) 4-Bromofluorobenzene	12.813	95	81391	52.76	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47528.d
Acq On : 28 Jun 2024 1:04 pm
Operator : lianatr
Sample : FC16592-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 06:47:34 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47529.d
Acq On : 28 Jun 2024 1:27 pm
Operator : lianatr
Sample : FC16592-6 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:48:22 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

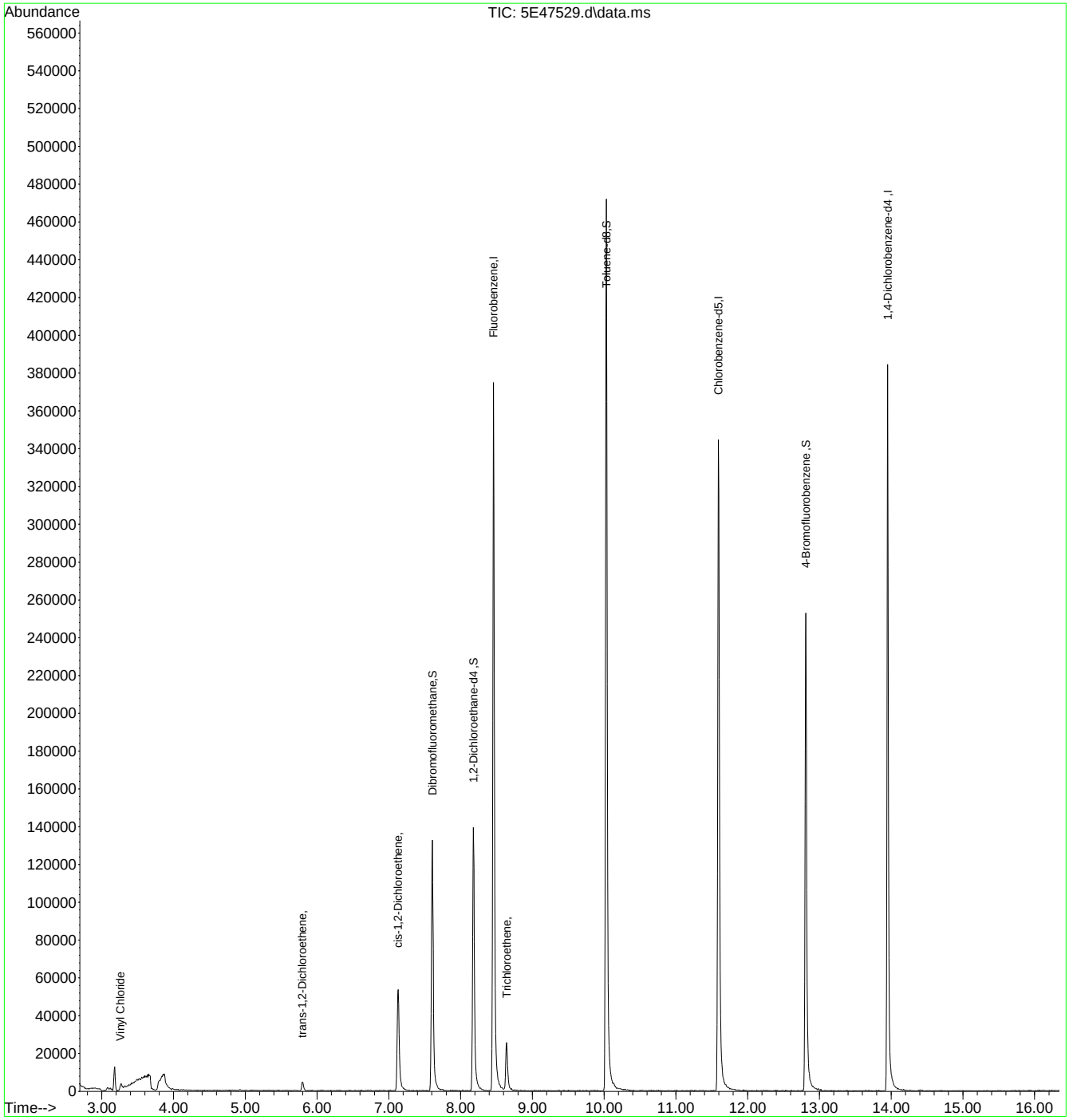
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	303062	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	190060	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	93906	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	76503	48.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.36%			
49) 1,2-Dichloroethane-d4	8.180	65	86819	47.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.18%			
62) Toluene-d8	10.033	98	283386	53.38	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.76%			
86) 4-Bromofluorobenzene	12.813	95	81816	52.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.70%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.260	62	2565	1.3235	ug/L	95
21) trans-1,2-Dichloroethene	5.796	61	3269	2.0295	ug/L	93
32) cis-1,2-Dichloroethene	7.125	96	25597	21.5260	ug/L	95
52) Trichloroethene	8.643	95	8969	7.5253	ug/L	95

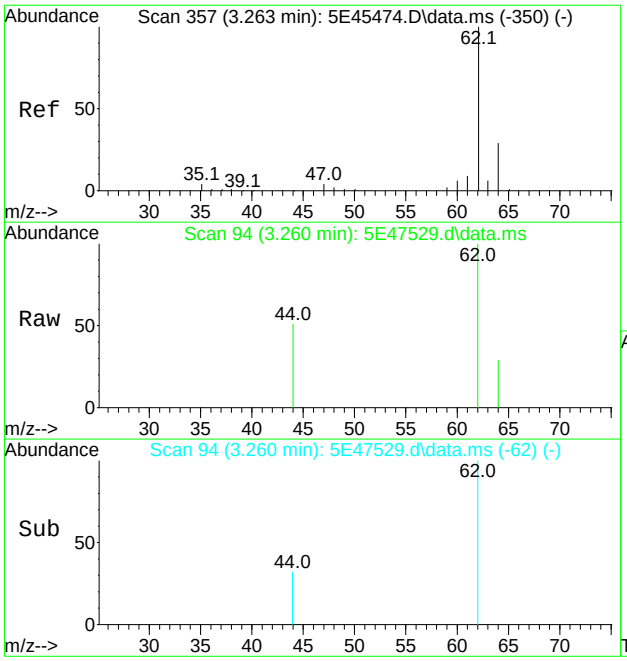
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47529.d
Acq On : 28 Jun 2024 1:27 pm
Operator : lianatr
Sample : FC16592-6 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 06:48:22 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

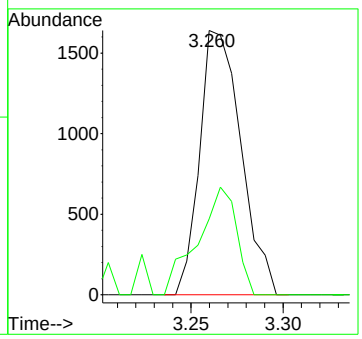


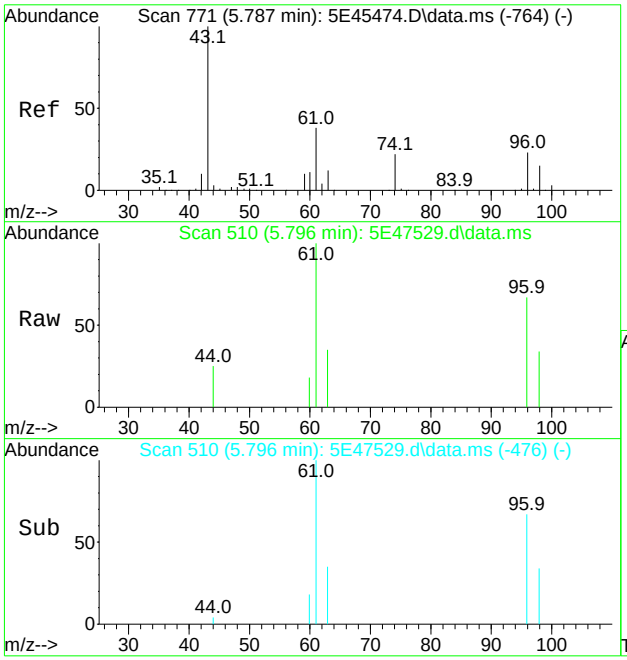


#4
Vinyl Chloride
Concen: 1.3235 ug/L
RT: 3.260 min Scan# 94
Delta R.T. -0.006 min
Lab File: 5E47529.d
Acq: 28 Jun 2024 1:27 pm

Tgt Ion: 62 Resp: 2565

Ion	Ratio	Lower	Upper
62	100		
64	28.8	1.8	61.8

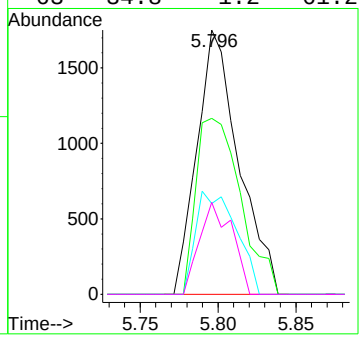


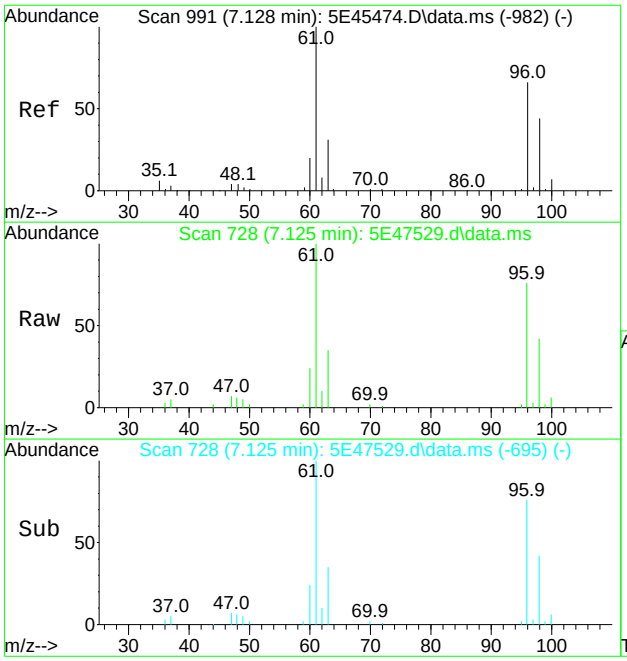


#21
trans-1,2-Dichloroethene
Concen: 2.0295 ug/L
RT: 5.796 min Scan# 510
Delta R.T. 0.006 min
Lab File: 5E47529.d
Acq: 28 Jun 2024 1:27 pm

Tgt Ion: 61 Resp: 3269

Ion	Ratio	Lower	Upper
61	100		
96	66.6	38.7	98.7
98	34.3	13.9	73.9
63	34.8	1.2	61.2

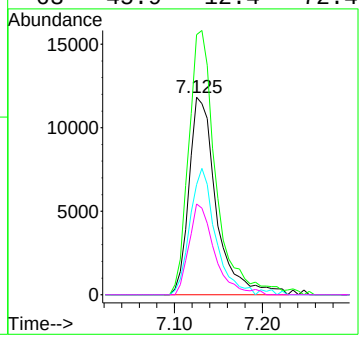


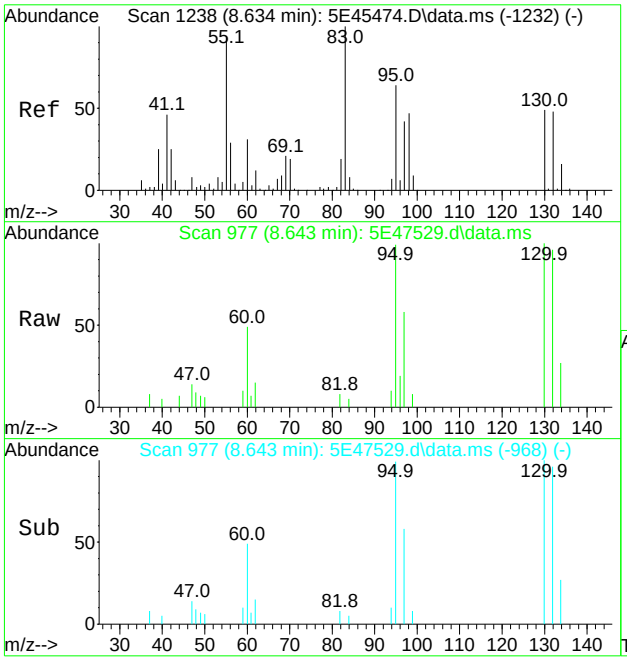


#32
cis-1,2-Dichloroethene
Concen: 21.5260 ug/L
RT: 7.125 min Scan# 728
Delta R.T. -0.000 min
Lab File: 5E47529.d
Acq: 28 Jun 2024 1:27 pm

Tgt Ion: 96 Resp: 25597

Ion	Ratio	Lower	Upper
96	100		
61	131.6	104.0	164.0
98	55.8	35.5	95.5
63	45.9	12.4	72.4

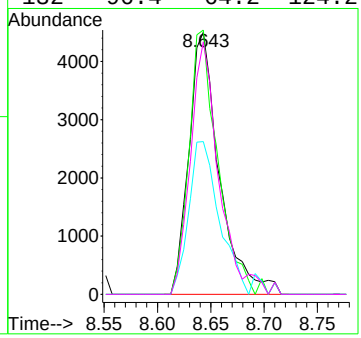




#52
Trichloroethene
Concen: 7.5253 ug/L
RT: 8.643 min Scan# 977
Delta R.T. 0.006 min
Lab File: 5E47529.d
Acq: 28 Jun 2024 1:27 pm

Tgt Ion: 95 Resp: 8969

Ion	Ratio	Lower	Upper
95	100		
130	101.0	71.7	131.7
97	58.4	40.5	100.5
132	96.4	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47530.d
Acq On : 28 Jun 2024 1:50 pm
Operator : lianatr
Sample : FC16592-7 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:48:59 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	299503	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	189977	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	93594	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	73290	47.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.38%			
49) 1,2-Dichloroethane-d4	8.180	65	87615	48.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.18%			
62) Toluene-d8	10.033	98	279885	52.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.50%			
86) 4-Bromofluorobenzene	12.813	95	81731	52.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.94%			

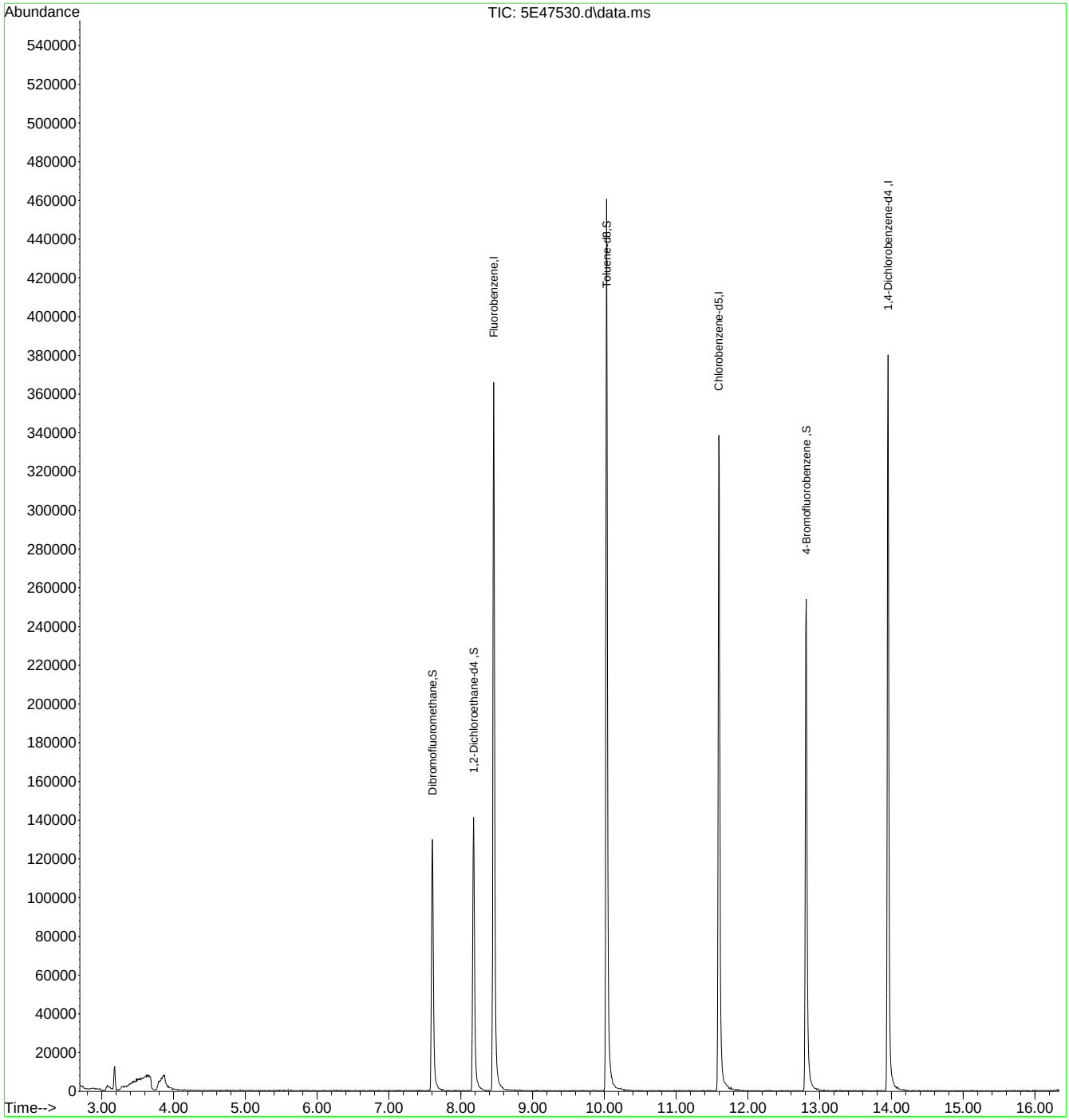
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47530.d
Acq On : 28 Jun 2024 1:50 pm
Operator : lianatr
Sample : FC16592-7 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 06:48:59 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47531.d
Acq On : 28 Jun 2024 2:12 pm
Operator : lianatr
Sample : FC16592-8 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:49:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

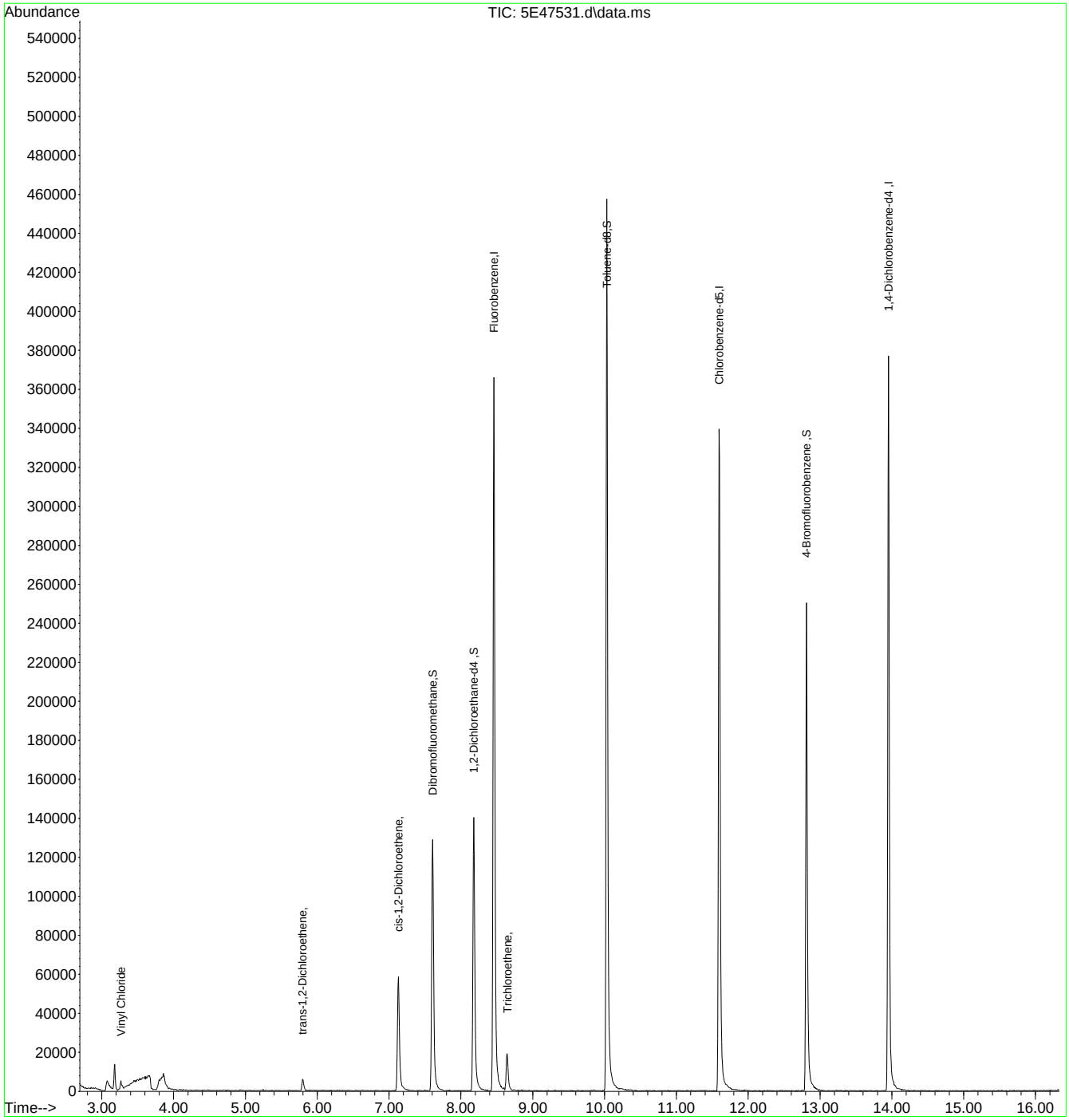
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	297344	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	188275	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	89315	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	74455	48.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.58%			
49) 1,2-Dichloroethane-d4	8.180	65	85707	47.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.76%			
62) Toluene-d8	10.033	98	278624	52.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.96%			
86) 4-Bromofluorobenzene	12.813	95	81081	55.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.12%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	3379	1.7770	ug/L	91
21) trans-1,2-Dichloroethene	5.796	61	3687	2.3331	ug/L	91
32) cis-1,2-Dichloroethene	7.131	96	26761	22.9376	ug/L	97
52) Trichloroethene	8.649	95	6977	5.9665	ug/L	93

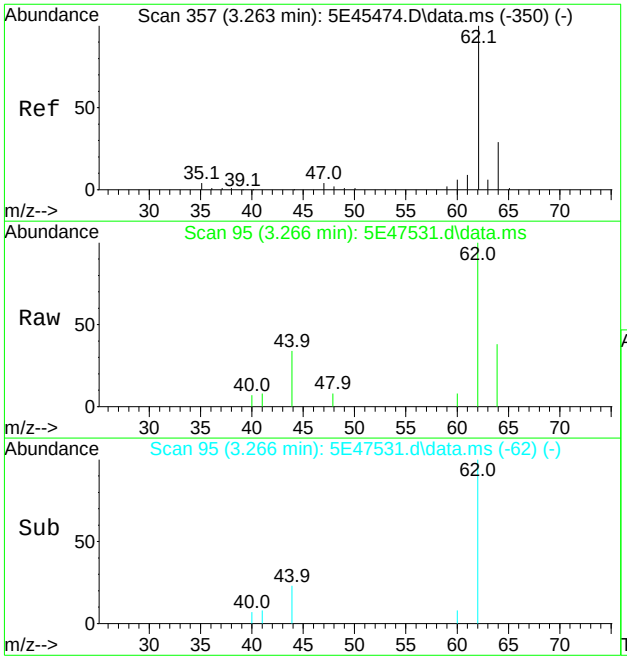
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47531.d
Acq On : 28 Jun 2024 2:12 pm
Operator : lianatr
Sample : FC16592-8 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 06:49:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

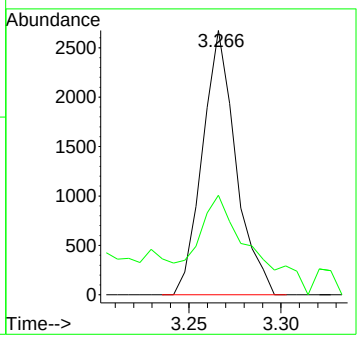


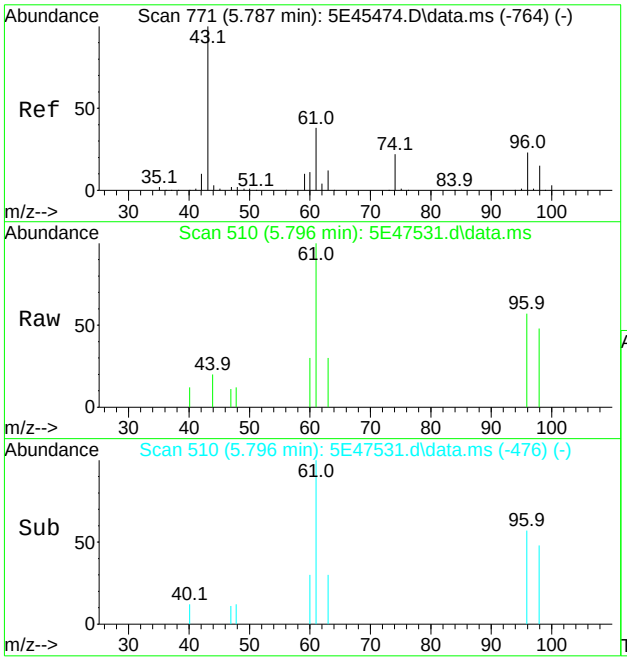


#4
Vinyl Chloride
Concen: 1.7770 ug/L
RT: 3.266 min Scan# 95
Delta R.T. 0.000 min
Lab File: 5E47531.d
Acq: 28 Jun 2024 2:12 pm

Tgt Ion: 62 Resp: 3379

Ion	Ratio	Lower	Upper
62	100		
64	26.7	1.8	61.8

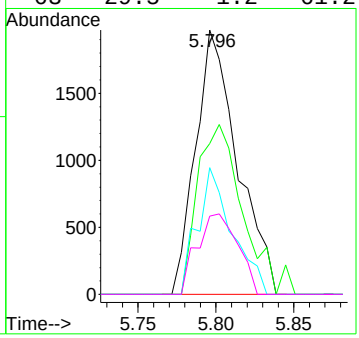


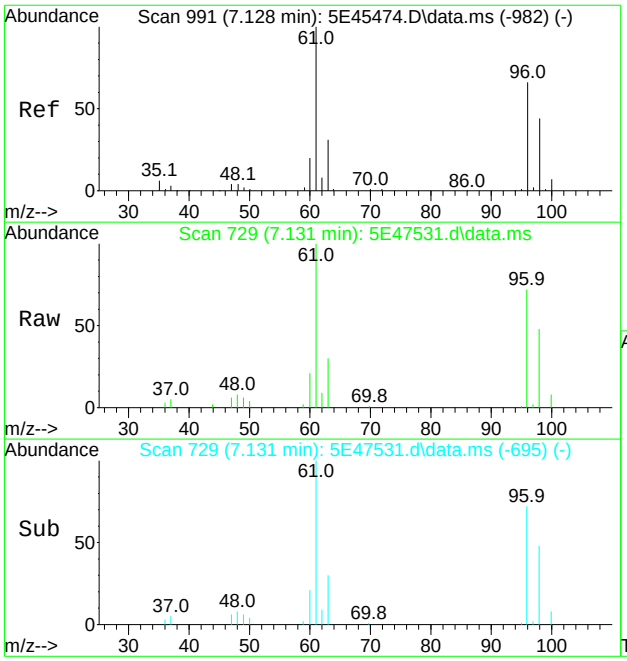


#21
trans-1,2-Dichloroethene
Concen: 2.3331 ug/L
RT: 5.796 min Scan# 510
Delta R.T. 0.006 min
Lab File: 5E47531.d
Acq: 28 Jun 2024 2:12 pm

Tgt Ion: 61 Resp: 3687

Ion	Ratio	Lower	Upper
61	100		
96	57.0	38.7	98.7
98	47.9	13.9	73.9
63	29.5	1.2	61.2

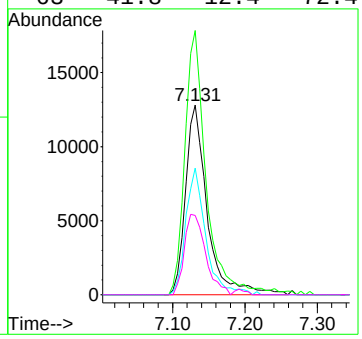


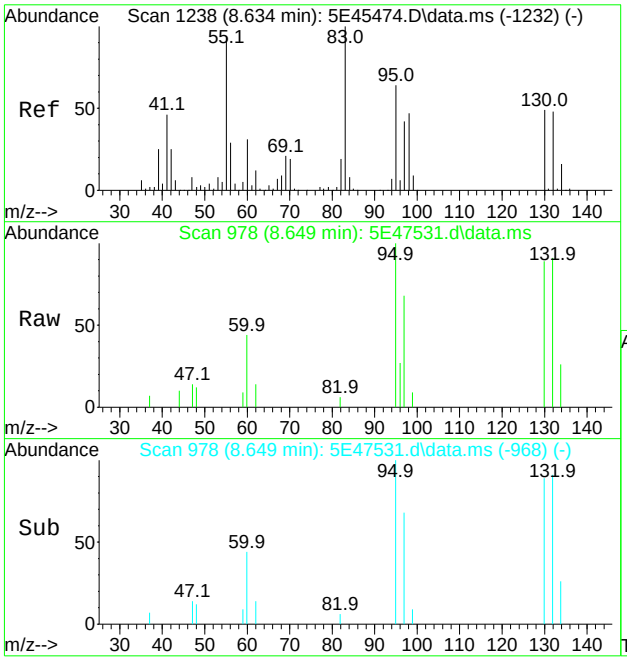


#32
cis-1,2-Dichloroethene
Concen: 22.9376 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47531.d
Acq: 28 Jun 2024 2:12 pm

Tgt Ion: 96 Resp: 26761

Ion	Ratio	Lower	Upper
96	100		
61	139.3	104.0	164.0
98	66.7	35.5	95.5
63	41.8	12.4	72.4

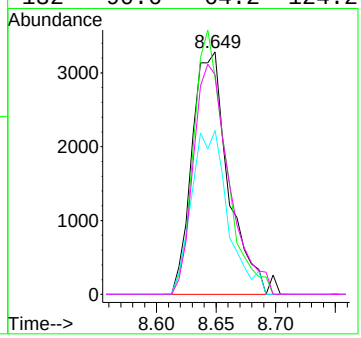




#52
Trichloroethene
Concen: 5.9665 ug/L
RT: 8.649 min Scan# 978
Delta R.T. 0.012 min
Lab File: 5E47531.d
Acq: 28 Jun 2024 2:12 pm

Tgt Ion: 95 Resp: 6977

Ion	Ratio	Lower	Upper
95	100		
130	89.3	71.7	131.7
97	67.7	40.5	100.5
132	90.6	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47532.d
Acq On : 28 Jun 2024 2:35 pm
Operator : lianatr
Sample : FC16592-9 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:50:08 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

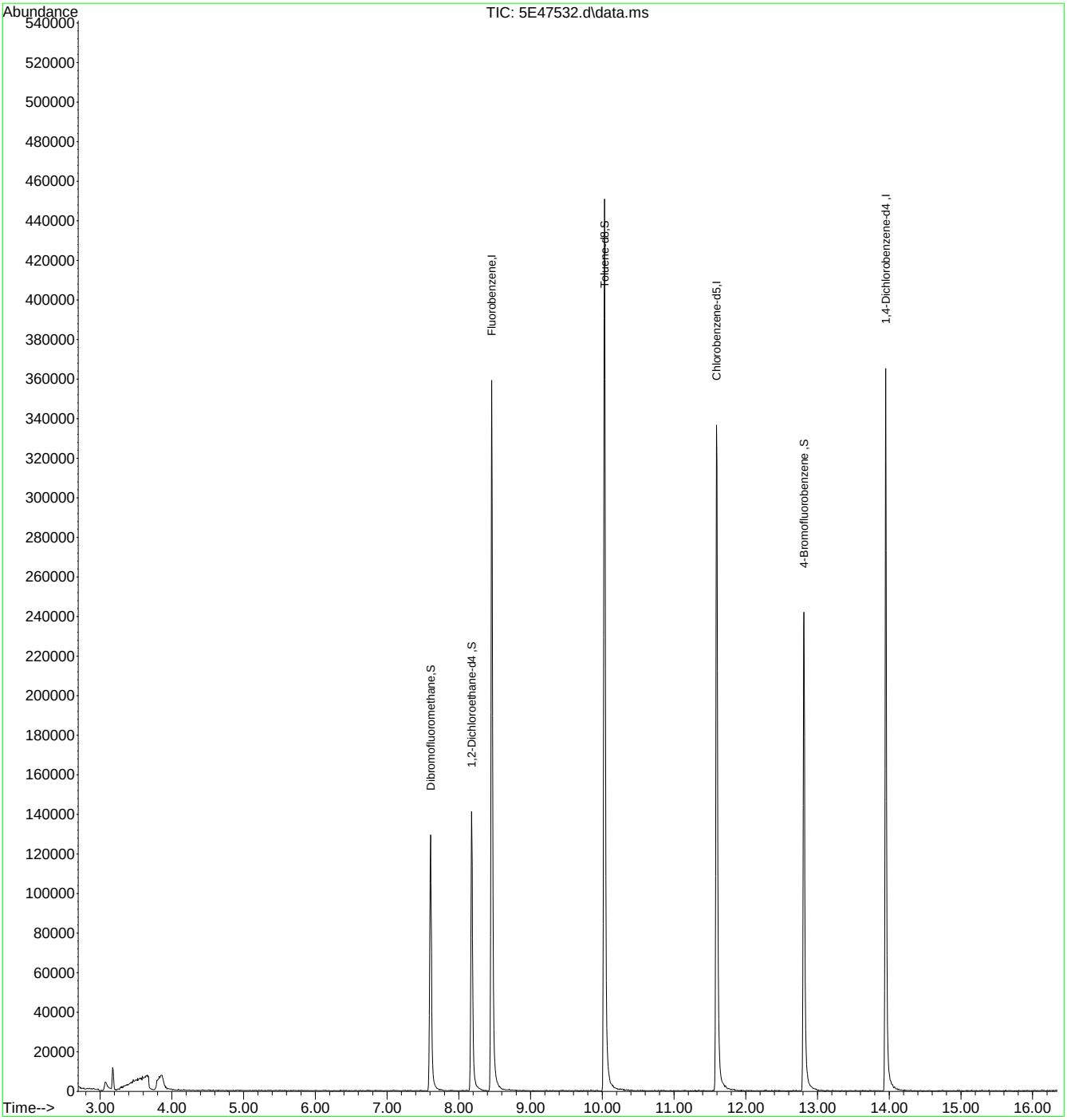
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	293382	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	185376	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	90478	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	72246	47.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.98%			
49) 1,2-Dichloroethane-d4	8.180	65	84822	47.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.06%			
62) Toluene-d8	10.033	98	275559	53.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.44%			
86) 4-Bromofluorobenzene	12.813	95	80204	53.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.54%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47532.d
Acq On : 28 Jun 2024 2:35 pm
Operator : lianatr
Sample : FC16592-9 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 06:50:08 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47533.d
Acq On : 28 Jun 2024 2:57 pm
Operator : lianatr
Sample : FC16592-10 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:50:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

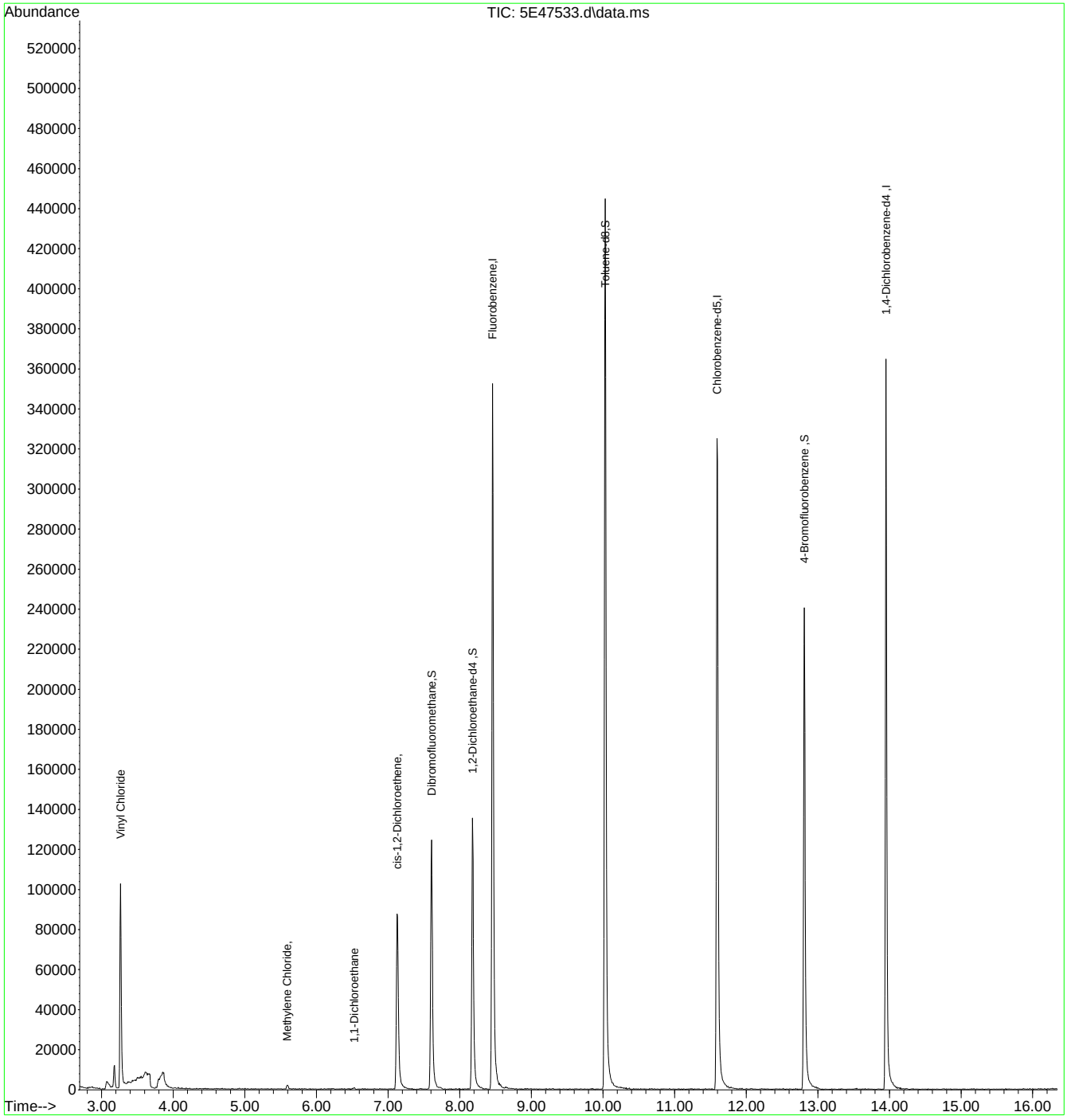
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	289197	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	182651	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	88562	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	70730	47.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.32%			
49) 1,2-Dichloroethane-d4	8.180	65	82126	46.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.36%			
62) Toluene-d8	10.033	98	268404	52.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.22%			
86) 4-Bromofluorobenzene	12.813	95	76302	52.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.52%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.266	62	85644	46.3088	ug/L	99
18) Methylene Chloride	5.589	49	1312	0.7808	ug/L	88
27) 1,1-Dichloroethane	6.527	63	970	0.4760	ug/L	84
32) cis-1,2-Dichloroethene	7.125	96	40368	35.5753	ug/L	97

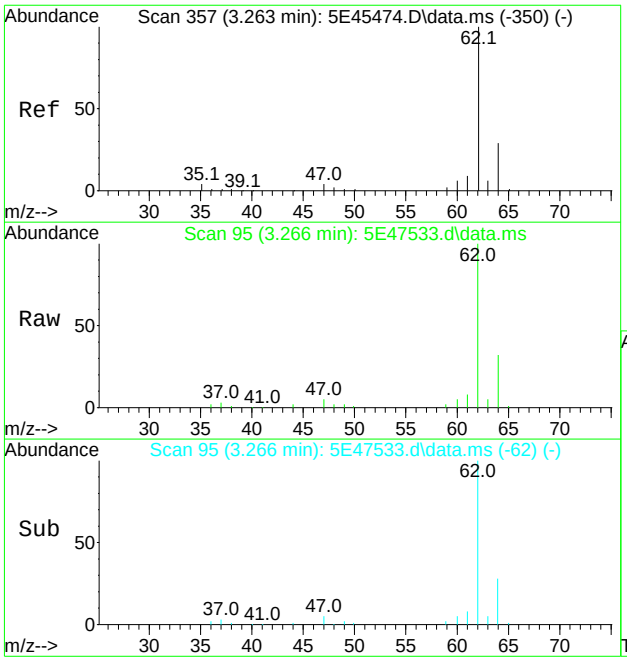
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47533.d
Acq On : 28 Jun 2024 2:57 pm
Operator : lianatr
Sample : FC16592-10 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 06:50:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

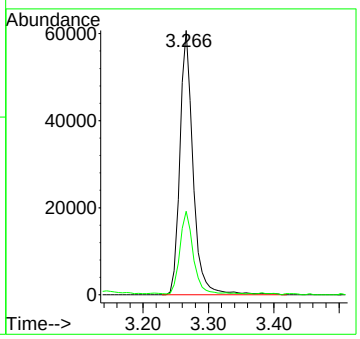


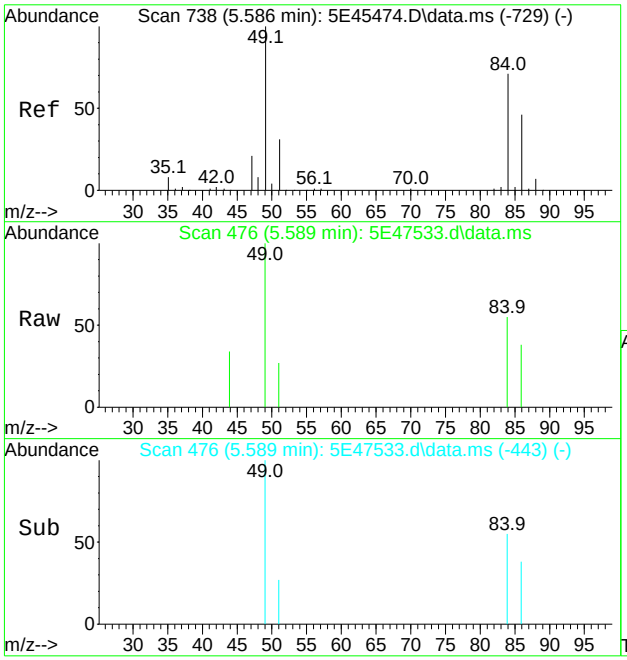


#4
Vinyl Chloride
Concen: 46.3088 ug/L
RT: 3.266 min Scan# 95
Delta R.T. -0.000 min
Lab File: 5E47533.d
Acq: 28 Jun 2024 2:57 pm

Tgt Ion: 62 Resp: 85644

Ion	Ratio	Lower	Upper
62	100		
64	31.2	1.8	61.8

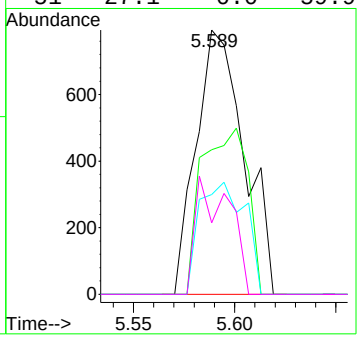


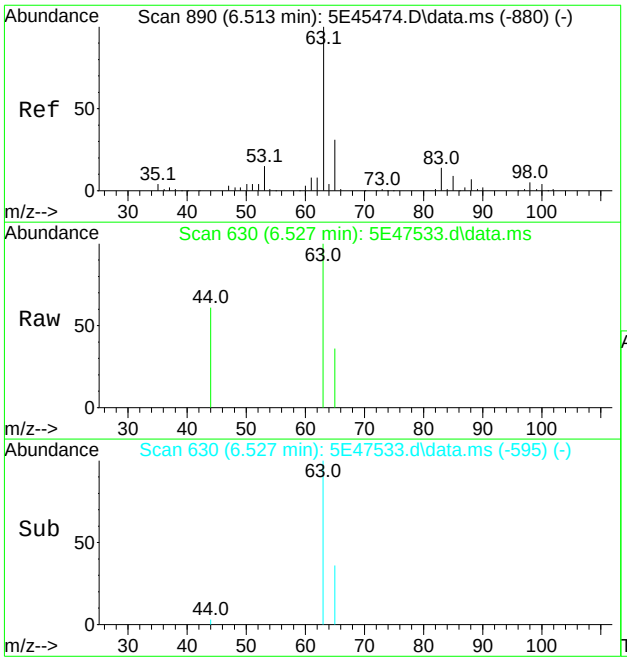


#18
Methylene Chloride
Concen: 0.7808 ug/L
RT: 5.589 min Scan# 476
Delta R.T. -0.000 min
Lab File: 5E47533.d
Acq: 28 Jun 2024 2:57 pm

Tgt Ion: 49 Resp: 1312

Ion	Ratio	Lower	Upper
49	100		
84	54.7	37.7	97.7
86	37.8	14.3	74.3
51	27.1	0.0	59.9

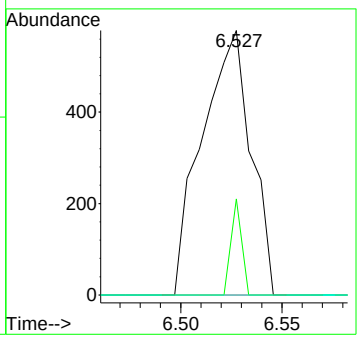


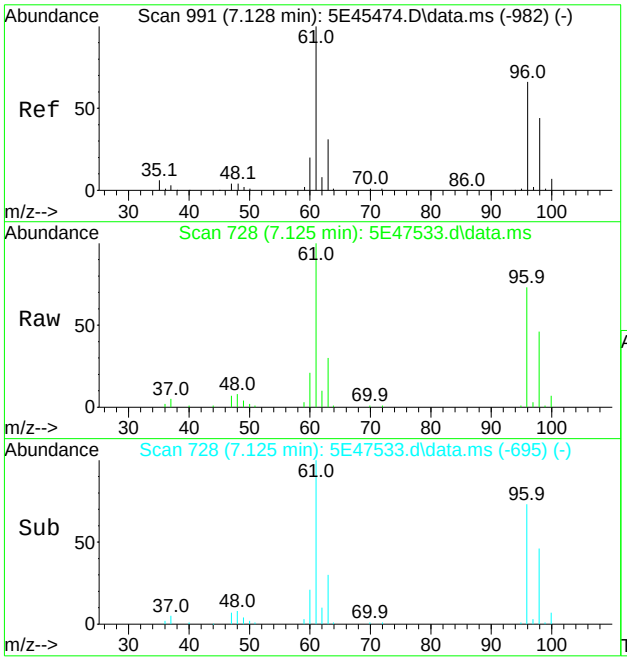


#27
1,1-Dichloroethane
Concen: 0.4760 ug/L
RT: 6.527 min Scan# 630
Delta R.T. 0.012 min
Lab File: 5E47533.d
Acq: 28 Jun 2024 2:57 pm

Tgt Ion: 63 Resp: 970

Ion	Ratio	Lower	Upper
63	100		
65	36.3	1.3	61.3
83	0.0	0.0	43.1

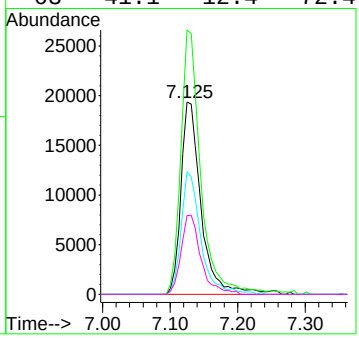




#32
cis-1,2-Dichloroethene
Concen: 35.5753 ug/L
RT: 7.125 min Scan# 728
Delta R.T. -0.000 min
Lab File: 5E47533.d
Acq: 28 Jun 2024 2:57 pm

Tgt Ion: 96 Resp: 40368

Ion	Ratio	Lower	Upper
96	100		
61	137.6	104.0	164.0
98	64.0	35.5	95.5
63	41.1	12.4	72.4



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47534.d
Acq On : 28 Jun 2024 3:20 pm
Operator : lianatr
Sample : FC16592-11 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:51:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

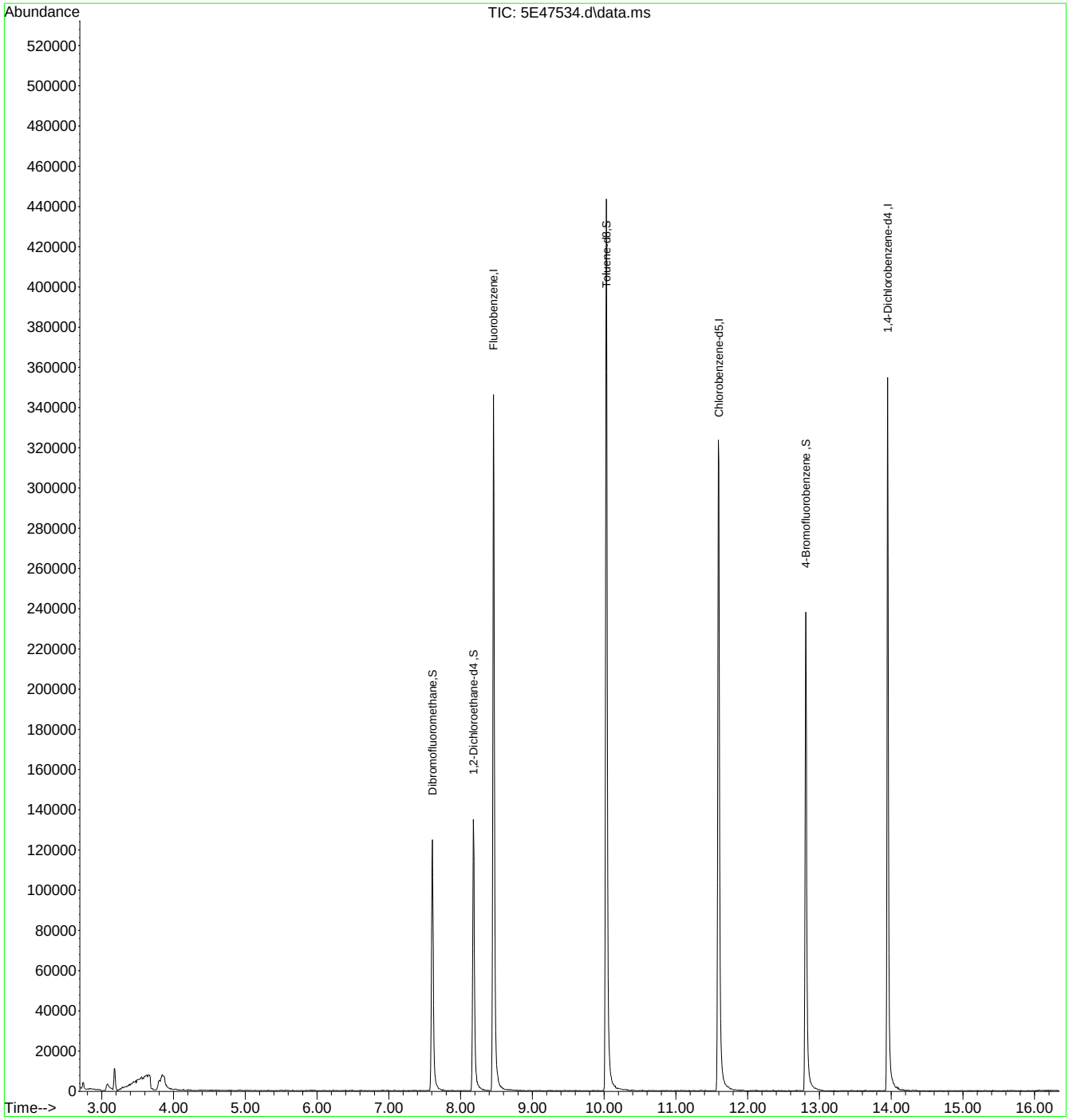
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	283116	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	180269	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	87640	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	70244	47.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.68%			
49) 1,2-Dichloroethane-d4	8.180	65	83040	48.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.42%			
62) Toluene-d8	10.033	98	268446	53.31	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.62%			
86) 4-Bromofluorobenzene	12.813	95	76665	53.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.12%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47534.d
Acq On : 28 Jun 2024 3:20 pm
Operator : lianatr
Sample : FC16592-11 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 06:51:09 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47535.d
Acq On : 28 Jun 2024 3:43 pm
Operator : lianatr
Sample : FC16592-12 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:51:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

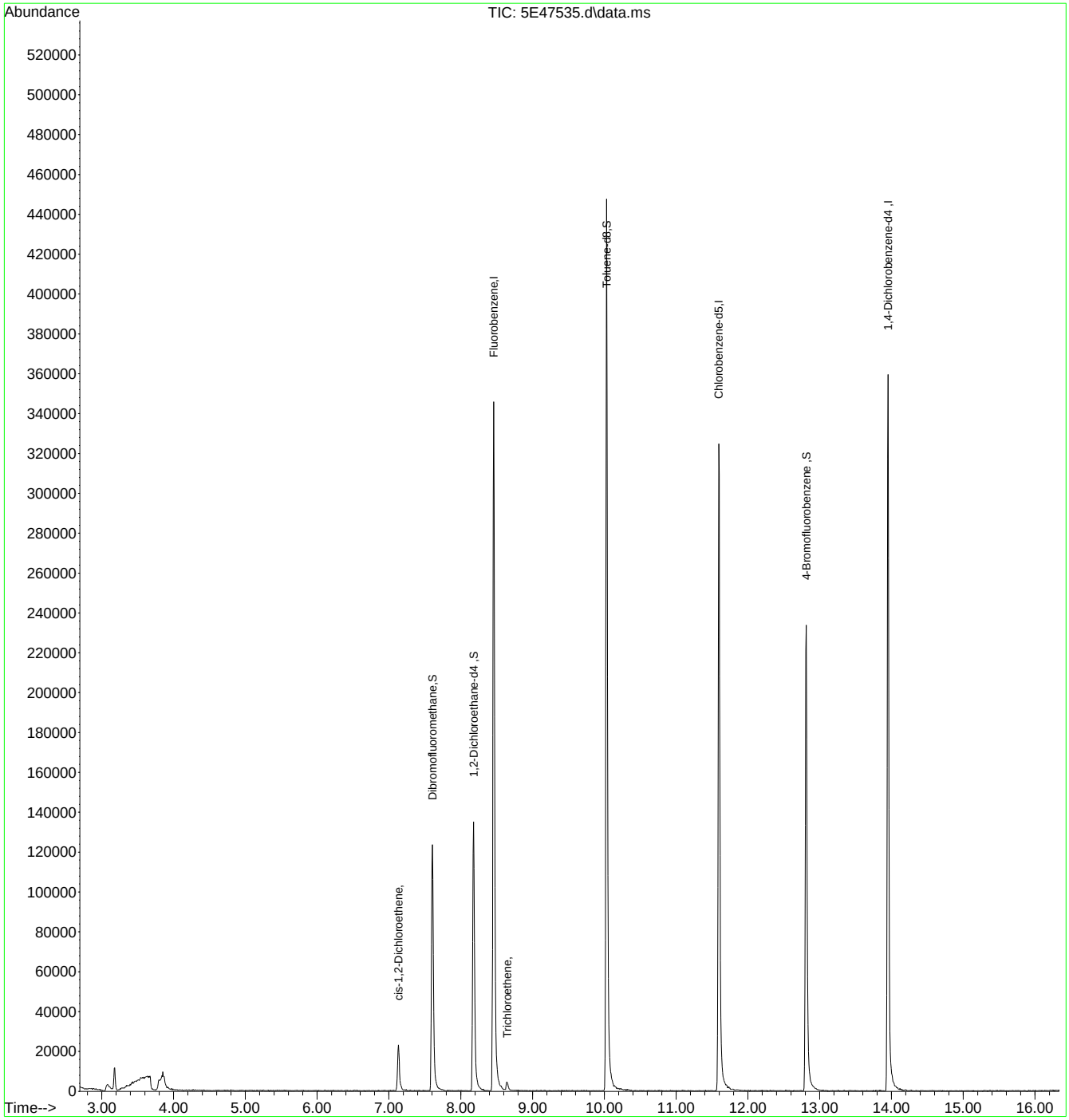
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Fluorobenzene		8.460	96	283834	50.00	ug/L	0.00
61) Chlorobenzene-d5		11.594	117	180220	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4		13.953	152	88720	50.00	ug/L	0.00
System Monitoring Compounds							
39) Dibromofluoromethane		7.607	113	70674	48.02	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	96.04%		
49) 1,2-Dichloroethane-d4		8.180	65	82769	47.94	ug/L	0.00
Spiked Amount	50.000	Range 79 - 125		Recovery =	95.88%		
62) Toluene-d8		10.033	98	266792	53.00	ug/L	0.00
Spiked Amount	50.000	Range 85 - 112		Recovery =	106.00%		
86) 4-Bromofluorobenzene		12.813	95	75270	51.46	ug/L	0.00
Spiked Amount	50.000	Range 83 - 118		Recovery =	102.92%		
Target Compounds							Qvalue
32) cis-1,2-Dichloroethene		7.131	96	10441	9.3753	ug/L	88
52) Trichloroethene		8.649	95	1707	1.5293	ug/L	77

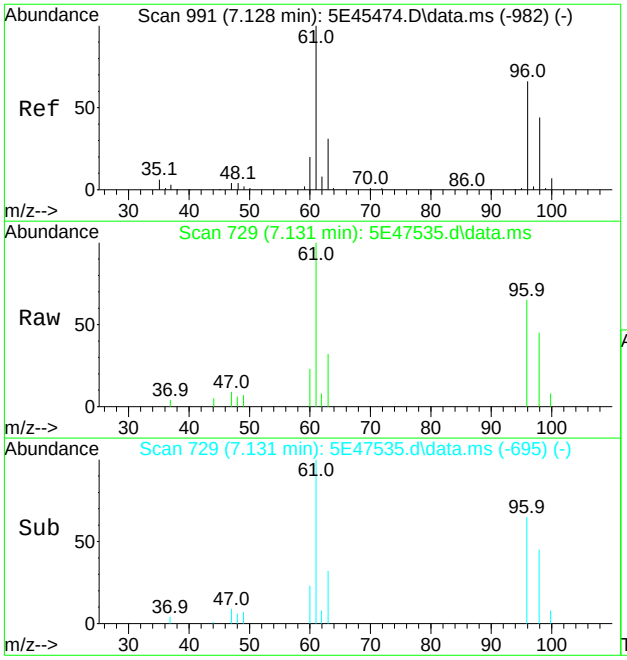
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47535.d
Acq On : 28 Jun 2024 3:43 pm
Operator : lianatr
Sample : FC16592-12 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 06:51:41 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

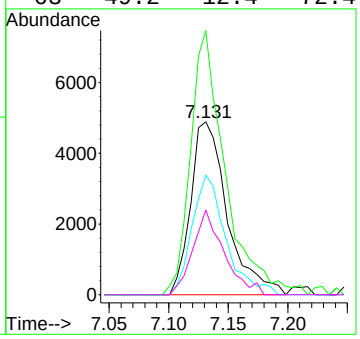


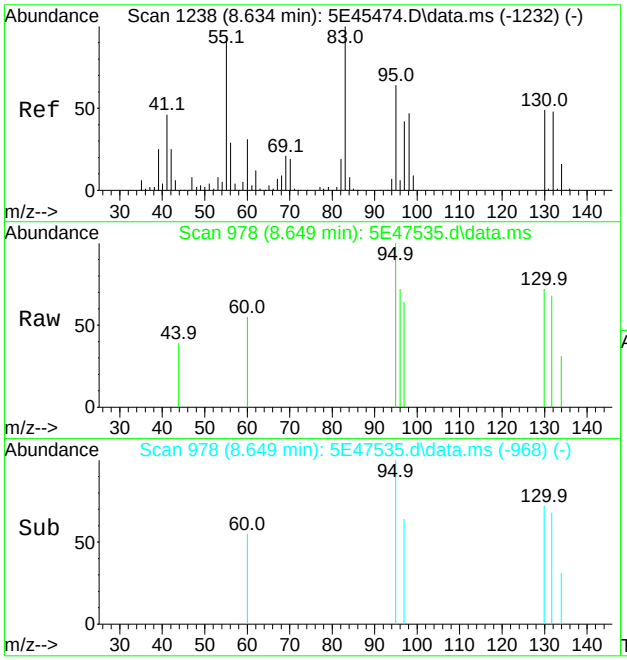


#32
cis-1,2-Dichloroethene
Concen: 9.3753 ug/L
RT: 7.131 min Scan# 729
Delta R.T. 0.006 min
Lab File: 5E47535.d
Acq: 28 Jun 2024 3:43 pm

Tgt Ion: 96 Resp: 10441

Ion	Ratio	Lower	Upper
96	100		
61	153.0	104.0	164.0
98	69.3	35.5	95.5
63	49.2	12.4	72.4

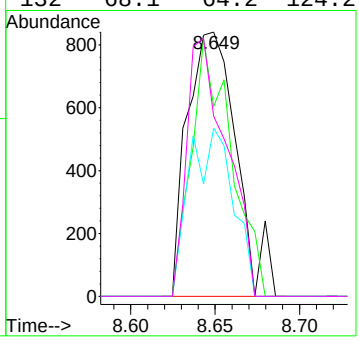




#52
Trichloroethene
Concen: 1.5293 ug/L
RT: 8.649 min Scan# 978
Delta R.T. 0.012 min
Lab File: 5E47535.d
Acq: 28 Jun 2024 3:43 pm

Tgt Ion: 95 Resp: 1707

Ion	Ratio	Lower	Upper
95	100		
130	71.8	71.7	131.7
97	63.6	40.5	100.5
132	68.1	64.2	124.2



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47536.d
Acq On : 28 Jun 2024 4:06 pm
Operator : lianatr
Sample : FC16592-13 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:51:55 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	280786	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	178543	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	86491	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	68622	47.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.26%			
49) 1,2-Dichloroethane-d4	8.180	65	80451	47.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.20%			
62) Toluene-d8	10.033	98	261846	52.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.02%			
86) 4-Bromofluorobenzene	12.807	95	76583	53.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.42%			

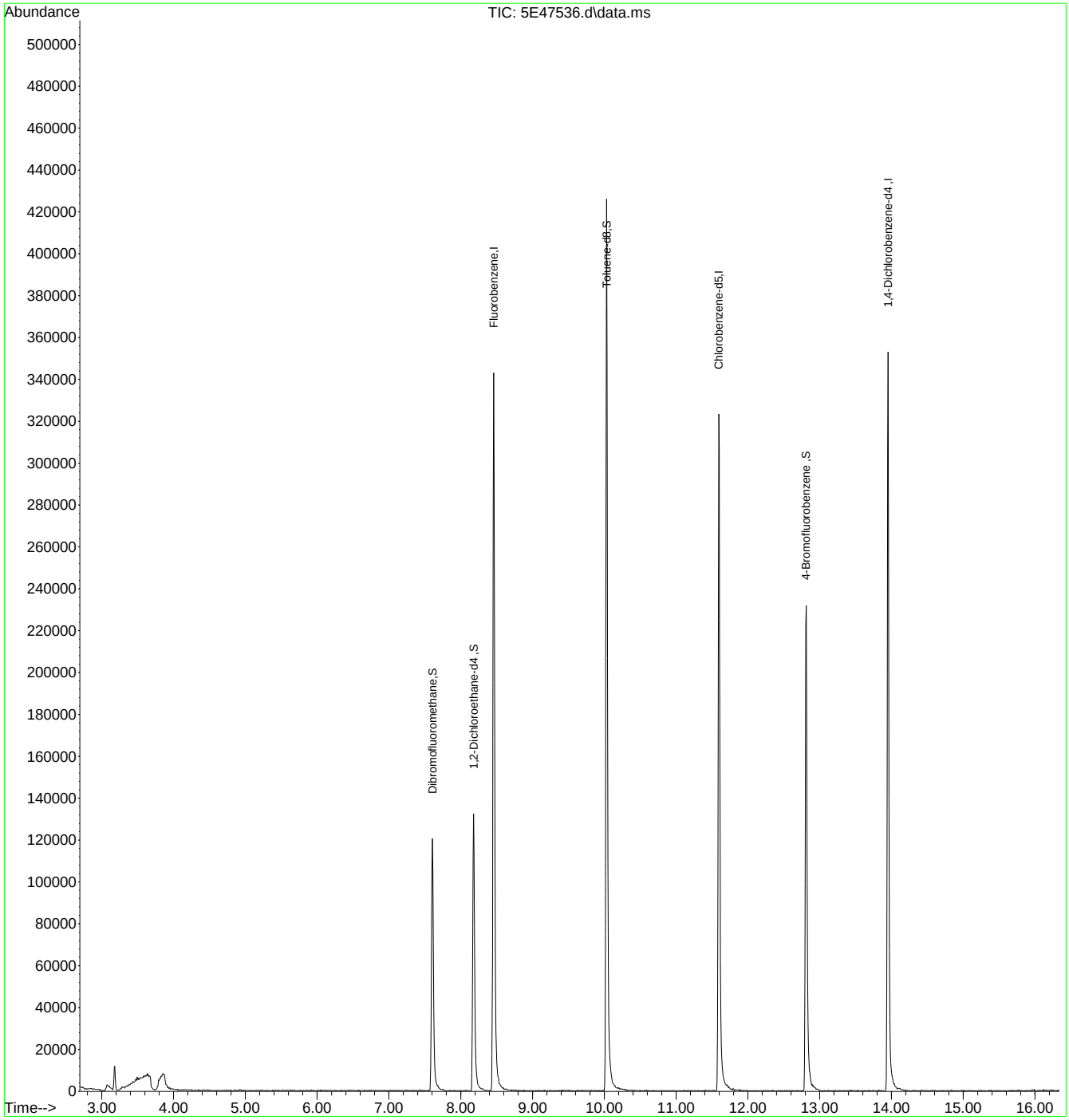
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47536.d
Acq On : 28 Jun 2024 4:06 pm
Operator : lianatr
Sample : FC16592-13 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 01 06:51:55 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56372.d
Acq On : 27 Jun 2024 3:16 pm
Operator : jeniferw
Sample : FC16592-14 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 06:29:18 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

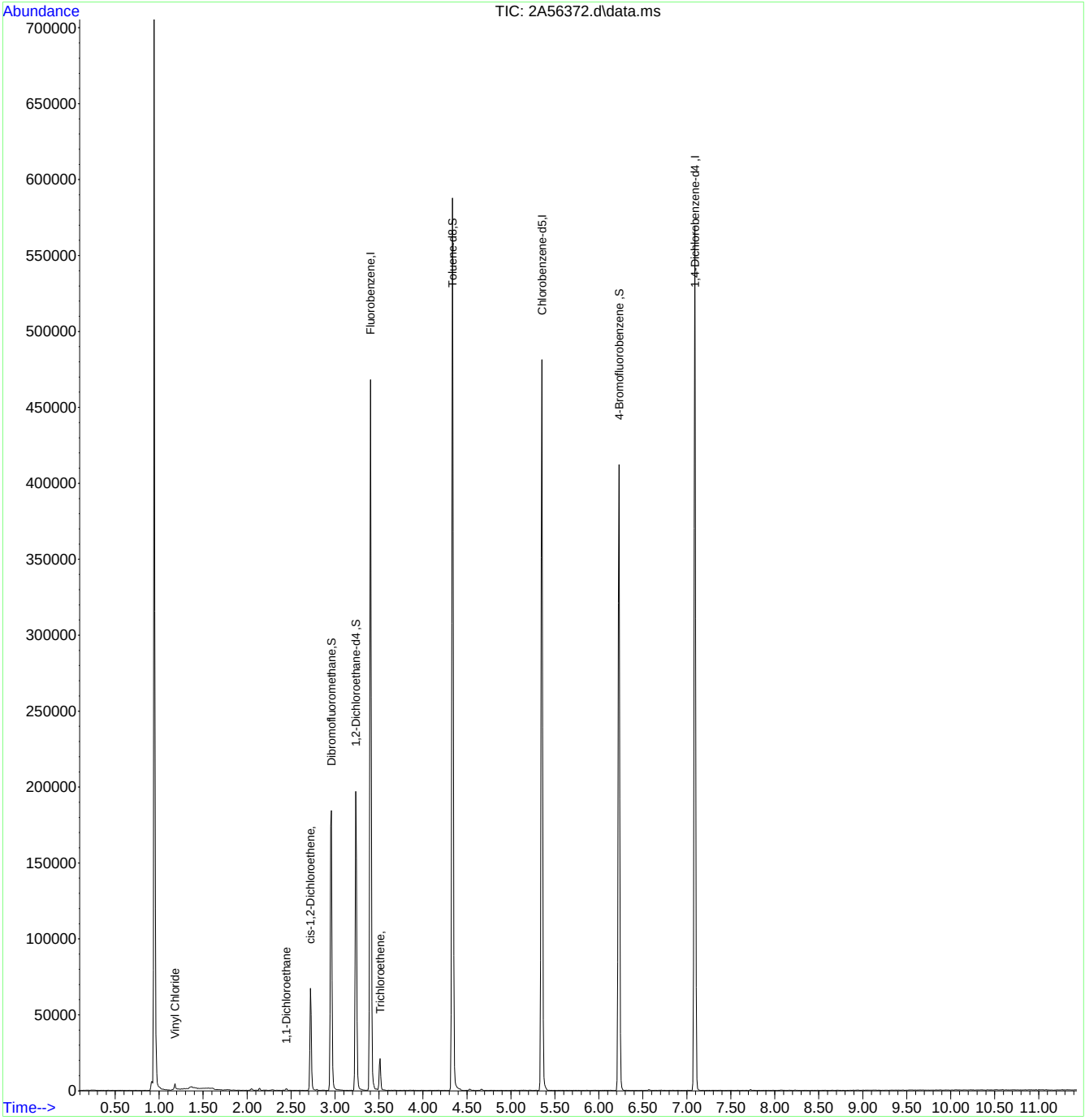
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	243279	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	181214	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	107992	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	70720	50.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.70%			
49) 1,2-Dichloroethane-d4	3.236	65	84471	50.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.34%			
63) Toluene-d8	4.336	98	248440	50.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.14%			
86) 4-Bromofluorobenzene	6.229	174	84485	49.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.86%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.181	62	1782	1.2734	ug/L	97
28) 1,1-Dichloroethane	2.443	63	916	0.3818	ug/L	86
32) cis-1,2-Dichloroethene	2.720	96	16760	12.3621	ug/L #	75
53) Trichloroethene	3.513	95	4502	3.2093	ug/L	89

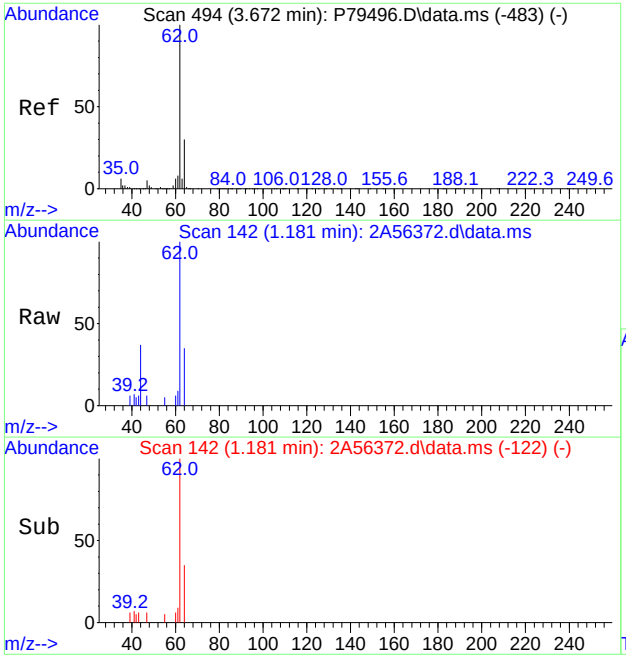
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56372.d
Acq On : 27 Jun 2024 3:16 pm
Operator : jeniferw
Sample : FC16592-14 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 06:29:18 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

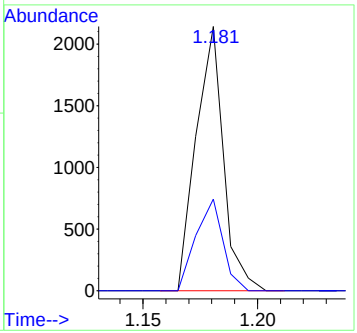


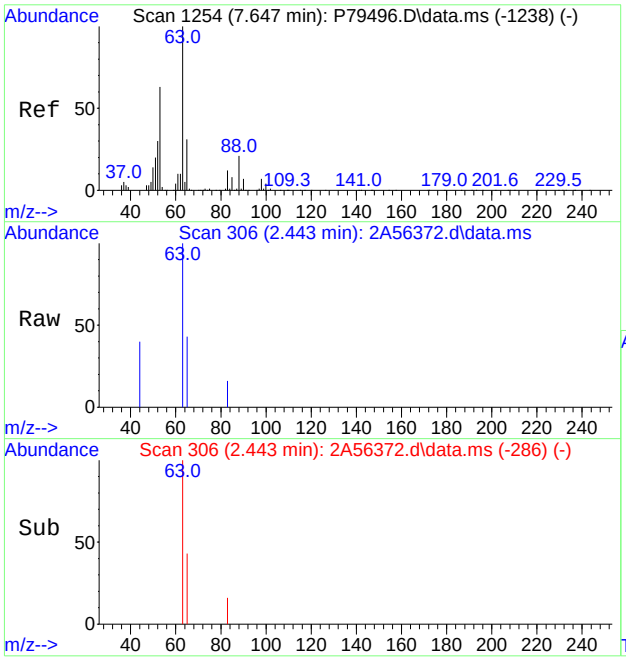


#5
Vinyl Chloride
Concen: 1.2734 ug/L
RT: 1.181 min Scan# 142
Delta R.T. 0.001 min
Lab File: 2A56372.d
Acq: 27 Jun 2024 3:16 pm

Tgt Ion: 62 Resp: 1782

Ion	Ratio	Lower	Upper
62	100		
64	34.7	3.1	63.1

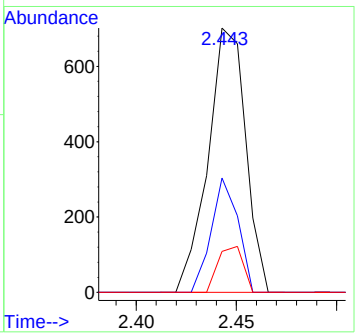


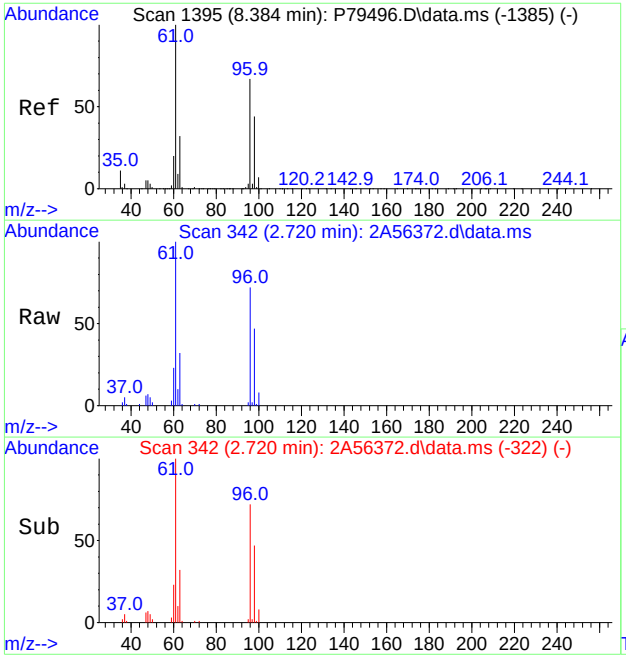


#28
1,1-Dichloroethane
Concen: 0.3818 ug/L
RT: 2.443 min Scan# 306
Delta R.T. 0.001 min
Lab File: 2A56372.d
Acq: 27 Jun 2024 3:16 pm

Tgt Ion: 63 Resp: 916

Ion	Ratio	Lower	Upper
63	100		
65	43.3	2.0	62.0
83	15.5	0.0	45.3

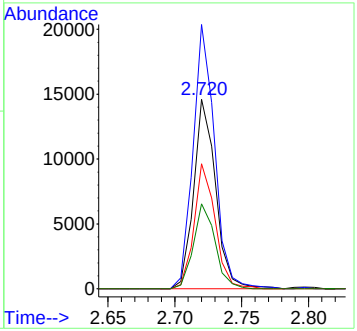


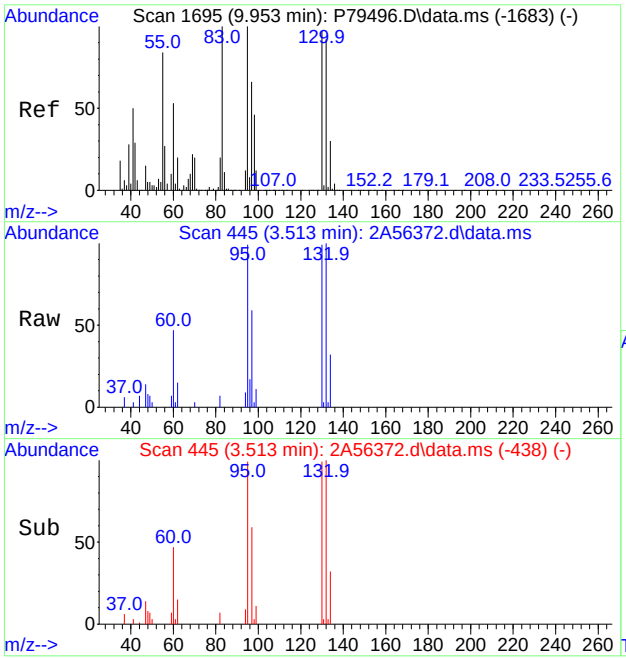


#32
cis-1,2-Dichloroethene
Concen: 12.3621 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56372.d
Acq: 27 Jun 2024 3:16 pm

Tgt Ion: 96 Resp: 16760

Ion	Ratio	Lower	Upper
96	100		
61	139.5	67.8	127.8#
98	65.9	35.4	95.4
63	44.8	2.5	62.5

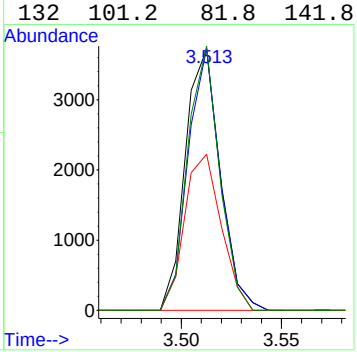




#53
Trichloroethene
Concen: 3.2093 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56372.d
Acq: 27 Jun 2024 3:16 pm

Tgt Ion: 95 Resp: 4502

Ion	Ratio	Lower	Upper
95	100		
130	100.3	85.1	145.1
97	59.7	34.8	94.8
132	101.2	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56373.d
Acq On : 27 Jun 2024 3:40 pm
Operator : jeniferw
Sample : FC16592-15 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 06:13:31 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	241731	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	183078	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	106733	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	70483	50.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%			
49) 1,2-Dichloroethane-d4	3.236	65	84773	50.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.34%			
63) Toluene-d8	4.336	98	246871	49.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.48%			
86) 4-Bromofluorobenzene	6.229	174	83796	49.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.22%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

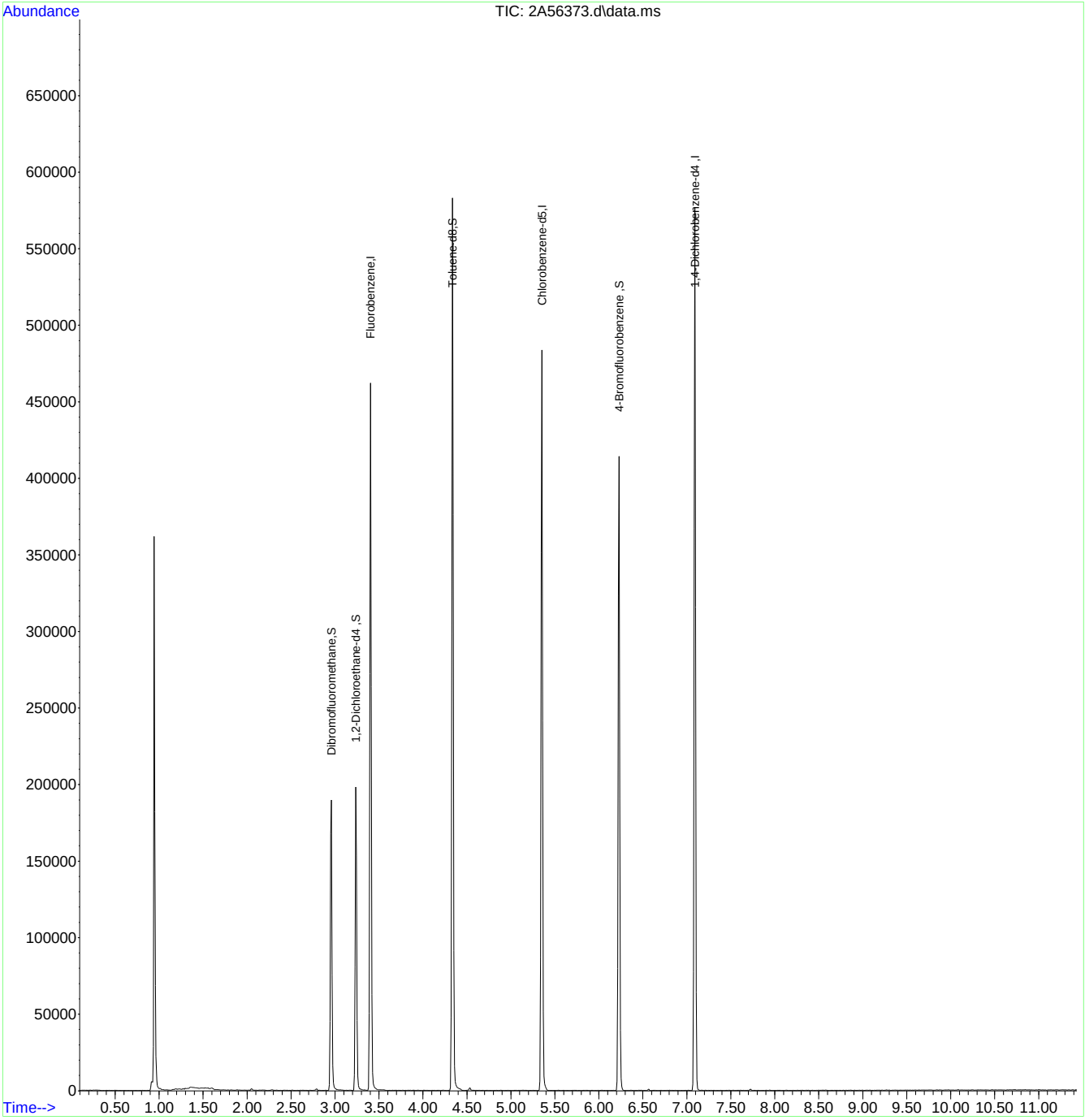
7.1.16

7

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56373.d
Acq On : 27 Jun 2024 3:40 pm
Operator : jeniferw
Sample : FC16592-15 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 06:13:31 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56374.d
Acq On : 27 Jun 2024 4:04 pm
Operator : jeniferw
Sample : FC16592-16 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 06:30:14 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

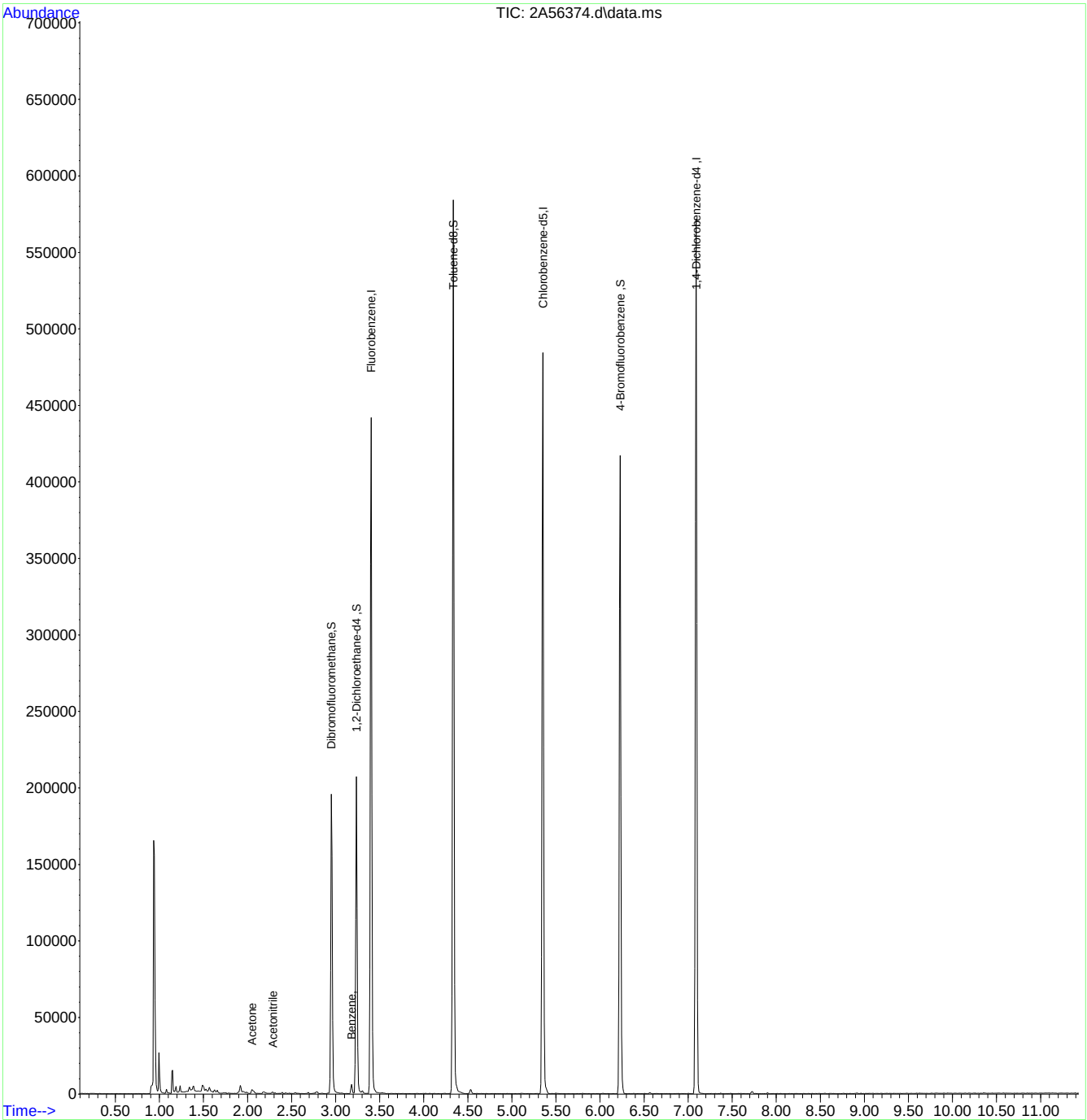
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	239186	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	182249	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	107149	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	70632	51.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.30%			
49) 1,2-Dichloroethane-d4	3.235	65	84746	51.20	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.40%			
63) Toluene-d8	4.336	98	246390	49.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.74%			
86) 4-Bromofluorobenzene	6.229	174	82905	48.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.78%			
Target Compounds						Qvalue
19) Acetone	2.050	43	2005	4.1714	ug/L	74
24) Acetonitrile	2.289	41	888	5.5064	ug/L	88
47) Benzene	3.181	78	3149	0.6511	ug/L	90

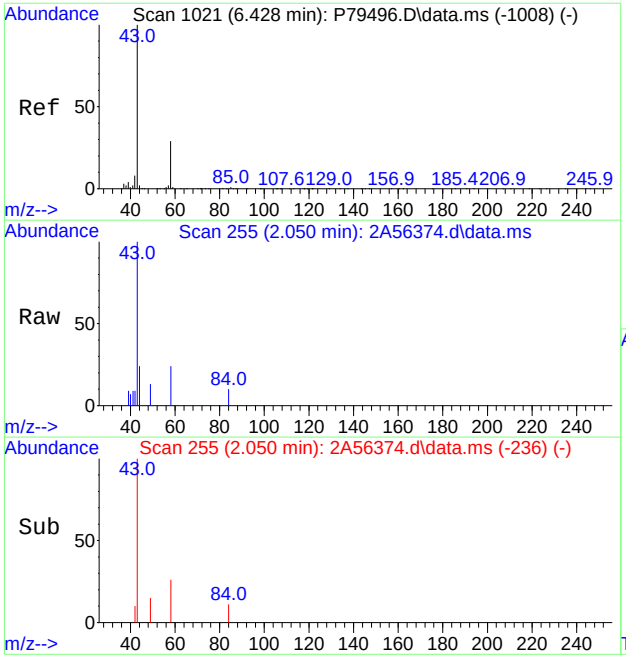
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56374.d
Acq On : 27 Jun 2024 4:04 pm
Operator : jeniferw
Sample : FC16592-16 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 06:30:14 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

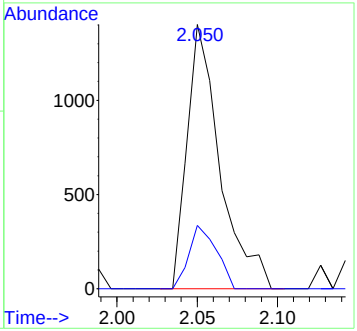


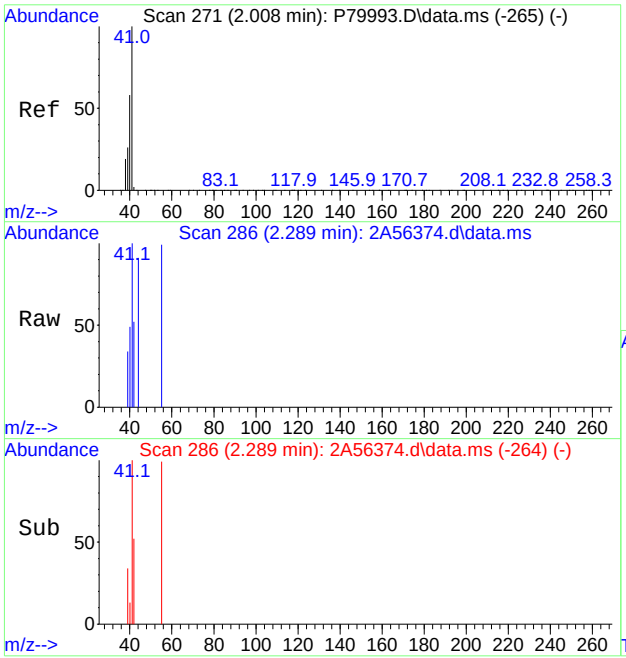


#19
Acetone
Concen: 4.1714 ug/L
RT: 2.050 min Scan# 255
Delta R.T. 0.000 min
Lab File: 2A56374.d
Acq: 27 Jun 2024 4:04 pm

Tgt Ion: 43 Resp: 2005

Ion	Ratio	Lower	Upper
43	100		
58	24.0	10.4	70.4

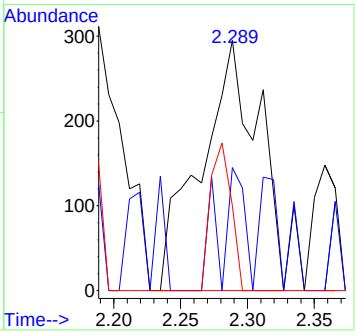


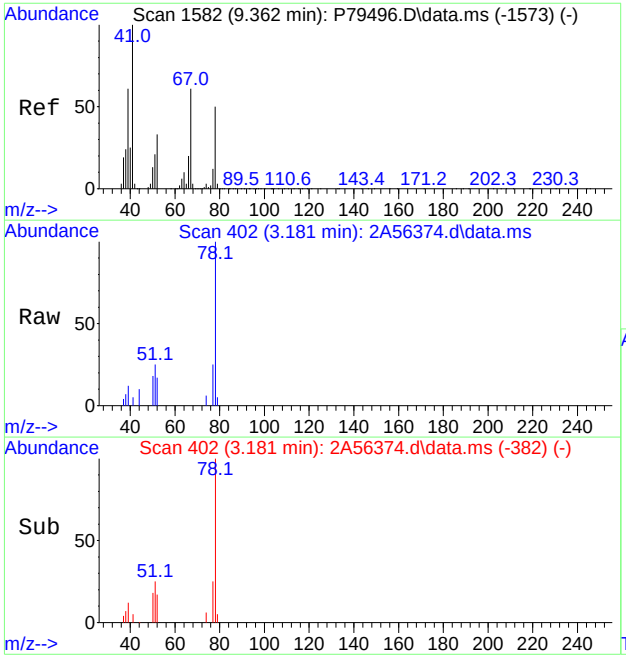


#24
Acetonitrile
Concen: 5.5064 ug/L
RT: 2.289 min Scan# 286
Delta R.T. 0.016 min
Lab File: 2A56374.d
Acq: 27 Jun 2024 4:04 pm

Tgt Ion: 41 Resp: 888

Ion	Ratio	Lower	Upper
41	100		
40	49.2	31.9	71.9
39	33.9	0.0	37.4

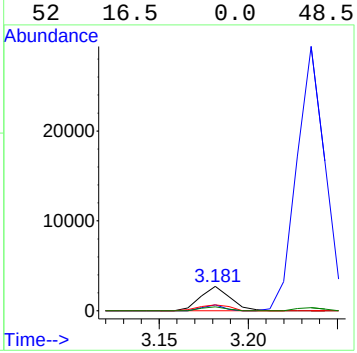




#47
Benzene
Concen: 0.6511 ug/L
RT: 3.181 min Scan# 402
Delta R.T. 0.000 min
Lab File: 2A56374.d
Acq: 27 Jun 2024 4:04 pm

Tgt Ion: 78 Resp: 3149

Ion	Ratio	Lower	Upper
78	100		
51	24.5	0.0	43.6
77	24.7	0.0	52.8
52	16.5	0.0	48.5



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56375.d
Acq On : 27 Jun 2024 4:28 pm
Operator : jeniferw
Sample : FC16592-17 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:13:41 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

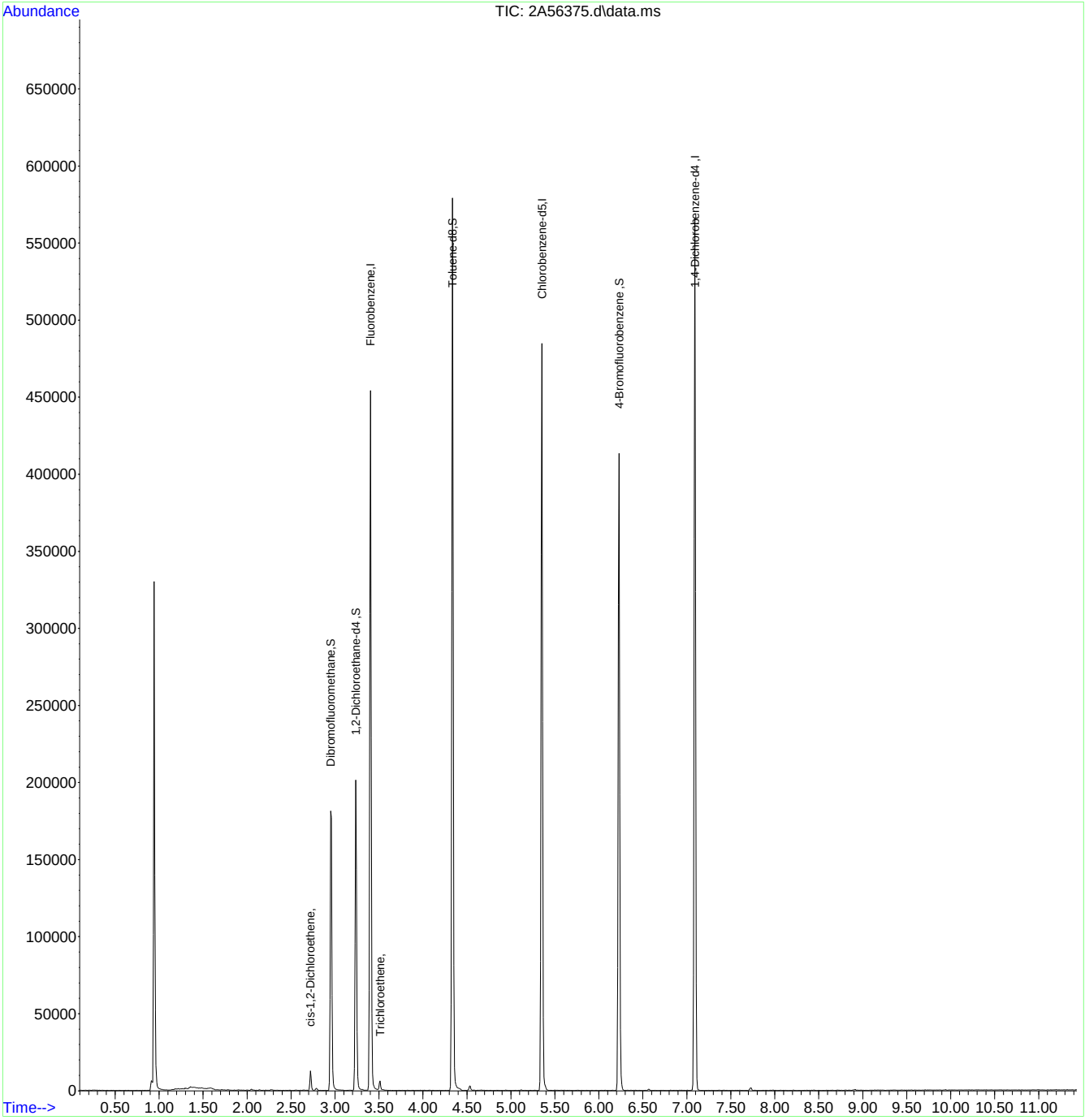
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	240491	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	181172	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	106647	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	70444	50.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.46%			
49) 1,2-Dichloroethane-d4	3.235	65	83928	50.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.86%			
63) Toluene-d8	4.336	98	246570	50.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.40%			
86) 4-Bromofluorobenzene	6.229	174	83510	49.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.96%			
Target Compounds						Qvalue
32) cis-1,2-Dichloroethene	2.720	96	3262	2.4079	ug/L #	77
53) Trichloroethene	3.513	95	1450	1.0456	ug/L	79

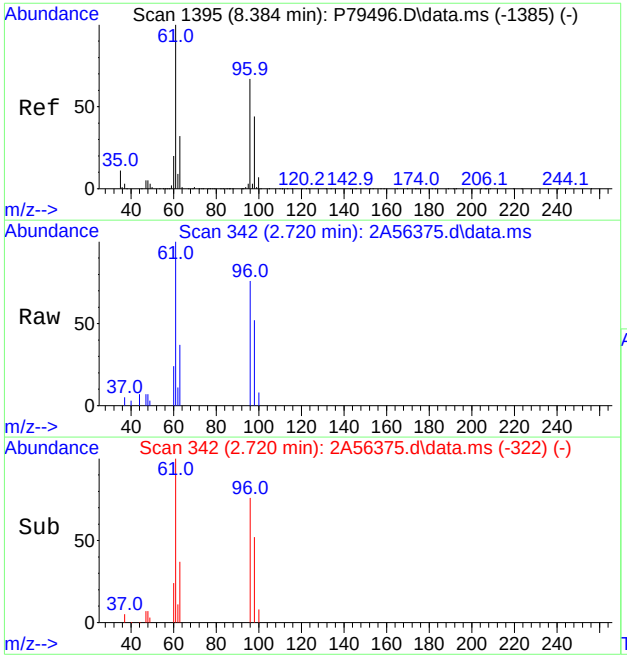
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56375.d
Acq On : 27 Jun 2024 4:28 pm
Operator : jeniferw
Sample : FC16592-17 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 28 06:13:41 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

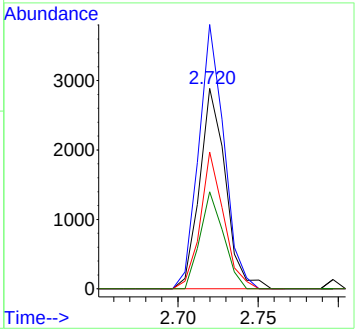


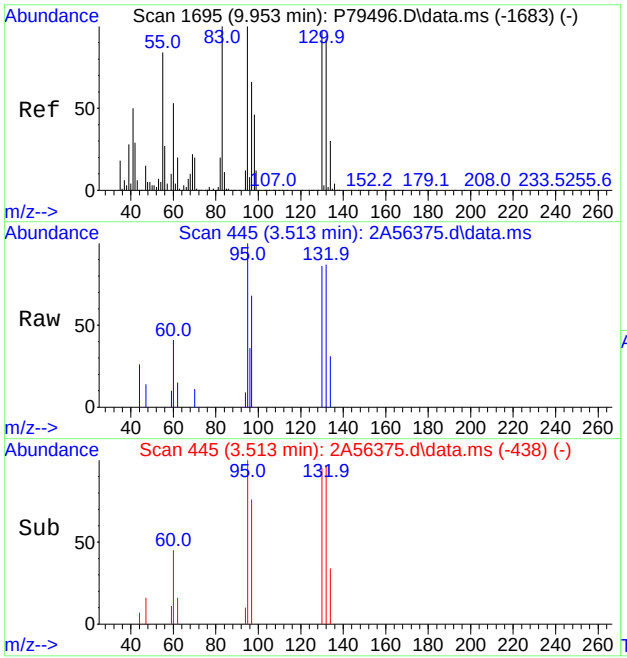


#32
cis-1,2-Dichloroethene
Concen: 2.4079 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56375.d
Acq: 27 Jun 2024 4:28 pm

Tgt Ion: 96 Resp: 3262

Ion	Ratio	Lower	Upper
96	100		
61	132.0	67.8	127.8#
98	68.3	35.4	95.4
63	48.4	2.5	62.5

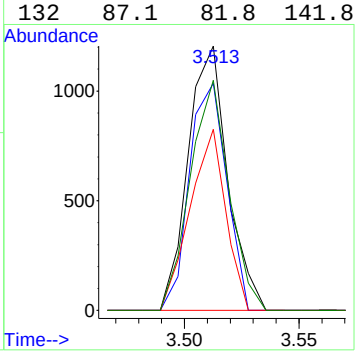




#53
Trichloroethene
Concen: 1.0456 ug/L
RT: 3.513 min Scan# 445
Delta R.T. 0.001 min
Lab File: 2A56375.d
Acq: 27 Jun 2024 4:28 pm

Tgt Ion: 95 Resp: 1450

Ion	Ratio	Lower	Upper
95	100		
130	85.8	85.1	145.1
97	68.5	34.8	94.8
132	87.1	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56376.d
Acq On : 27 Jun 2024 4:52 pm
Operator : jeniferw
Sample : FC16592-18 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 06:31:00 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

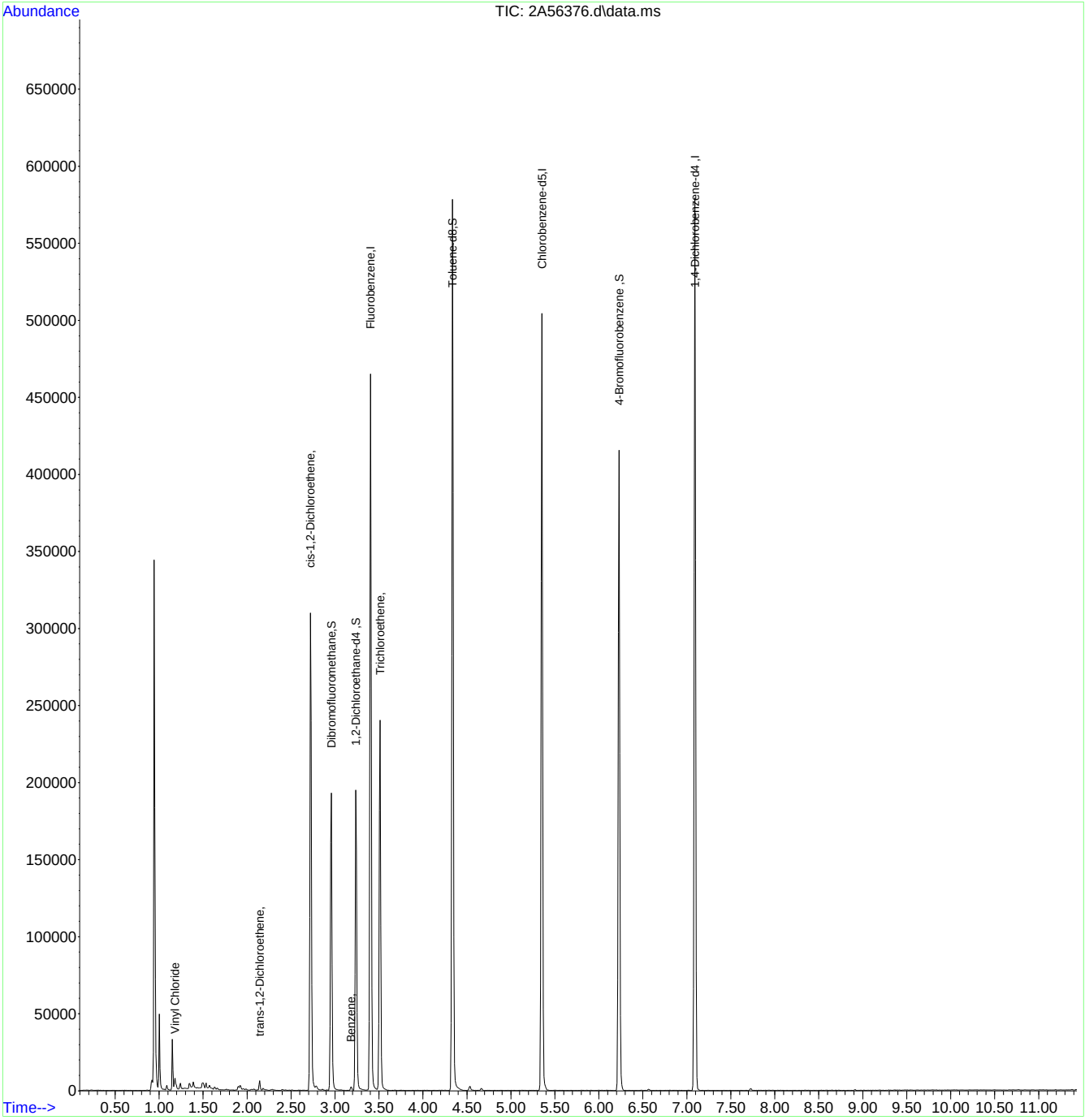
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	241159	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	183354	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	106840	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	70771	50.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.66%			
49) 1,2-Dichloroethane-d4	3.235	65	84263	50.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.98%			
63) Toluene-d8	4.336	98	246341	49.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.12%			
86) 4-Bromofluorobenzene	6.229	174	83332	49.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.56%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.180	62	3334	2.4035	ug/L	93
21) trans-1,2-Dichloroethene	2.143	61	1919	1.0307	ug/L	82
32) cis-1,2-Dichloroethene	2.720	96	80388	63.3116	ug/L #	75
47) Benzene	3.182	78	1160	0.2379	ug/L	89
53) Trichloroethene	3.512	95	49139	35.3370	ug/L	90

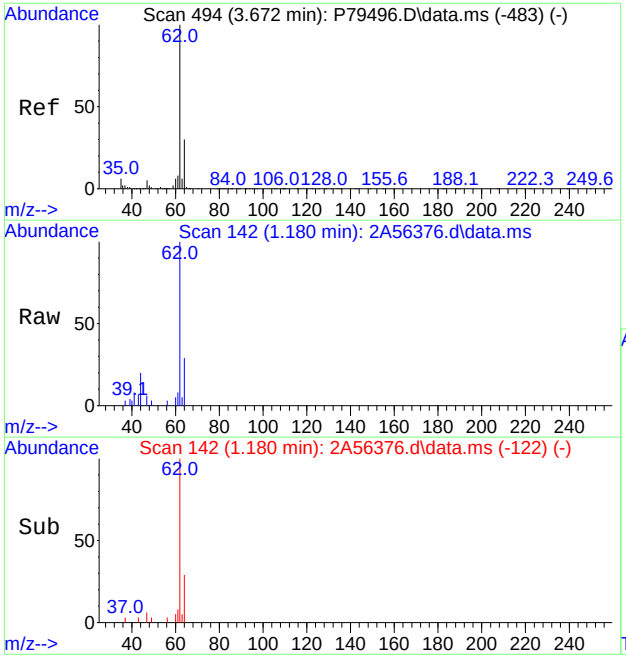
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56376.d
Acq On : 27 Jun 2024 4:52 pm
Operator : jeniferw
Sample : FC16592-18 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 06:31:00 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

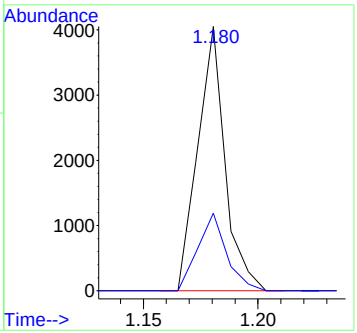


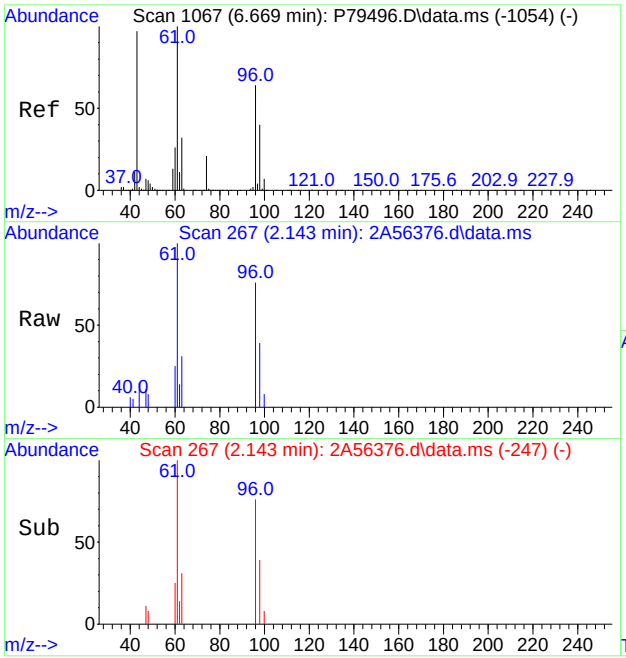


#5
Vinyl Chloride
Concen: 2.4035 ug/L
RT: 1.180 min Scan# 142
Delta R.T. 0.000 min
Lab File: 2A56376.d
Acq: 27 Jun 2024 4:52 pm

Tgt Ion: 62 Resp: 3334

Ion	Ratio	Lower	Upper
62	100		
64	29.4	3.1	63.1

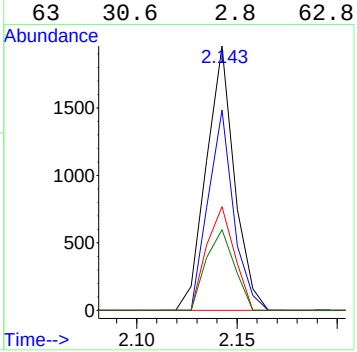


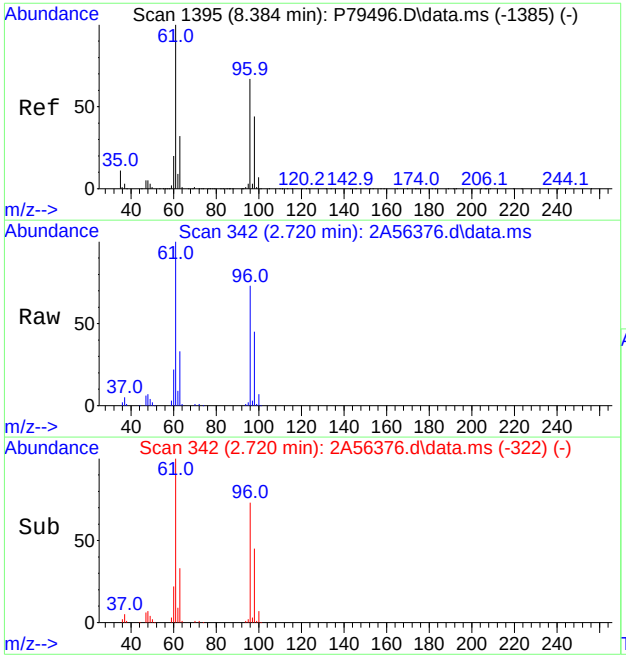


#21
trans-1,2-Dichloroethene
Concen: 1.0307 ug/L
RT: 2.143 min Scan# 267
Delta R.T. 0.001 min
Lab File: 2A56376.d
Acq: 27 Jun 2024 4:52 pm

Tgt Ion: 61 Resp: 1919

Ion	Ratio	Lower	Upper
61	100		
96	75.8	62.8	122.8
98	39.2	29.8	89.8
63	30.6	2.8	62.8

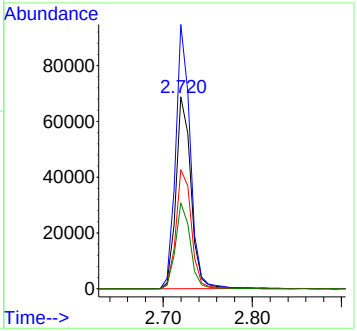


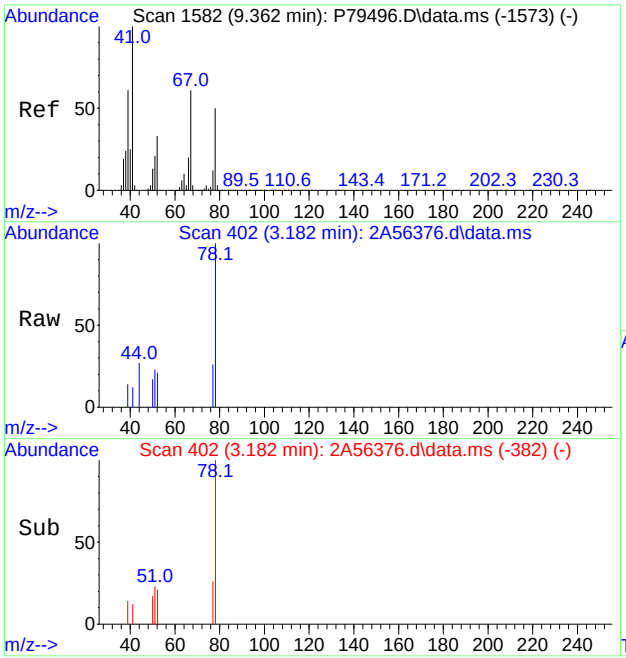


#32
cis-1,2-Dichloroethene
Concen: 63.3116 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56376.d
Acq: 27 Jun 2024 4:52 pm

Tgt Ion: 96 Resp: 80388

Ion	Ratio	Lower	Upper
96	100		
61	137.6	67.8	127.8#
98	62.1	35.4	95.4
63	44.9	2.5	62.5

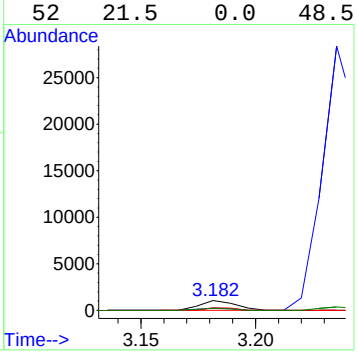


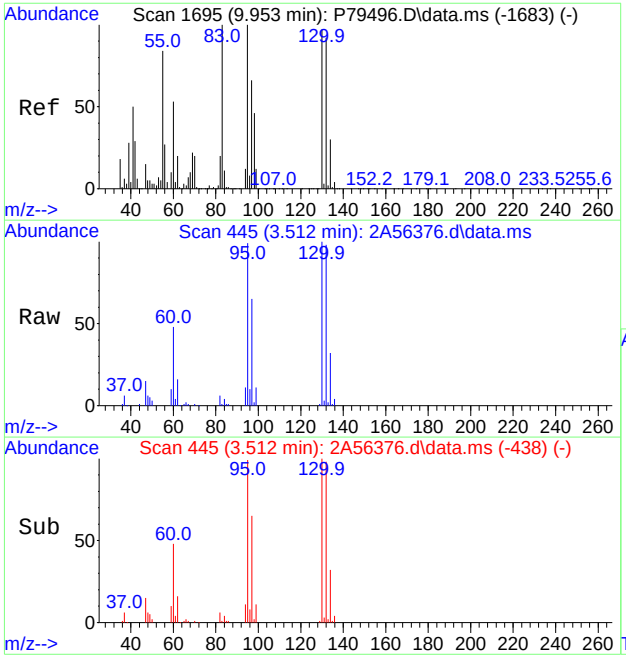


#47
Benzene
Concen: 0.2379 ug/L
RT: 3.182 min Scan# 402
Delta R.T. 0.001 min
Lab File: 2A56376.d
Acq: 27 Jun 2024 4:52 pm

Tgt Ion: 78 Resp: 1160

Ion	Ratio	Lower	Upper
78	100		
51	23.4	0.0	43.6
77	25.7	0.0	52.8
52	21.5	0.0	48.5

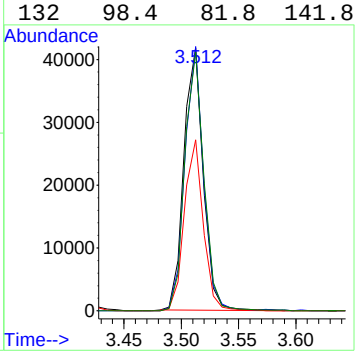




#53
Trichloroethene
Concen: 35.3370 ug/L
RT: 3.512 min Scan# 445
Delta R.T. 0.000 min
Lab File: 2A56376.d
Acq: 27 Jun 2024 4:52 pm

Tgt Ion: 95 Resp: 49139

Ion	Ratio	Lower	Upper
95	100		
130	100.6	85.1	145.1
97	65.1	34.8	94.8
132	98.4	81.8	141.8



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56377.d
Acq On : 27 Jun 2024 5:16 pm
Operator : jeniferw
Sample : FC16592-19 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 28 06:32:04 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

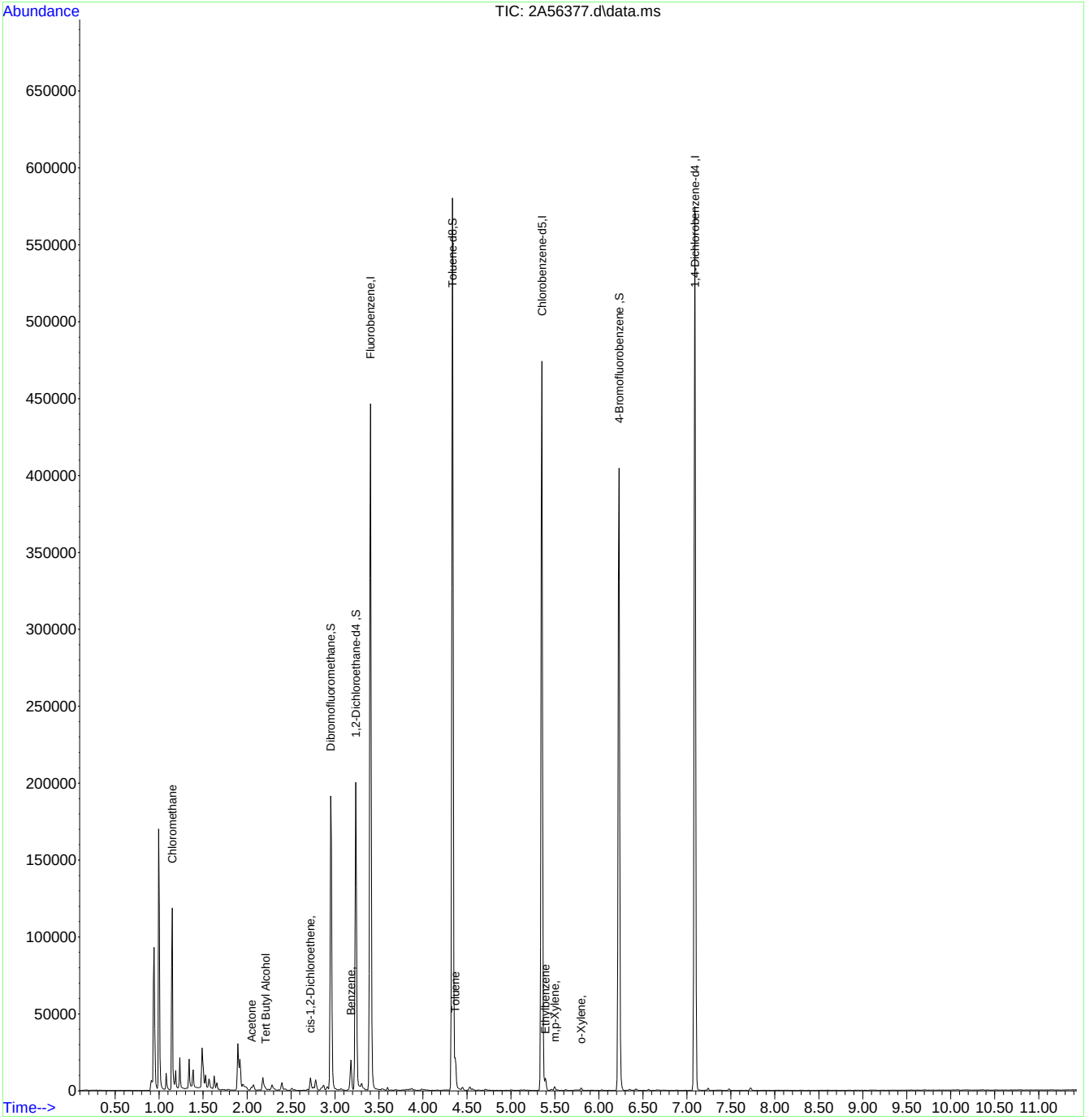
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	240274	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	180231	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	106235	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.950	113	70310	50.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%			
49) 1,2-Dichloroethane-d4	3.235	65	83262	50.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.14%			
63) Toluene-d8	4.336	98	242688	49.67	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.34%			
86) 4-Bromofluorobenzene	6.229	174	82707	49.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.38%			
Target Compounds						Qvalue
3) Chloromethane	1.150	50	2402	1.7570	ug/L	79
19) Acetone	2.050	43	1633	3.3821	ug/L	82
25) Tert Butyl Alcohol	2.212	59	700	3.6362	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	2144	1.5827	ug/L #	74
47) Benzene	3.181	78	9649	1.9860	ug/L	95
64) Toluene	4.367	91	7932	1.4668	ug/L	98
77) Ethylbenzene	5.390	91	2950	0.4709	ug/L	94
80) m,p-Xylene	5.498	91	1262	0.2463	ug/L	96
81) o-Xylene	5.798	91	887	0.1653	ug/L	88

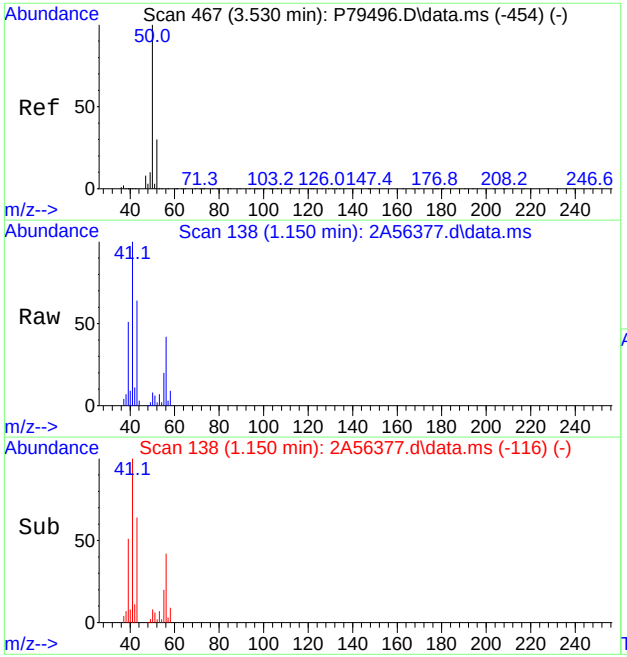
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56377.d
Acq On : 27 Jun 2024 5:16 pm
Operator : jeniferw
Sample : FC16592-19 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 28 06:32:04 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

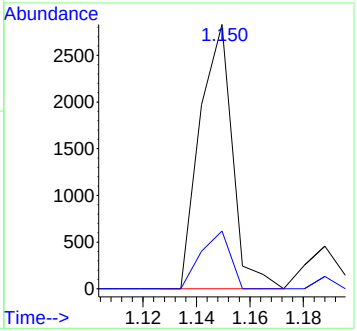


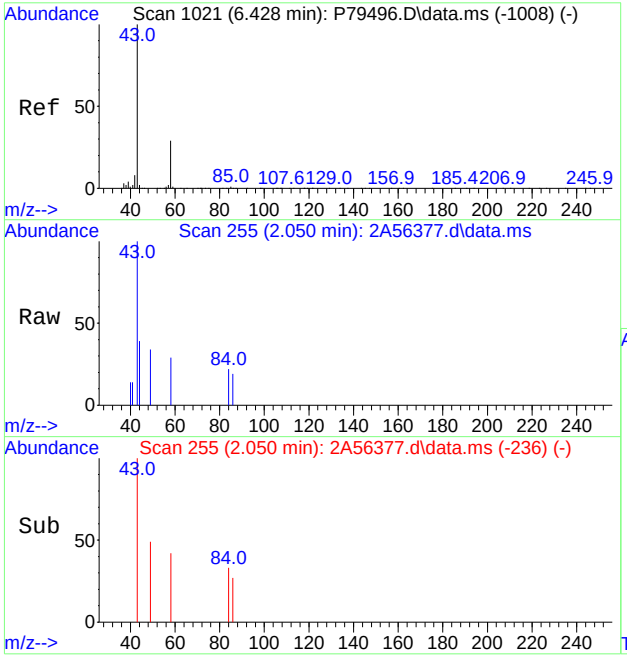


#3
Chloromethane
Concen: 1.7570 ug/L
RT: 1.150 min Scan# 138
Delta R.T. 0.016 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 50 Resp: 2402

Ion	Ratio	Lower	Upper
50	100		
52	21.9	3.8	63.8

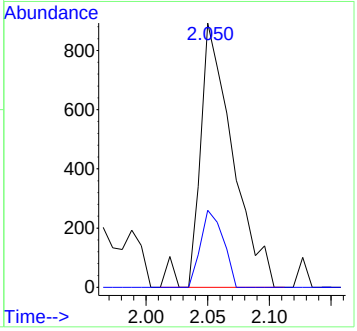


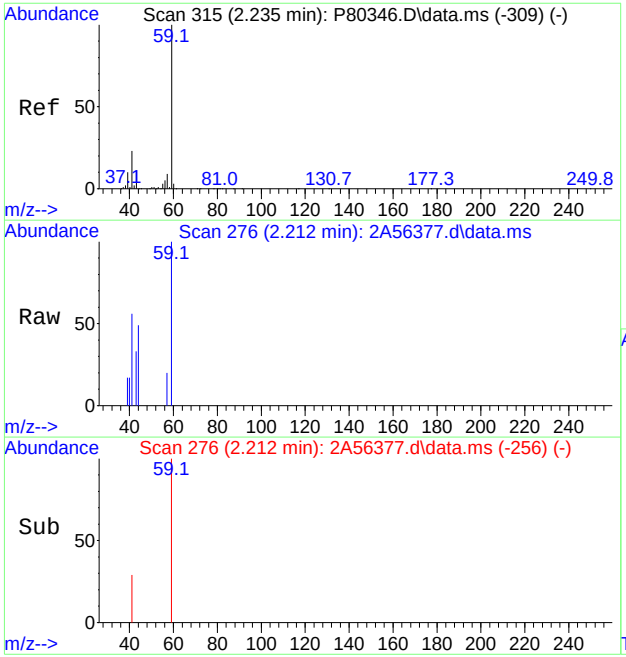


#19
Acetone
Concen: 3.3821 ug/L
RT: 2.050 min Scan# 255
Delta R.T. 0.000 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 43 Resp: 1633

Ion	Ratio	Lower	Upper
43	100		
58	29.1	10.4	70.4

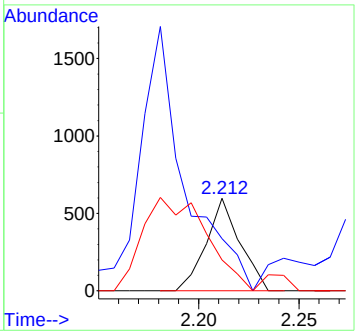


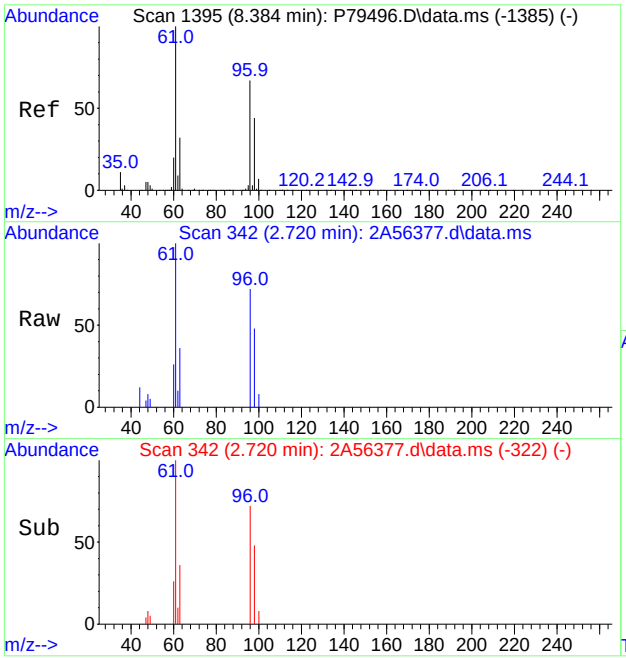


#25
Tert Butyl Alcohol
Concen: 3.6362 ug/L
RT: 2.212 min Scan# 276
Delta R.T. 0.001 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 59 Resp: 700

Ion	Ratio	Lower	Upper
59	100		
41	21.2	3.5	43.5
43	16.7	0.0	37.4

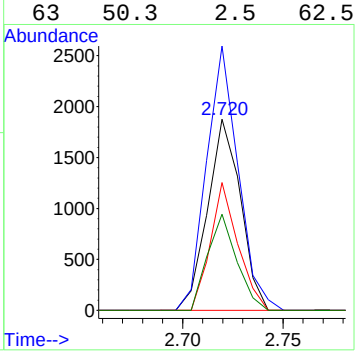


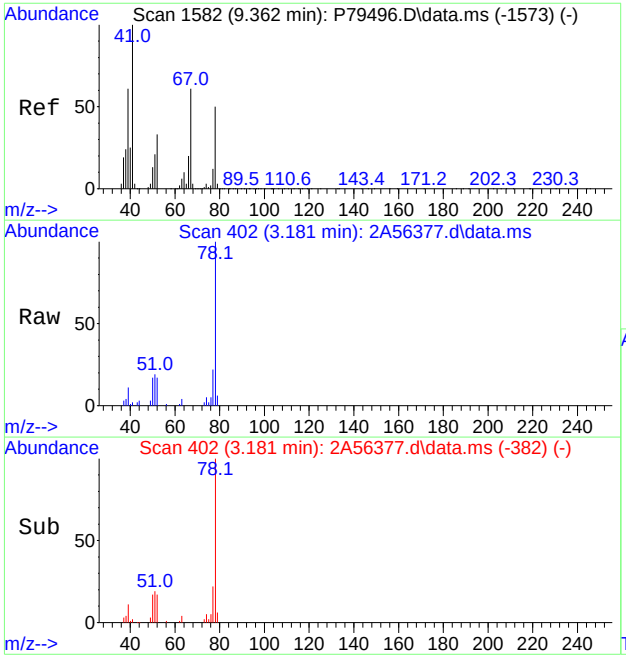


#32
cis-1,2-Dichloroethene
Concen: 1.5827 ug/L
RT: 2.720 min Scan# 342
Delta R.T. 0.001 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 96 Resp: 2144

Ion	Ratio	Lower	Upper
96	100		
61	138.4	67.8	127.8#
98	66.9	35.4	95.4
63	50.3	2.5	62.5

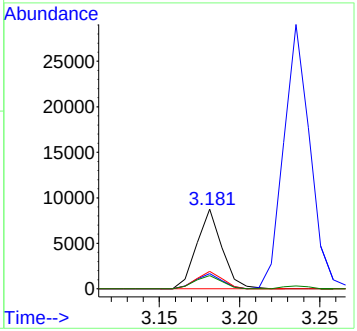


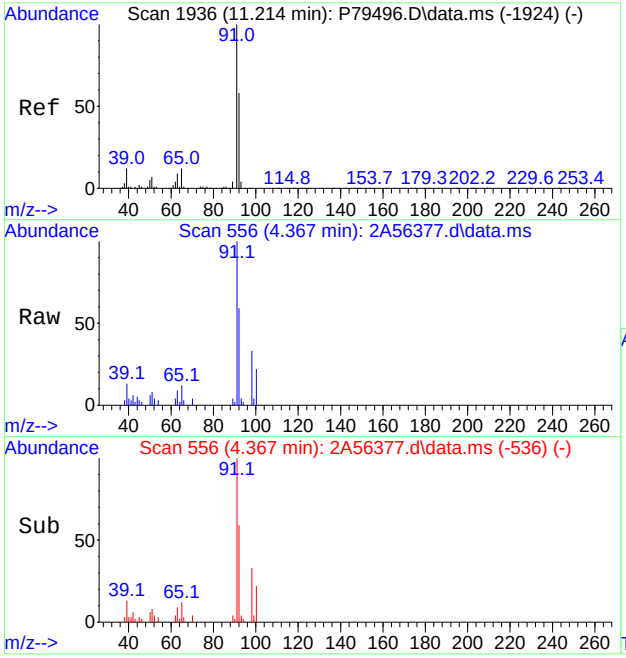


#47
Benzene
Concen: 1.9860 ug/L
RT: 3.181 min Scan# 402
Delta R.T. 0.000 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 78 Resp: 9649

Ion	Ratio	Lower	Upper
78	100		
51	19.0	0.0	43.6
77	22.0	0.0	52.8
52	16.7	0.0	48.5

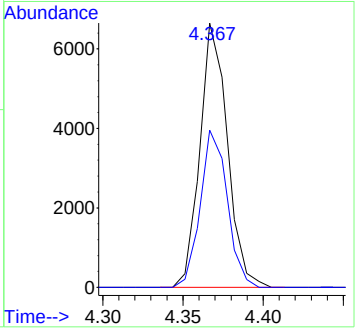


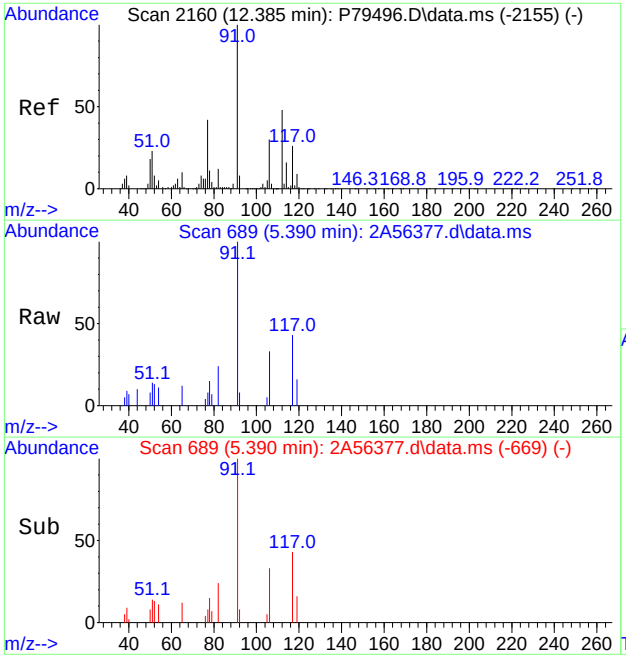


#64
Toluene
Concen: 1.4668 ug/L
RT: 4.367 min Scan# 556
Delta R.T. 0.001 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 91 Resp: 7932

Ion	Ratio	Lower	Upper
91	100		
92	59.5	28.2	88.2

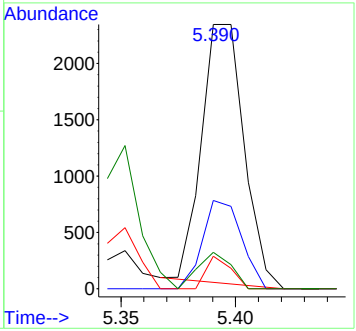


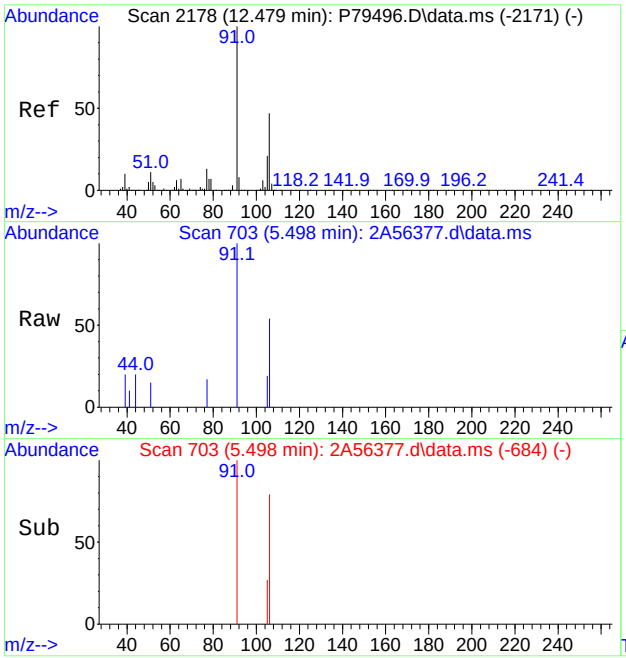


#77
Ethylbenzene
Concen: 0.4709 ug/L
RT: 5.390 min Scan# 689
Delta R.T. 0.000 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 91 Resp: 2950

Ion	Ratio	Lower	Upper
91	100		
106	33.4	4.3	64.3
65	12.3	0.0	37.1
51	13.8	0.0	37.1

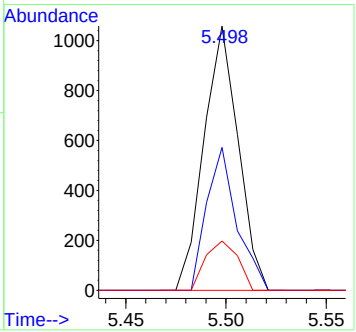


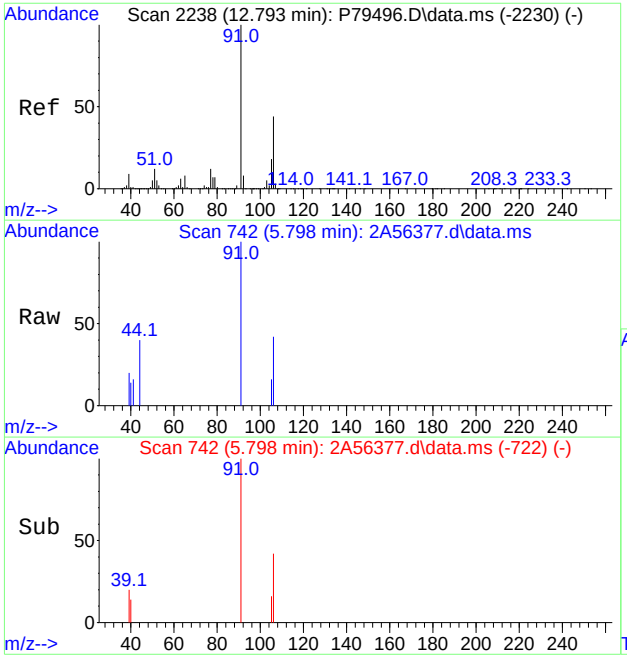


#80
m,p-Xylene
Concen: 0.2463 ug/L
RT: 5.498 min Scan# 703
Delta R.T. -0.000 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 91 Resp: 1262

Ion	Ratio	Lower	Upper
91	100		
106	54.0	23.2	83.2
105	18.7	0.0	54.5

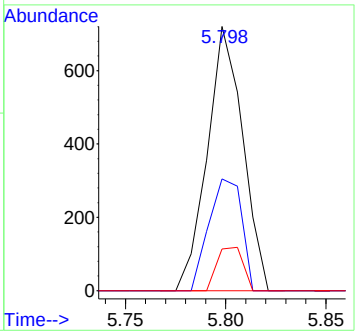




#81
o-Xylene
Concen: 0.1653 ug/L
RT: 5.798 min Scan# 742
Delta R.T. 0.000 min
Lab File: 2A56377.d
Acq: 27 Jun 2024 5:16 pm

Tgt Ion: 91 Resp: 887

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.1	81.1
105	15.8	0.0	51.5



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56358.d
Acq On : 27 Jun 2024 9:39 am
Operator : jeniferw
Sample : FC16592-20 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 06:25:30 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

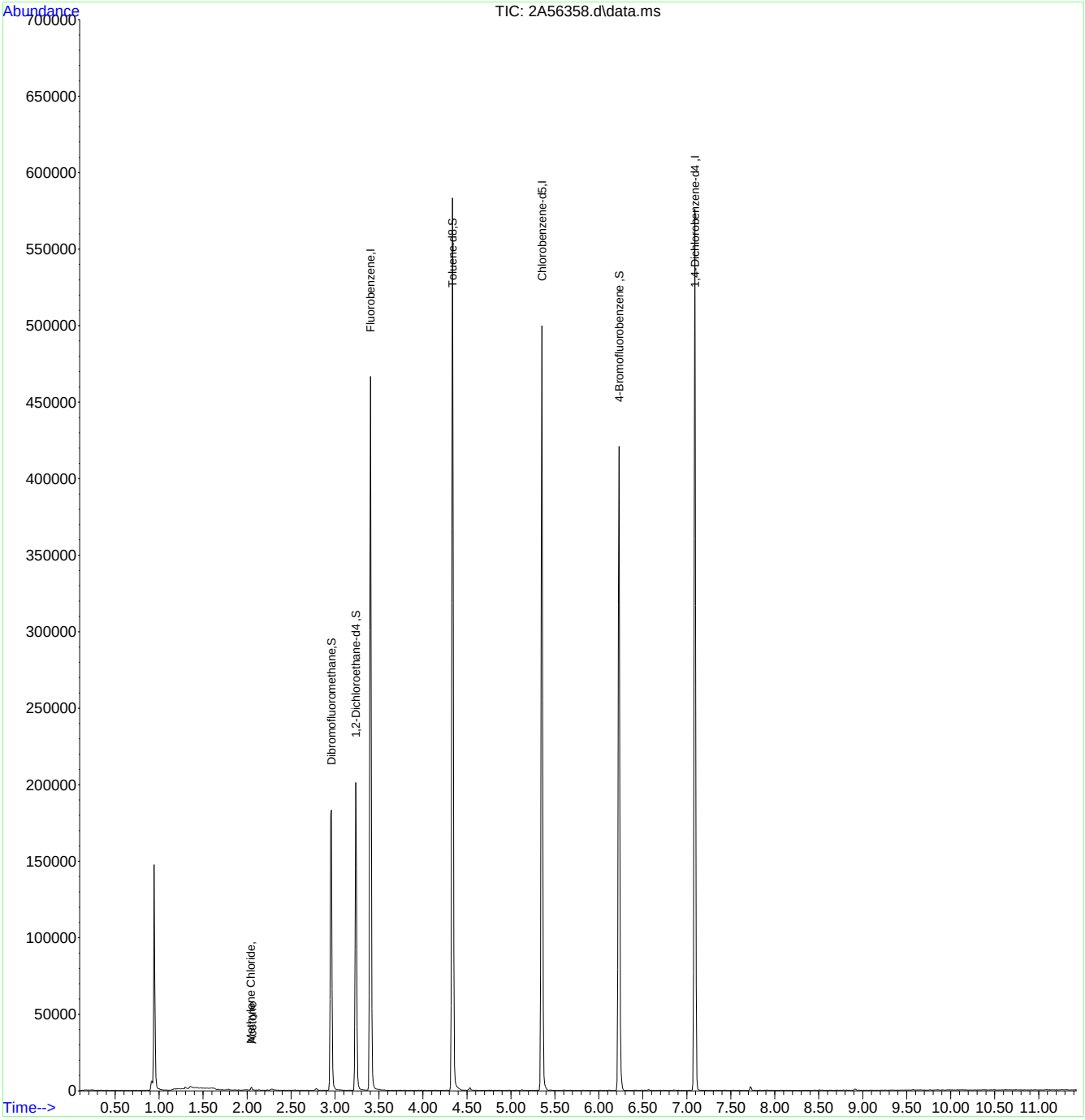
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	245899	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	184189	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	108340	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	71549	50.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.80%			
49) 1,2-Dichloroethane-d4	3.235	65	85274	50.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.22%			
63) Toluene-d8	4.336	98	252102	50.49	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.98%			
86) 4-Bromofluorobenzene	6.229	174	83829	48.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.78%			
Target Compounds						Qvalue
18) Methylene Chloride	2.042	49	695	0.3975	ug/L #	62
19) Acetone	2.058	43	675	1.3660	ug/L	95

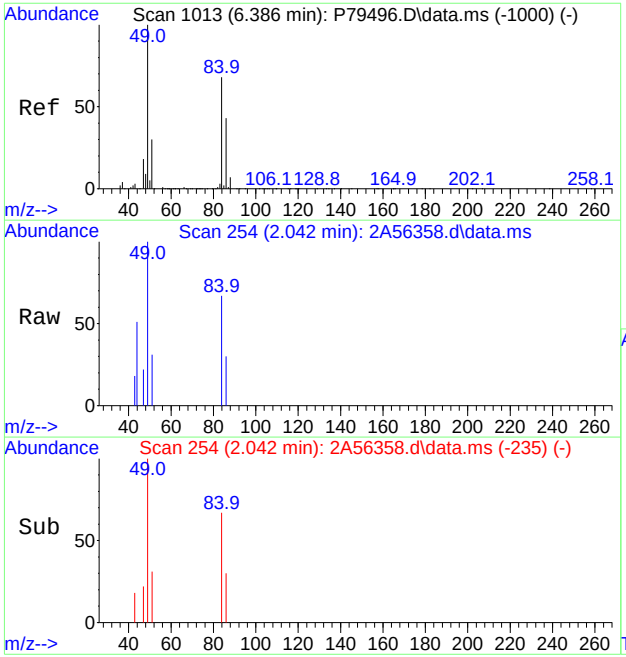
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56358.d
Acq On : 27 Jun 2024 9:39 am
Operator : jeniferw
Sample : FC16592-20 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 06:25:30 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

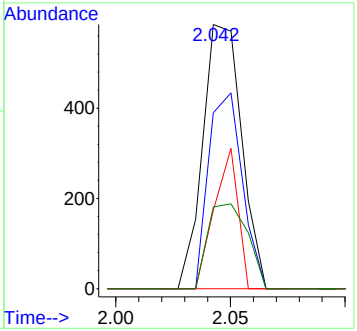


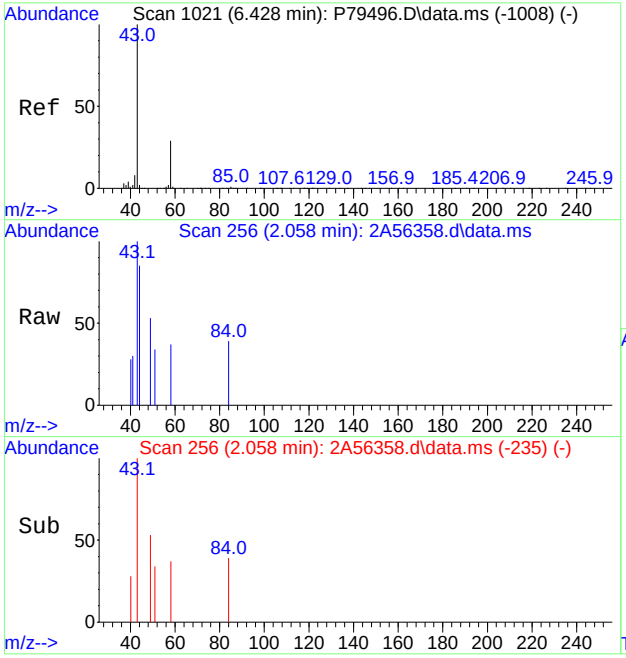


#18
Methylene Chloride
Concen: 0.3975 ug/L
RT: 2.042 min Scan# 254
Delta R.T. -0.008 min
Lab File: 2A56358.d
Acq: 27 Jun 2024 9:39 am

Tgt Ion: 49 Resp: 695

Ion	Ratio	Lower	Upper
49	100		
84	66.6	78.4	138.4#
86	29.7	42.5	102.5#
51	30.9	2.7	62.7

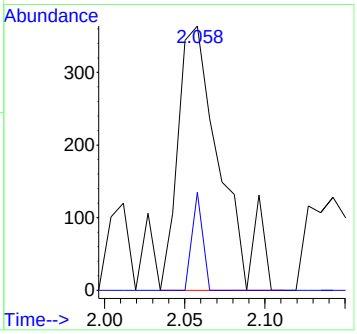




#19
Acetone
Concen: 1.3660 ug/L
RT: 2.058 min Scan# 256
Delta R.T. 0.008 min
Lab File: 2A56358.d
Acq: 27 Jun 2024 9:39 am

Tgt Ion: 43 Resp: 675

Ion	Ratio	Lower	Upper
43	100		
58	37.1	10.4	70.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56357.D
Acq On : 27 Jun 2024 9:14 am
Operator : jeniferw
Sample : MB
Misc : MS56917,V2A1913,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 09:26:27 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

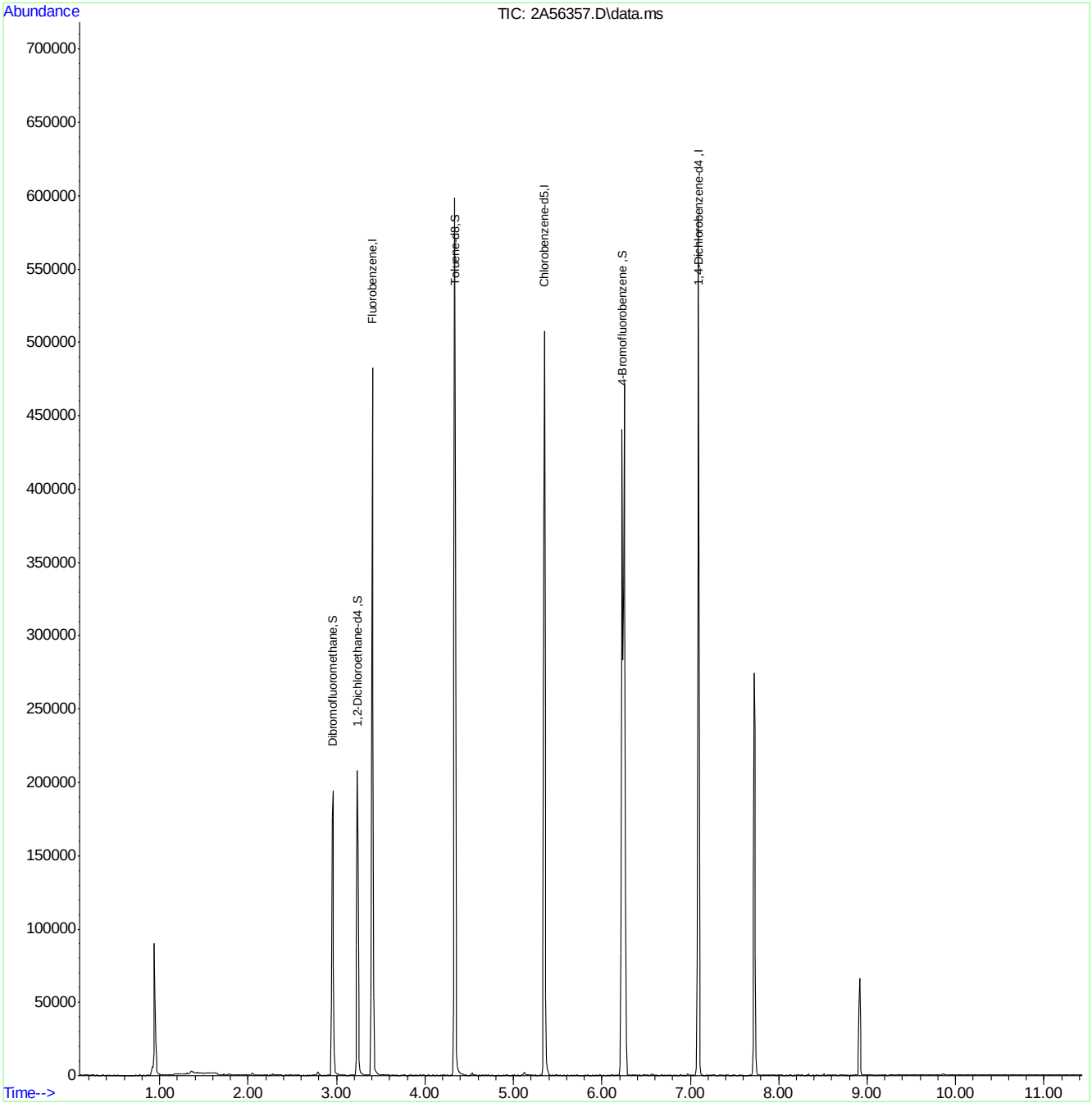
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	251920	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	188890	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	109868	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	73533	50.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.12%			
49) 1,2-Dichloroethane-d4	3.235	65	86686	49.72	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.44%			
63) Toluene-d8	4.336	98	256068	50.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.02%			
86) 4-Bromofluorobenzene	6.229	174	84765	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.50%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56357.D
Acq On : 27 Jun 2024 9:14 am
Operator : jeniferw
Sample : MB
Misc : MS56917,V2A1913,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 09:26:27 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47523.D
Acq On : 28 Jun 2024 11:02 am
Operator : lianatr
Sample : MB
Misc : MS56925,V5E2118,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:19:08 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

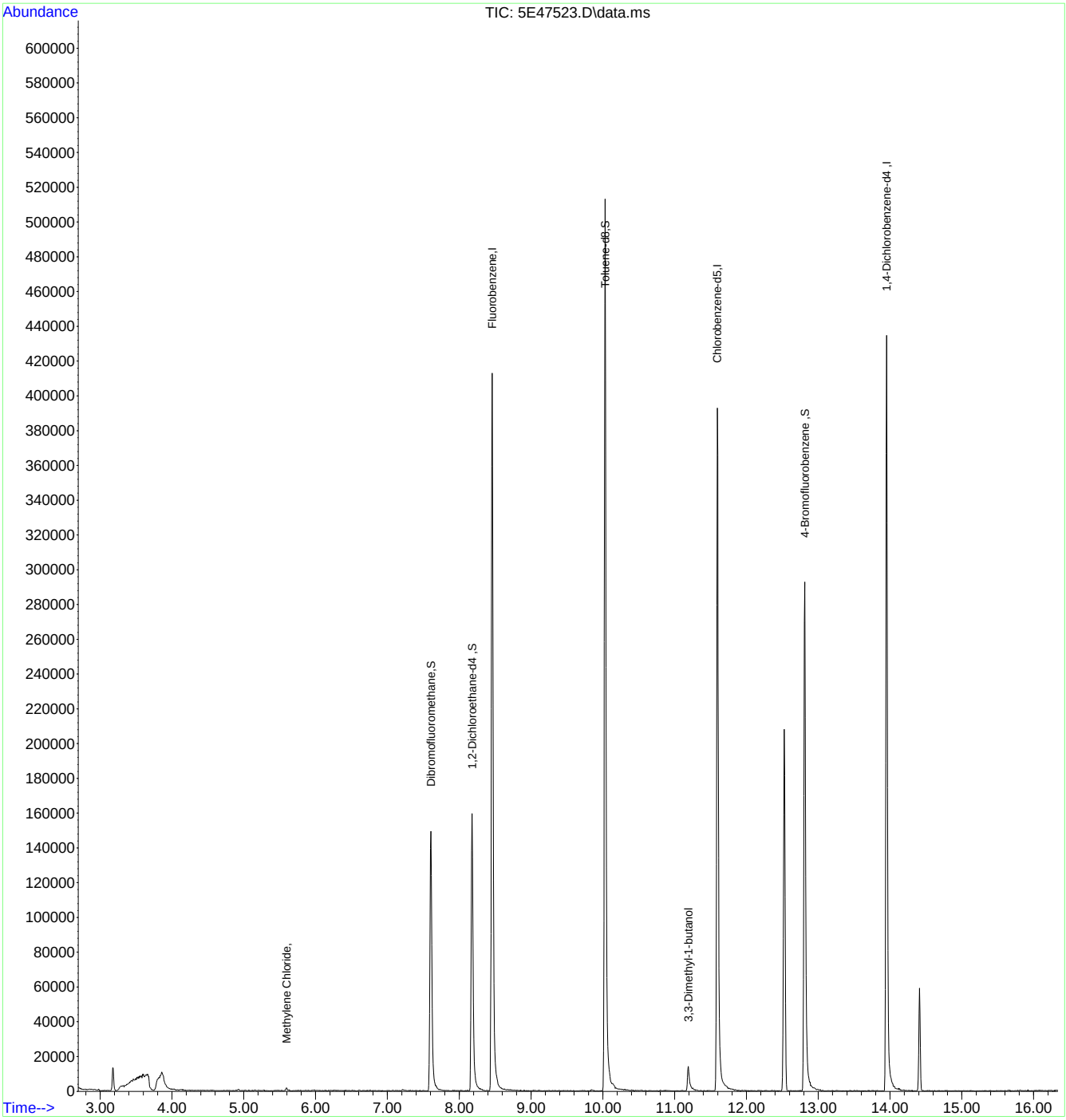
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	342088	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	215338	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	106839	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	85078	47.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.92%			
49) 1,2-Dichloroethane-d4	8.180	65	98587	47.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.74%			
62) Toluene-d8	10.033	98	317341	52.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.52%			
86) 4-Bromofluorobenzene	12.813	95	94724	53.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.56%			
Target Compounds						Qvalue
18) Methylene Chloride	5.595	49	955	0.48	ug/L	77
74) 3,3-Dimethyl-1-butanol	11.191	57	8673	109.72	ug/L	88

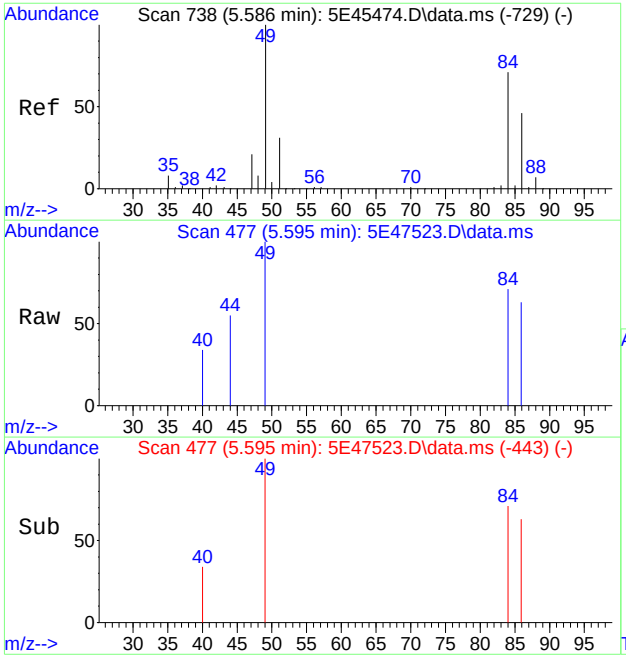
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47523.D
Acq On : 28 Jun 2024 11:02 am
Operator : lianatr
Sample : MB
Misc : MS56925,V5E2118,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 11:19:08 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

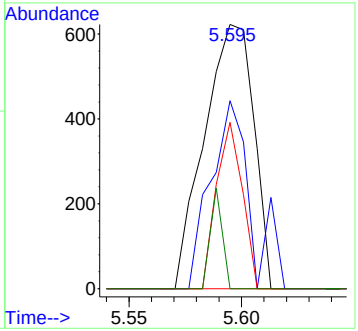


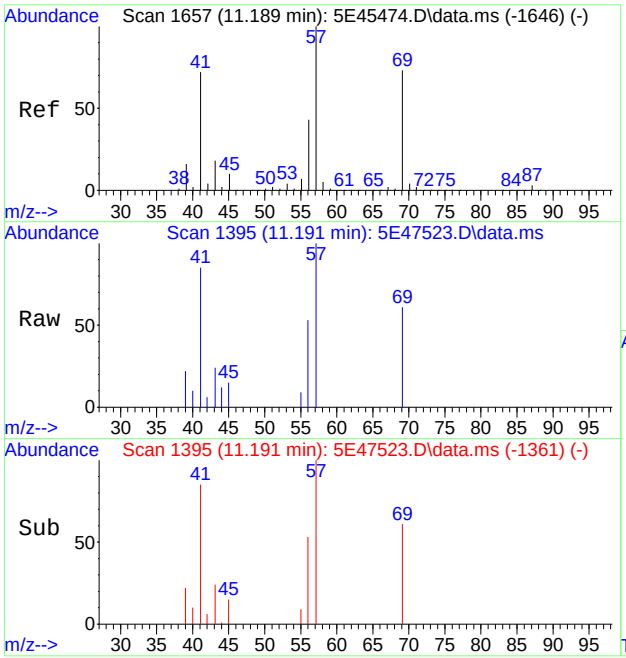


#18
Methylene Chloride
Concen: 0.48 ug/L
RT: 5.595 min Scan# 477
Delta R.T. 0.006 min
Lab File: 5E47523.D
Acq: 28 Jun 2024 11:02 am

Tgt Ion: 49 Resp: 955

Ion	Ratio	Lower	Upper
49	100		
84	71.1	37.7	97.7
86	62.9	14.3	74.3
51	0.0	0.0	59.9

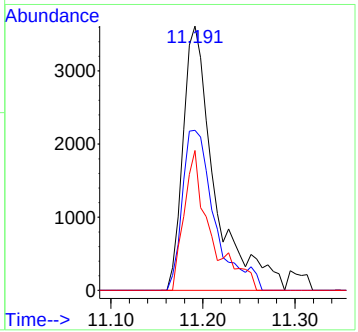




#74
3,3-Dimethyl-1-butanol
Concen: 109.72 ug/L
RT: 11.191 min Scan# 1395
Delta R.T. 0.006 min
Lab File: 5E47523.D
Acq: 28 Jun 2024 11:02 am

Tgt Ion: 57 Resp: 8673

Ion	Ratio	Lower	Upper
57	100		
69	60.5	50.2	90.2
56	52.9	24.1	64.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85456.D
Acq On : 1 Jul 2024 10:00 am
Operator : jeniferw
Sample : MB Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 10:13:17 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

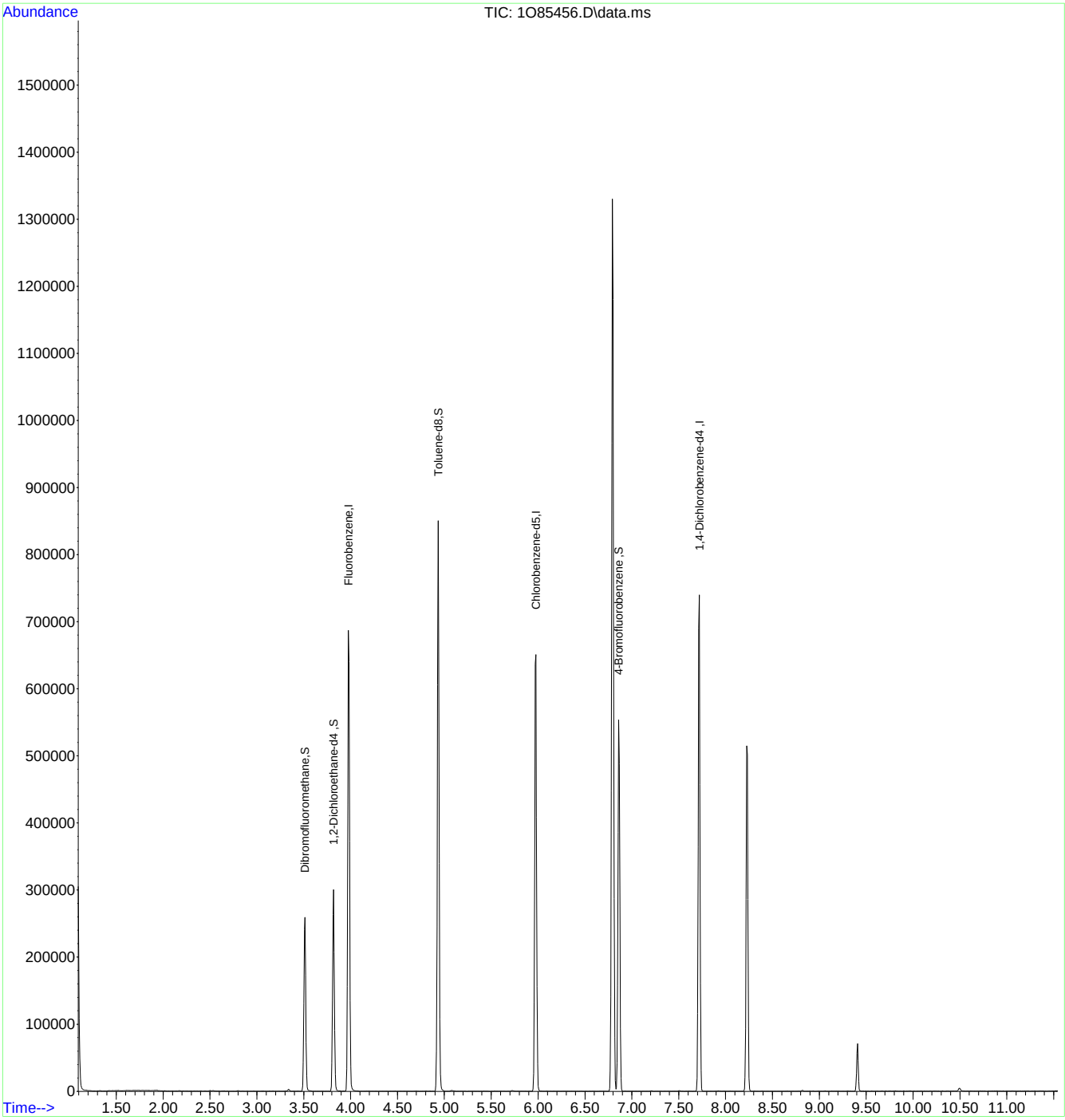
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	418813	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	273539	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	146625	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	109823	51.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.06%			
50) 1,2-Dichloroethane-d4	3.818	65	152749	54.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.74%			
63) Toluene-d8	4.934	98	401909	50.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.56%			
86) 4-Bromofluorobenzene	6.860	174	109696	53.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.36%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85456.D
Acq On : 1 Jul 2024 10:00 am
Operator : jeniferw
Sample : MB Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 10:13:17 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/28/24 08:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:56 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	269653	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	192263	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	113648	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.951	113	74328	47.74	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.48%				
49) 1,2-Dichloroethane-d4	3.235	65	92897	49.78	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.56%				
63) Toluene-d8	4.336	98	263253	50.51	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.02%				
86) 4-Bromofluorobenzene	6.229	174	88318	49.10	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.019	85	27199	20.41	ug/L		97
3) Chloromethane	1.127	50	31230	20.35	ug/L		97
4) 1,3-butadiene	1.180	39	45349	24.70	ug/L	#	71
5) Vinyl Chloride	1.173	62	31405	20.25	ug/L		97
6) Bromomethane	1.342	94	14997	22.24	ug/L		98
7) Chloroethane	1.411	64	19093	22.69	ug/L		95
8) Trichlorofluoromethane	1.496	101	48012	23.29	ug/L		100
9) Ethyl Ether	1.658	59	24334	22.17	ug/L		92
10) Ethanol	1.704	45	10279	610.60	ug/L		95
11) 1,2-Dichlorotrifluoroe...	1.742	67	37735	35.61	ug/L		88
12) 1,1-Dichloroethene	1.758	61	49148	23.45	ug/L		86
13) Freon 113	1.781	101	31208	25.15	ug/L	#	80
14) Carbon Disulfide	1.781	76	79720	21.16	ug/L		80
15) Iodomethane	1.835	142	24970	25.52	ug/L		91
16) Acrolein	1.904	56	37912	147.12	ug/L		97
17) Allyl chloride	1.996	41	51244	25.01	ug/L		81
18) Methylene Chloride	2.042	49	46777	24.40	ug/L	#	72
19) Acetone	2.050	43	71588	132.11	ug/L		81
20) Methyl acetate	2.119	43	167921	125.21	ug/L		85
21) trans-1,2-Dichloroethene	2.135	61	49142	23.60	ug/L		78
22) Hexane	2.196	56	29967	24.16	ug/L	#	81
23) Methyl Tert Butyl Ether	2.189	73	92362	24.44	ug/L		86
24) Acetonitrile	2.273	41	49765	273.72	ug/L		96
25) Tert Butyl Alcohol	2.212	59	57433	265.83	ug/L		84
26) Di-isopropyl ether	2.389	45	98389	23.03	ug/L		85
27) Chloroprene	2.435	53	136261	24.34	ug/L		90
28) 1,1-Dichloroethane	2.443	63	59938	22.54	ug/L		97
29) Acrylonitrile	2.435	52	81764	121.07	ug/L		96
30) ETBE	2.581	59	96881	23.94	ug/L		91
31) Vinyl acetate	2.558	43	437625	135.42	ug/L		97
32) cis-1,2-Dichloroethene	2.720	96	34981	23.56	ug/L	#	80
33) 2,2-Dichloropropane	2.781	77	52375	24.36	ug/L		95
34) Bromochloromethane	2.820	128	16967	22.68	ug/L	#	58
35) Cyclohexane	2.858	56	58079	23.53	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:56 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	61817	25.13	ug/L		94
37) Ethyl acetate	2.912	43	225624	127.39	ug/L		90
38) Tetrahydrofuran	2.943	42	15317	24.27	ug/L	#	83
40) Carbon Tetrachloride	2.958	117	49446m	24.06	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	54745	23.21	ug/L		95
42) 2-Butanone	2.997	43	105779	119.93	ug/L		80
43) 1,1-Dichloropropene	3.051	75	46482	25.01	ug/L		79
44) tert-Butyl formate	3.089	59	159370	144.23	ug/L		96
45) Propionitrile	3.143	54	66174	262.13	ug/L		97
46) Methacrylonitrile	3.166	41	264382	266.18	ug/L		94
47) Benzene	3.181	78	131206	24.06	ug/L		89
48) TAME	3.251	73	83257	23.54	ug/L	#	71
50) 1,2-Dichloroethane	3.274	62	48176	24.18	ug/L		93
51) Isobutyl Alcohol	3.251	43	73843	543.00	ug/L		86
52) Tert Amyl Alcohol	3.320	59	48974	283.89	ug/L		90
53) Trichloroethene	3.505	95	37598	24.18	ug/L		82
54) Methylcyclohexane	3.528	83	58177	24.17	ug/L		83
55) Dibromomethane	3.728	93	22778	24.17	ug/L	#	74
56) 1,2-Dichloropropane	3.789	63	34546	24.52	ug/L		87
57) Bromodichloromethane	3.828	83	43529	22.09	ug/L	#	96
58) Methyl methacrylate	3.920	41	35886	27.05	ug/L	#	70
59) 1,4-Dioxane	3.936	88	8875	652.75	ug/L		80
60) 2-Chloroethyl vinyl ether	4.167	63	121704	126.63	ug/L		85
61) cis-1,3-Dichloropropene	4.205	75	51616	24.14	ug/L		79
64) Toluene	4.367	91	139450	24.17	ug/L		99
65) 2-Nitropropane	4.467	41	68823	135.60	ug/L		90
66) 4-Methyl-2-pentanone	4.582	43	223255	129.70	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	46083	24.17	ug/L		80
68) Tetrachloroethene	4.628	166	37472	25.13	ug/L		96
69) Ethyl methacrylate	4.728	69	42385	24.81	ug/L	#	69
70) 1,1,2-Trichloroethane	4.713	83	25643	23.66	ug/L		87
71) Dibromochloromethane	4.836	129	33787	25.11	ug/L		98
72) 1,3-Dichloropropane	4.890	76	51447	27.30	ug/L		75
73) 1,2-Dibromoethane	4.990	107	32665	25.38	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	284762	1342.41	ug/L		94
75) 2-hexanone	5.136	43	222242	133.11	ug/L		75
76) 1-Chlorohexane	5.360	91	49091m	22.46	ug/L		
77) Ethylbenzene	5.390	91	160659m	24.04	ug/L		
78) Chlorobenzene	5.360	112	89152	23.89	ug/L		82
79) 1,1,1,2-Tetrachloroethane	5.406	131	31666	24.88	ug/L		97
80) m,p-Xylene	5.498	91	255341	46.72	ug/L		93
81) o-Xylene	5.798	91	129507	22.63	ug/L		92
82) Styrene	5.829	104	97653	23.66	ug/L		88
83) Bromoform	5.837	173	22939	24.04	ug/L		97
84) Isopropylbenzene	6.037	105	156390	23.20	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.260	53	11444	24.01	ug/L	#	70
88) n-Propylbenzene	6.352	91	196137	23.40	ug/L		91
89) Bromobenzene	6.306	156	39109	24.61	ug/L	#	79
90) 1,1,2,2-Tetrachloroethane	6.368	83	44866	23.98	ug/L		98
91) 1,3,5-Trimethylbenzene	6.506	105	131891	23.17	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:56 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

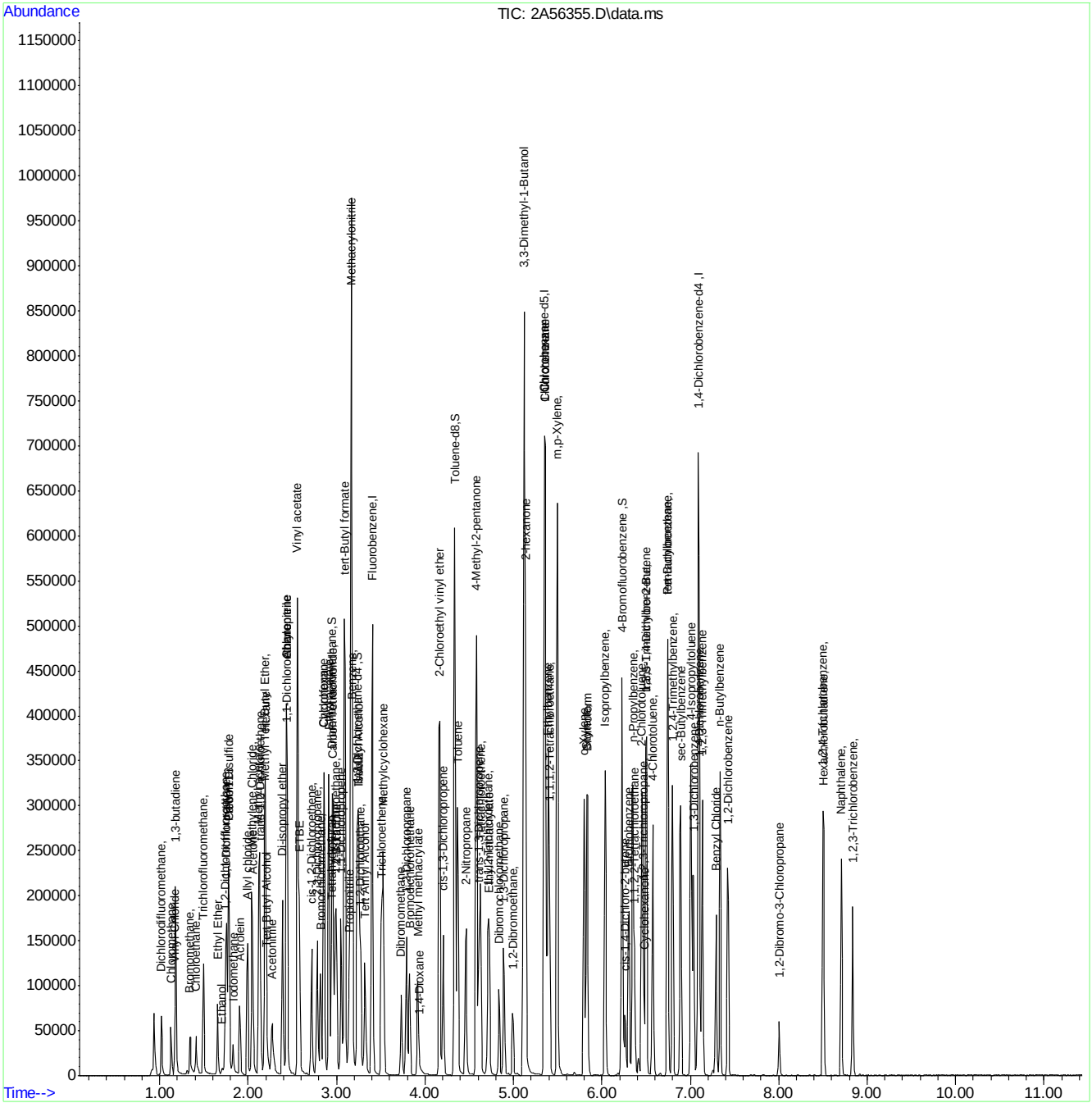
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	107626	23.27	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.506	53	15698	26.05	ug/L	#	65
94)	1,2,3-Trichloropropane	6.468	110	13423	27.38	ug/L		78
95)	Cyclohexanone	6.475	55	12898	229.97	ug/L	#	77
96)	4-Chlorotoluene	6.576	91	114592	23.14	ug/L		87
97)	tert-Butylbenzene	6.745	91	78637	22.97	ug/L		85
98)	1,2,4-Trimethylbenzene	6.799	105	125908	23.65	ug/L		96
99)	Pentachloroethane	6.745	167	21569	25.15	ug/L	#	76
100)	sec-Butylbenzene	6.891	105	158695	22.01	ug/L		94
101)	4-Isopropyltoluene	7.007	119	138273	22.59	ug/L		93
102)	1,3-Dichlorobenzene	7.037	146	72215	23.36	ug/L		95
103)	1,2,3-Trimethylbenzene	7.137	105	123804	23.46	ug/L		97
104)	1,4-Dichlorobenzene	7.107	146	73896	23.90	ug/L		94
105)	n-Butylbenzene	7.337	92	67743	24.20	ug/L		94
106)	Benzyl Chloride	7.291	126	16993	24.73	ug/L	#	63
107)	1,2-Dichlorobenzene	7.422	146	65439	23.60	ug/L		89
108)	1,2-Dibromo-3-Chloropr...	8.007	75	9445	24.90	ug/L	#	55
109)	Hexachlorobutadiene	8.507	225	19526	24.86	ug/L		87
110)	1,2,4-Trichlorobenzene	8.500	180	40634	24.08	ug/L		96
111)	Naphthalene	8.707	128	113098	24.54	ug/L		99
112)	1,2,3-Trichlorobenzene	8.838	180	36587	24.26	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:56 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2A1913-BS
Lab FileID: 2A56355.D
Injection Time: 06/27/24 08:26

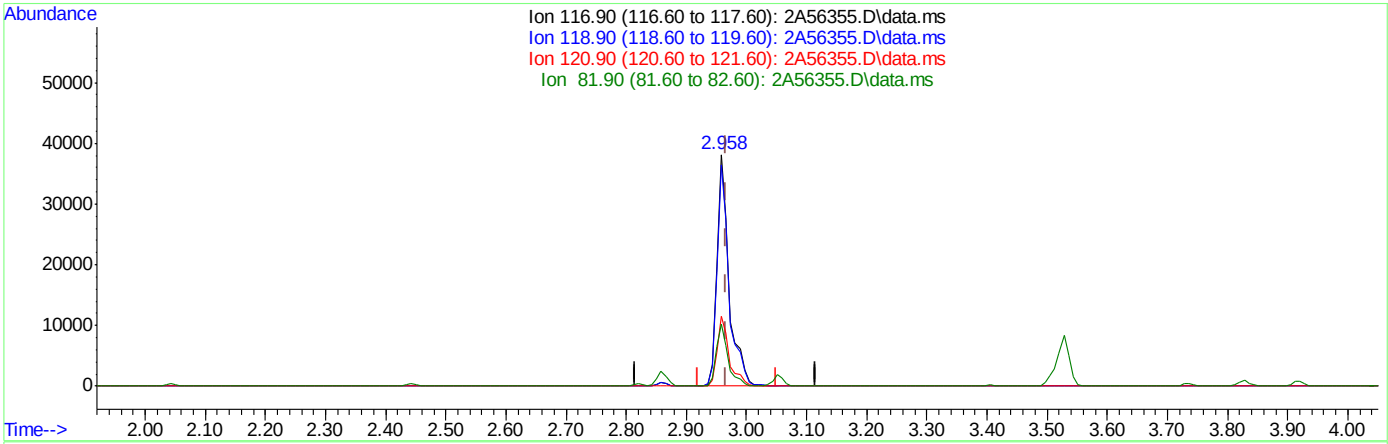
Method: SW846 8260D
Analyst approved: 06/27/24 08:48 Jenifer Willis
Supervisor approved: 06/28/24 08:56 Karen Watson

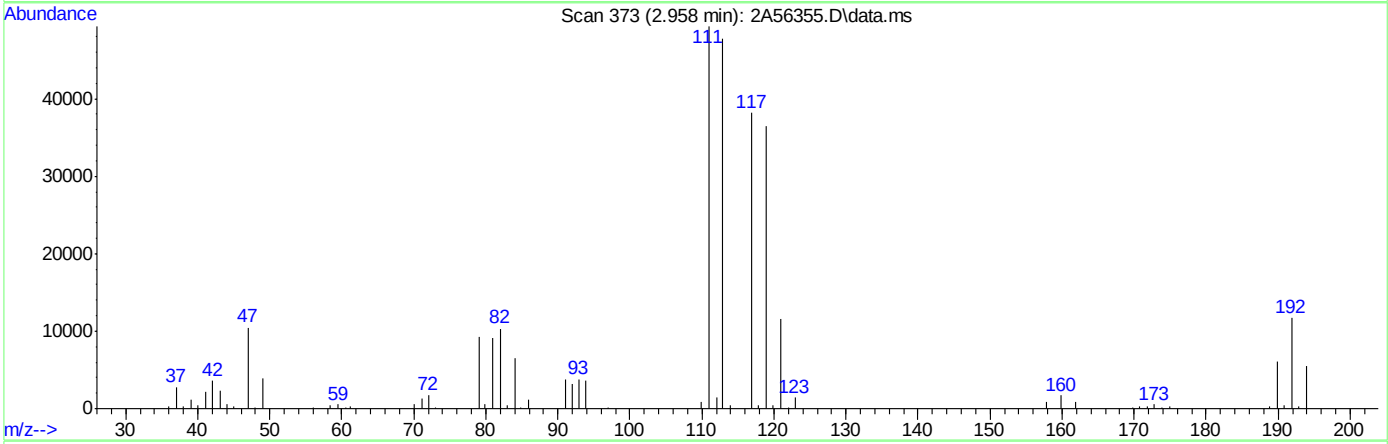
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 26.44ug/L

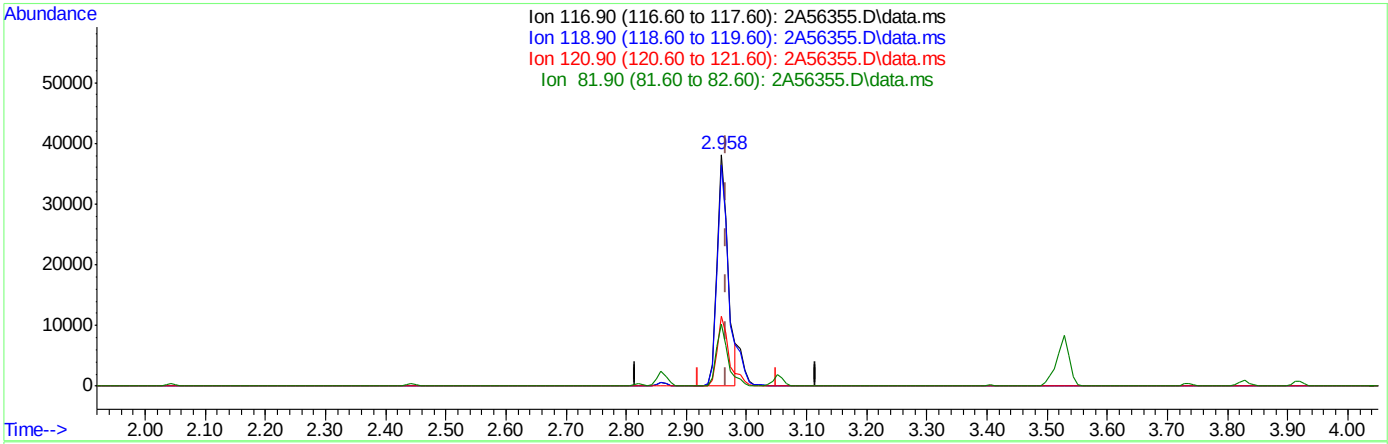
response 54337

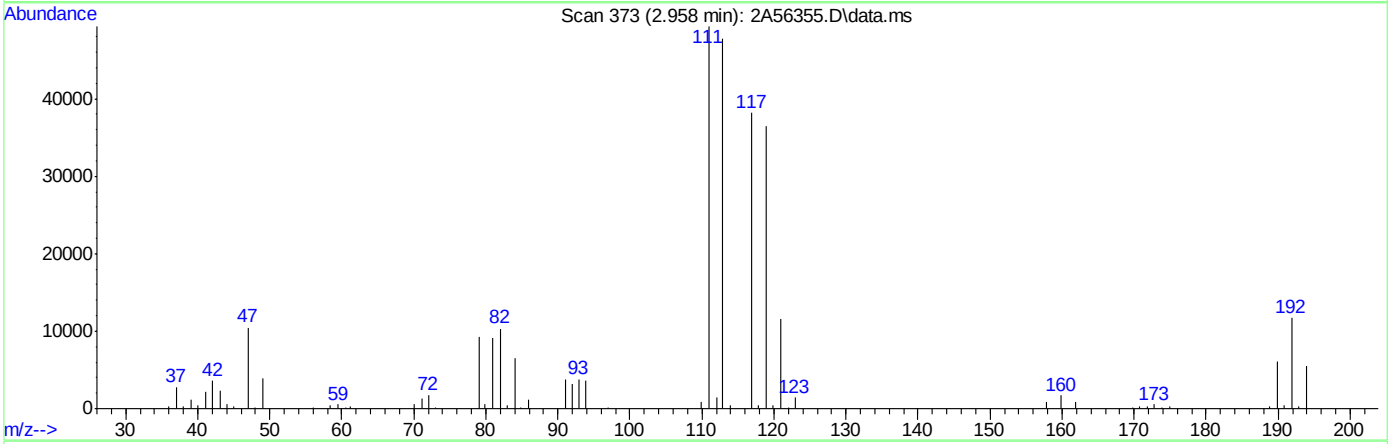
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	95.66
120.90	31.00	30.19
81.90	19.00	27.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 24.06ug/L m

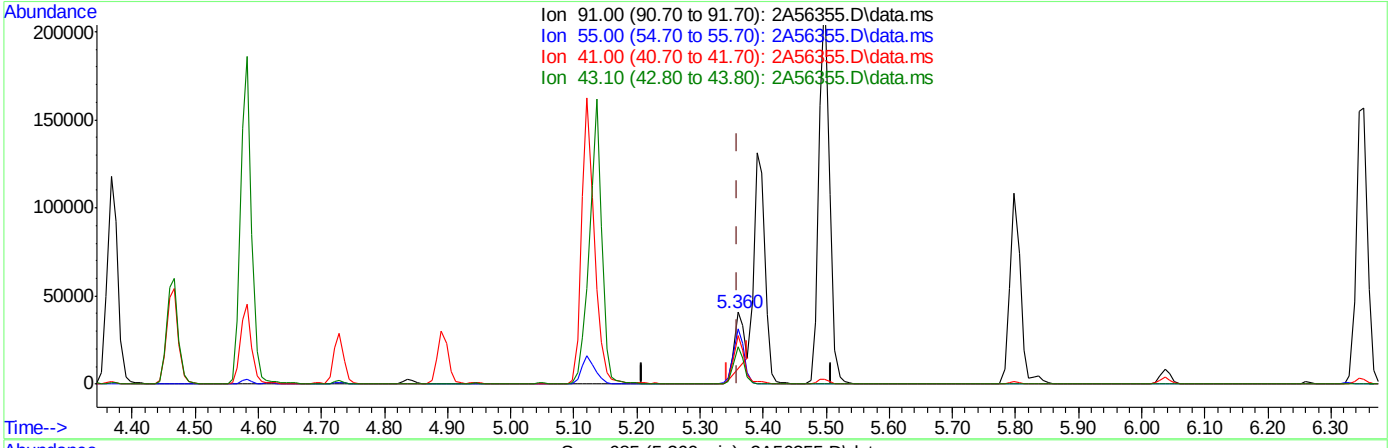
response 49446

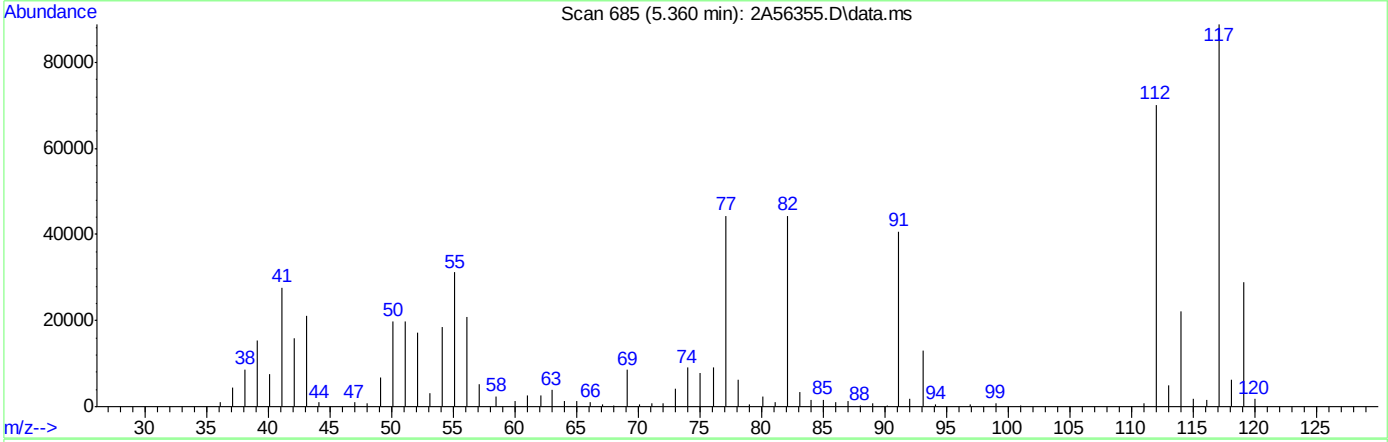
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	95.66
120.90	31.00	30.19
81.90	19.00	27.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 15.38ug/L

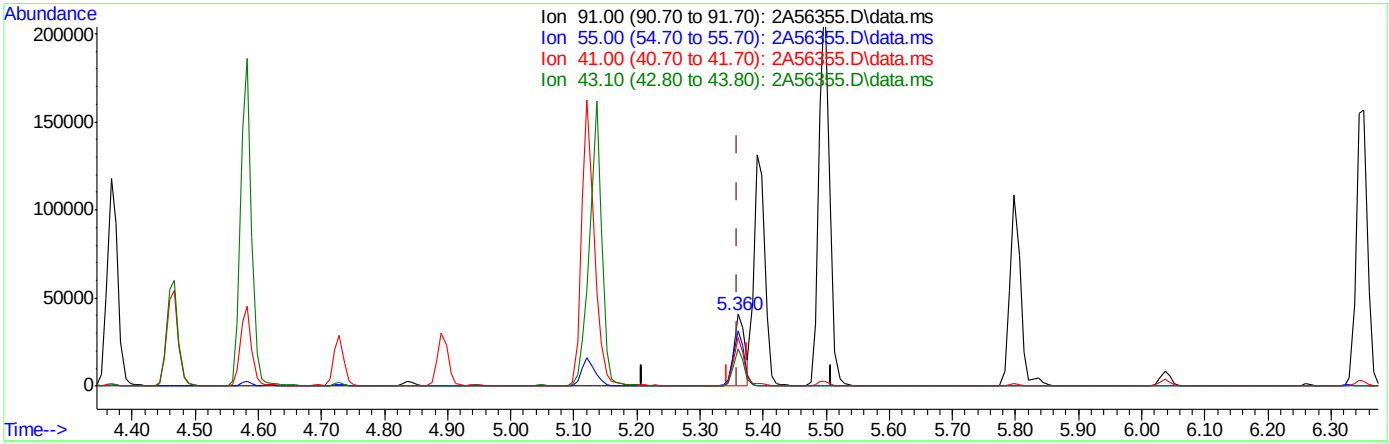
response 33615

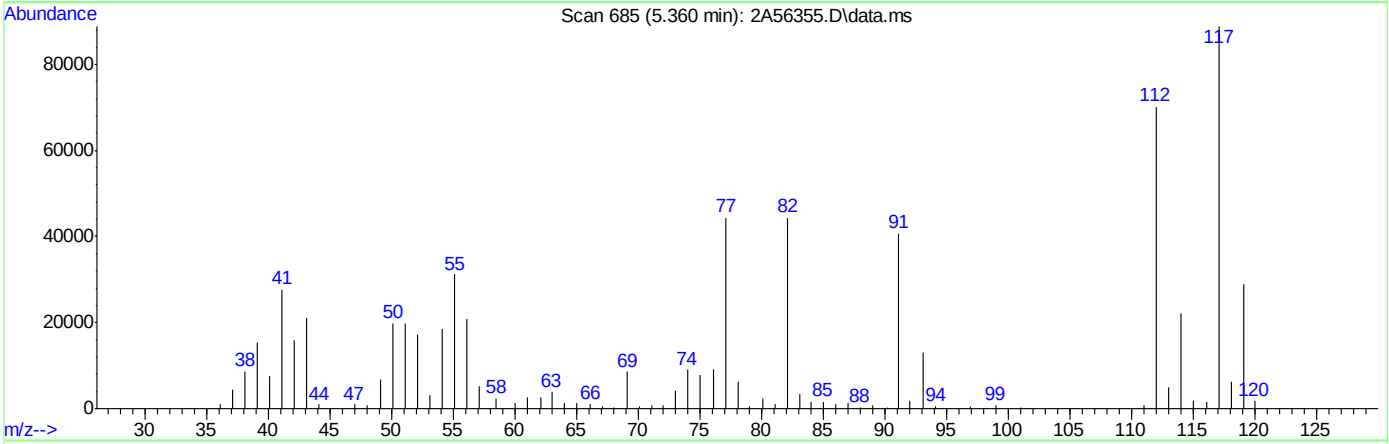
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	72.20
41.00	39.20	65.85#
43.10	33.20	50.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 22.46ug/L m

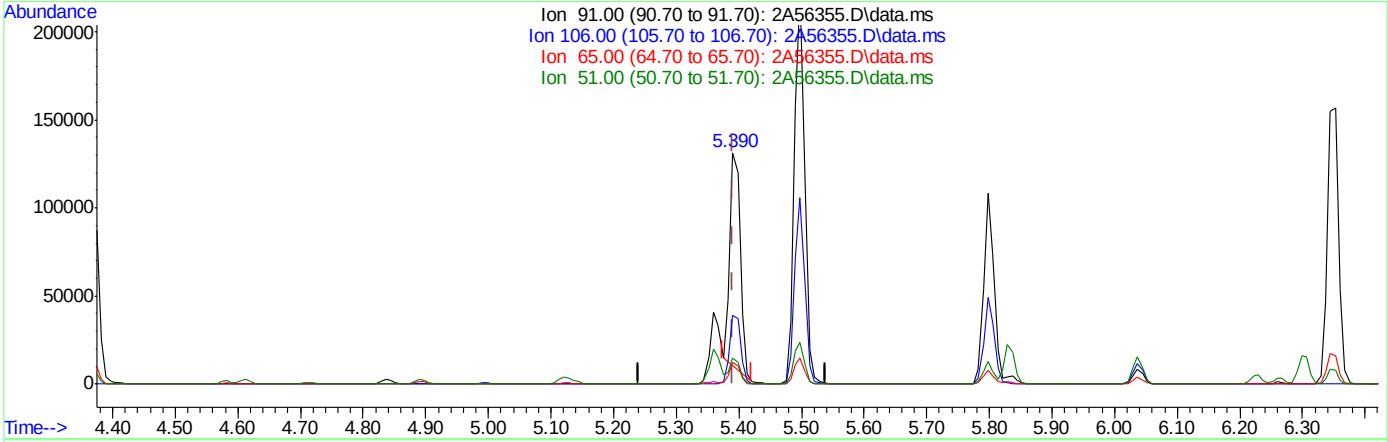
response 49091

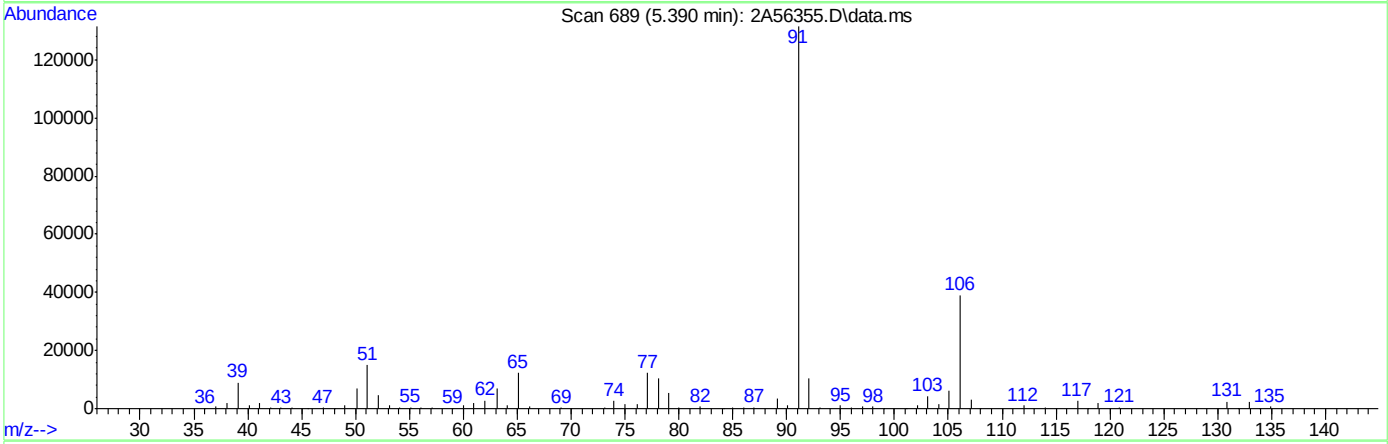
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	76.68
41.00	39.20	68.20#
43.10	33.20	51.88

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 20.48ug/L

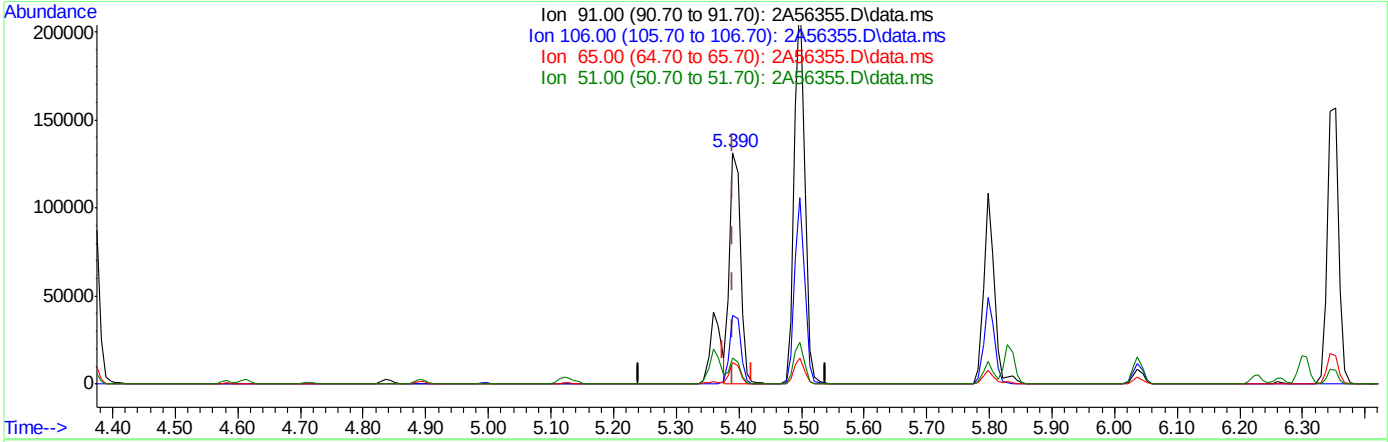
response 136842

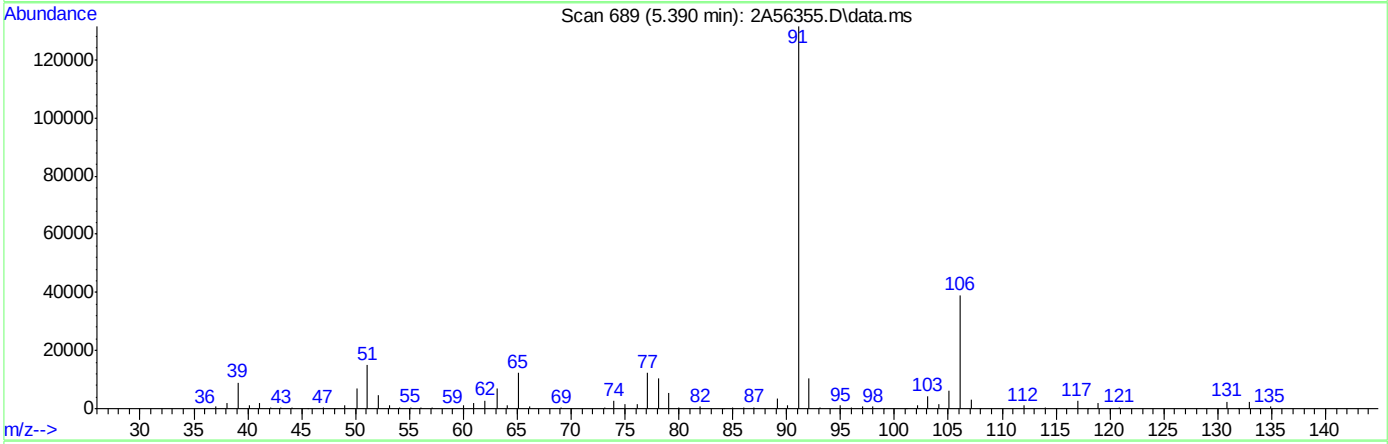
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.69
65.00	7.10	9.26
51.00	7.10	11.24

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56355.D
Acq On : 27 Jun 2024 8:26 am
Operator : jeniferw
Sample : BS
Misc : MS56917,V2A1913,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 08:44:28 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56355.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 24.04ug/L m

response 160659

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.70
65.00	7.10	9.26
51.00	7.10	11.32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	395794	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	257380	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	132416	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.601	113	100128	48.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.56%			
49) 1,2-Dichloroethane-d4	8.180	65	120567	50.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.14%			
62) Toluene-d8	10.033	98	364825	50.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.50%			
86) 4-Bromofluorobenzene	12.807	95	112936	51.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	28240	22.83	ug/L	95
3) Chloromethane	3.132	50	43536	22.63	ug/L	95
4) Vinyl Chloride	3.266	62	54522	21.54	ug/L	99
5) 1,3-Butadiene	3.297	39	85694	27.73	ug/L	94
6) Bromomethane	3.772	94	42251	24.36	ug/L	98
7) Chloroethane	3.949	64	55917	30.39	ug/L	97
8) Trichlorofluoromethane	4.156	101	55111	22.46	ug/L	97
9) Ethyl Ether	4.577	59	29129	24.54	ug/L	96
10) Ethanol	4.772	45	14839	597.84	ug/L	94
11) 1,2-Dichlorotrifluoroe...	4.827	67	47379	37.79	ug/L	99
12) 1,1-Dichloroethene	4.863	61	55655	26.35	ug/L	97
13) Freon 113	4.900	101	37057	24.93	ug/L	95
14) Carbon Disulfide	4.918	76	91223	21.94	ug/L	98
15) Iodomethane	5.058	142	35069	21.78	ug/L	94
16) Acrolein	5.290	56	47415	141.36	ug/L	98
17) Allyl chloride	5.461	41	62735	26.56	ug/L	98
18) Methylene Chloride	5.589	49	59854	26.03	ug/L	98
19) Acetone	5.644	43	93439	133.81	ug/L	98
20) Methyl acetate	5.778	43	212699	117.04	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	54429	25.87	ug/L	97
22) Hexane	5.869	56	33113	24.30	ug/L	93
23) Methyl Tert Butyl Ether	5.894	73	97629	24.48	ug/L	97
24) Acetonitrile	6.211	41	72942	277.09	ug/L	98
25) Di-isopropyl ether	6.320	45	129359	24.23	ug/L	99
26) Chloroprene	6.485	53	50663	27.66	ug/L	96
27) 1,1-Dichloroethane	6.515	63	69562	24.94	ug/L	99
28) Acrylonitrile	6.570	53	94655	122.34	ug/L	99
29) ETBE	6.741	59	101645	23.77	ug/L	99
30) Tert Butyl Alcohol	5.973	59	79036	248.37	ug/L	98
31) Vinyl acetate	6.765	43	526809	112.77	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	38839	25.01	ug/L	98
33) 2,2-Dichloropropane	7.247	77	51883	28.88	ug/L	98
34) Bromochloromethane	7.351	128	17379	26.11	ug/L	97
35) Cyclohexane	7.363	56	68012	26.18	ug/L	98
36) Chloroform	7.406	83	66591	25.75	ug/L	99
37) Ethyl acetate	7.497	43	300077	124.07	ug/L	98
38) Tetrahydrofuran	7.594	42	21687	23.14	ug/L	95
40) Carbon Tetrachloride	7.582	117	41447	23.68	ug/L	95
41) 1,1,1-Trichloroethane	7.649	97	50282	25.32	ug/L	95
42) 2-Butanone	7.723	43	144239	111.12	ug/L	99
43) 1,1-Dichloropropene	7.777	75	51169	26.97	ug/L	97
44) tert-Butyl formate	7.869	59	100055	280.07	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	92087	261.72	ug/L		98
46) Methacrylonitrile	8.070	41	393289	251.69	ug/L		99
47) Benzene	8.046	78	156570	24.70	ug/L		99
48) TAME	8.113	73	94877	23.30	ug/L		99
50) 1,2-Dichloroethane	8.247	62	48669	25.38	ug/L		98
51) tert Amyl alcohol	8.277	59	61755	258.67	ug/L		98
52) Trichloroethene	8.637	95	39427	25.33	ug/L		91
53) Methylcyclohexane	8.637	83	67205	23.85	ug/L		96
54) Dibromomethane	9.082	93	23785	23.76	ug/L		94
55) 1,2-Dichloropropane	9.167	63	40237	27.02	ug/L		96
56) Bromodichloromethane	9.216	83	43036	25.38	ug/L		97
57) Methyl methacrylate	9.326	41	40421	24.07	ug/L		99
58) 1,4-Dioxane	9.411	88	13657	613.65	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	103472	137.64	ug/L		99
60) cis-1,3-Dichloropropene	9.844	75	51353	23.16	ug/L		97
63) Toluene	10.088	91	150809	24.70	ug/L		96
64) Isobutyl alcohol	8.174	43	70483	654.29	ug/L		97
65) 2-Nitropropane	10.313	41	54310	167.19	ug/L		98
66) 4-Methyl-2-pentanone	10.423	43	313826	130.01	ug/L		99
67) trans-1,3-Dichloropropene	10.484	75	43584	22.21	ug/L		89
68) Tetrachloroethene	10.490	166	37458	25.43	ug/L		97
69) Ethyl methacrylate	10.588	69	45006	24.07	ug/L		96
70) 1,1,2-Trichloroethane	10.649	83	28696	26.12	ug/L		93
71) Dibromochloromethane	10.844	129	29053	24.13	ug/L		95
72) 1,3-Dichloropropane	10.935	76	55779	27.78	ug/L		99
73) 1,2-Dibromoethane	11.112	107	30592	24.04	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.185	57	241467	1777.21	ug/L		99
75) 2-hexanone	11.246	43	227695	125.11	ug/L		99
76) 1-Chlorohexane	11.539	91	50518	28.71	ug/L		93
77) Ethylbenzene	11.606	91	172227	24.16	ug/L		98
78) Chlorobenzene	11.612	112	96239	25.00	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	30015	27.31	ug/L		94
80) m,p-Xylene	11.746	91	251824	48.84	ug/L		99
81) o-Xylene	12.185	91	118236	24.40	ug/L		98
82) Styrene	12.240	104	87250	24.68	ug/L		99
83) Bromoform	12.301	173	18344	26.03	ug/L		94
84) Isopropylbenzene	12.490	105	144163	25.87	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	10018	29.41	ug/L		94
88) n-Propylbenzene	12.911	91	181611	25.83	ug/L		99
89) Bromobenzene	12.941	156	34416	26.53	ug/L		97
90) 1,1,2,2-Tetrachloroethane	12.978	83	48358	26.03	ug/L		95
91) 1,3,5-Trimethylbenzene	13.087	105	114493	26.32	ug/L		98
92) 2-Chlorotoluene	13.106	91	113720	24.80	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.167	53	10547	27.79	ug/L	#	76
94) 1,2,3-Trichloropropane	13.142	110	12817	27.09	ug/L		97
95) Cyclohexanone	13.221	55	15604	252.83	ug/L		93
96) 4-Chlorotoluene	13.270	91	98811	25.54	ug/L		98
98) tert-Butylbenzene	13.435	91	63372	25.69	ug/L		97
99) 1,2,4-Trimethylbenzene	13.502	105	110709	26.12	ug/L		99
100) Pentachloroethane	13.490	167	17295	24.39	ug/L		95
101) sec-Butylbenzene	13.618	105	140095	25.08	ug/L		99
102) 4-Isopropyltoluene	13.746	119	110867	26.55	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	60636	24.78	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	118229	24.53	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	71140	25.01	ug/L		97
106) n-Butylbenzene	14.166	92	64701	27.09	ug/L		98
107) Benzyl Chloride	14.197	126	11674	29.07	ug/L	#	79
108) 1,2-Dichlorobenzene	14.386	146	55929	25.16	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

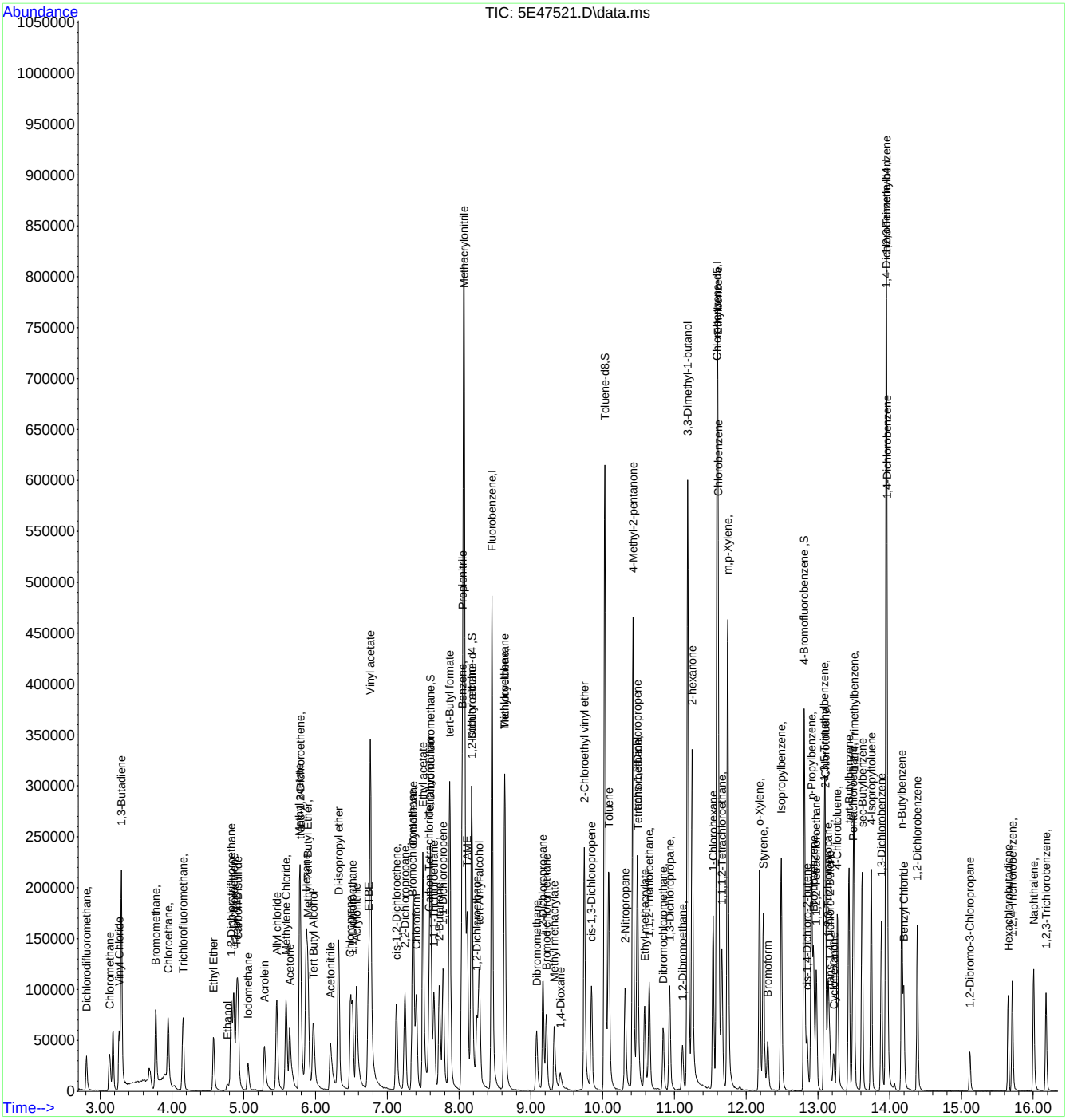
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6747	25.21	ug/L	92
110) Hexachlorobutadiene	15.654	225	12860	28.25	ug/L	96
111) 1,2,4-Trichlorobenzene	15.709	180	29430	26.24	ug/L	98
112) Naphthalene	16.007	128	86448	24.65	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	25969	25.69	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47521.D
Acq On : 28 Jun 2024 10:16 am
Operator : lianatr
Sample : BS
Misc : MS56925,V5E2118,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 10:42:25 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 08:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:27:20 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.976	96	394377	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.970	117	264083	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	142889	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.507	113	106099	52.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	104.70%		
50) 1,2-Dichloroethane-d4	3.818	65	147365	55.70	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	111.40%		
63) Toluene-d8	4.933	98	391195	51.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	102.40%		
86) 4-Bromofluorobenzene	6.860	174	99670	50.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	100.10%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.196	85	67801	48.83	ug/L	98
3) Chloromethane	1.343	50	68776	34.26	ug/L	95
4) 1,3-butadiene	1.416	39	36925	31.60	ug/L	89
5) Vinyl Chloride	1.404	62	59293	32.24	ug/L	95
6) Bromomethane	1.635	94	14418	33.65	ug/L	97
7) Chloroethane	1.715	64	15434	33.71	ug/L	97
8) Trichlorofluoromethane	1.812	101	67506	36.34	ug/L	99
9) Ethyl Ether	2.026	59	40658	24.23	ug/L	95
10) Ethanol	2.129	45	26455	621.03	ug/L	98
11) 1,2-Dichlorotrifluoroe...	2.147	67	51223	37.52	ug/L	97
12) 1,1-Dichloroethene	2.147	61	68496	26.98	ug/L	97
13) Freon 113	2.172	101	37376	25.24	ug/L	99
14) Carbon Disulfide	2.166	76	91163	21.11	ug/L	91
15) Iodomethane	2.233	142	20563	30.44	ug/L	97
16) Acrolein	2.349	56	85319	150.80	ug/L	99
17) Allyl chloride	2.434	41	62458	28.05	ug/L	89
18) Methylene Chloride	2.495	49	66718	25.55	ug/L	94
19) Acetone	2.525	43	151798	146.79	ug/L	95
20) Methyl acetate	2.599	43	308222	122.86	ug/L	98
21) trans-1,2-Dichloroethene	2.592	61	70523	26.70	ug/L	98
22) Hexane	2.647	56	38788	24.21	ug/L	97
23) Methyl Tert Butyl Ether	2.660	73	109205	25.62	ug/L	84
24) Tert Butyl Alcohol	2.708	59	134303	315.08	ug/L	86
25) Acetonitrile	2.794	41	111005	260.96	ug/L	99
26) Di-isopropyl ether	2.873	45	135650	23.35	ug/L	97
27) Chloroprene	2.934	53	70666	29.28	ug/L	94
28) 1,1-Dichloroethane	2.946	63	83868	25.51	ug/L	98
29) Acrylonitrile	2.970	52	146625	132.63	ug/L	99
30) ETBE	3.080	59	133522	25.80	ug/L	98
31) Vinyl acetate	3.086	43	571371	153.30	ug/L	97
32) cis-1,2-Dichloroethene	3.257	96	40160	23.82	ug/L	98
33) 2,2-Dichloropropane	3.318	77	56617	32.43	ug/L	96
34) Bromochloromethane	3.367	128	19264	24.91	ug/L	96
35) Cyclohexane	3.379	56	76431	22.98	ug/L	95
36) Chloroform	3.403	83	79771	27.27	ug/L	96
37) Ethyl acetate	3.464	43	391252	133.55	ug/L	99
38) Tetrahydrofuran	3.495	42	27576	22.37	ug/L	98
40) Carbon Tetrachloride	3.495	117	52410m	28.29	ug/L	
41) 1,1,1-Trichloroethane	3.531	97	65359	29.79	ug/L	97
42) 2-Butanone	3.574	43	223330	122.74	ug/L	99
43) 1,1-Dichloropropene	3.598	75	56903	27.02	ug/L	97
44) tert-Butyl formate	3.653	59	140101	157.56	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:27:20 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	159680	267.89	ug/L		94
46) Methacrylonitrile	3.757	41	436164	264.30	ug/L		99
47) Benzene	3.739	78	159677	25.10	ug/L		99
48) TAME	3.800	73	95842	24.93	ug/L		100
49) Isobutyl alcohol	3.842	43	104943m	589.16	ug/L		
51) 1,2-Dichloroethane	3.854	62	70136	28.11	ug/L		99
52) Tert Amyl Alcohol	3.903	59	105661	305.02	ug/L		92
53) Trichloroethene	4.080	95	43789	25.66	ug/L		97
54) Methylcyclohexane	4.080	83	58674	24.43	ug/L		93
55) Dibromomethane	4.330	93	27190	25.64	ug/L		98
56) 1,2-Dichloropropane	4.391	63	48106	25.99	ug/L		96
57) Bromodichloromethane	4.421	83	52687	27.29	ug/L		99
58) Methyl methacrylate	4.507	41	47102	25.09	ug/L		96
59) 1,4-Dioxane	4.543	88	19274	534.83	ug/L		89
60) 2-Chloroethyl vinyl ether	4.763	63	190170	133.70	ug/L		97
61) cis-1,3-Dichloropropene	4.812	75	61544	27.82	ug/L		95
64) Toluene	4.964	91	161846	25.34	ug/L		98
65) 2-Nitropropane	5.110	41	91205	164.02	ug/L		95
66) 4-Methyl-2-pentanone	5.202	43	385345	134.81	ug/L		97
67) trans-1,3-Dichloropropene	5.226	75	56620	27.71	ug/L		94
68) Tetrachloroethene	5.220	166	37626	26.48	ug/L		99
69) Ethyl methacrylate	5.324	69	51858	22.96	ug/L		95
70) 1,1,2-Trichloroethane	5.336	83	33541	24.77	ug/L		98
71) Dibromochloromethane	5.458	129	39655	29.23	ug/L		98
72) 1,3-Dichloropropane	5.519	76	70247	27.06	ug/L		97
73) 1,2-Dibromoethane	5.622	107	40669	26.41	ug/L		97
74) 3,3-dimethyl-1-butanol	5.738	57	728193	1495.76	ug/L		98
75) 2-hexanone	5.763	43	427339	144.06	ug/L		95
76) 1-Chlorohexane	5.964	91	49974m	25.07	ug/L		
77) Ethylbenzene	6.000	91	178338	25.80	ug/L		99
78) Chlorobenzene	5.988	112	103491	25.01	ug/L		96
79) 1,1,1,2-Tetrachloroethane	6.031	131	36081	29.62	ug/L		97
80) m,p-Xylene	6.104	91	286597	53.15	ug/L		98
81) o-Xylene	6.415	91	136289	25.05	ug/L		99
82) Styrene	6.451	104	106959	27.22	ug/L		97
83) Bromoform	6.476	173	22364	27.84	ug/L		97
84) Isopropylbenzene	6.647	105	159764	26.56	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.903	53	25444	27.93	ug/L		89
88) n-Propylbenzene	6.964	91	202881	26.41	ug/L		94
89) Bromobenzene	6.945	156	41097	27.37	ug/L		91
90) 1,1,2,2-Tetrachloroethane	7.012	83	66702	26.40	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	144024	27.99	ug/L		99
92) 2-Chlorotoluene	7.085	91	140176	26.35	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.146	53	21594	28.53	ug/L		91
94) 1,2,3-Trichloropropane	7.116	110	21034	29.47	ug/L		93
95) Cyclohexanone	7.146	55	37153	213.90	ug/L		99
96) 4-Chlorotoluene	7.214	91	132997	26.54	ug/L		95
97) tert-Butylbenzene	7.360	91	81627	28.80	ug/L		94
99) 1,2,4-Trimethylbenzene	7.415	105	143440	28.09	ug/L		98
100) Pentachloroethane	7.378	167	21735	29.85	ug/L	#	83
101) sec-Butylbenzene	7.500	105	159635	26.85	ug/L		99
102) 4-Isopropyltoluene	7.610	119	137076	28.26	ug/L		98
103) 1,3-Dichlorobenzene	7.665	146	77969	25.84	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	149176	26.87	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	81658	25.86	ug/L		95
106) n-Butylbenzene	7.927	92	83274	27.31	ug/L		88
107) Benzyl Chloride	7.915	126	17546	31.14	ug/L	#	83
108) 1,2-Dichlorobenzene	8.037	146	74573	25.67	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:27:20 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

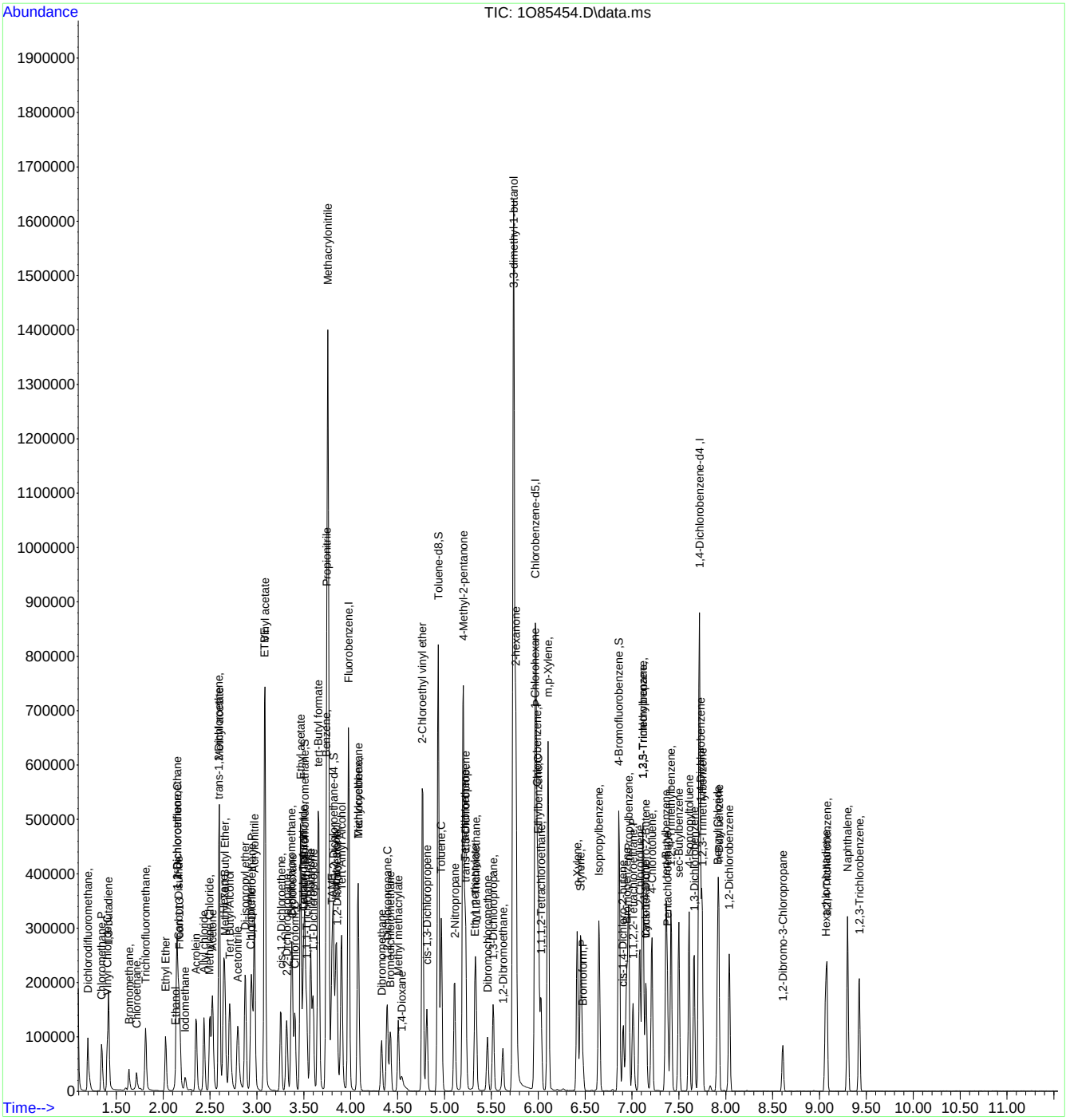
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	16737	30.85	ug/L	91
110) Hexachlorobutadiene	9.067	225	19108	30.79	ug/L	94
111) 1,2,4-Trichlorobenzene	9.079	180	45379	27.28	ug/L	97
112) Naphthalene	9.298	128	168285	25.74	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	45910	28.22	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:27:20 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

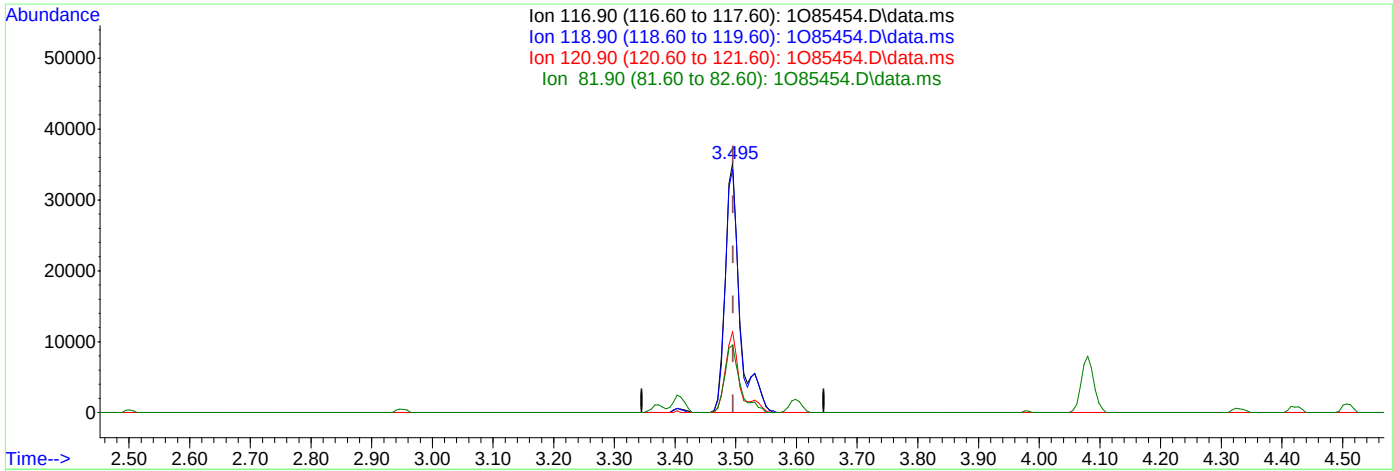
Sample Number: V1O3089-BS
Lab FileID: 1O85454.D
Injection Time: 07/01/24 09:10
Method: SW846 8260D
Analyst approved: 07/01/24 09:31 Jenifer Willis
Supervisor approved: 07/02/24 08:17 Karen Watson

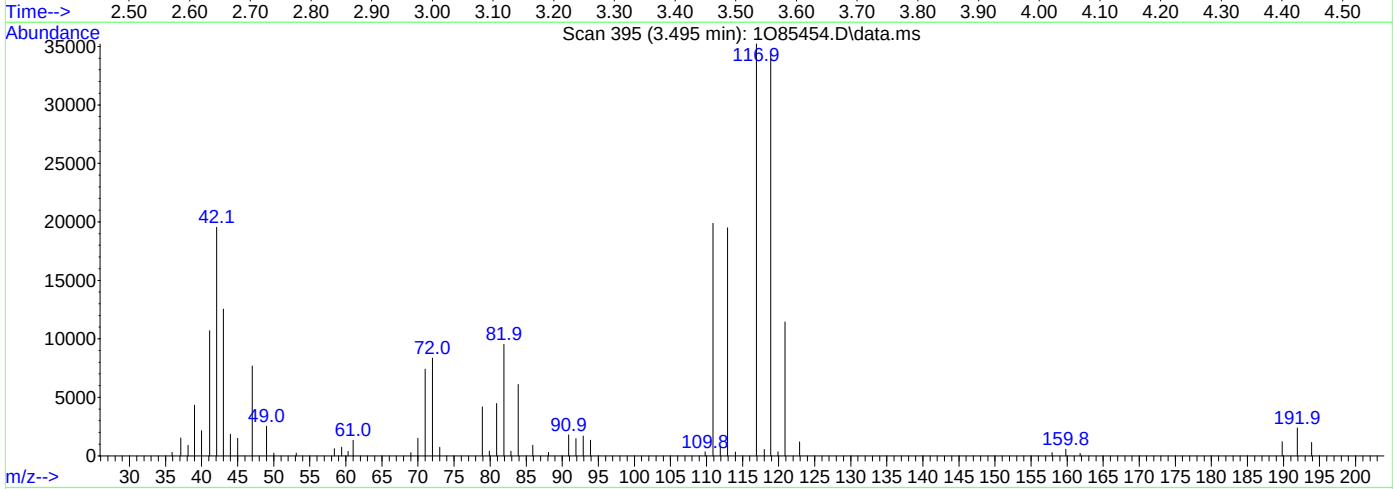
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 31.89ug/L

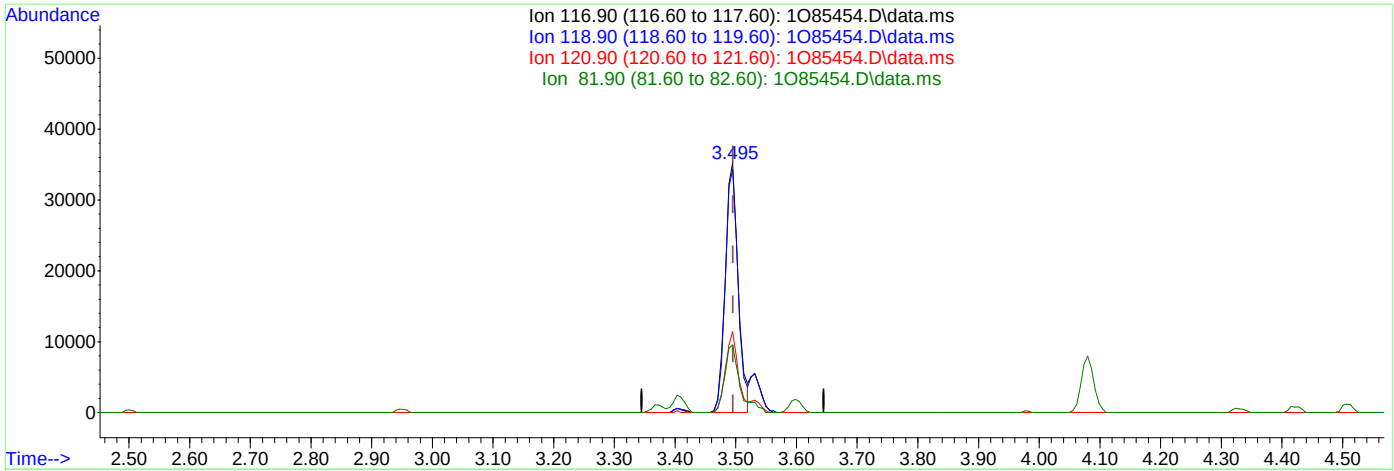
response 59084

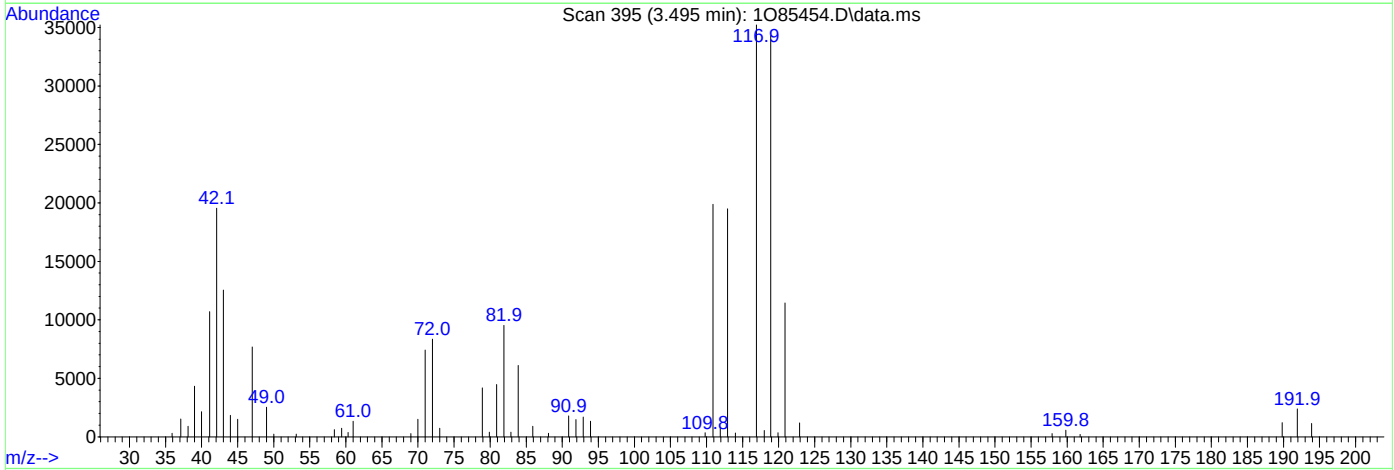
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	97.39
120.90	32.60	32.47
81.90	27.90	27.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 28.29ug/L m

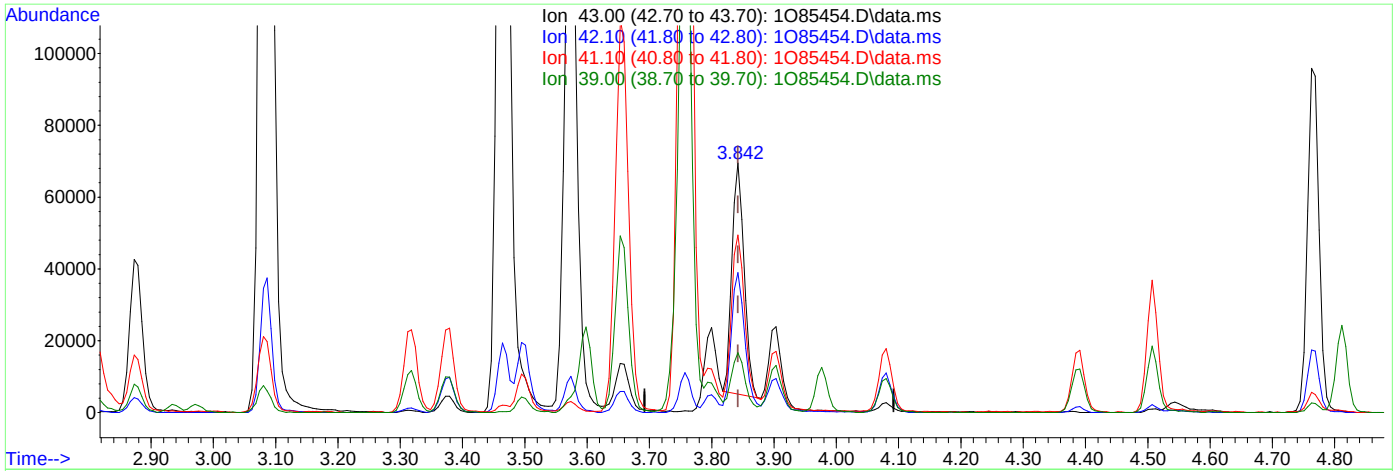
response 52410

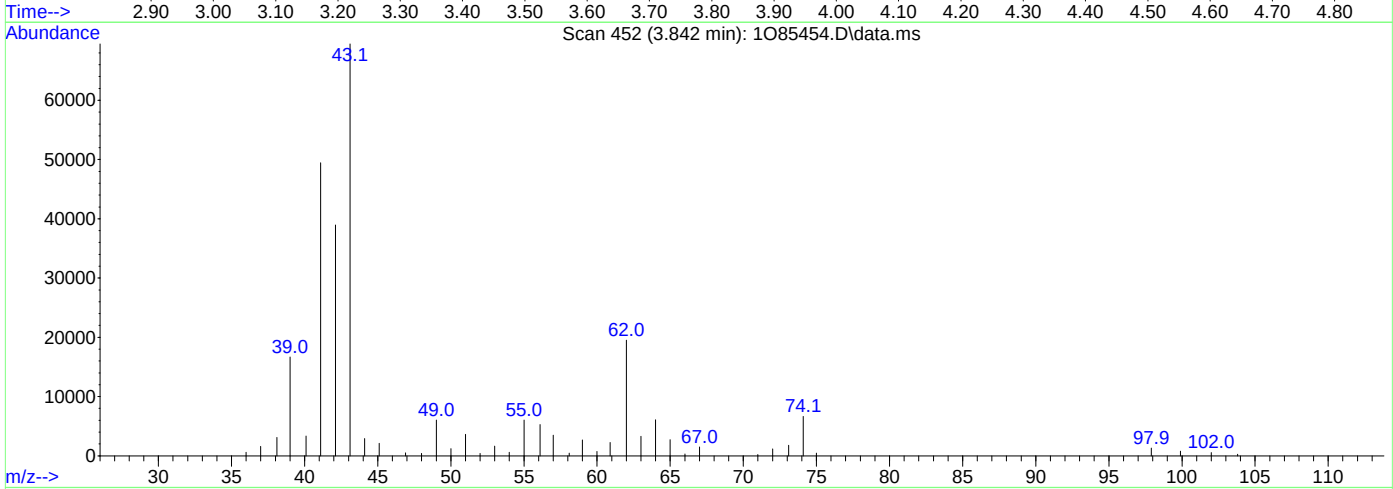
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	97.39
120.90	32.60	32.47
81.90	27.90	27.04

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 487.48ug/L

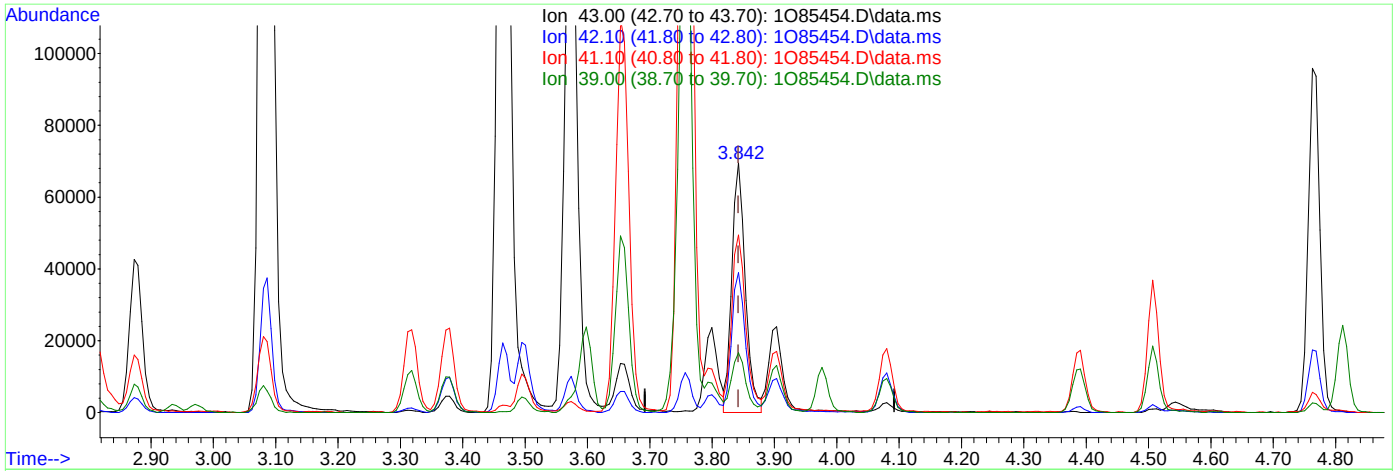
response 86832

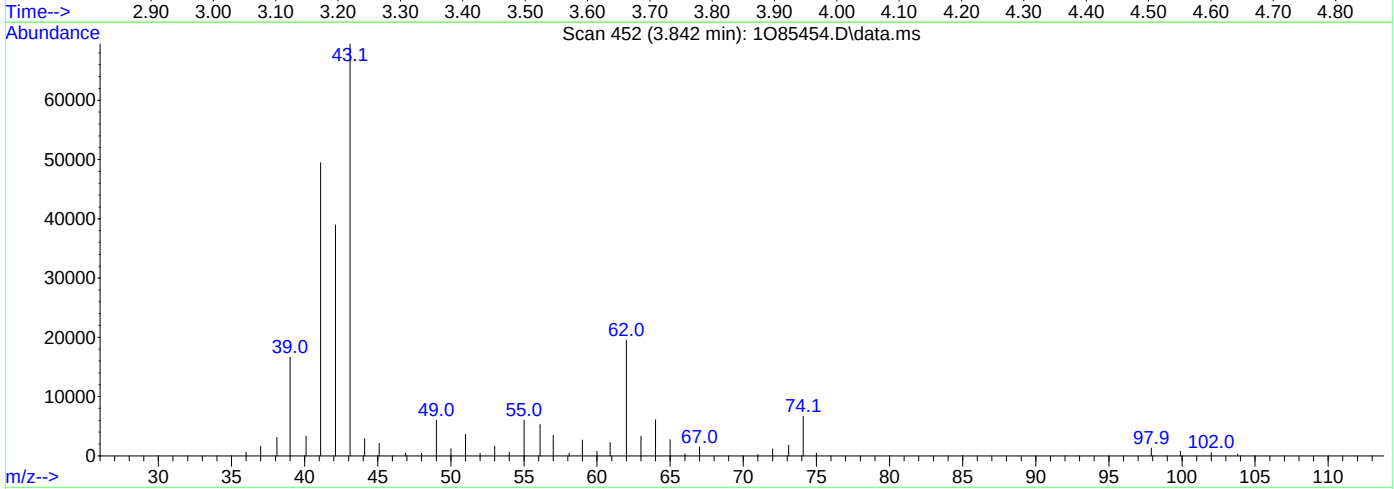
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	56.58
41.10	75.50	69.92
39.00	27.60	22.45

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 589.16ug/L m

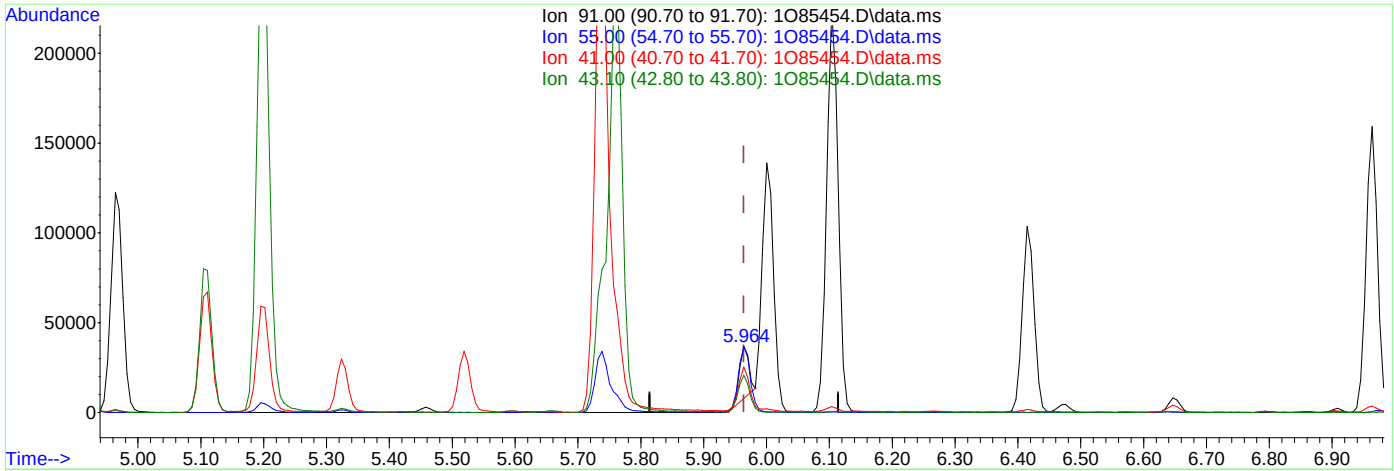
response 104943

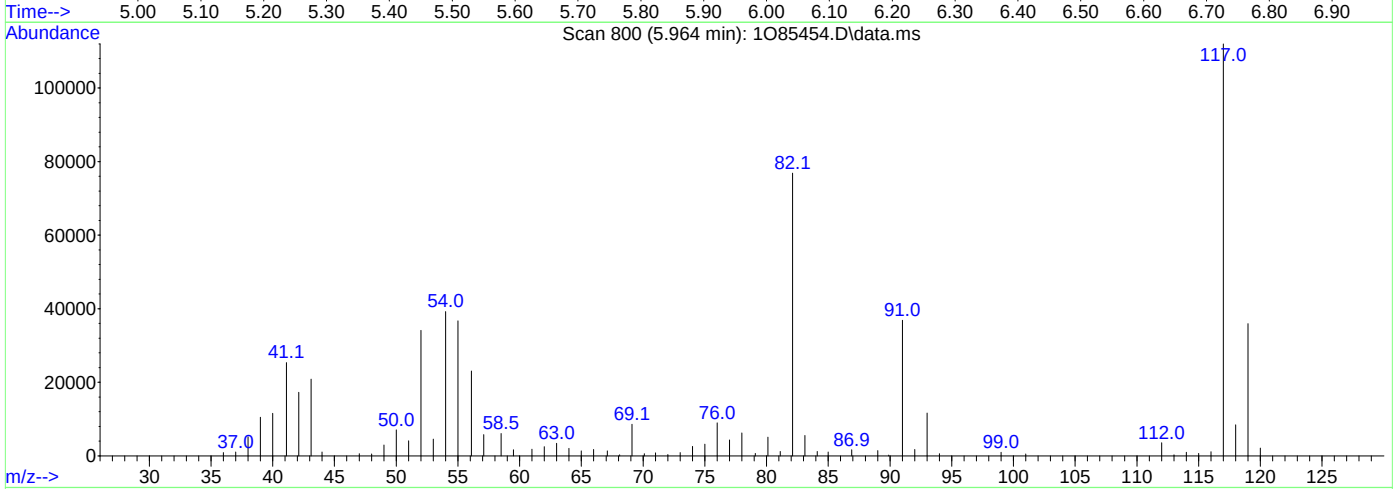
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	56.02
41.10	75.50	71.15
39.00	27.60	23.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.000) 16.24ug/L

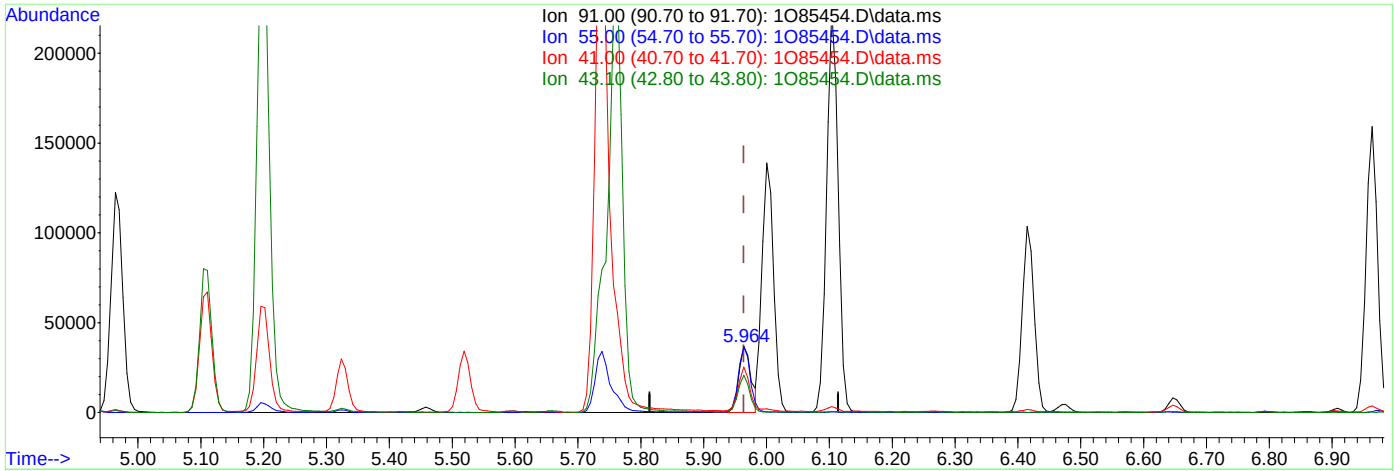
response 32373

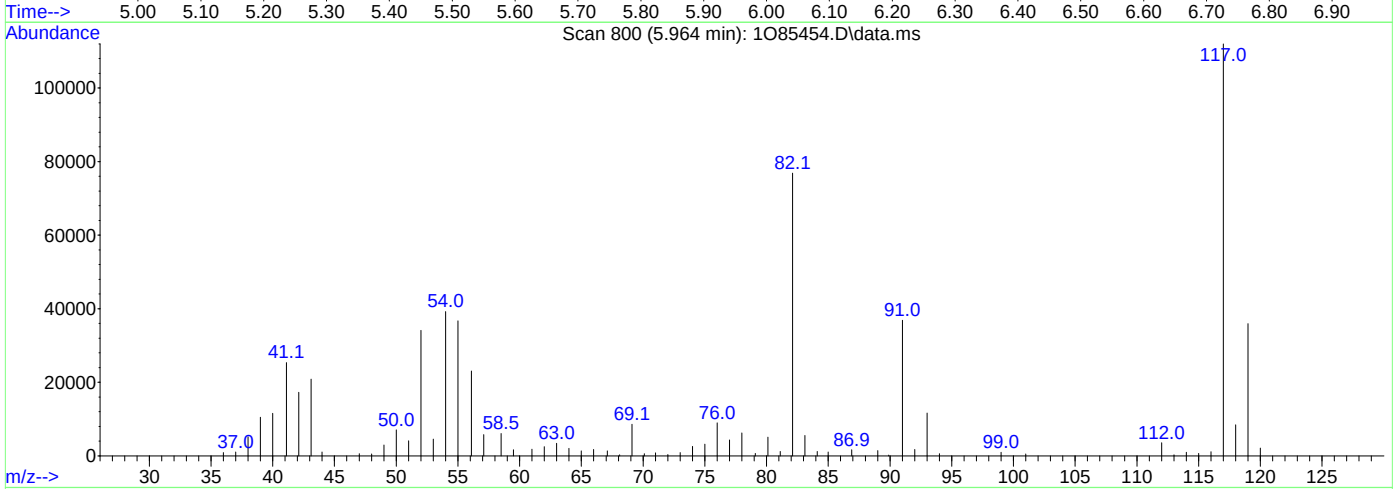
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	98.87
41.00	70.80	65.80
43.10	55.10	54.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85454.D
Acq On : 1 Jul 2024 9:10 am
Operator : jeniferw
Sample : BS Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 09:26:52 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85454.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.000) 25.07ug/L m

response 49974

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	99.70
41.00	70.80	68.88
43.10	55.10	56.58

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/28/24 08:56

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:54:32 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	257444	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	186360	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	111885	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.958	113	71889	48.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.74%			
49) 1,2-Dichloroethane-d4	3.235	65	90777	50.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.90%			
63) Toluene-d8	4.336	98	253579	50.19	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.38%			
86) 4-Bromofluorobenzene	6.229	174	86598	48.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.026	85	24058	18.9079	ug/L	99
3) Chloromethane	1.134	50	28467	19.4339	ug/L	99
4) 1,3-butadiene	1.188	39	42850	24.4322	ug/L #	76
5) Vinyl Chloride	1.180	62	28373	19.1602	ug/L	97
6) Bromomethane	1.350	94	10892	16.9215	ug/L	99
7) Chloroethane	1.419	64	17664	21.9380	ug/L	96
8) Trichlorofluoromethane	1.504	101	43565	22.1390	ug/L	100
9) Ethyl Ether	1.658	59	23775	22.6875	ug/L	88
10) Ethanol	1.711	45	8307	516.8596	ug/L	87
11) 1,2-Dichlorotrifluoroe...	1.750	67	34364	33.9674	ug/L	92
12) 1,1-Dichloroethene	1.765	61	44519	22.2461	ug/L	89
13) Freon 113	1.788	101	27717	23.3939	ug/L #	85
14) Carbon Disulfide	1.788	76	69492	19.3161	ug/L	83
15) Iodomethane	1.835	142	20115	21.7509	ug/L	88
16) Acrolein	1.912	56	35345	143.6668	ug/L	98
17) Allyl chloride	1.996	41	44797	22.8981	ug/L	78
18) Methylene Chloride	2.050	49	45506	24.8622	ug/L #	73
19) Acetone	2.050	43	63494	122.7303	ug/L	82
20) Methyl acetate	2.127	43	162914	127.2364	ug/L	87
21) trans-1,2-Dichloroethene	2.142	61	44516	22.3967	ug/L	82
22) Hexane	2.196	56	26790	22.6190	ug/L #	77
23) Methyl Tert Butyl Ether	2.196	73	89003	24.6725	ug/L	86
24) Acetonitrile	2.273	41	45825	264.0039	ug/L	93
25) Tert Butyl Alcohol	2.212	59	51036	247.4266	ug/L	60
26) Di-isopropyl ether	2.396	45	94620	23.1977	ug/L	86
27) Chloroprene	2.443	53	129269	24.1868	ug/L	92
28) 1,1-Dichloroethane	2.443	63	56677	22.3237	ug/L	94
29) Acrylonitrile	2.443	52	77943	120.8841	ug/L	95
30) ETBE	2.581	59	94639	24.4908	ug/L	91
31) Vinyl acetate	2.566	43	422590	136.9666	ug/L	96
32) cis-1,2-Dichloroethene	2.720	96	32485	22.9042	ug/L #	75
33) 2,2-Dichloropropane	2.781	77	43209	21.0459	ug/L	95
34) Bromochloromethane	2.820	128	16840	23.5813	ug/L #	57
35) Cyclohexane	2.858	56	52831	22.4218	ug/L #	80
36) Chloroform	2.858	83	57813	24.6120	ug/L	94
37) Ethyl acetate	2.912	43	221050	130.7262	ug/L	89
38) Tetrahydrofuran	2.951	42	15164	25.1637	ug/L	84
40) Carbon Tetrachloride	2.966	117	44031m	22.4427	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	49361	21.9212	ug/L	91
42) 2-Butanone	3.004	43	102188	121.3491	ug/L	82
43) 1,1-Dichloropropene	3.051	75	41550	23.4211	ug/L #	75

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:54:32 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.097	59	150686	142.8412	ug/L		97
45) Propionitrile	3.143	54	61870	256.7048	ug/L		99
46) Methacrylonitrile	3.166	41	250398	264.0556	ug/L		93
47) Benzene	3.181	78	121386	23.3178	ug/L		84
48) TAME	3.251	73	80831	23.9352	ug/L		86
50) 1,2-Dichloroethane	3.274	62	47220	24.8207	ug/L		96
51) Isobutyl Alcohol	3.258	43	67639	520.9716	ug/L		96
52) Tert Amyl Alcohol	3.320	59	44050	267.4557	ug/L		94
53) Trichloroethene	3.512	95	33516	22.5775	ug/L		92
54) Methylcyclohexane	3.528	83	54053	23.5184	ug/L	#	82
55) Dibromomethane	3.736	93	21812	24.2389	ug/L		85
56) 1,2-Dichloropropane	3.789	63	32770	24.3673	ug/L		88
57) Bromodichloromethane	3.828	83	41700	22.1606	ug/L	#	94
58) Methyl methacrylate	3.920	41	33533	26.4790	ug/L	#	67
59) 1,4-Dioxane	3.936	88	7017	540.5704	ug/L		80
60) 2-Chloroethyl vinyl ether	4.167	63	115166	125.5054	ug/L		83
61) cis-1,3-Dichloropropene	4.205	75	47545	23.2924	ug/L		76
64) Toluene	4.367	91	130062	23.2610	ug/L		100
65) 2-Nitropropane	4.467	41	66085	134.3263	ug/L		89
66) 4-Methyl-2-pentanone	4.582	43	219952	131.8260	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	41951	22.6963	ug/L		79
68) Tetrachloroethene	4.628	166	35672	24.6775	ug/L		93
69) Ethyl methacrylate	4.728	69	39775	24.0184	ug/L	#	68
70) 1,1,2-Trichloroethane	4.713	83	24900	23.7059	ug/L		86
71) Dibromochloromethane	4.836	129	31283	23.9898	ug/L		98
72) 1,3-Dichloropropane	4.890	76	49626	27.1647	ug/L		71
73) 1,2-Dibromoethane	4.990	107	31764	25.4654	ug/L		94
74) 3,3-Dimethyl-1-Butanol	5.121	57	263001	1279.0989	ug/L		94
75) 2-hexanone	5.136	43	213807	132.1112	ug/L		74
76) 1-Chlorohexane	5.360	91	43894m	20.7221	ug/L		
77) Ethylbenzene	5.390	91	148857m	22.9786	ug/L		
78) Chlorobenzene	5.367	112	84652	23.4005	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.406	131	30129	24.4205	ug/L		96
80) m,p-Xylene	5.498	91	238492	45.0228	ug/L		92
81) o-Xylene	5.798	91	122206	22.0300	ug/L		91
82) Styrene	5.837	104	92325	23.0794	ug/L		93
83) Bromoform	5.837	173	19990	21.6174	ug/L		96
84) Isopropylbenzene	6.037	105	145029	22.1982	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	8880	18.9256	ug/L	#	67
88) n-Propylbenzene	6.345	91	179837	21.7957	ug/L		88
89) Bromobenzene	6.306	156	38285	24.4673	ug/L	#	78
90) 1,1,2,2-Tetrachloroethane	6.368	83	43326	23.5179	ug/L		97
91) 1,3,5-Trimethylbenzene	6.506	105	126173	22.5166	ug/L		98
92) 2-Chlorotoluene	6.452	91	101697	22.3309	ug/L		94
93) trans-1,4-Dichloro-2-B...	6.499	53	12853	21.6621	ug/L	#	58
94) 1,2,3-Trichloropropane	6.468	110	13085	27.1145	ug/L	#	78
95) Cyclohexanone	6.483	55	7522	136.2298	ug/L	#	81
96) 4-Chlorotoluene	6.576	91	108842	22.3209	ug/L		89
97) tert-Butylbenzene	6.745	91	73453	21.7917	ug/L		84
98) 1,2,4-Trimethylbenzene	6.799	105	121466	23.1720	ug/L		98
99) Pentachloroethane	6.745	167	19626	23.2427	ug/L	#	70
100) sec-Butylbenzene	6.891	105	153283	21.5980	ug/L		95
101) 4-Isopropyltoluene	7.007	119	132965	22.0629	ug/L		94
102) 1,3-Dichlorobenzene	7.037	146	70256	23.0845	ug/L		96
103) 1,2,3-Trimethylbenzene	7.137	105	121074	23.3048	ug/L		96
104) 1,4-Dichlorobenzene	7.107	146	71067	23.3445	ug/L		94
105) n-Butylbenzene	7.338	92	66206	24.0193	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:54:32 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

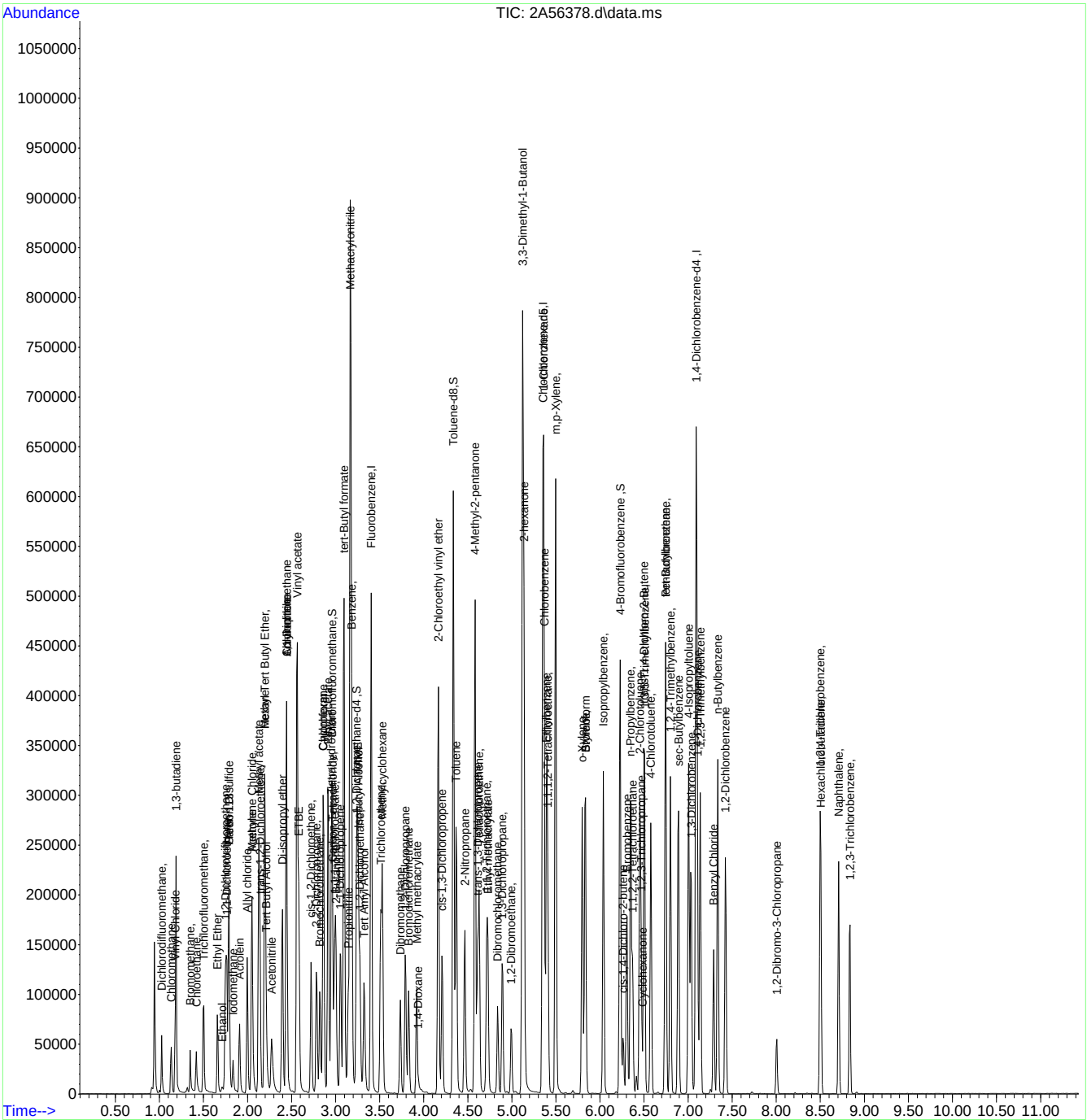
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) Benzyl Chloride	7.291	126	14055	20.7782 ug/L #	72
107) 1,2-Dichlorobenzene	7.422	146	65940	24.1539 ug/L	91
108) 1,2-Dibromo-3-Chloropr...	8.007	75	9039	24.2011 ug/L #	55
109) Hexachlorobutadiene	8.507	225	17615	22.7777 ug/L	87
110) 1,2,4-Trichlorobenzene	8.500	180	39786	23.9527 ug/L	97
111) Naphthalene	8.707	128	106813	23.5393 ug/L	100
112) 1,2,3-Trichlorobenzene	8.838	180	35383	23.8286 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:54:32 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

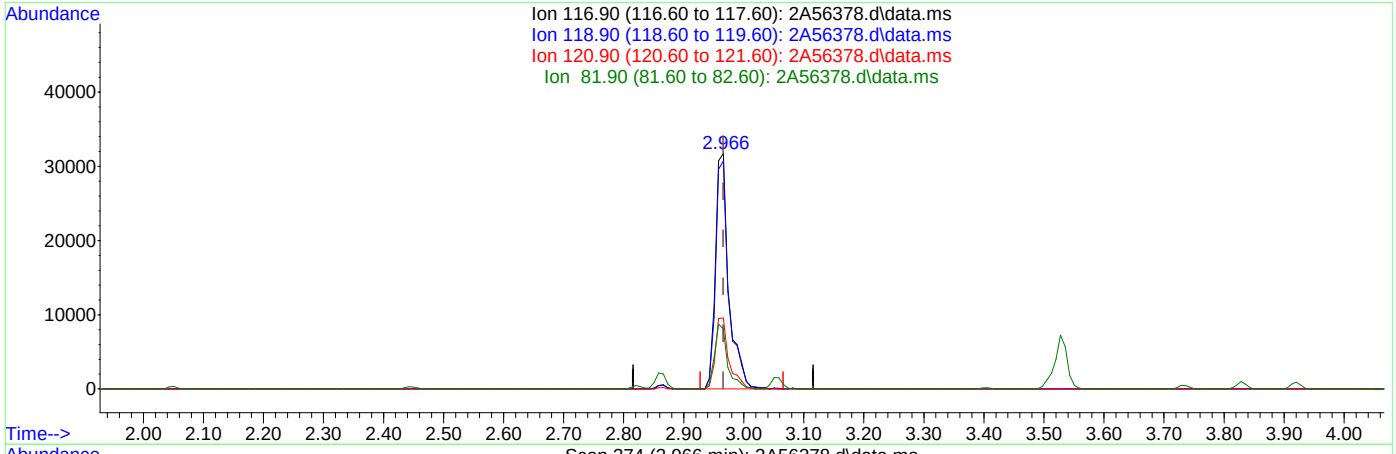
Sample Number: FC16724-2MS
Lab FileID: 2A56378.D
Injection Time: 06/27/24 17:40
Method: SW846 8260D
Analyst approved: 06/28/24 02:59 Jhenelle Bondal
Supervisor approved: 06/28/24 08:56 Karen Watson

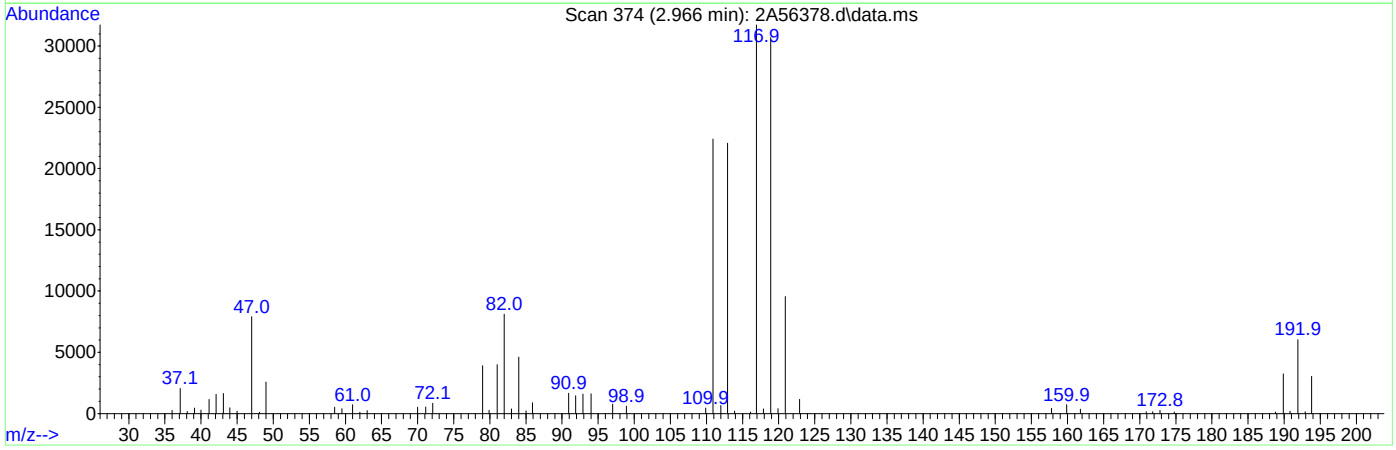
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 25.14ug/L

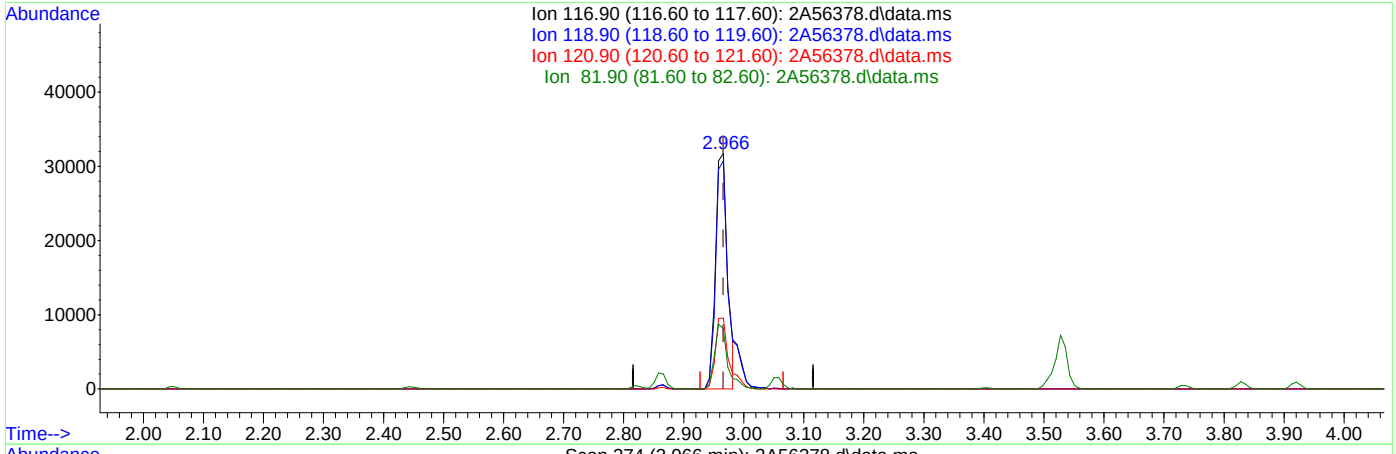
response 49315

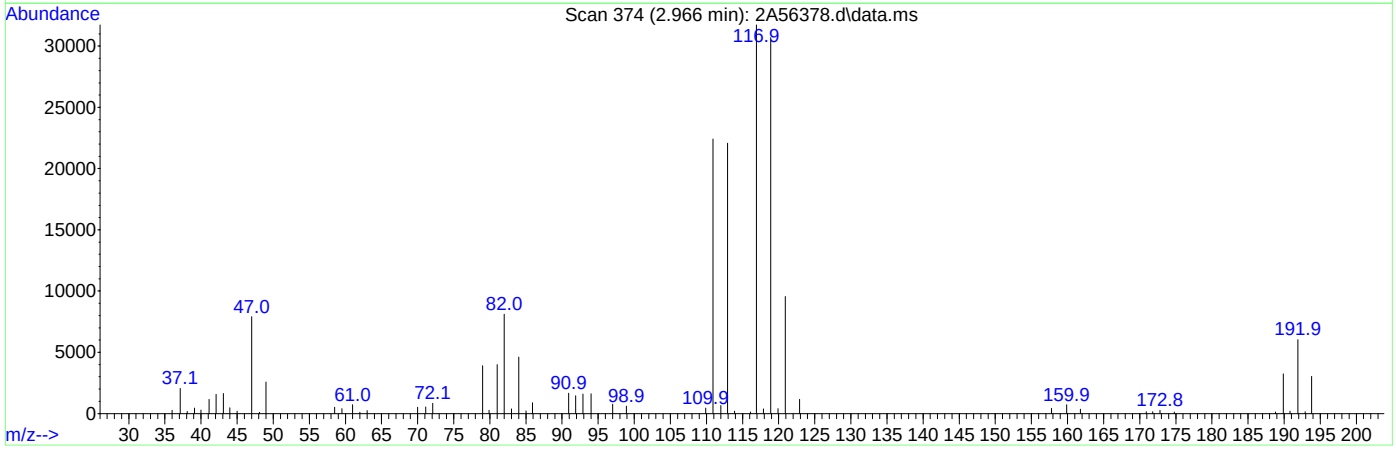
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.72
120.90	31.00	30.14
81.90	19.00	25.56

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 22.44ug/L m

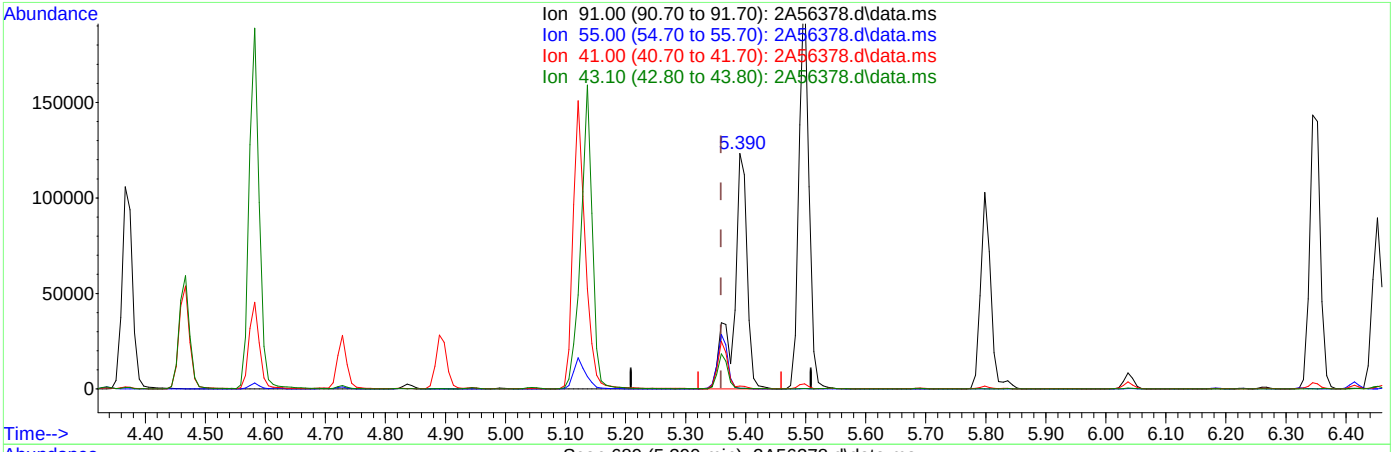
response 44031

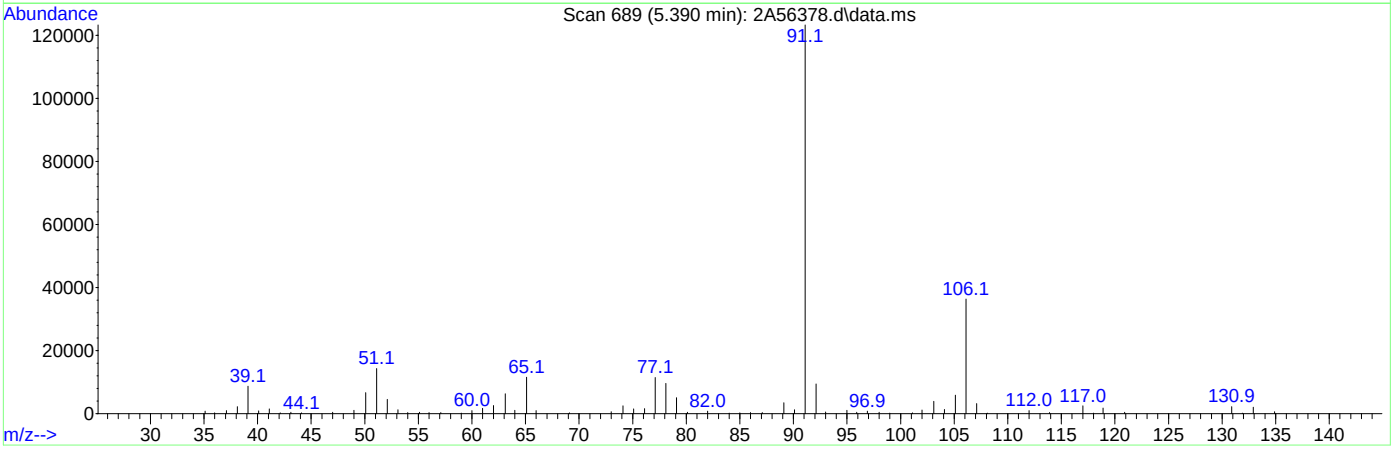
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.72
120.90	31.00	30.14
81.90	19.00	25.56

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 90.99ug/L

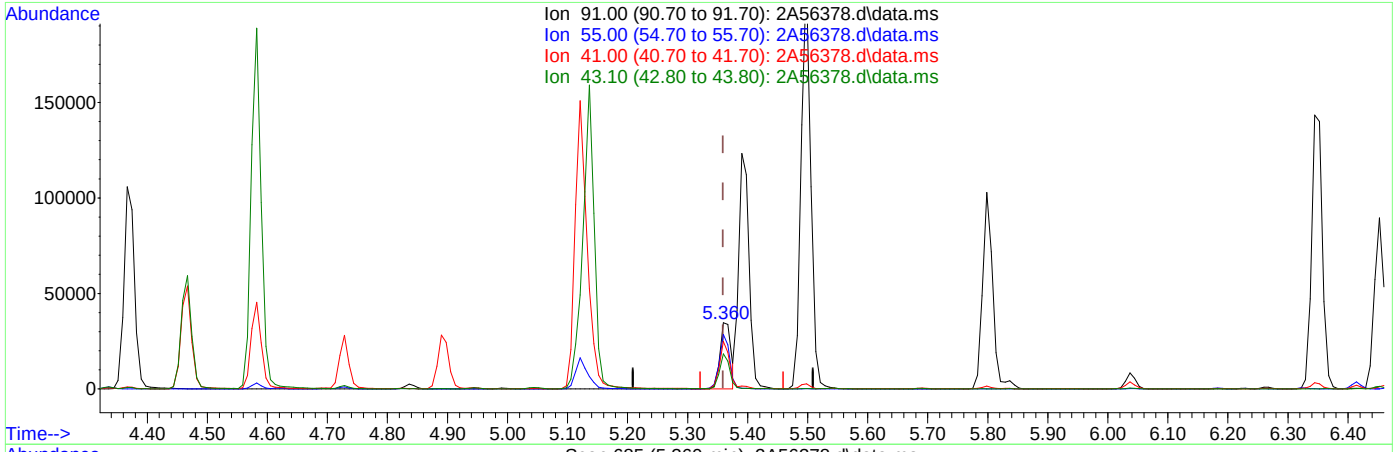
response 192744

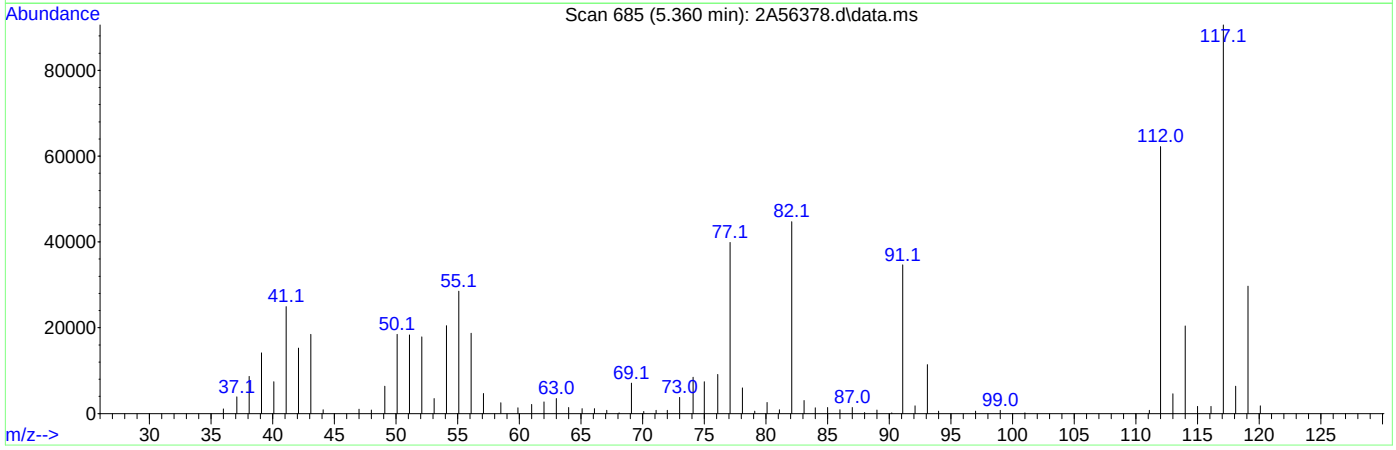
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.34#
41.00	39.20	1.04#
43.10	33.20	0.30#

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 20.72ug/L m

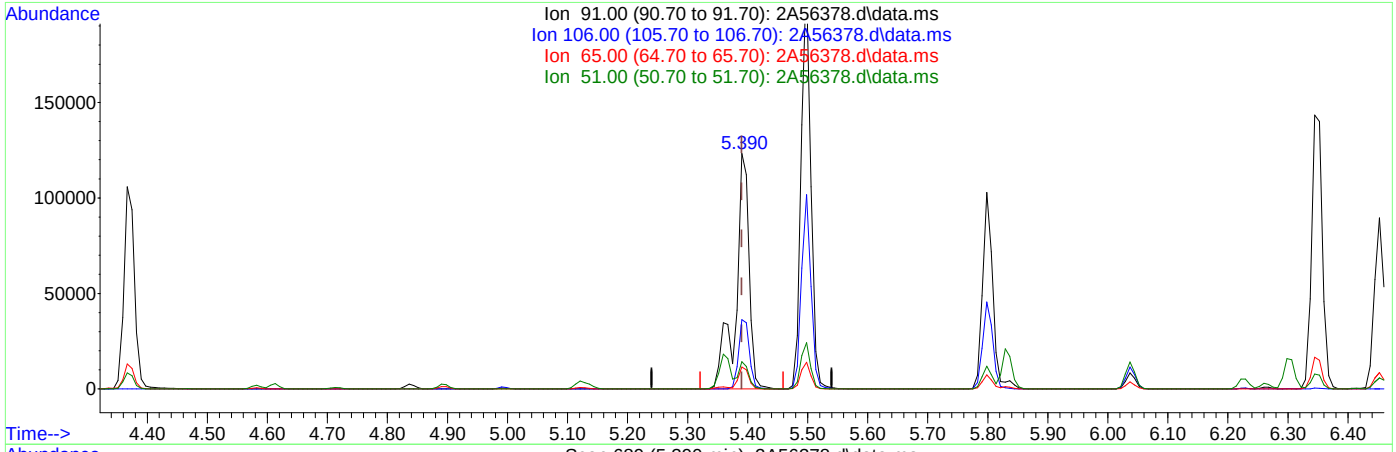
response 43894

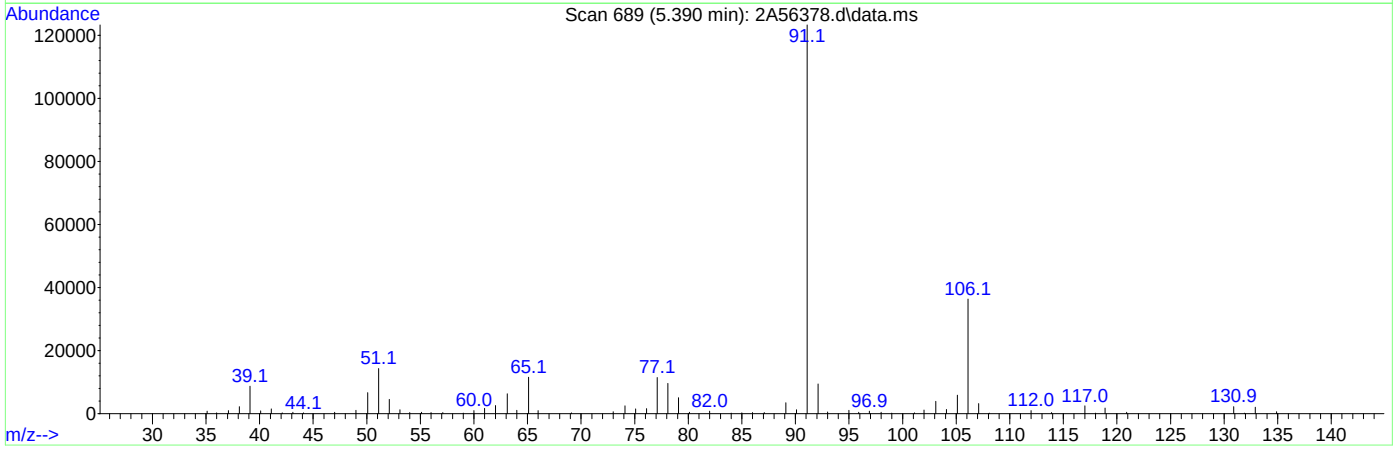
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	82.16#
41.00	39.20	71.85#
43.10	33.20	53.25#

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 29.75ug/L

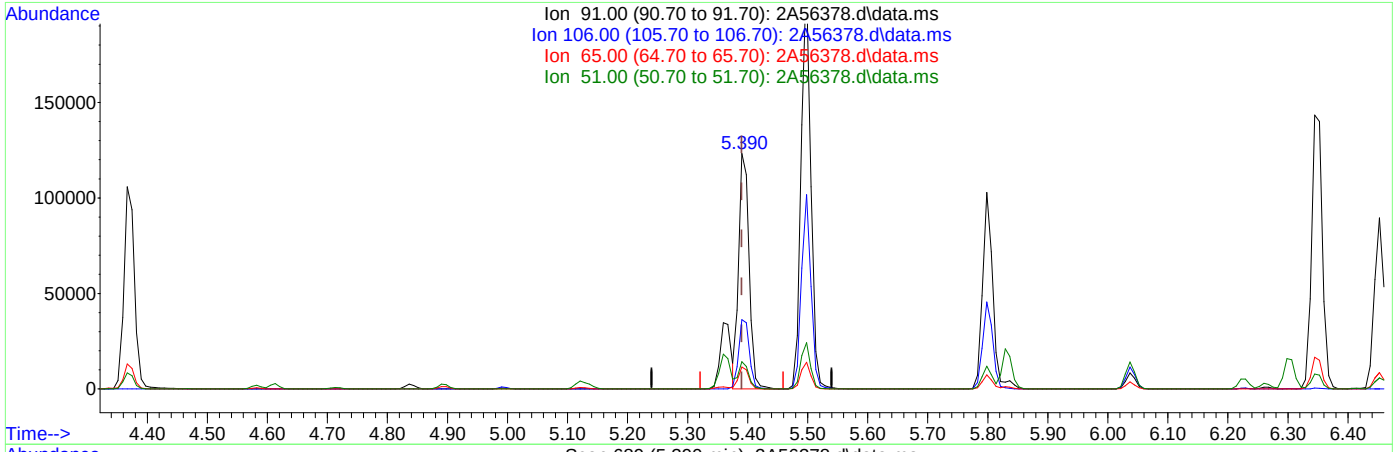
response 192744

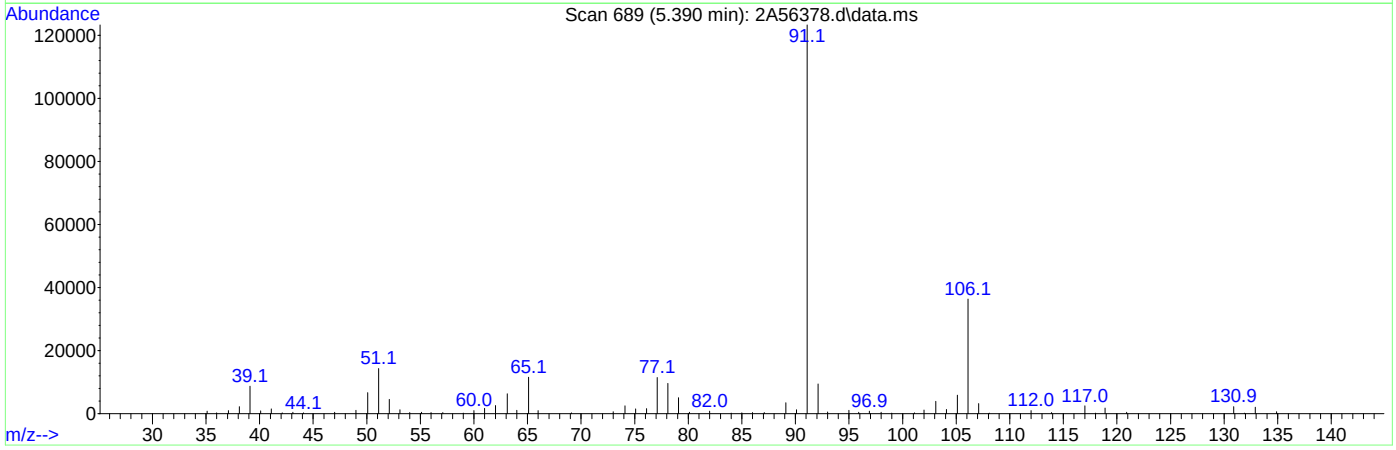
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.42
65.00	7.10	9.37
51.00	7.10	11.57

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56378.d
Acq On : 27 Jun 2024 5:40 pm
Operator : jeniferw
Sample : FC16724-2MS Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 28 06:53:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56378.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 22.98ug/L m

response 148857

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.42
65.00	7.10	9.37
51.00	7.10	11.57

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/28/24 08:56

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:33:17 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	260101	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	185939	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	112449	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	72266	48.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.24%			
49) 1,2-Dichloroethane-d4	3.235	65	89629	49.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.58%			
63) Toluene-d8	4.336	98	255331	50.66	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.32%			
86) 4-Bromofluorobenzene	6.229	174	87252	49.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.019	85	24192	18.8190	ug/L	96
3) Chloromethane	1.127	50	27469	18.5610	ug/L	99
4) 1,3-butadiene	1.181	39	40807	22.9492	ug/L #	71
5) Vinyl Chloride	1.173	62	27096	18.1109	ug/L	100
6) Bromomethane	1.342	94	12924	19.8732	ug/L	95
7) Chloroethane	1.411	64	16849	20.6241	ug/L	94
8) Trichlorofluoromethane	1.496	101	41835	21.0426	ug/L	99
9) Ethyl Ether	1.658	59	24347	22.9960	ug/L	89
10) Ethanol	1.704	45	9522	586.4045	ug/L	93
11) 1,2-Dichlorotrifluoroe...	1.742	67	34340	33.5969	ug/L	87
12) 1,1-Dichloroethene	1.758	61	44365	21.9427	ug/L	83
13) Freon 113	1.781	101	27720	23.1575	ug/L #	82
14) Carbon Disulfide	1.781	76	67794	18.6517	ug/L	80
15) Iodomethane	1.835	142	23382	24.8236	ug/L	93
16) Acrolein	1.904	56	36039	144.9912	ug/L	96
17) Allyl chloride	1.996	41	44300	22.4128	ug/L	82
18) Methylene Chloride	2.043	49	45021	24.3459	ug/L #	71
19) Acetone	2.050	43	69531	133.0266	ug/L	82
20) Methyl acetate	2.119	43	164463	127.1341	ug/L	85
21) trans-1,2-Dichloroethene	2.135	61	42630	21.2287	ug/L	78
22) Hexane	2.196	56	26444	22.0988	ug/L #	78
23) Methyl Tert Butyl Ether	2.189	73	87542	24.0196	ug/L	86
24) Acetonitrile	2.273	41	46522	265.2815	ug/L	96
25) Tert Butyl Alcohol	2.212	59	57113	274.0599	ug/L	87
26) Di-isopropyl ether	2.389	45	91874	22.2944	ug/L	85
27) Chloroprene	2.435	53	128449	23.7878	ug/L	89
28) 1,1-Dichloroethane	2.443	63	54342	21.1853	ug/L	97
29) Acrylonitrile	2.435	52	78860	121.0569	ug/L	95
30) ETBE	2.581	59	93083	23.8421	ug/L	92
31) Vinyl acetate	2.558	43	418806	134.3536	ug/L	96
32) cis-1,2-Dichloroethene	2.720	96	31253	21.7836	ug/L #	79
33) 2,2-Dichloropropane	2.781	77	43107	20.7817	ug/L	94
34) Bromochloromethane	2.820	128	16212	22.4700	ug/L #	63
35) Cyclohexane	2.858	56	51697	21.7164	ug/L #	81
36) Chloroform	2.858	83	57230	24.1150	ug/L	94
37) Ethyl acetate	2.912	43	222996	130.5299	ug/L	89
38) Tetrahydrofuran	2.943	42	15023	24.6751	ug/L	84
40) Carbon Tetrachloride	2.958	117	44154m	22.2755	ug/L	
41) 1,1,1-Trichloroethane	2.981	97	48211	21.1917	ug/L	90
42) 2-Butanone	2.997	43	105261	123.7214	ug/L	80
43) 1,1-Dichloropropene	3.051	75	41722	23.2778	ug/L	78

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:33:17 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.089	59	149353	140.1314	ug/L		97
45) Propionitrile	3.143	54	62966	258.5835	ug/L		98
46) Methacrylonitrile	3.166	41	252077	263.1107	ug/L		94
47) Benzene	3.182	78	118880	22.6031	ug/L		88
48) TAME	3.251	73	80438	23.5755	ug/L	#	72
50) 1,2-Dichloroethane	3.274	62	47198	24.5557	ug/L		97
51) Isobutyl Alcohol	3.251	43	70805	539.7859	ug/L		86
52) Tert Amyl Alcohol	3.320	59	47641	286.3041	ug/L		90
53) Trichloroethene	3.505	95	33422	22.2842	ug/L		85
54) Methylcyclohexane	3.528	83	53253	22.9336	ug/L		83
55) Dibromomethane	3.728	93	21984	24.1805	ug/L	#	73
56) 1,2-Dichloropropane	3.790	63	32261	23.7438	ug/L		89
57) Bromodichloromethane	3.828	83	40456	21.2799	ug/L	#	96
58) Methyl methacrylate	3.913	41	33528	26.2046	ug/L	#	65
59) 1,4-Dioxane	3.936	88	8843	674.2814	ug/L		88
60) 2-Chloroethyl vinyl ether	4.167	63	119673	129.0848	ug/L		86
61) cis-1,3-Dichloropropene	4.205	75	47610	23.0859	ug/L		78
64) Toluene	4.367	91	126985	22.7621	ug/L		100
65) 2-Nitropropane	4.467	41	66226	134.9177	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	219644	131.9394	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	42442	23.0140	ug/L		82
68) Tetrachloroethene	4.628	166	35699	24.7521	ug/L		93
69) Ethyl methacrylate	4.729	69	40209	24.3355	ug/L	#	68
70) 1,1,2-Trichloroethane	4.713	83	24948	23.8053	ug/L		86
71) Dibromochloromethane	4.836	129	31449	24.1717	ug/L		99
72) 1,3-Dichloropropane	4.890	76	49824	27.3348	ug/L		75
73) 1,2-Dibromoethane	4.990	107	31986	25.7014	ug/L		94
74) 3,3-Dimethyl-1-Butanol	5.121	57	280358	1366.6015	ug/L		94
75) 2-hexanone	5.136	43	218461	135.2926	ug/L		74
76) 1-Chlorohexane	5.360	91	43300m	20.4879	ug/L		
77) Ethylbenzene	5.390	91	143897m	22.2632	ug/L		
78) Chlorobenzene	5.360	112	82978	22.9897	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.406	131	29303	23.8048	ug/L		98
80) m,p-Xylene	5.498	91	231622	43.8249	ug/L		94
81) o-Xylene	5.798	91	120668	21.8020	ug/L		91
82) Styrene	5.829	104	91703	22.9758	ug/L		88
83) Bromoform	5.837	173	20037	21.7173	ug/L		95
84) Isopropylbenzene	6.037	105	141496	21.7065	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	9612	20.3829	ug/L	#	67
88) n-Propylbenzene	6.345	91	176925	21.3352	ug/L		87
89) Bromobenzene	6.306	156	37362	23.7576	ug/L	#	78
90) 1,1,2,2-Tetrachloroethane	6.368	83	43090	23.2725	ug/L		96
91) 1,3,5-Trimethylbenzene	6.499	105	124767	22.1540	ug/L		92
92) 2-Chlorotoluene	6.453	91	100040	21.8569	ug/L		93
93) trans-1,4-Dichloro-2-B...	6.499	53	13952	23.3964	ug/L	#	59
94) 1,2,3-Trichloropropane	6.468	110	13126	27.0631	ug/L	#	72
95) Cyclohexanone	6.476	55	11917	214.7444	ug/L		78
96) 4-Chlorotoluene	6.576	91	106710	21.7739	ug/L		89
97) tert-Butylbenzene	6.745	91	74018	21.8492	ug/L		84
98) 1,2,4-Trimethylbenzene	6.799	105	119242	22.6337	ug/L		96
99) Pentachloroethane	6.745	167	18854	22.2164	ug/L	#	62
100) sec-Butylbenzene	6.891	105	150707	21.1286	ug/L		94
101) 4-Isopropyltoluene	7.007	119	130878	21.6077	ug/L		94
102) 1,3-Dichlorobenzene	7.037	146	68754	22.4776	ug/L		93
103) 1,2,3-Trimethylbenzene	7.138	105	120064	22.9944	ug/L		97
104) 1,4-Dichlorobenzene	7.107	146	69940	22.8591	ug/L		95
105) n-Butylbenzene	7.338	92	64959	23.4487	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:33:17 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

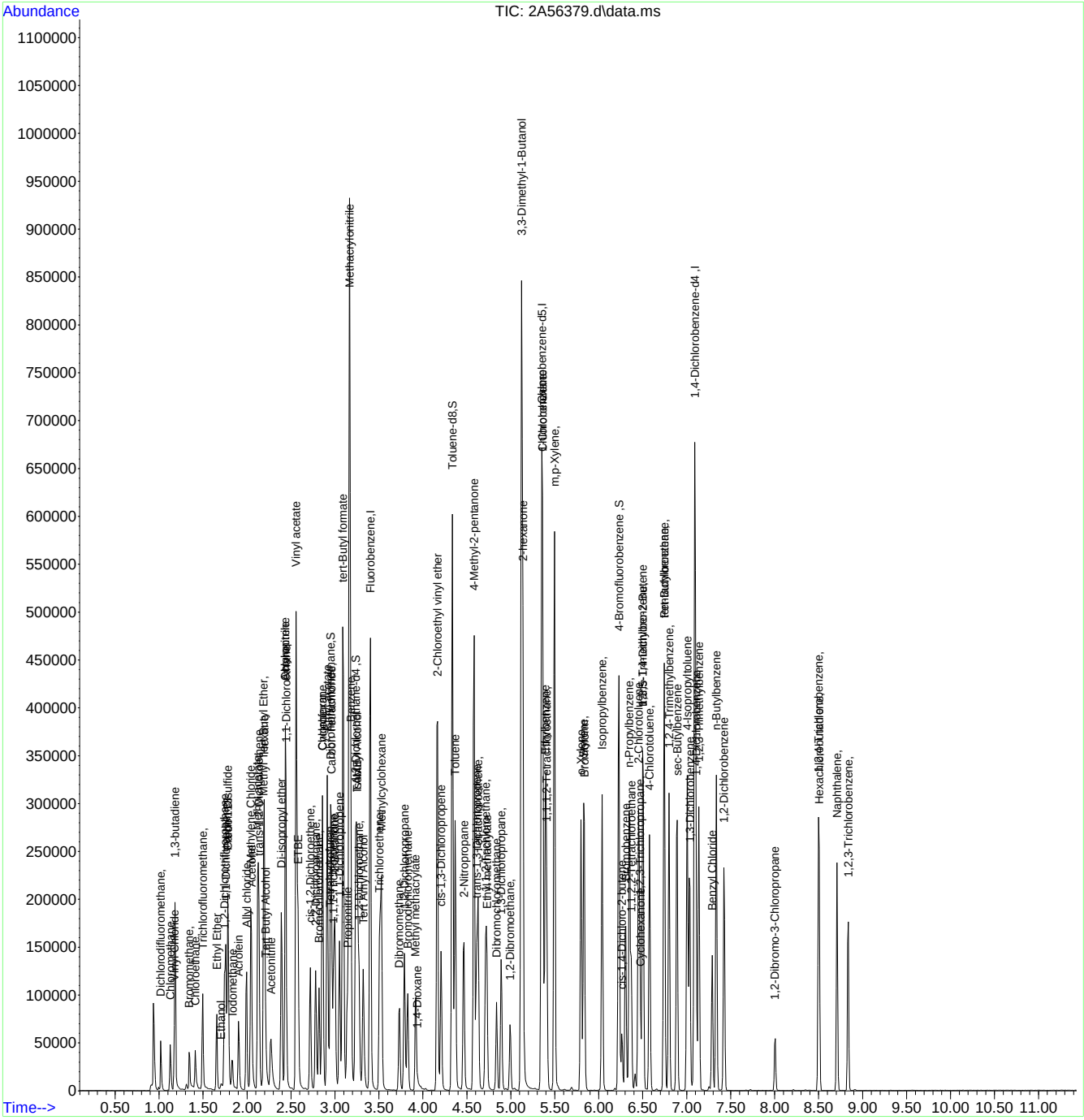
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) Benzyl Chloride	7.291	126	13709	20.1651 ug/L #	71
107) 1,2-Dichlorobenzene	7.422	146	64067	23.3501 ug/L	89
108) 1,2-Dibromo-3-Chloropr...	7.999	75	9073	24.1703 ug/L #	34
109) Hexachlorobutadiene	8.507	225	17838	22.9504 ug/L	86
110) 1,2,4-Trichlorobenzene	8.500	180	40087	24.0128 ug/L	97
111) Naphthalene	8.708	128	109354	23.9784 ug/L	100
112) 1,2,3-Trichlorobenzene	8.838	180	35852	24.0233 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:33:17 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

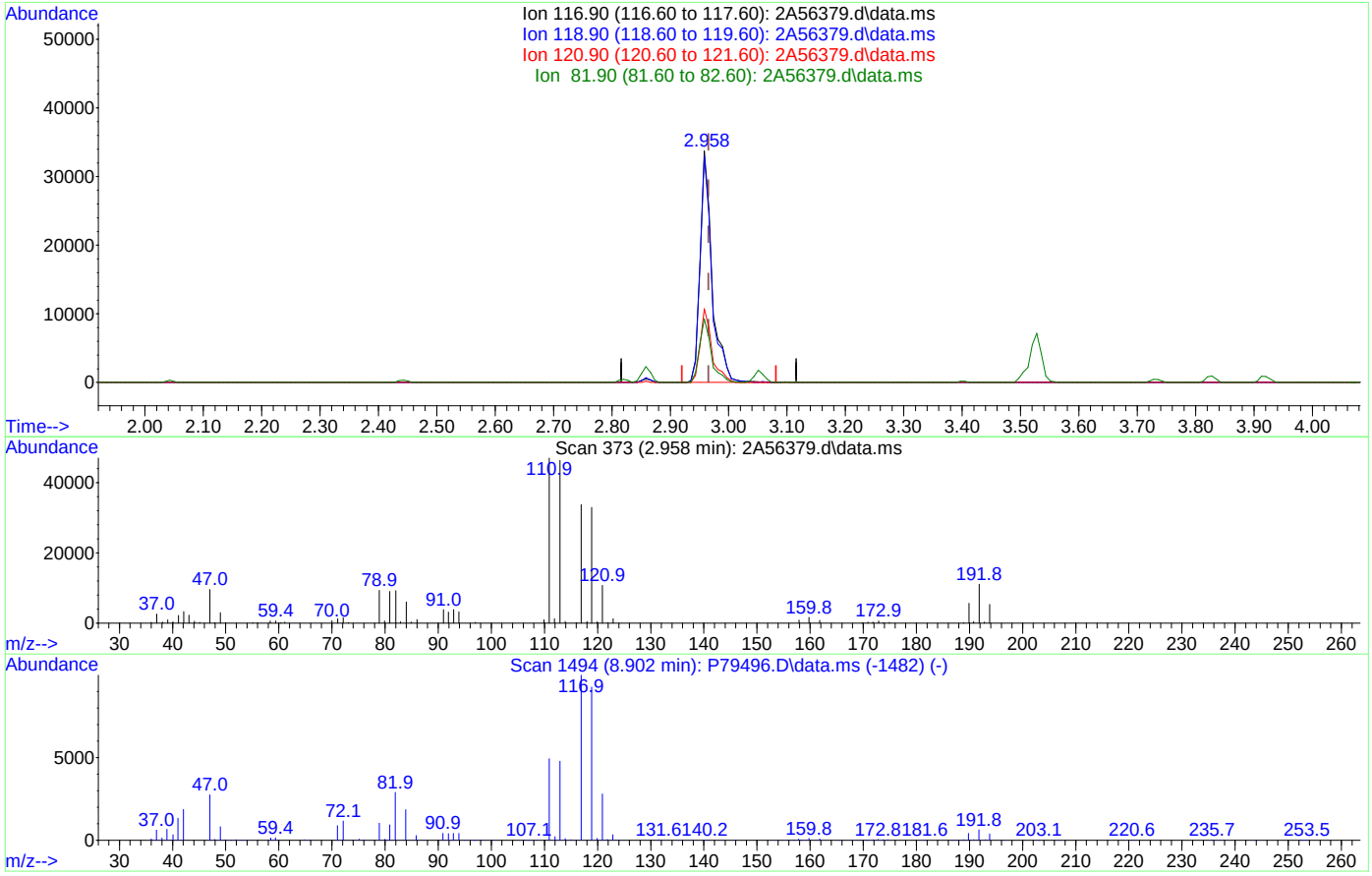
Sample Number: FC16724-2MSD
Lab FileID: 2A56379.D
Injection Time: 06/27/24 18:04
Method: SW846 8260D
Analyst approved: 06/28/24 02:59 Jhenelle Bondal
Supervisor approved: 06/28/24 08:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56379.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 24.44ug/L

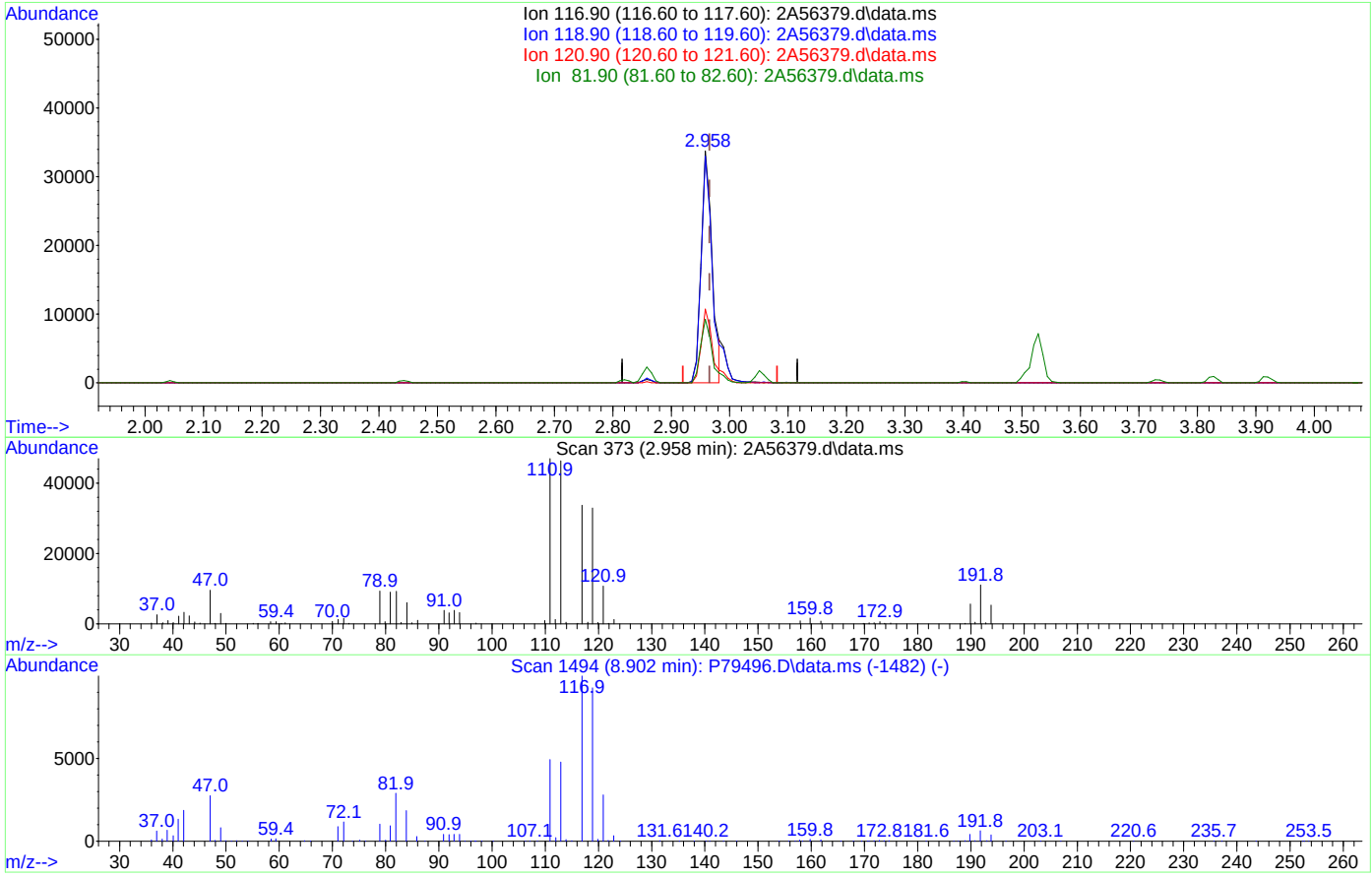
response 48447

Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.68
120.90	31.00	31.81
81.90	19.00	27.36

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56379.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 22.28ug/L m

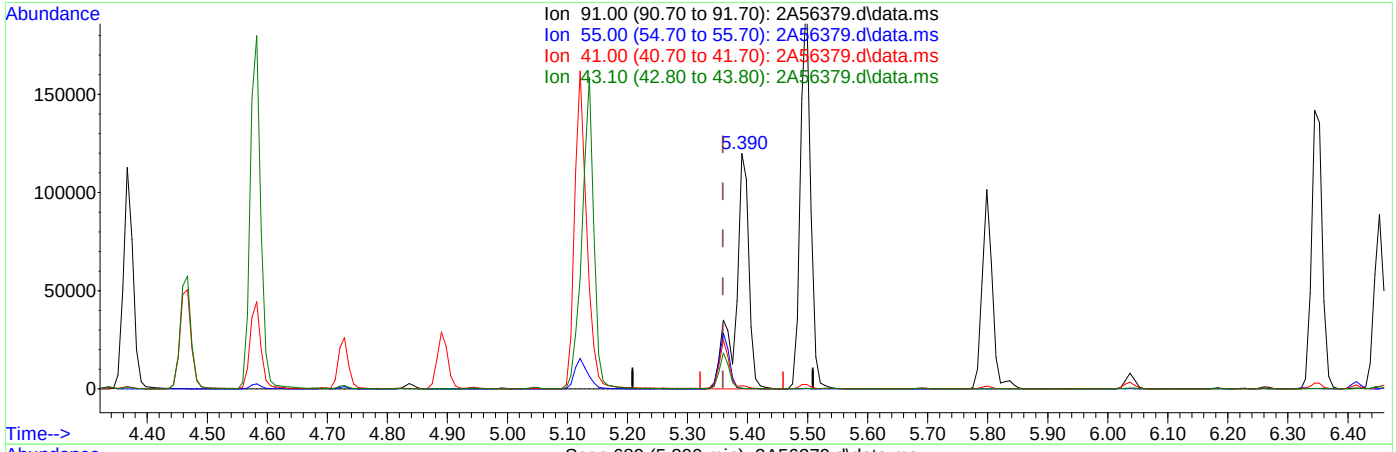
response 44154

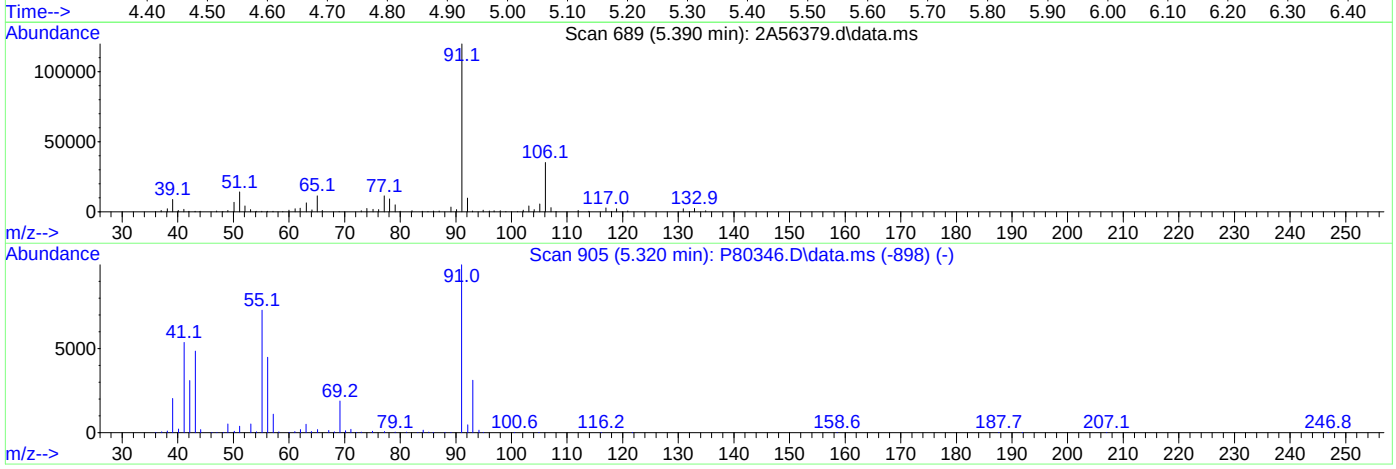
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.68
120.90	31.00	31.81
81.90	19.00	27.36

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56379.d\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 88.57ug/L

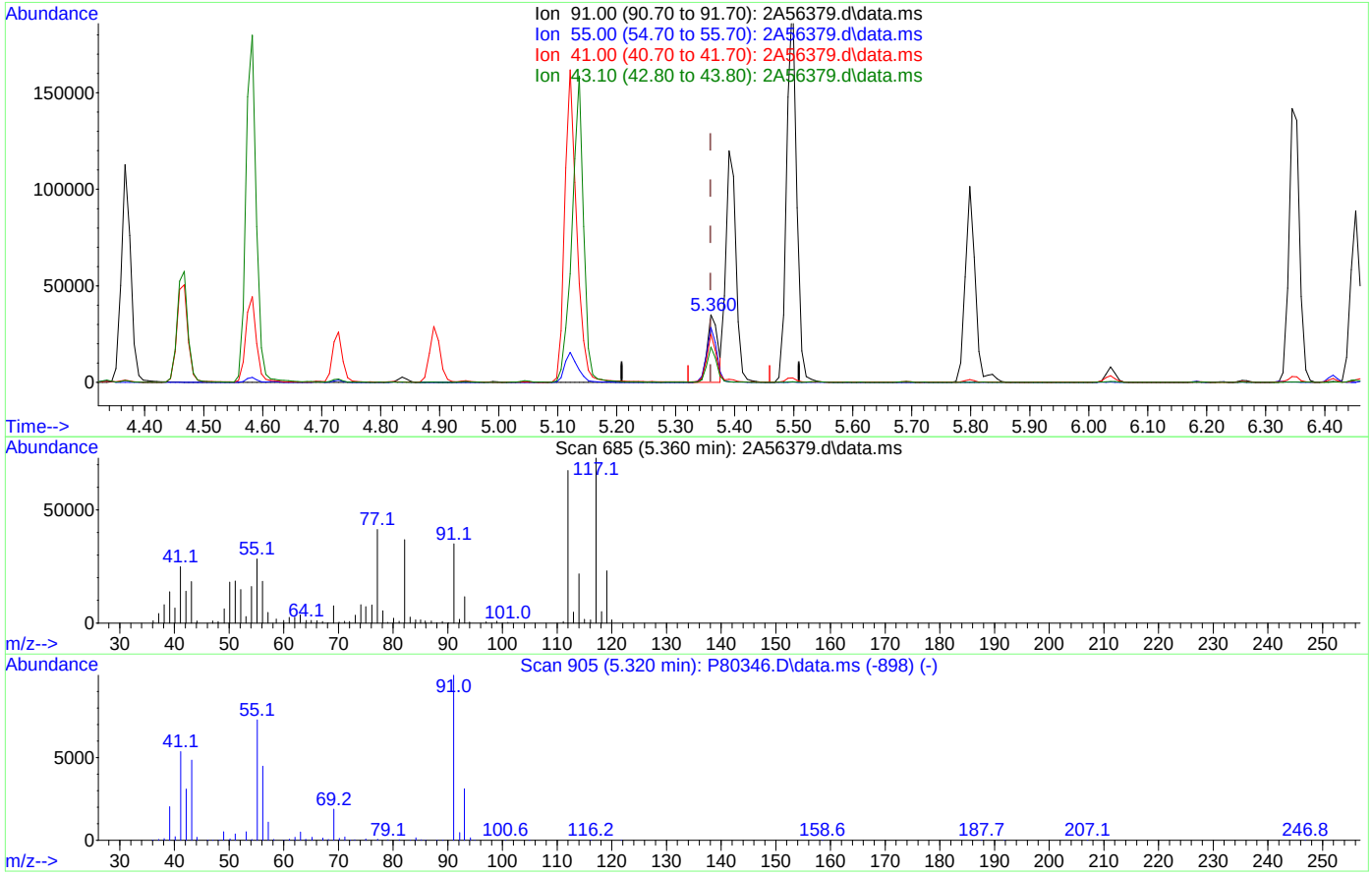
response 187182

Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.32#
41.00	39.20	1.21#
43.10	33.20	0.26#

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56379.d\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 20.49ug/L m

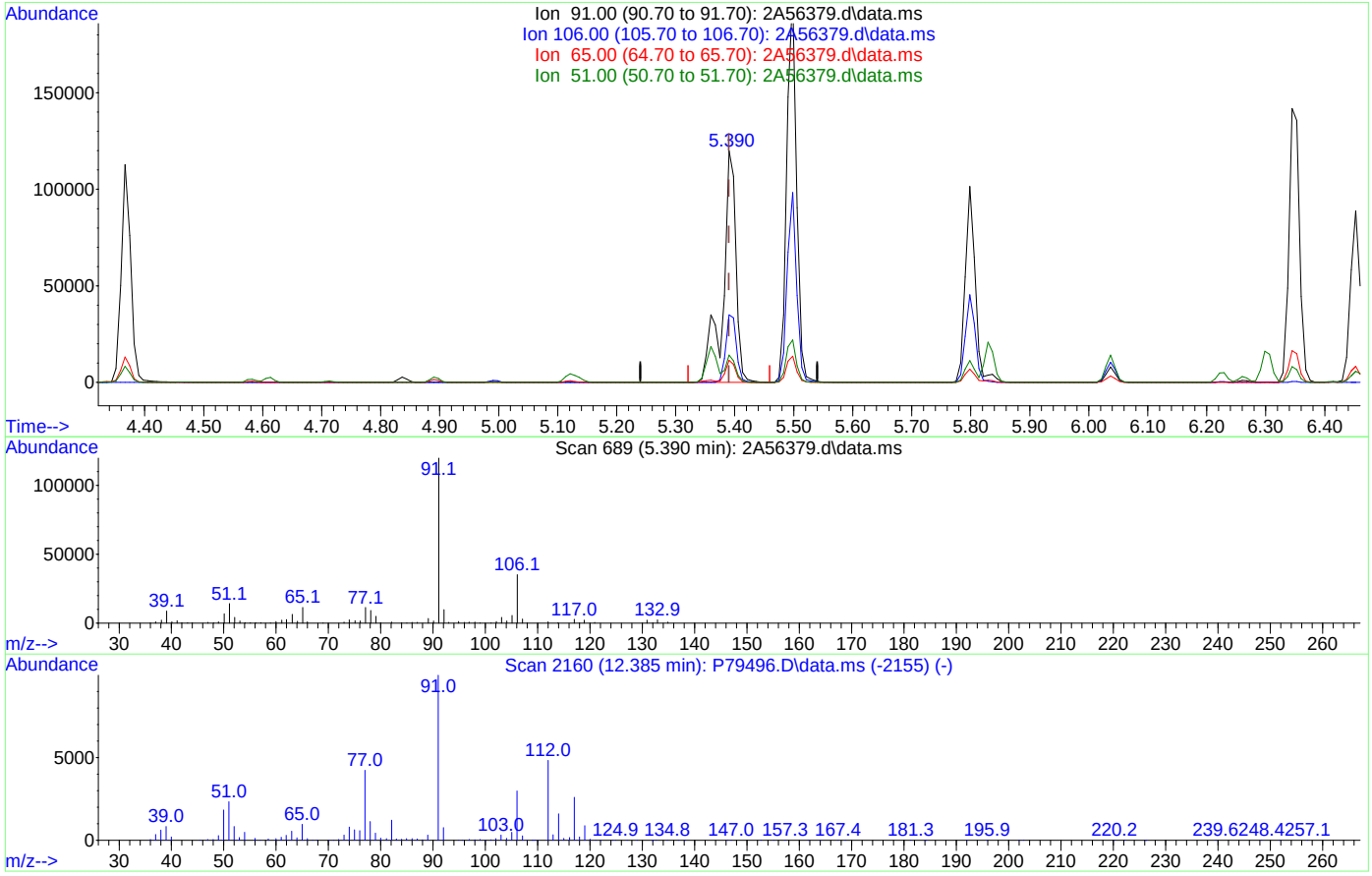
response 43300

Ion	Exp%	Act%
91.00	100	100
55.00	58.90	81.14#
41.00	39.20	71.33#
43.10	33.20	52.49

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56379.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 28.96ug/L

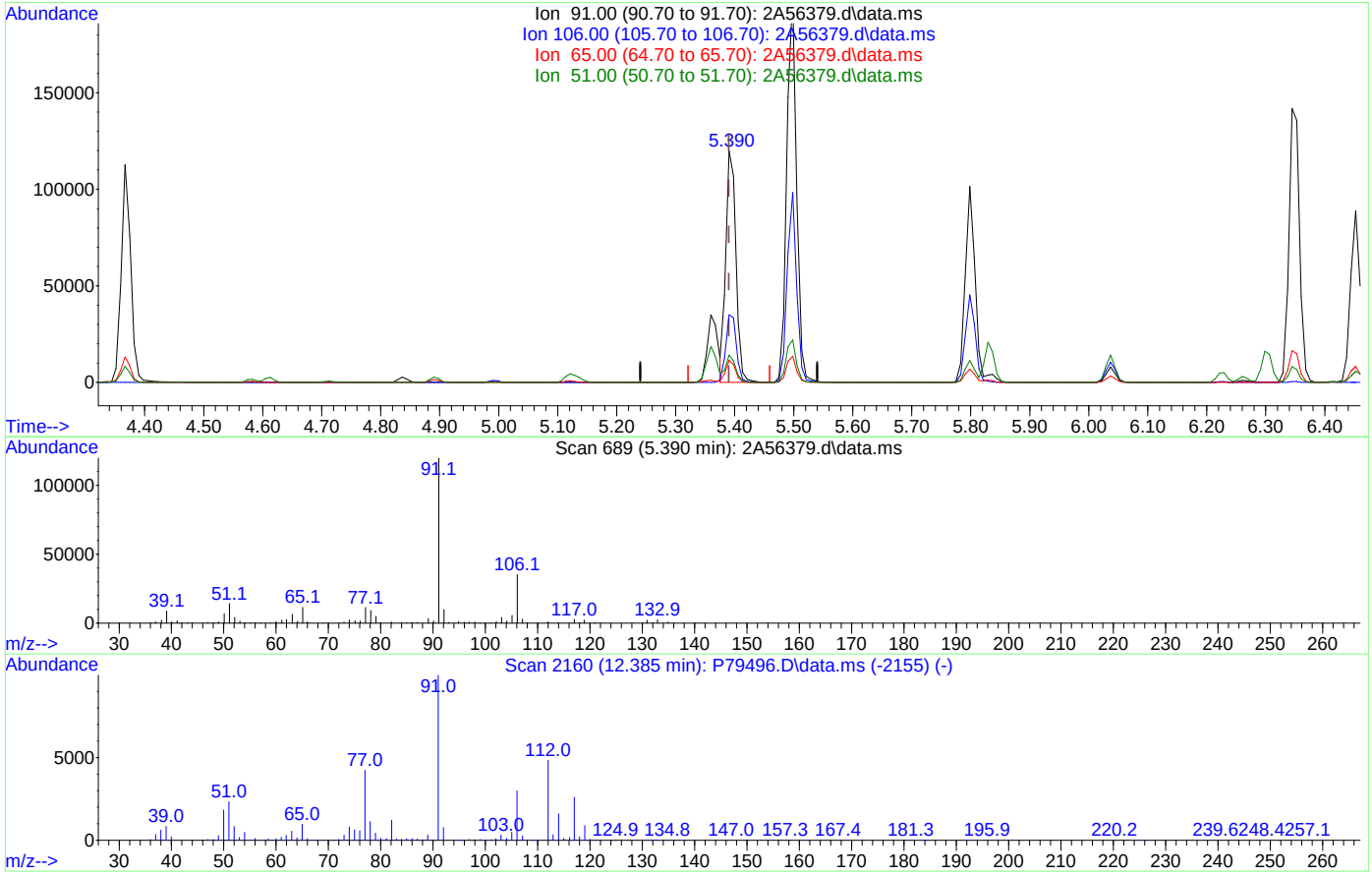
response 187182

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.23
65.00	7.10	9.52
51.00	7.10	11.79

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56379.d
Acq On : 27 Jun 2024 6:04 pm
Operator : jeniferw
Sample : FC16724-2MSD Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 28 06:14:03 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56379.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 22.26ug/L m

response 143897

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.23
65.00	7.10	9.52
51.00	7.10	11.79

Manual Integrations APPROVED (compounds with "m" flag)
Neil Christiana 07/01/24 07:56

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	295535	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	198523	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	103918	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	73552	47.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.98%			
49) 1,2-Dichloroethane-d4	8.180	65	92035	51.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.38%			
62) Toluene-d8	10.033	98	276149	49.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.60%			
86) 4-Bromofluorobenzene	12.813	95	84136	49.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	20694	22.4021	ug/L	100
3) Chloromethane	3.132	50	33175	23.0904	ug/L	94
4) Vinyl Chloride	3.266	62	41369	21.8890	ug/L	97
5) 1,3-Butadiene	3.297	39	80220	34.7607	ug/L	91
6) Bromomethane	3.772	94	18224	14.0742	ug/L	92
7) Chloroethane	3.949	64	29804	21.6938	ug/L	97
8) Trichlorofluoromethane	4.156	101	38914	21.2432	ug/L	97
9) Ethyl Ether	4.577	59	22502	25.3911	ug/L	95
10) Ethanol	4.778	45	7261m	391.7745	ug/L	
11) 1,2-Dichlorotrifluoroe...	4.827	67	36118	38.5805	ug/L	94
12) 1,1-Dichloroethene	4.857	61	41294	26.1843	ug/L	96
13) Freon 113	4.900	101	27158	24.4697	ug/L	94
14) Carbon Disulfide	4.924	76	62050	19.9867	ug/L	97
15) Iodomethane	5.058	142	21516	17.8995	ug/L	94
16) Acrolein	5.290	56	33815	135.0138	ug/L	97
17) Allyl chloride	5.461	41	46314	26.2566	ug/L	91
18) Methylene Chloride	5.589	49	46040	26.8114	ug/L	96
19) Acetone	5.638	43	64541	123.7843	ug/L	98
20) Methyl acetate	5.778	43	167665	123.5574	ug/L	96
21) trans-1,2-Dichloroethene	5.790	61	40846	26.0047	ug/L	95
22) Hexane	5.869	56	25052	24.6193	ug/L	91
23) Methyl Tert Butyl Ether	5.894	73	75984	25.5173	ug/L	95
24) Acetonitrile	6.211	41	51811	263.5852	ug/L	100
25) Di-isopropyl ether	6.320	45	104236	26.1513	ug/L	95
26) Chloroprene	6.491	53	38036	27.8107	ug/L	97
27) 1,1-Dichloroethane	6.515	63	53322	25.6077	ug/L	99
28) Acrylonitrile	6.570	53	71307	123.4279	ug/L	98
29) ETBE	6.741	59	79950	25.0435	ug/L	97
30) Tert Butyl Alcohol	5.973	59	45421	191.1566	ug/L	95
31) Vinyl acetate	6.765	43	447788	128.3726	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	34290	29.5709	ug/L	97
33) 2,2-Dichloropropane	7.247	77	32636	24.3331	ug/L	99
34) Bromochloromethane	7.351	128	13442	27.0499	ug/L	87
35) Cyclohexane	7.369	56	53311	27.4855	ug/L	96
36) Chloroform	7.406	83	50924	26.3729	ug/L	98
37) Ethyl acetate	7.497	43	240886	133.3874	ug/L	99
38) Tetrahydrofuran	7.595	42	16560	23.6677	ug/L	99
40) Carbon Tetrachloride	7.582	117	29508	22.5797	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	38416	25.9062	ug/L	96
42) 2-Butanone	7.723	43	108119	111.5461	ug/L	98
43) 1,1-Dichloropropene	7.777	75	39434	27.8308	ug/L	96
44) tert-Butyl formate	7.869	59	54503	213.9298	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.046	54	67140	256.2009	ug/L		91
46) Methacrylonitrile	8.070	41	323105	274.0831	ug/L		99
47) Benzene	8.046	78	121319	25.6363	ug/L		99
48) TAME	8.113	73	76028	25.0067	ug/L		93
50) 1,2-Dichloroethane	8.247	62	39540	27.6136	ug/L		96
51) tert Amyl alcohol	8.283	59	33218	186.3406	ug/L		94
52) Trichloroethene	8.637	95	31015	26.6856	ug/L		94
53) Methylcyclohexane	8.637	83	51305	24.3795	ug/L		94
54) Dibromomethane	9.082	93	18149	24.2828	ug/L		95
55) 1,2-Dichloropropane	9.173	63	31389	28.2246	ug/L		98
56) Bromodichloromethane	9.216	83	31512	24.8879	ug/L		96
57) Methyl methacrylate	9.326	41	30765	24.5321	ug/L		98
58) 1,4-Dioxane	9.411	88	4594	276.4485	ug/L		90
60) cis-1,3-Dichloropropene	9.850	75	34916	21.0866	ug/L		95
63) Toluene	10.088	91	113890	24.1868	ug/L		98
64) Isobutyl alcohol	8.174	43	38168	459.3562	ug/L		96
65) 2-Nitropropane	10.313	41	31351	129.7432	ug/L		97
66) 4-Methyl-2-pentanone	10.423	43	251088	134.8622	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	31087	20.5429	ug/L		87
68) Tetrachloroethene	10.490	166	27665	24.3457	ug/L		96
69) Ethyl methacrylate	10.588	69	35499	24.6127	ug/L		91
70) 1,1,2-Trichloroethane	10.649	83	23130	27.2926	ug/L		97
71) Dibromochloromethane	10.844	129	20942	22.5521	ug/L		95
72) 1,3-Dichloropropane	10.935	76	45856	29.6095	ug/L		97
73) 1,2-Dibromoethane	11.112	107	24197	24.6530	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.185	57	67633	787.7532	ug/L		97
75) 2-hexanone	11.246	43	171798	122.3861	ug/L		99
76) 1-Chlorohexane	11.539	91	37616	27.7186	ug/L		94
77) Ethylbenzene	11.606	91	132341	24.0724	ug/L		98
78) Chlorobenzene	11.612	112	74254	25.0112	ug/L		99
79) 1,1,1,2-Tetrachloroethane	11.661	131	21530	25.3952	ug/L		92
80) m,p-Xylene	11.746	91	189651	47.6876	ug/L		97
81) o-Xylene	12.185	91	88625	23.7132	ug/L		99
82) Styrene	12.240	104	67530	24.7682	ug/L		97
83) Bromoform	12.301	173	12269	22.8977	ug/L		92
84) Isopropylbenzene	12.490	105	106909	24.8714	ug/L		98
87) cis-1,4-Dichloro-2-butene	12.856	53	4452	17.1002	ug/L	#	80
88) n-Propylbenzene	12.911	91	137625	24.9427	ug/L		98
89) Bromobenzene	12.941	156	27275	26.7870	ug/L		95
90) 1,1,2,2-Tetrachloroethane	12.978	83	38842	26.6415	ug/L		98
91) 1,3,5-Trimethylbenzene	13.087	105	87614	25.6663	ug/L		99
92) 2-Chlorotoluene	13.106	91	87331	24.2724	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.160	53	4943	16.5947	ug/L	#	56
94) 1,2,3-Trichloropropane	13.142	110	9387	25.2829	ug/L	#	76
95) Cyclohexanone	13.221	55	3813	78.7246	ug/L		92
96) 4-Chlorotoluene	13.270	91	75883	24.9916	ug/L		98
98) tert-Butylbenzene	13.435	91	48851	25.2366	ug/L		96
99) 1,2,4-Trimethylbenzene	13.502	105	85310	25.6471	ug/L		99
100) Pentachloroethane	13.490	167	12797	22.9925	ug/L		94
101) sec-Butylbenzene	13.618	105	105301	24.0247	ug/L		99
102) 4-Isopropyltoluene	13.746	119	84508	25.7897	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	47476	24.7203	ug/L		96
104) 1,2,3-Trimethylbenzene	13.959	105	93502	24.7203	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	54858	24.5702	ug/L		97
106) n-Butylbenzene	14.166	92	46308	24.7104	ug/L		99
107) Benzyl Chloride	14.197	126	6550	21.5673	ug/L	#	81
108) 1,2-Dichlorobenzene	14.386	146	44499	25.5110	ug/L		97
109) 1,2-Dibromo-3-Chloropr...	15.117	75	4401	20.9521	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

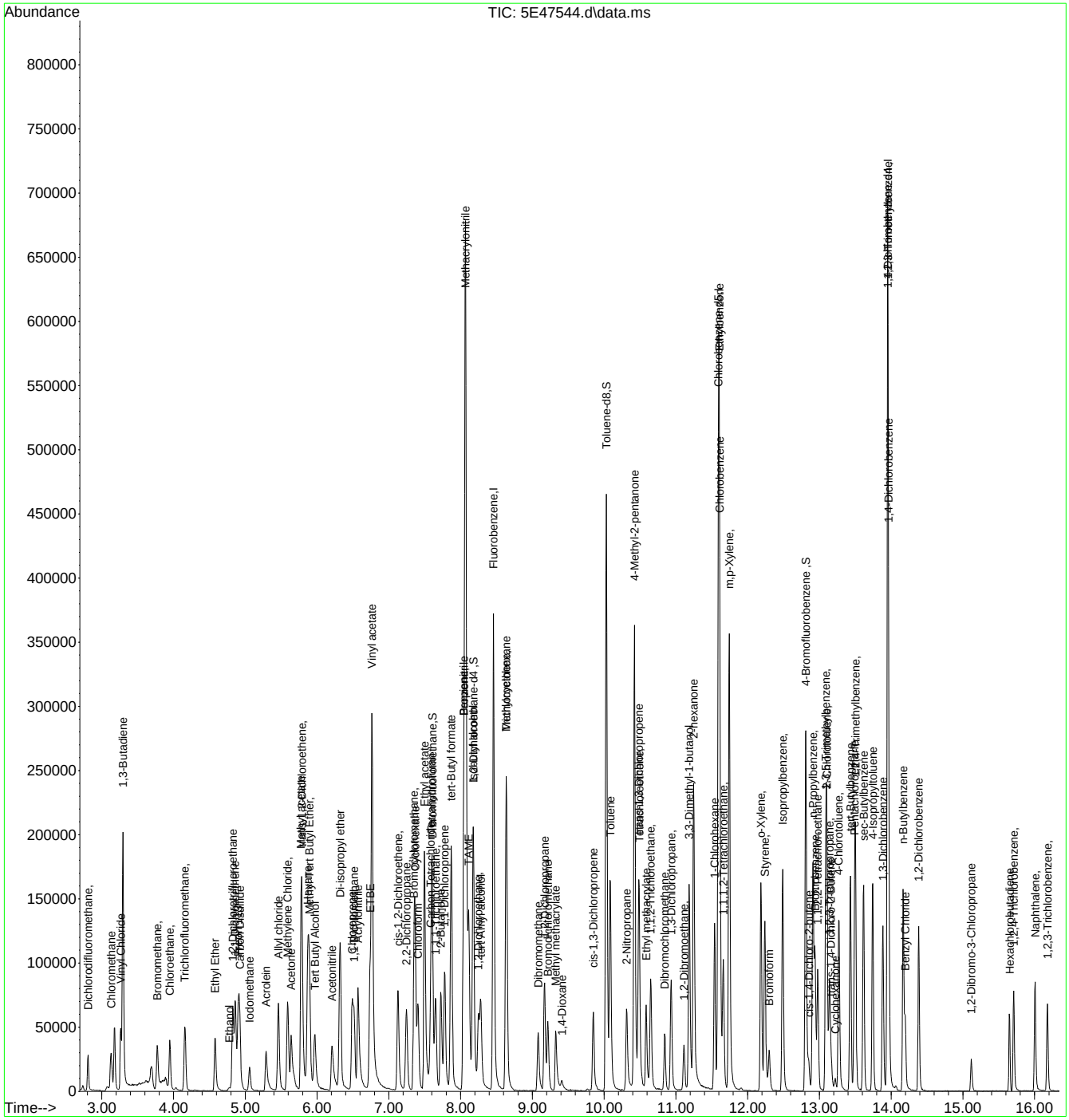
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	15.654	225	8522	23.8528	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	21863	24.8388	ug/L	99
112) Naphthalene	16.008	128	60906	22.1309	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	19278	24.3028	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:57:47 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC16592-2MS
Lab FileID: 5E47544.D
Injection Time: 06/28/24 19:08

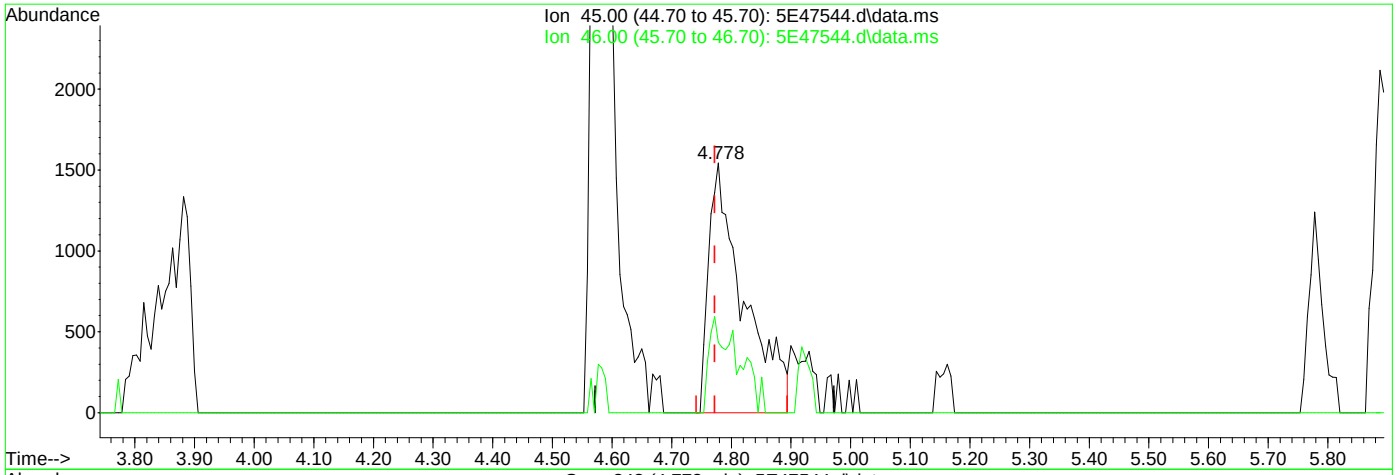
Method: SW846 8260D
Analyst approved: 07/01/24 03:13 Lotus Acosta
Supervisor approved: 07/01/24 07:56 Neil Christiana

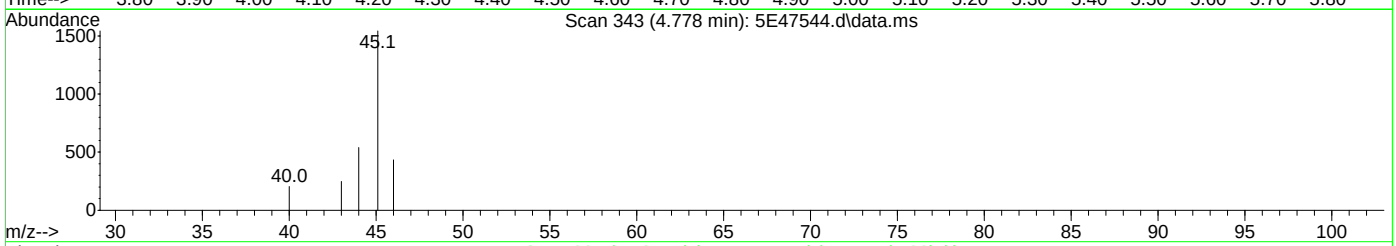
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.78	Split peak

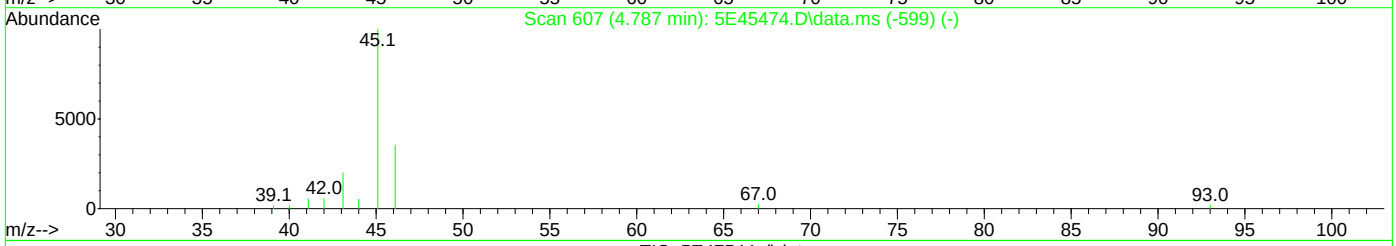
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:41:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration







TIC: 5E47544.d\data.ms

(10) Ethanol

4.778min (+0.006) 340.84ug/L

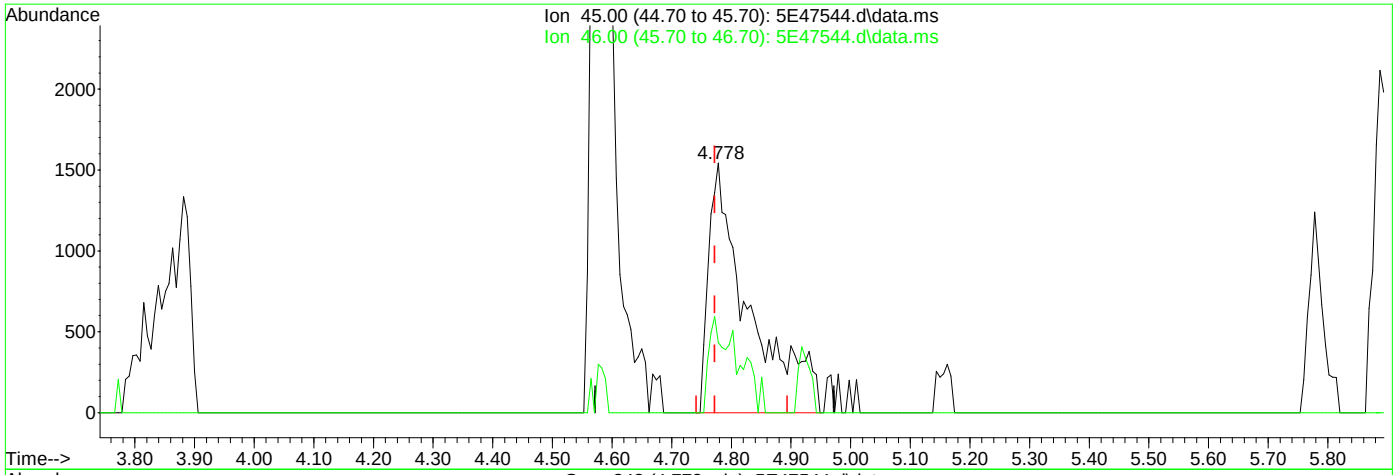
response 6317

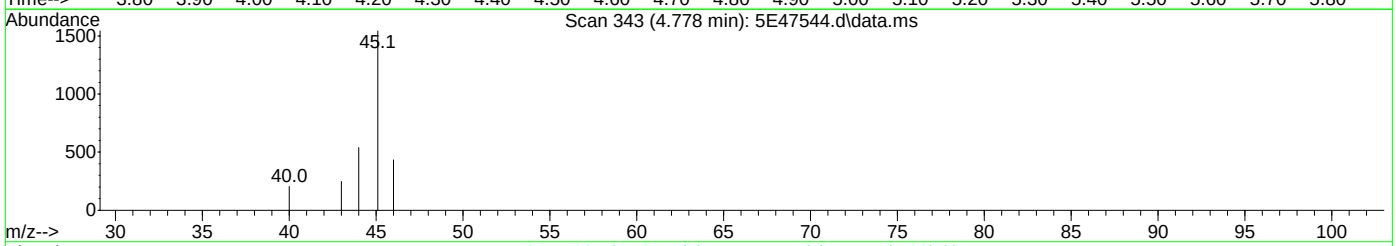
Ion	Exp%	Act%
45.00	100	100
46.00	36.80	28.11
0.00	0.00	0.00
0.00	0.00	0.00

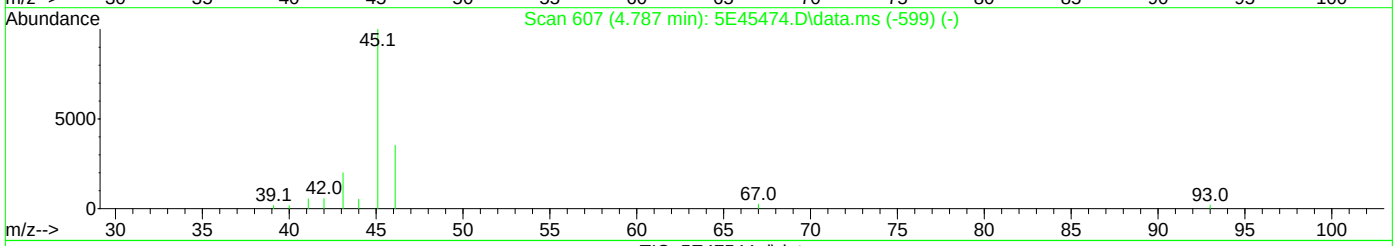
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47544.d
Acq On : 28 Jun 2024 7:08 pm
Operator : lianatr
Sample : FC16592-2MS Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 06:41:20 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration







TIC: 5E47544.d\data.ms

(10) Ethanol

4.778min (+0.006) 391.77ug/L m

response 7261

Ion	Exp%	Act%
45.00	100	100
46.00	36.80	28.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	307205	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	203767	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	105377	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	77539	48.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.34%			
49) 1,2-Dichloroethane-d4	8.180	65	95028	50.85	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.70%			
62) Toluene-d8	10.033	98	281318	49.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.86%			
86) 4-Bromofluorobenzene	12.807	95	87343	50.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	20616	21.4699	ug/L	97
3) Chloromethane	3.132	50	34916	23.3790	ug/L	98
4) Vinyl Chloride	3.266	62	42198	21.4795	ug/L	97
5) 1,3-Butadiene	3.297	39	80753	33.6624	ug/L	90
6) Bromomethane	3.772	94	24726	18.3703	ug/L	98
7) Chloroethane	3.949	64	32816	22.9788	ug/L	96
8) Trichlorofluoromethane	4.156	101	39637	20.8159	ug/L	93
9) Ethyl Ether	4.583	59	23177	25.1593	ug/L	96
10) Ethanol	4.772	45	8469	439.5948	ug/L	96
11) 1,2-Dichlorotrifluoroe...	4.827	67	37409	38.4416	ug/L	94
12) 1,1-Dichloroethene	4.863	61	43219	26.3639	ug/L	98
13) Freon 113	4.900	101	27527	23.8600	ug/L	96
14) Carbon Disulfide	4.924	76	64636	20.0288	ug/L	96
15) Iodomethane	5.058	142	26529	21.2315	ug/L	96
16) Acrolein	5.290	56	33973	130.4918	ug/L	95
17) Allyl chloride	5.461	41	47925	26.1378	ug/L	93
18) Methylene Chloride	5.589	49	47155	26.4176	ug/L	97
19) Acetone	5.644	43	60576	111.7664	ug/L	95
20) Methyl acetate	5.778	43	164479	116.6050	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	42272	25.8902	ug/L	96
22) Hexane	5.875	56	24868	23.5101	ug/L #	91
23) Methyl Tert Butyl Ether	5.894	73	79542	25.6975	ug/L	98
24) Acetonitrile	6.211	41	51637	252.7206	ug/L	97
25) Di-isopropyl ether	6.320	45	106239	25.6414	ug/L	95
26) Chloroprene	6.491	53	39015	27.4429	ug/L	98
27) 1,1-Dichloroethane	6.515	63	54232	25.0554	ug/L	96
28) Acrylonitrile	6.570	53	70694	117.7184	ug/L	99
29) ETBE	6.741	59	82405	24.8320	ug/L	98
30) Tert Butyl Alcohol	5.973	59	50774	205.5676	ug/L	93
31) Vinyl acetate	6.765	43	447951	123.5410	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	35191	29.1950	ug/L	95
33) 2,2-Dichloropropane	7.247	77	33695	24.1683	ug/L	97
34) Bromochloromethane	7.351	128	13899	26.9070	ug/L	87
35) Cyclohexane	7.363	56	55282	27.4190	ug/L	97
36) Chloroform	7.405	83	51956	25.8852	ug/L	99
37) Ethyl acetate	7.497	43	242238	129.0406	ug/L	99
38) Tetrahydrofuran	7.594	42	16906	23.2443	ug/L	95
40) Carbon Tetrachloride	7.582	117	30931	22.7695	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	38018	24.6639	ug/L	99
42) 2-Butanone	7.722	43	106927	106.1257	ug/L	98
43) 1,1-Dichloropropene	7.777	75	40201	27.2943	ug/L	96
44) tert-Butyl formate	7.869	59	55113	208.8593	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	67148	247.4911	ug/L		97
46) Methacrylonitrile	8.070	41	317822	260.9287	ug/L		98
47) Benzene	8.046	78	122906	24.9851	ug/L		97
48) TAME	8.113	73	76743	24.2830	ug/L		95
50) 1,2-Dichloroethane	8.247	62	38858	26.1064	ug/L		96
51) tert Amyl alcohol	8.283	59	37415	201.9112	ug/L		95
52) Trichloroethene	8.637	95	31450	26.0319	ug/L		96
53) Methylcyclohexane	8.637	83	51287	23.4452	ug/L		96
54) Dibromomethane	9.082	93	19014	24.4738	ug/L		95
55) 1,2-Dichloropropane	9.173	63	32578	28.1809	ug/L		97
56) Bromodichloromethane	9.216	83	31740	24.1157	ug/L		95
57) Methyl methacrylate	9.326	41	31240	23.9645	ug/L		96
58) 1,4-Dioxane	9.411	88	7942	459.7627	ug/L		94
60) cis-1,3-Dichloropropene	9.850	75	36875	21.4238	ug/L		97
63) Toluene	10.088	91	118045	24.4240	ug/L		100
64) Isobutyl alcohol	8.168	43	43457	509.5501	ug/L		96
65) 2-Nitropropane	10.313	41	31556	127.5112	ug/L		95
66) 4-Methyl-2-pentanone	10.423	43	248843	130.2167	ug/L		97
67) trans-1,3-Dichloropropene	10.484	75	31521	20.2936	ug/L		94
68) Tetrachloroethene	10.484	166	27879	23.9027	ug/L		94
69) Ethyl methacrylate	10.588	69	36178	24.4380	ug/L		94
70) 1,1,2-Trichloroethane	10.649	83	22863	26.2833	ug/L		98
71) Dibromochloromethane	10.844	129	22086	23.1720	ug/L		97
72) 1,3-Dichloropropane	10.935	76	46187	29.0557	ug/L		97
73) 1,2-Dibromoethane	11.112	107	23727	23.5520	ug/L		92
74) 3,3-Dimethyl-1-butanol	11.185	57	112434	1174.5585	ug/L		99
75) 2-hexanone	11.246	43	174798	121.3186	ug/L		98
76) 1-Chlorohexane	11.539	91	38573	27.6923	ug/L		94
77) Ethylbenzene	11.606	91	134847	23.8970	ug/L		97
78) Chlorobenzene	11.612	112	76244	25.0206	ug/L		96
79) 1,1,1,2-Tetrachloroethane	11.661	131	22648	26.0265	ug/L		97
80) m,p-Xylene	11.746	91	196930	48.2436	ug/L		97
81) o-Xylene	12.185	91	92437	24.0966	ug/L		99
82) Styrene	12.240	104	68243	24.3855	ug/L		97
83) Bromoform	12.301	173	12148	22.1643	ug/L		97
84) Isopropylbenzene	12.490	105	111462	25.2633	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	4399	16.6781	ug/L	#	80
88) n-Propylbenzene	12.910	91	143247	25.6022	ug/L		97
89) Bromobenzene	12.941	156	27565	26.6969	ug/L		96
90) 1,1,2,2-Tetrachloroethane	12.978	83	39003	26.3816	ug/L		97
91) 1,3,5-Trimethylbenzene	13.087	105	89238	25.7801	ug/L		99
92) 2-Chlorotoluene	13.106	91	89965	24.6582	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.167	53	4952	16.3947	ug/L		94
94) 1,2,3-Trichloropropane	13.142	110	9877	26.2343	ug/L		89
95) Cyclohexanone	13.215	55	5511	112.2068	ug/L		97
96) 4-Chlorotoluene	13.270	91	77615	25.2081	ug/L		98
98) tert-Butylbenzene	13.435	91	48858	24.8908	ug/L		97
99) 1,2,4-Trimethylbenzene	13.502	105	87178	25.8458	ug/L		99
100) Pentachloroethane	13.490	167	12685	22.4757	ug/L		97
101) sec-Butylbenzene	13.618	105	109443	24.6240	ug/L		100
102) 4-Isopropyltoluene	13.746	119	86568	26.0526	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	47885	24.5880	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	95690	24.9485	ug/L		96
105) 1,4-Dichlorobenzene	13.965	146	57298	25.3077	ug/L		97
106) n-Butylbenzene	14.166	92	48273	25.4022	ug/L		93
107) Benzyl Chloride	14.197	126	6485	21.1067	ug/L	#	81
108) 1,2-Dichlorobenzene	14.386	146	46024	26.0200	ug/L		96
109) 1,2-Dibromo-3-Chloropr...	15.111	75	4450	20.8921	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

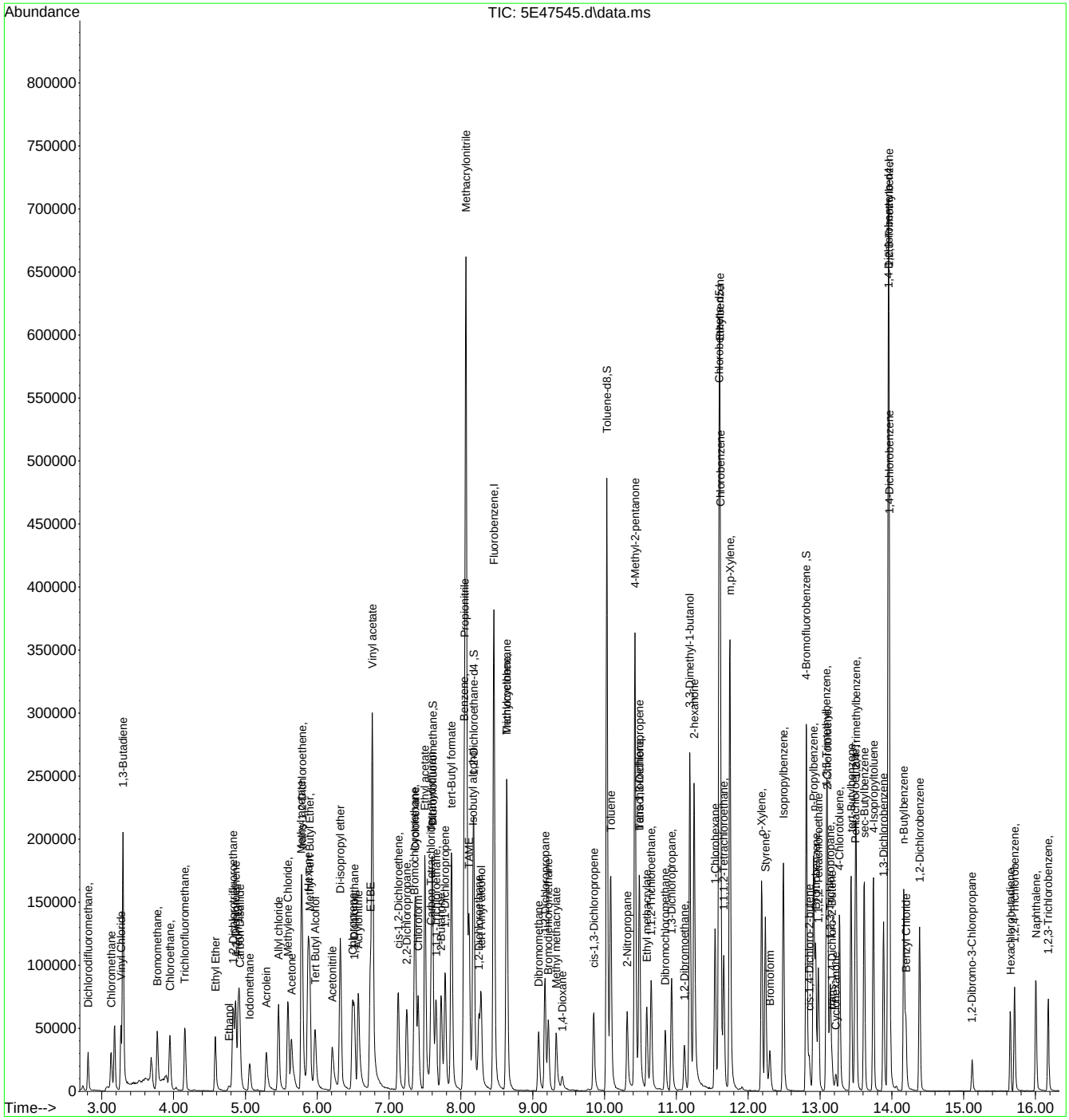
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	15.654	225	9143	25.2367	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	23176	25.9659	ug/L	95
112) Naphthalene	16.007	128	64820	23.2270	ug/L	98
113) 1,2,3-Trichlorobenzene	16.178	180	20345	25.2928	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47545.d
Acq On : 28 Jun 2024 7:30 pm
Operator : lianatr
Sample : FC16592-2MSD Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 01 06:41:29 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 08:18

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 10:33:14 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	423593	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	288159	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	155927	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.507	113	114366	52.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.08%			
50) 1,2-Dichloroethane-d4	3.818	65	157082	55.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.56%			
63) Toluene-d8	4.934	98	417628	50.09	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.18%			
86) 4-Bromofluorobenzene	6.866	174	107394	49.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	70002	46.9418	ug/L	100
3) Chloromethane	1.343	50	75816	35.1572	ug/L	97
4) 1,3-butadiene	1.416	39	40179	32.0116	ug/L	93
5) Vinyl Chloride	1.404	62	65108	32.9644	ug/L	99
6) Bromomethane	1.636	94	12117	26.3319	ug/L	94
7) Chloroethane	1.715	64	22951	46.6716	ug/L	94
8) Trichlorofluoromethane	1.818	101	69691	34.9275	ug/L	96
9) Ethyl Ether	2.026	59	43203	23.9738	ug/L	97
10) Ethanol	2.129	45	20165	440.7228	ug/L	97
11) 1,2-Dichlorotrifluoroe...	2.148	67	51219	34.9277	ug/L	94
12) 1,1-Dichloroethene	2.148	61	70997	26.0338	ug/L	97
13) Freon 113	2.172	101	38027	23.9059	ug/L	99
14) Carbon Disulfide	2.166	76	93210	20.0965	ug/L	94
15) Iodomethane	2.233	142	21878	30.2675	ug/L	98
16) Acrolein	2.349	56	93128	153.2464	ug/L	100
17) Allyl chloride	2.434	41	66509	27.8085	ug/L	89
18) Methylene Chloride	2.495	49	69383	24.7415	ug/L	98
19) Acetone	2.526	43	148323	133.5353	ug/L	94
20) Methyl acetate	2.599	43	337516	125.2567	ug/L	98
21) trans-1,2-Dichloroethene	2.593	61	72886	25.6932	ug/L	98
22) Hexane	2.648	56	38416	22.3210	ug/L	97
23) Methyl Tert Butyl Ether	2.660	73	117309	25.6207	ug/L	86
24) Tert Butyl Alcohol	2.709	59	124640	272.2383	ug/L	95
25) Acetonitrile	2.794	41	114986	251.6762	ug/L	99
26) Di-isopropyl ether	2.873	45	151273	24.2439	ug/L	96
27) Chloroprene	2.934	53	76366	29.4572	ug/L	95
28) 1,1-Dichloroethane	2.946	63	87165	24.6813	ug/L	98
29) Acrylonitrile	2.971	52	160183	134.8980	ug/L	98
30) ETBE	3.080	59	144269	25.9575	ug/L	96
31) Vinyl acetate	3.087	43	655311	163.6968	ug/L	97
32) cis-1,2-Dichloroethene	3.257	96	100143	55.3093	ug/L	98
33) 2,2-Dichloropropane	3.318	77	52752	28.1292	ug/L	97
34) Bromochloromethane	3.367	128	20641	24.8512	ug/L #	86
35) Cyclohexane	3.379	56	79365	22.2151	ug/L	96
36) Chloroform	3.404	83	83664	26.6241	ug/L	95
37) Ethyl acetate	3.464	43	438978	139.5030	ug/L	99
38) Tetrahydrofuran	3.495	42	33023	24.9440	ug/L	97
40) Carbon Tetrachloride	3.495	117	51528m	25.8975	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	64154	27.2234	ug/L	96
42) 2-Butanone	3.574	43	234023	119.7435	ug/L	100
43) 1,1-Dichloropropene	3.599	75	58215	25.7348	ug/L	96
44) tert-Butyl formate	3.660	59	128359	136.0766	ug/L #	75

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 10:33:14 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	164785	257.3826	ug/L		97
46) Methacrylonitrile	3.757	41	486283	274.3471	ug/L		99
47) Benzene	3.745	78	167982	24.5886	ug/L		75
48) TAME	3.800	73	102975	24.9344	ug/L		98
49) Isobutyl alcohol	3.842	43	86646m	452.8857	ug/L		
51) 1,2-Dichloroethane	3.855	62	72844	27.1775	ug/L		98
52) Tert Amyl Alcohol	3.903	59	98156	266.9629	ug/L		94
53) Trichloroethene	4.080	95	92883	50.6673	ug/L		98
54) Methylcyclohexane	4.080	83	59421	23.0757	ug/L		94
55) Dibromomethane	4.330	93	29759	26.1293	ug/L		98
56) 1,2-Dichloropropane	4.391	63	51472	25.8910	ug/L		94
57) Bromodichloromethane	4.422	83	54957	26.5052	ug/L		97
58) Methyl methacrylate	4.507	41	53235	26.4005	ug/L		93
59) 1,4-Dioxane	4.544	88	15187	392.3521	ug/L		91
60) 2-Chloroethyl vinyl ether	4.769	63	7032	4.6029	ug/L		89
61) cis-1,3-Dichloropropene	4.812	75	61417	25.8435	ug/L		95
64) Toluene	4.970	91	171641	24.6317	ug/L		100
65) 2-Nitropropane	5.111	41	93477	154.8937	ug/L		94
66) 4-Methyl-2-pentanone	5.202	43	433118	138.8614	ug/L		97
67) trans-1,3-Dichloropropene	5.232	75	58892	26.4128	ug/L		92
68) Tetrachloroethene	5.220	166	37980	24.4989	ug/L		99
69) Ethyl methacrylate	5.330	69	57962	23.5138	ug/L		85
70) 1,1,2-Trichloroethane	5.336	83	37786	25.5772	ug/L		95
71) Dibromochloromethane	5.458	129	40772	27.6490	ug/L		99
72) 1,3-Dichloropropane	5.525	76	76144	26.8824	ug/L		95
73) 1,2-Dibromoethane	5.623	107	43594	25.9435	ug/L		98
74) 3,3-dimethyl-1-butanol	5.738	57	736814	1391.9635	ug/L		97
75) 2-hexanone	5.763	43	464683	143.5627	ug/L		96
76) 1-Chlorohexane	5.964	91	50322m	23.1378	ug/L		
77) Ethylbenzene	6.007	91	190264	25.2213	ug/L		99
78) Chlorobenzene	5.988	112	110144	24.3984	ug/L		98
79) 1,1,1,2-Tetrachloroethane	6.031	131	37609	28.2905	ug/L		95
80) m,p-Xylene	6.104	91	298170	50.6748	ug/L		99
81) o-Xylene	6.421	91	145480	24.5055	ug/L		99
82) Styrene	6.458	104	112914	26.3329	ug/L		99
83) Bromoform	6.476	173	22680	26.0293	ug/L		95
84) Isopropylbenzene	6.653	105	165266	25.1751	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.909	53	24658	24.8060	ug/L		87
88) n-Propylbenzene	6.964	91	209761	25.0264	ug/L		97
89) Bromobenzene	6.946	156	44412	27.1031	ug/L		94
90) 1,1,2,2-Tetrachloroethane	7.013	83	74490	27.0176	ug/L		98
91) 1,3,5-Trimethylbenzene	7.116	105	144161	25.6758	ug/L		100
92) 2-Chlorotoluene	7.086	91	147931	25.4837	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.153	53	22105	26.7651	ug/L		92
94) 1,2,3-Trichloropropane	7.122	110	22043	28.3032	ug/L		96
95) Cyclohexanone	7.153	55	20700	109.2089	ug/L		98
96) 4-Chlorotoluene	7.214	91	140268	25.6485	ug/L		98
97) tert-Butylbenzene	7.366	91	81737	26.4294	ug/L		99
99) 1,2,4-Trimethylbenzene	7.421	105	147985	26.5575	ug/L		97
100) Pentachloroethane	7.384	167	23351	29.3886	ug/L	#	73
101) sec-Butylbenzene	7.500	105	158245	24.3886	ug/L		99
102) 4-Isopropyltoluene	7.610	119	133627	25.2453	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	81822	24.8531	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	155343	25.6393	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	84991	24.6620	ug/L		96
106) n-Butylbenzene	7.927	92	80108	24.0791	ug/L		96
107) Benzyl Chloride	7.915	126	15664	26.2690	ug/L		100
108) 1,2-Dichlorobenzene	8.043	146	79431	25.0581	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 10:33:14 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

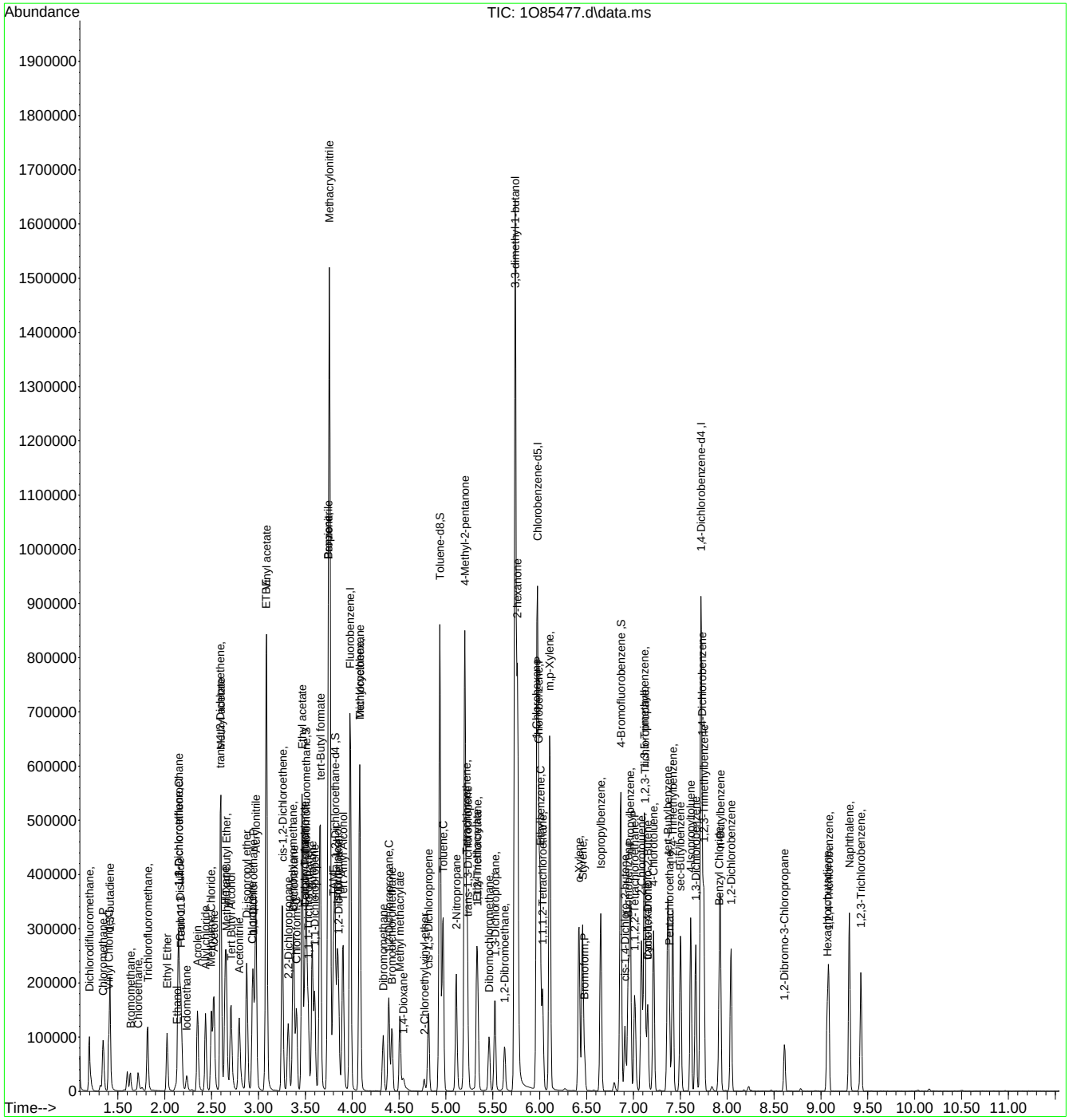
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	17329	29.4084	ug/L	95
110) Hexachlorobutadiene	9.067	225	16644	24.5746	ug/L	95
111) 1,2,4-Trichlorobenzene	9.085	180	44751	24.6574	ug/L	99
112) Naphthalene	9.305	128	176911	24.8012	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	45077	25.3900	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 10:33:14 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

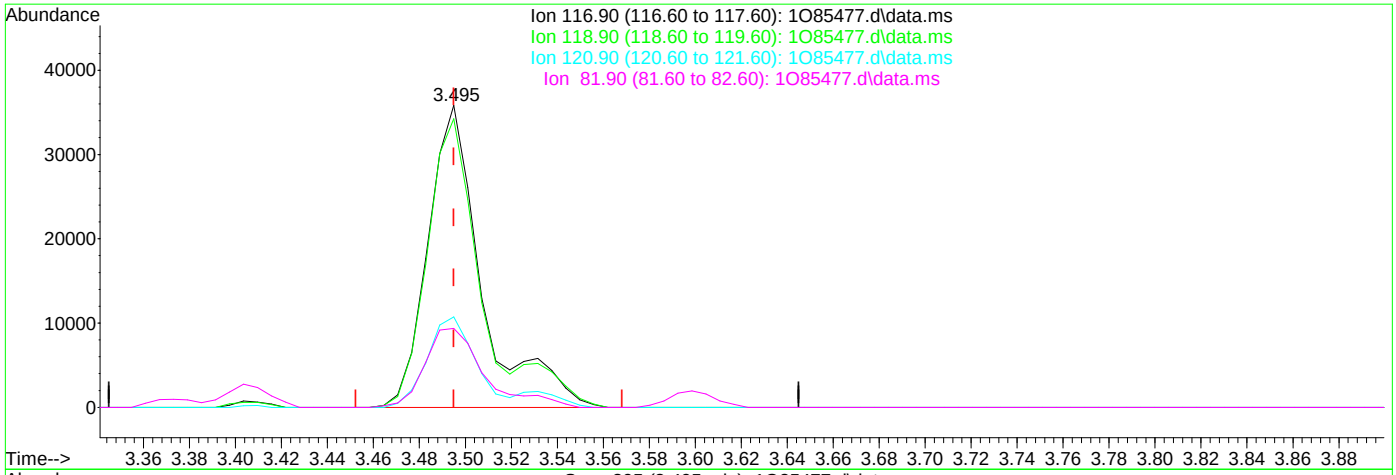
Sample Number: FC16592-1MS
Lab FileID: 1O85477.D
Injection Time: 07/01/24 18:56
Method: SW846 8260D
Analyst approved: 07/02/24 06:47 Lotus Acosta
Supervisor approved: 07/02/24 08:18 Karen Watson

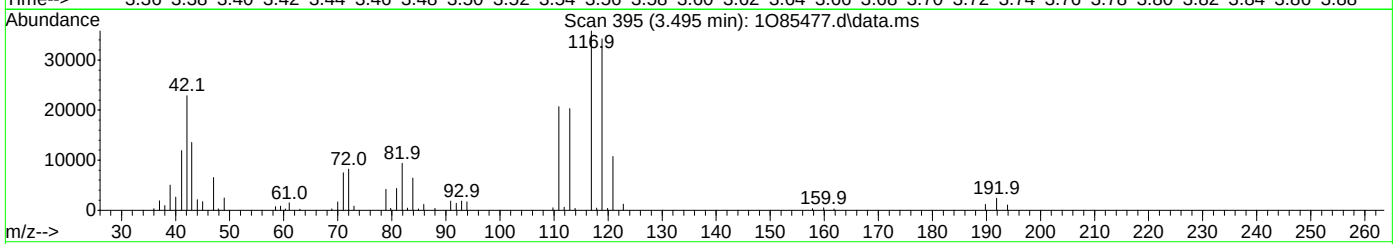
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Overlapping peak
1-Chlorohexane	544-10-5		5.96	Overlapping peak

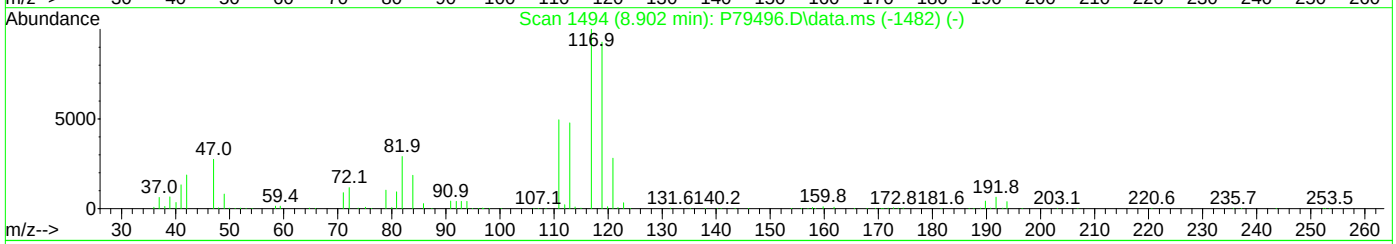
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 29.42ug/L

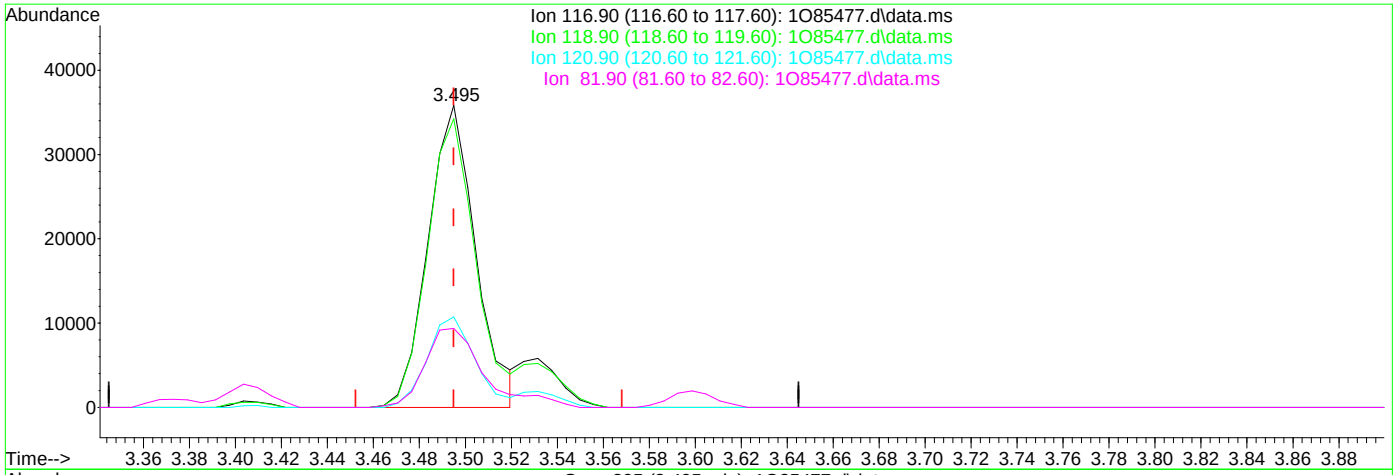
response 58544

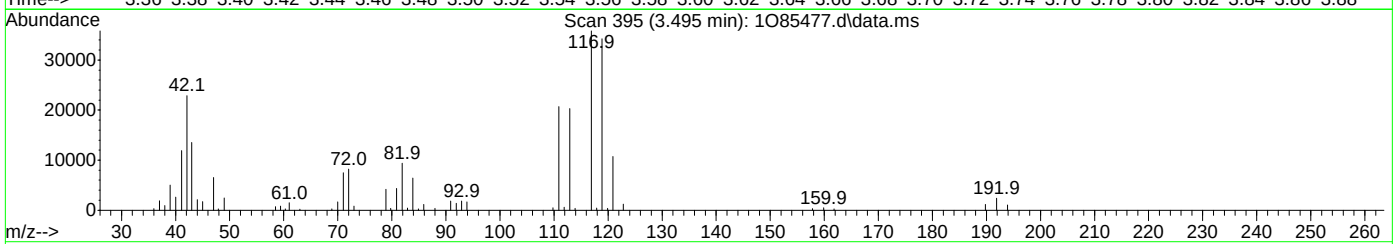
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.58
120.90	32.60	29.96
81.90	27.90	26.10

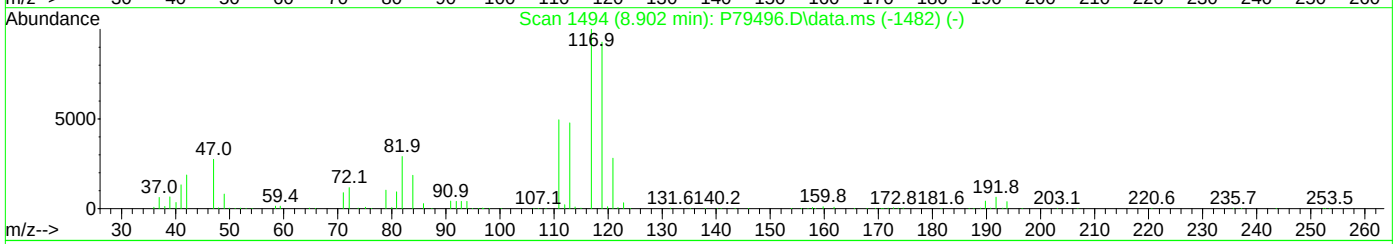
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 25.90ug/L m

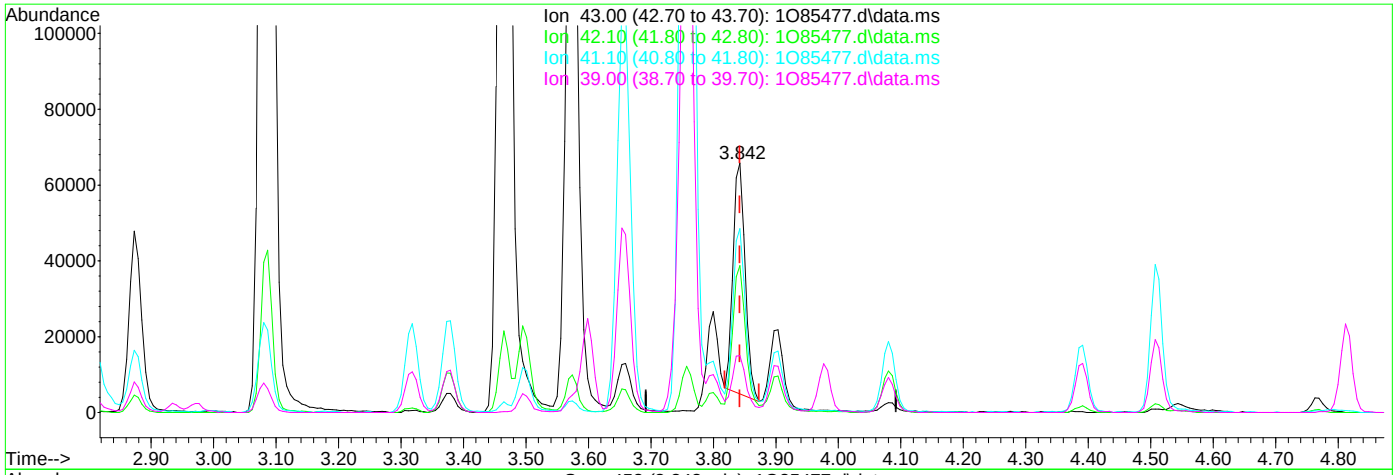
response 51528

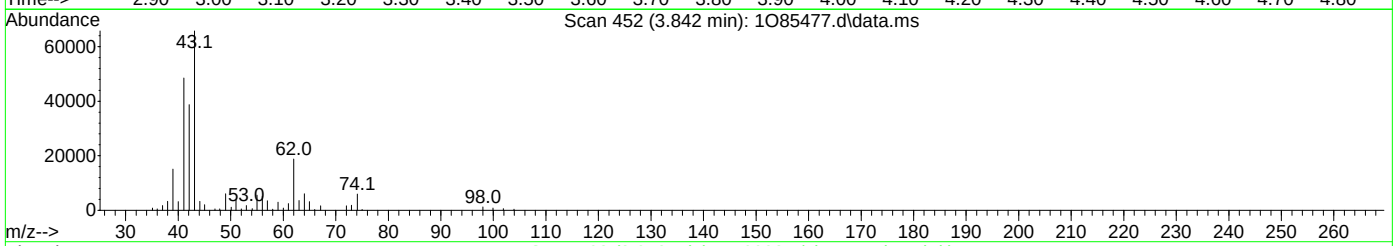
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.58
120.90	32.60	29.96
81.90	27.90	26.10

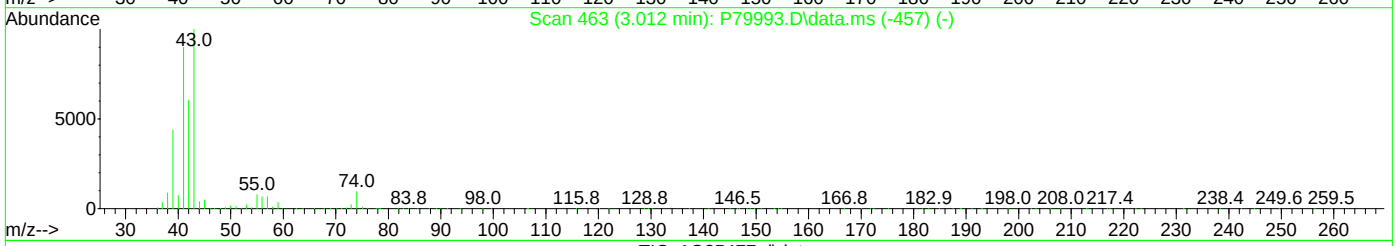
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 426.39ug/L

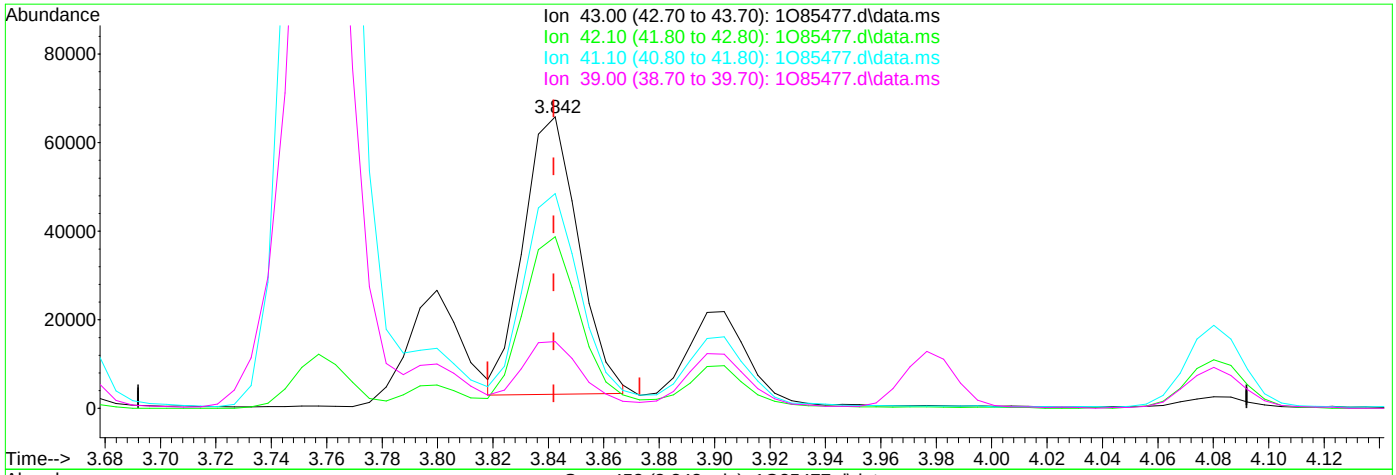
response 81576

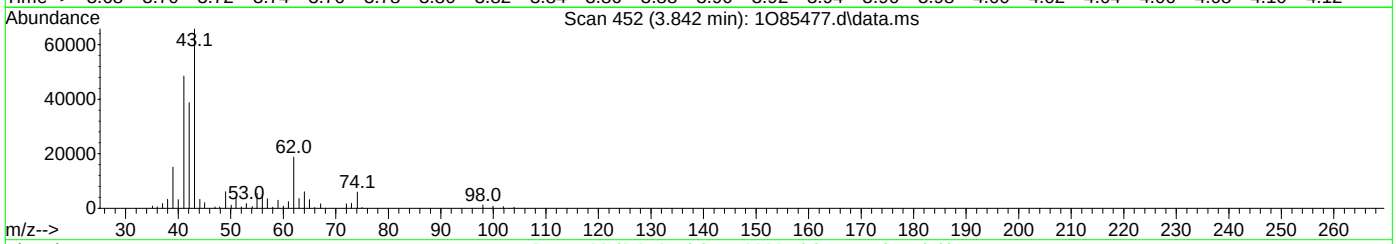
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.58
41.10	75.50	72.31
39.00	27.60	21.76

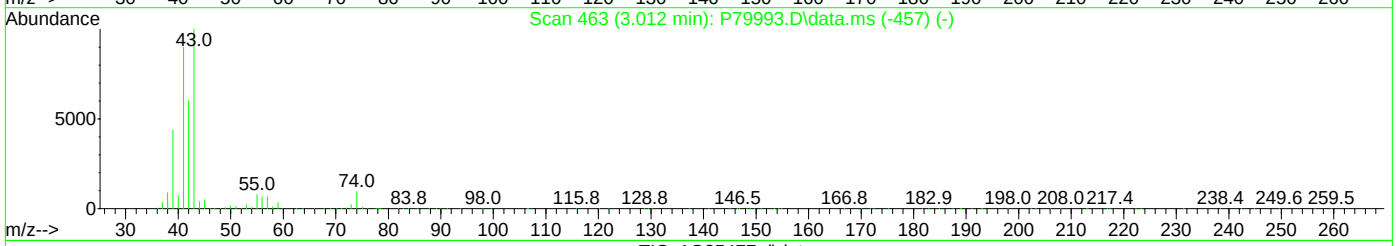
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 452.89ug/L m

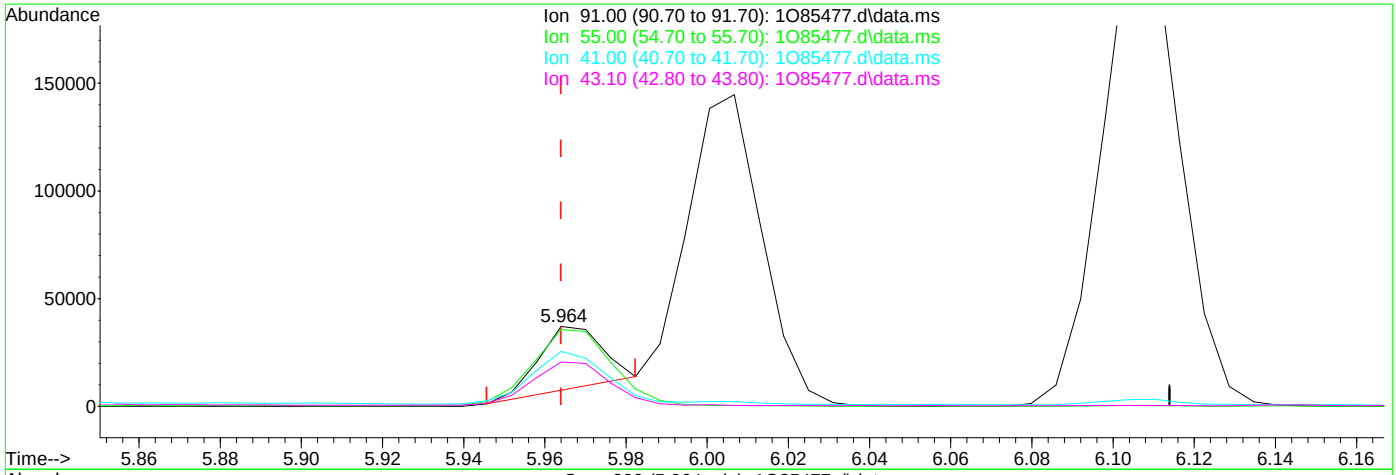
response 86646

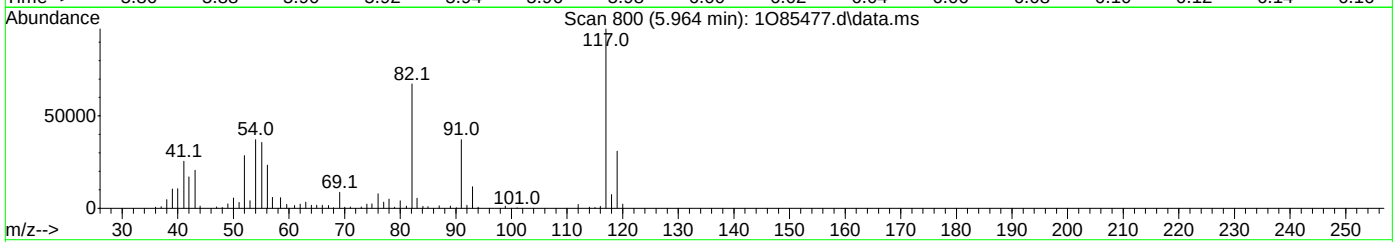
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.89
41.10	75.50	73.68
39.00	27.60	22.87

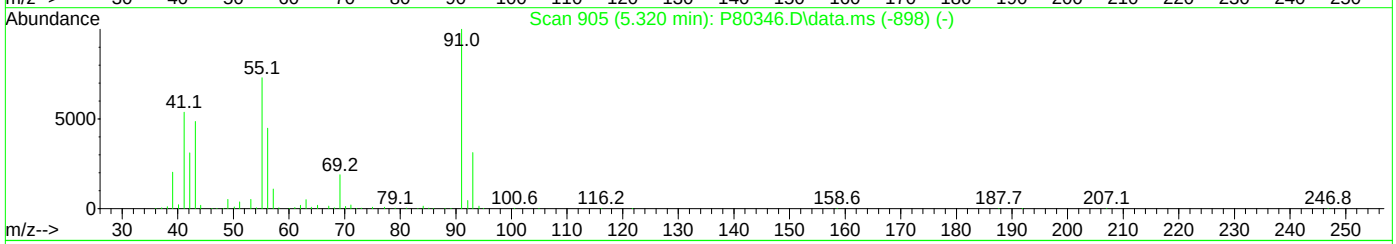
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(76) 1-Chlorohexane

5.964min (-0.000) 15.51ug/L

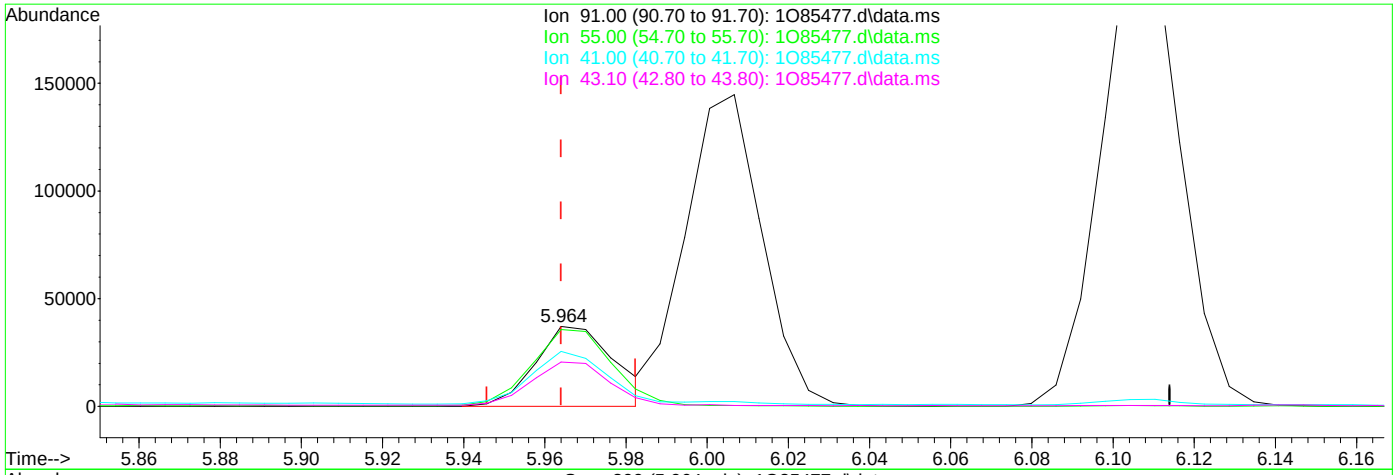
response 33733

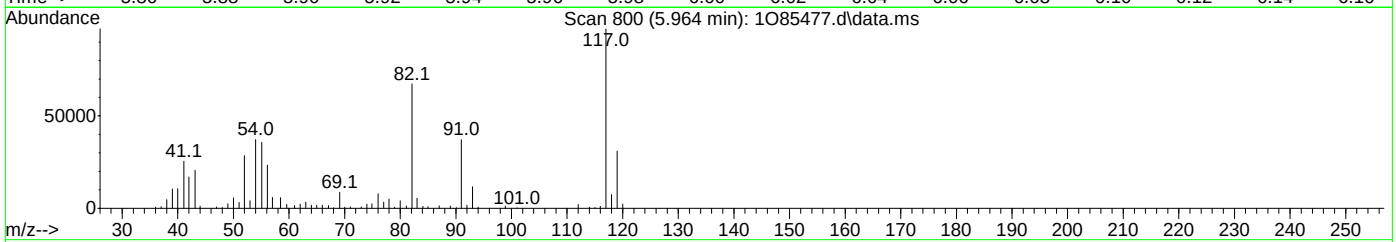
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	93.01
41.00	70.80	63.54
43.10	55.10	53.41

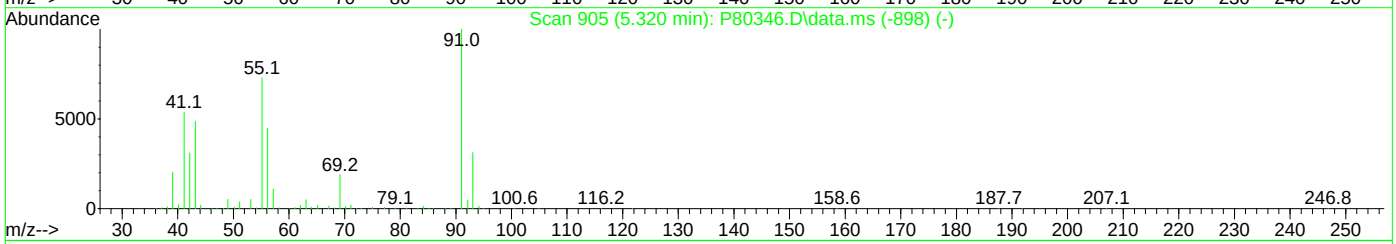
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85477.d
Acq On : 1 Jul 2024 6:56 pm
Operator : jeniferw
Sample : FC16592-1MS Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 09:32:00 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85477.d\data.ms

(76) 1-Chlorohexane

5.964min (-0.000) 23.14ug/L m

response 50322

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	95.96
41.00	70.80	68.52
43.10	55.10	55.55

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 08:18

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 10:34:39 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	438343	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	294001	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	157058	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	117109	51.99	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.98%			
50) 1,2-Dichloroethane-d4	3.818	65	158451	53.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.78%			
63) Toluene-d8	4.934	98	428595	50.38	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.76%			
86) 4-Bromofluorobenzene	6.866	174	112527	51.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	67001	43.4175	ug/L	99
3) Chloromethane	1.343	50	71606	32.0876	ug/L	97
4) 1,3-butadiene	1.416	39	39735	30.5925	ug/L	90
5) Vinyl Chloride	1.404	62	60769	29.7322	ug/L	98
6) Bromomethane	1.636	94	12861	27.0083	ug/L	94
7) Chloroethane	1.715	64	19000	37.3370	ug/L	97
8) Trichlorofluoromethane	1.819	101	67037	32.4669	ug/L	98
9) Ethyl Ether	2.026	59	42384	22.7279	ug/L	98
10) Ethanol	2.123	45	27226	575.0238	ug/L	93
11) 1,2-Dichlorotrifluoroe...	2.148	67	50847	33.5073	ug/L	98
12) 1,1-Dichloroethene	2.148	61	70130	24.8505	ug/L	98
13) Freon 113	2.178	101	36925	22.4320	ug/L	94
14) Carbon Disulfide	2.166	76	90821	18.9225	ug/L	94
15) Iodomethane	2.233	142	27806	34.1921	ug/L	98
16) Acrolein	2.349	56	93645	148.9118	ug/L	97
17) Allyl chloride	2.434	41	67631	27.3261	ug/L	87
18) Methylene Chloride	2.501	49	68358	23.5557	ug/L	97
19) Acetone	2.526	43	146881	127.7874	ug/L	97
20) Methyl acetate	2.599	43	336445	120.6578	ug/L	98
21) trans-1,2-Dichloroethene	2.593	61	71953	24.5108	ug/L	96
22) Hexane	2.648	56	37910	21.2858	ug/L	98
23) Methyl Tert Butyl Ether	2.660	73	116114	24.5063	ug/L	86
24) Tert Butyl Alcohol	2.709	59	133488	281.7531	ug/L	85
25) Acetonitrile	2.794	41	118275	250.1641	ug/L	97
26) Di-isopropyl ether	2.873	45	147125	22.7857	ug/L	95
27) Chloroprene	2.934	53	73915	27.5524	ug/L	96
28) 1,1-Dichloroethane	2.946	63	86989	23.8026	ug/L	98
29) Acrylonitrile	2.971	52	154576	125.7957	ug/L	99
30) ETBE	3.080	59	139635	24.2783	ug/L	97
31) Vinyl acetate	3.087	43	645815	155.8962	ug/L	98
32) cis-1,2-Dichloroethene	3.257	96	96650	51.5839	ug/L	99
33) 2,2-Dichloropropane	3.318	77	51947	26.7679	ug/L	99
34) Bromochloromethane	3.367	128	20165	23.4612	ug/L	96
35) Cyclohexane	3.379	56	79202	21.4234	ug/L	95
36) Chloroform	3.404	83	81157	24.9573	ug/L	94
37) Ethyl acetate	3.465	43	434707	133.4972	ug/L	99
38) Tetrahydrofuran	3.495	42	30036	21.9243	ug/L	97
40) Carbon Tetrachloride	3.495	117	51585m	25.0537	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	63763	26.1470	ug/L	98
42) 2-Butanone	3.574	43	233412	115.4121	ug/L	99
43) 1,1-Dichloropropene	3.599	75	57129	24.4049	ug/L	95
44) tert-Butyl formate	3.660	59	125135	128.7425	ug/L #	73

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 10:34:39 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	3.745	54	167750	253.1971	ug/L	94
46) Methacrylonitrile	3.757	41	479403	261.3646	ug/L	99
47) Benzene	3.745	78	165015	23.3415	ug/L	78
48) TAME	3.800	73	99555	23.2951	ug/L	98
49) Isobutyl alcohol	3.842	43	101313m	511.7289	ug/L	
51) 1,2-Dichloroethane	3.855	62	71315	25.7118	ug/L	99
52) Tert Amyl Alcohol	3.903	59	103282	271.1002	ug/L	93
53) Trichloroethene	4.080	95	92658	48.8438	ug/L	100
54) Methylcyclohexane	4.080	83	59773	22.4520	ug/L	95
55) Dibromomethane	4.330	93	28542	24.2175	ug/L	99
56) 1,2-Dichloropropane	4.391	63	50974	24.7777	ug/L	95
57) Bromodichloromethane	4.422	83	54184	25.2531	ug/L	98
58) Methyl methacrylate	4.507	41	52846	25.3257	ug/L	94
59) 1,4-Dioxane	4.544	88	20061	500.8311	ug/L	94
60) 2-Chloroethyl vinyl ether	4.769	63	5760	3.6434	ug/L	95
61) cis-1,3-Dichloropropene	4.812	75	61054	24.8263	ug/L	93
64) Toluene	4.970	91	166939	23.4809	ug/L	97
65) 2-Nitropropane	5.111	41	90950	148.2935	ug/L	93
66) 4-Methyl-2-pentanone	5.202	43	427521	134.3434	ug/L	97
67) trans-1,3-Dichloropropene	5.226	75	57794	25.4053	ug/L	94
68) Tetrachloroethene	5.226	166	36672	23.1852	ug/L	94
69) Ethyl methacrylate	5.330	69	58584	23.2939	ug/L	88
70) 1,1,2-Trichloroethane	5.336	83	36310	24.0897	ug/L	96
71) Dibromochloromethane	5.458	129	40152	26.7459	ug/L	100
72) 1,3-Dichloropropane	5.525	76	75267	26.0447	ug/L	92
73) 1,2-Dibromoethane	5.623	107	43432	25.3335	ug/L	99
74) 3,3-dimethyl-1-butanol	5.738	57	739293	1369.9315	ug/L	98
75) 2-hexanone	5.763	43	453866	137.4345	ug/L	95
76) 1-Chlorohexane	5.970	91	50633m	22.8182	ug/L	
77) Ethylbenzene	6.007	91	185659	24.1218	ug/L	99
78) Chlorobenzene	5.988	112	108525	23.5620	ug/L	97
79) 1,1,1,2-Tetrachloroethane	6.031	131	36465	26.8849	ug/L	98
80) m,p-Xylene	6.104	91	292396	48.7060	ug/L	99
81) o-Xylene	6.421	91	143596	23.7075	ug/L	100
82) Styrene	6.458	104	109814	25.1011	ug/L	98
83) Bromoform	6.476	173	23269	26.1629	ug/L	97
84) Isopropylbenzene	6.653	105	164338	24.5363	ug/L	98
87) cis-1,4-Dichloro-2-butene	6.909	53	25065	25.0339	ug/L	86
88) n-Propylbenzene	6.964	91	207137	24.5354	ug/L	97
89) Bromobenzene	6.946	156	42766	25.9106	ug/L	93
90) 1,1,2,2-Tetrachloroethane	7.013	83	73313	26.3992	ug/L	99
91) 1,3,5-Trimethylbenzene	7.116	105	143334	25.3447	ug/L	100
92) 2-Chlorotoluene	7.086	91	144049	24.6362	ug/L	98
93) trans-1,4-Dichloro-2-B...	7.153	53	20921	25.1491	ug/L	93
94) 1,2,3-Trichloropropane	7.116	110	22210	28.3122	ug/L	96
95) Cyclohexanone	7.153	55	23734	124.3139	ug/L	96
96) 4-Chlorotoluene	7.214	91	136487	24.7774	ug/L	97
97) tert-Butylbenzene	7.366	91	81752	26.2439	ug/L	99
99) 1,2,4-Trimethylbenzene	7.421	105	145206	25.8711	ug/L	99
100) Pentachloroethane	7.384	167	23573	29.4543	ug/L	89
101) sec-Butylbenzene	7.500	105	158706	24.2836	ug/L	99
102) 4-Isopropyltoluene	7.610	119	133591	25.0567	ug/L	98
103) 1,3-Dichlorobenzene	7.665	146	80745	24.3493	ug/L	98
104) 1,2,3-Trimethylbenzene	7.750	105	151673	24.8533	ug/L	98
105) 1,4-Dichlorobenzene	7.732	146	83830	24.1499	ug/L	96
106) n-Butylbenzene	7.927	92	79428	23.7028	ug/L	96
107) Benzyl Chloride	7.915	126	15034	25.2037	ug/L	96
108) 1,2-Dichlorobenzene	8.043	146	78159	24.4793	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 10:34:39 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

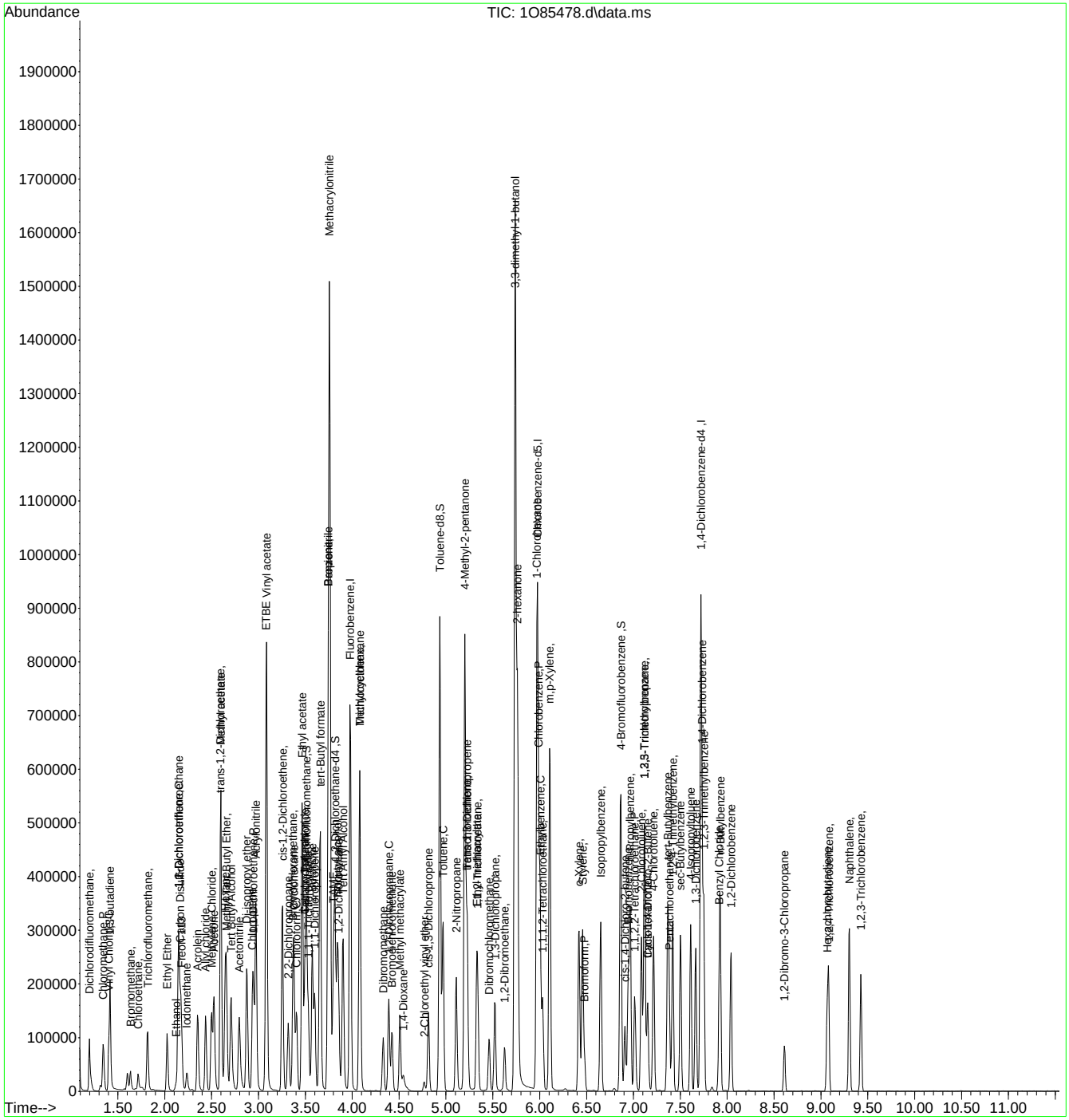
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	16217	27.4924	ug/L	95
110) Hexachlorobutadiene	9.067	225	17134	25.1159	ug/L	96
111) 1,2,4-Trichlorobenzene	9.085	180	44658	24.4289	ug/L	97
112) Naphthalene	9.305	128	169821	23.6358	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	44437	24.8493	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 10:34:39 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: FC16592-1MSD
Lab FileID: 1O85478.D
Injection Time: 07/01/24 19:21

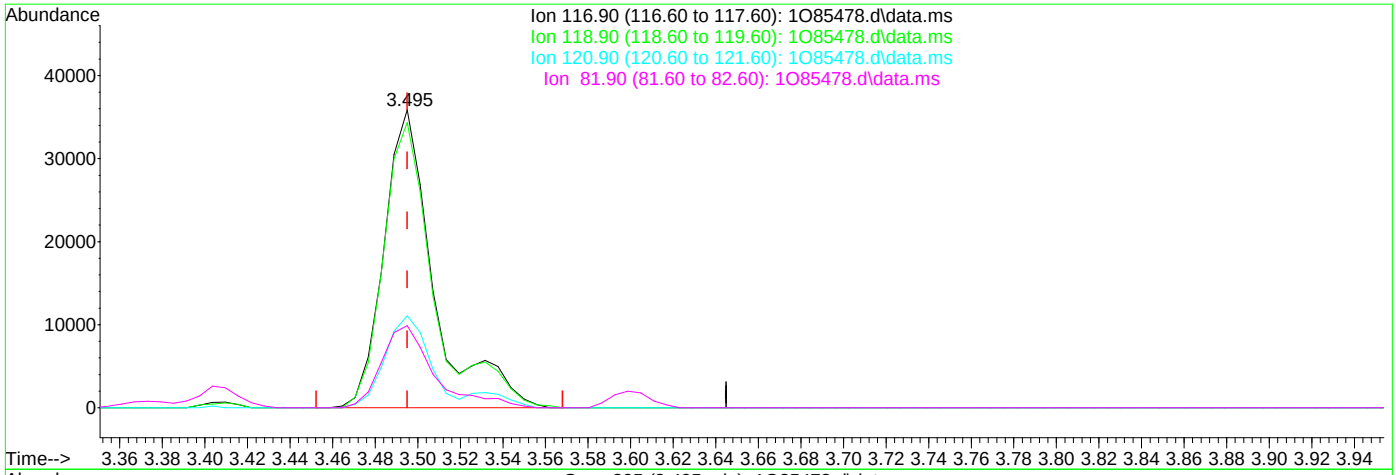
Method: SW846 8260D
Analyst approved: 07/02/24 06:47 Lotus Acosta
Supervisor approved: 07/02/24 08:18 Karen Watson

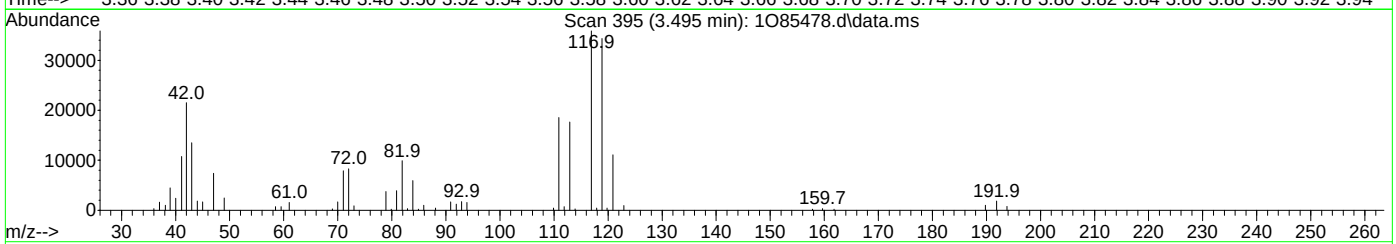
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.50	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Overlapping peak
1-Chlorohexane	544-10-5		5.97	Overlapping peak

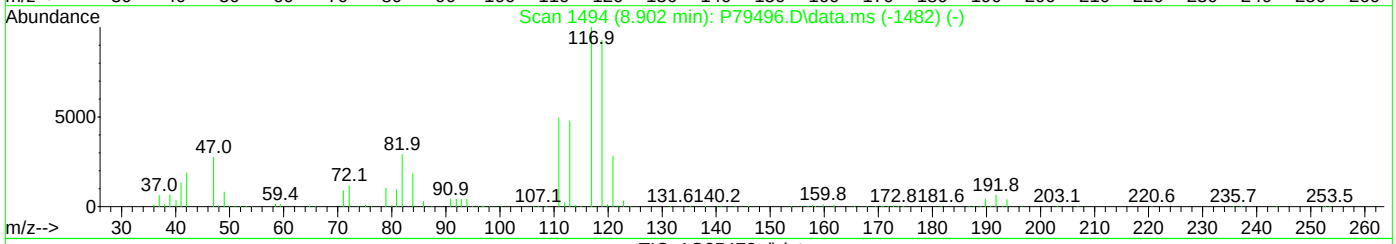
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (0.000) 28.53ug/L

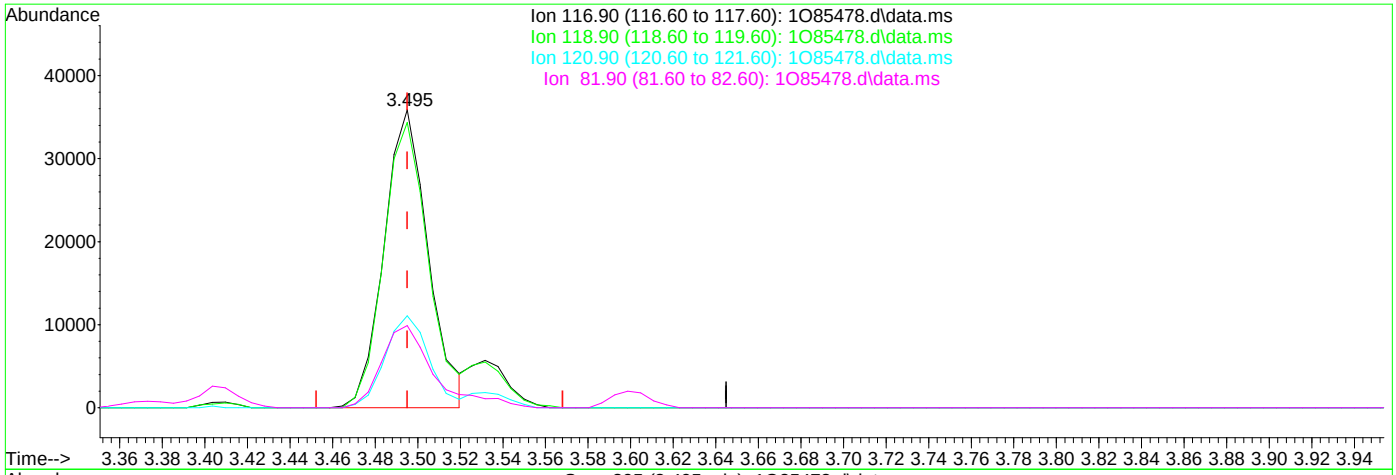
response 58735

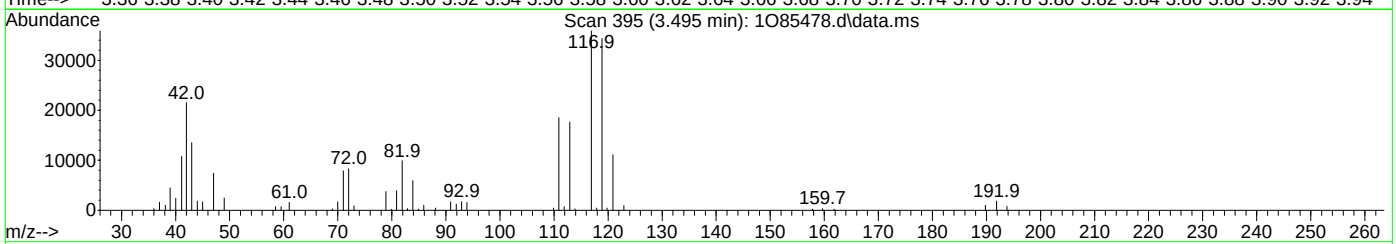
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.72
120.90	32.60	30.89
81.90	27.90	27.53

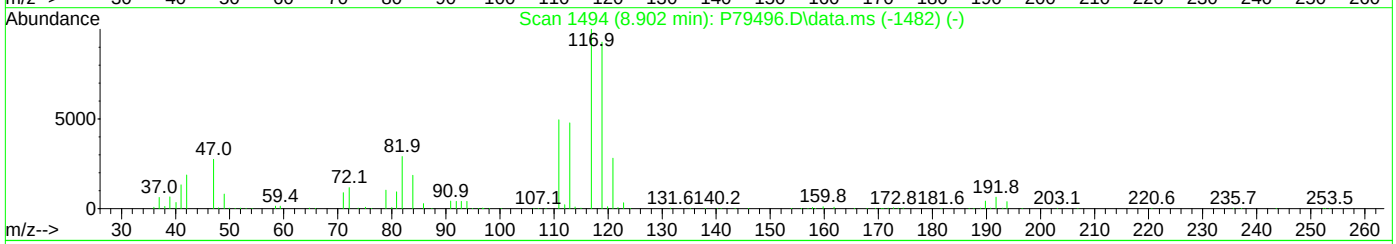
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (0.000) 25.05ug/L m

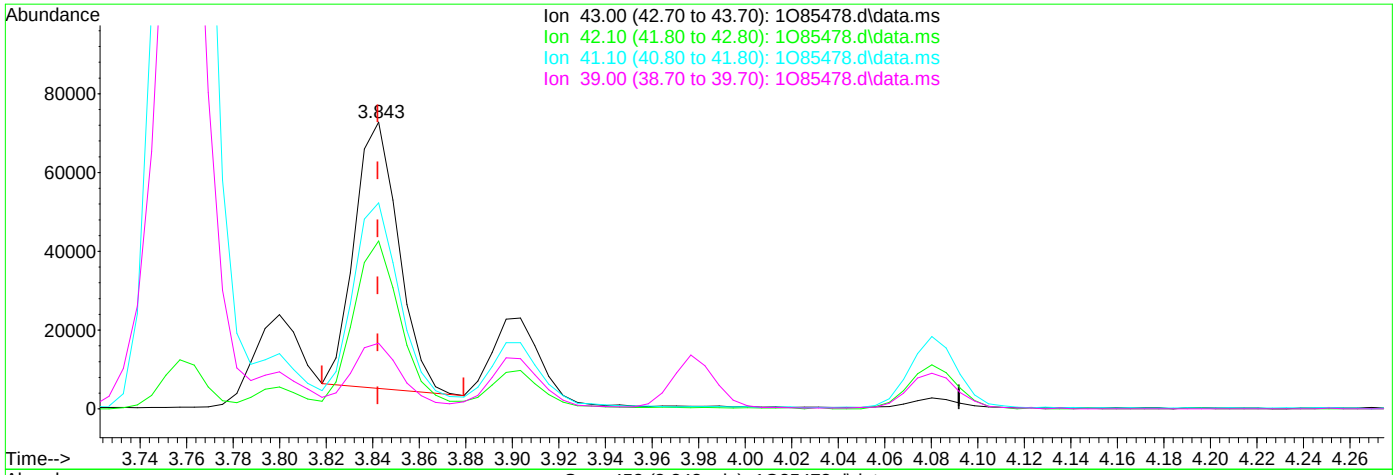
response 51585

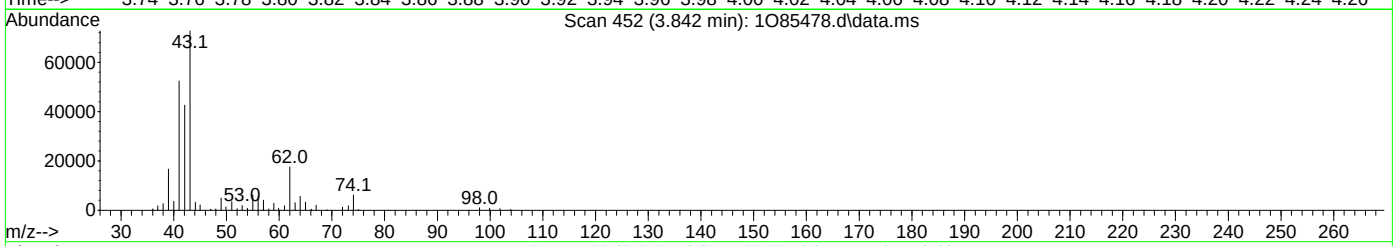
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.72
120.90	32.60	30.89
81.90	27.90	27.53

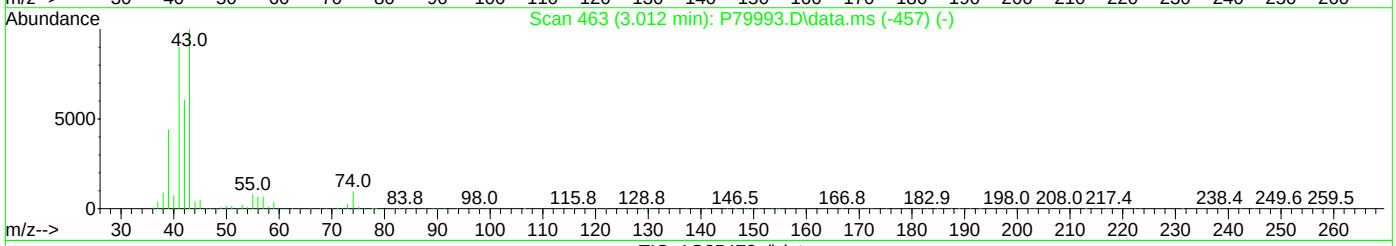
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 447.13ug/L

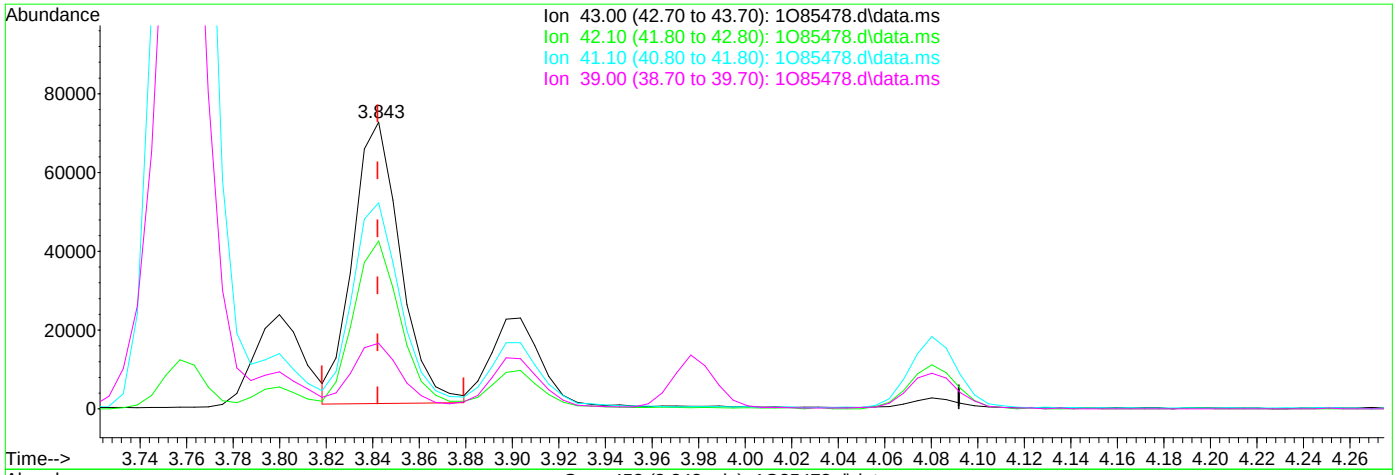
response 88524

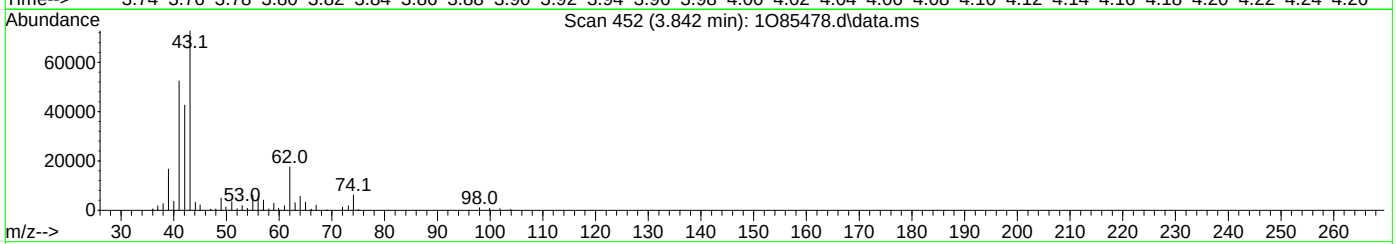
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.56
41.10	75.50	71.04
39.00	27.60	21.39

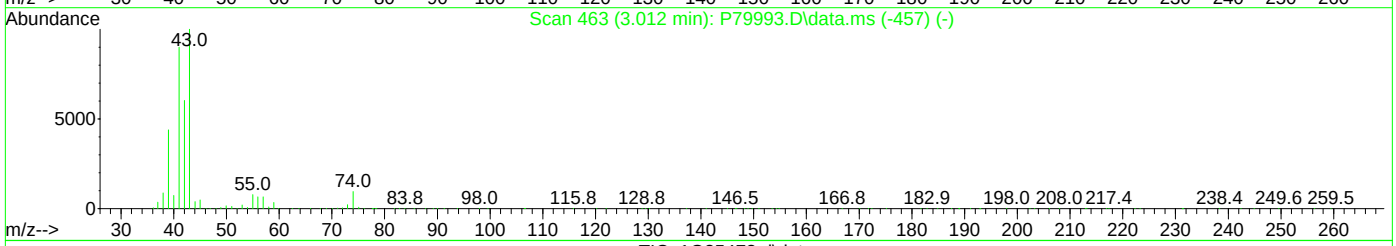
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 511.73ug/L m

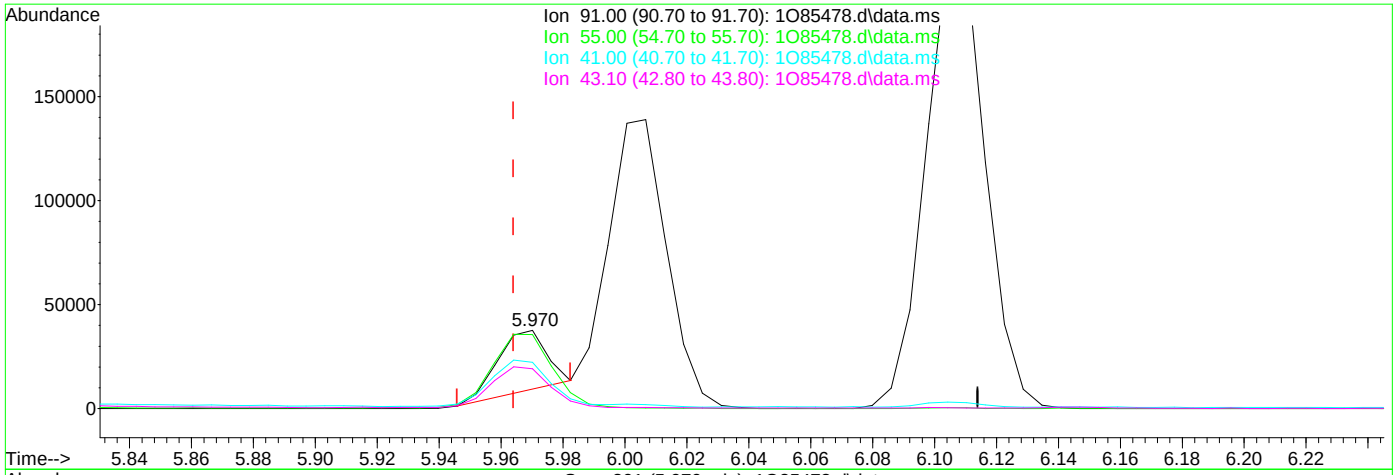
response 101313

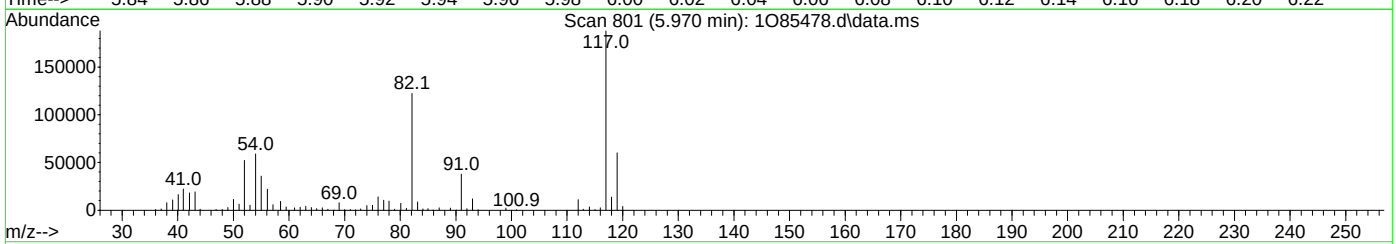
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.53
41.10	75.50	71.91
39.00	27.60	22.90

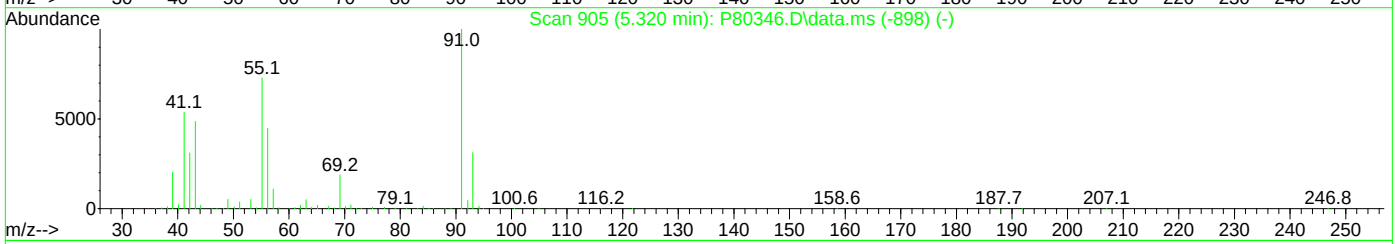
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(76) 1-Chlorohexane

5.970min (+0.006) 15.44ug/L

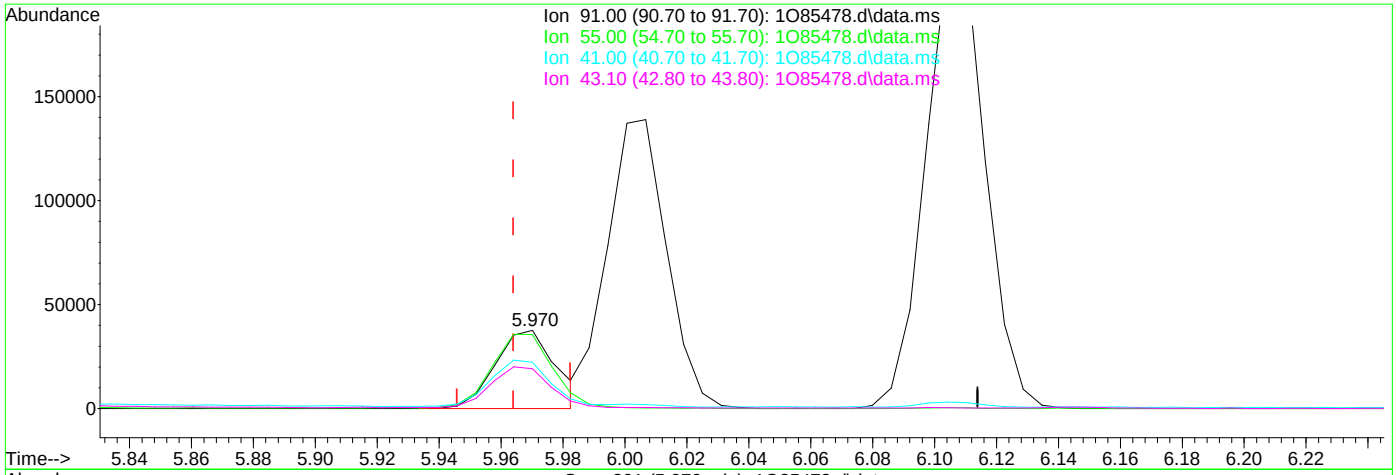
response 34251

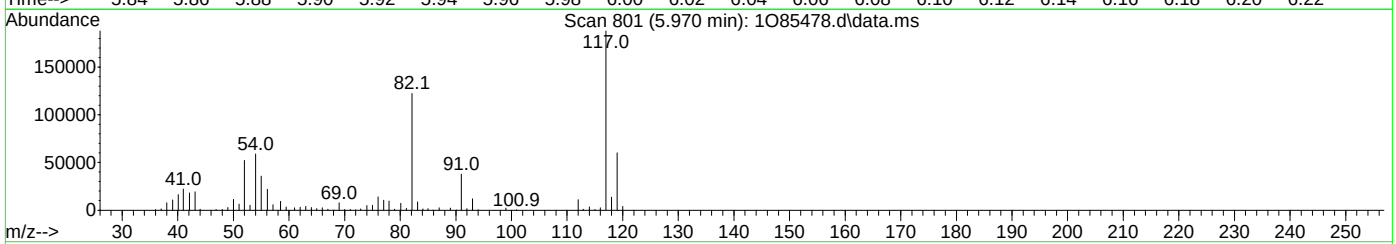
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	92.62
41.00	70.80	55.23
43.10	55.10	48.79

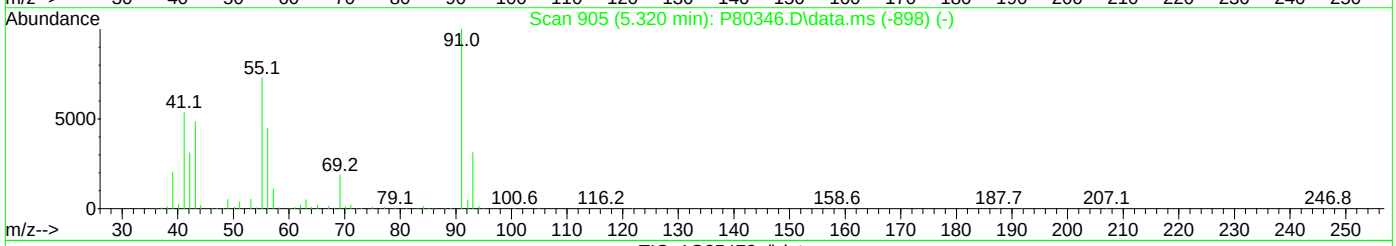
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85478.d
Acq On : 1 Jul 2024 7:21 pm
Operator : jeniferw
Sample : FC16592-1MSD Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,10
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 09:32:06 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85478.d\data.ms

(76) 1-Chlorohexane

5.970min (+0.006) 22.82ug/L m

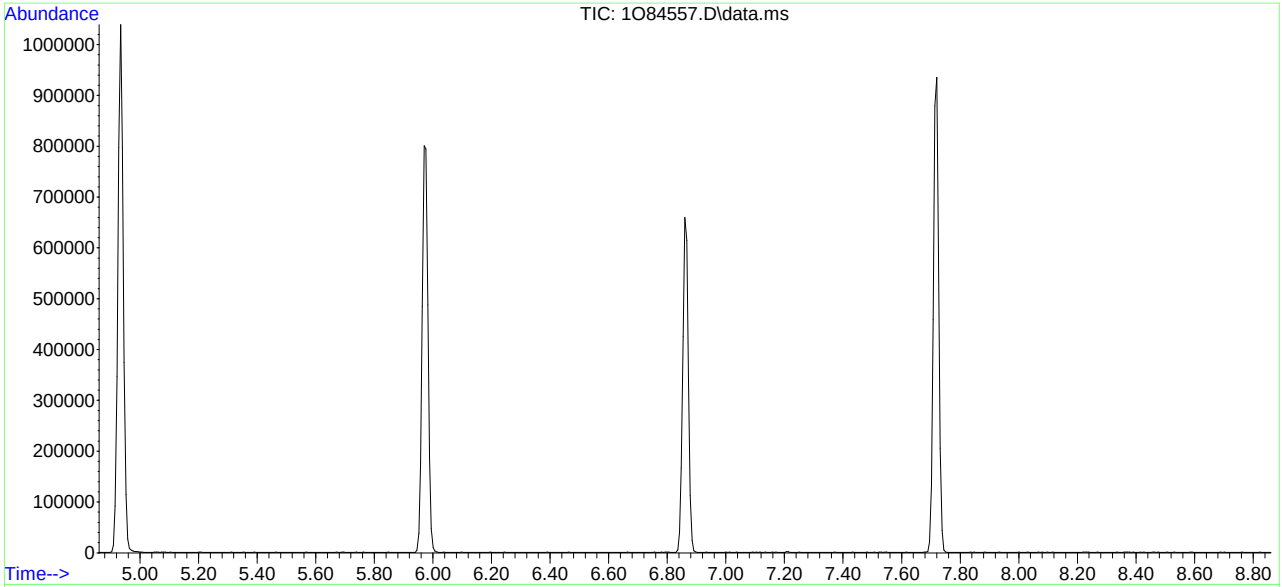
response 50633

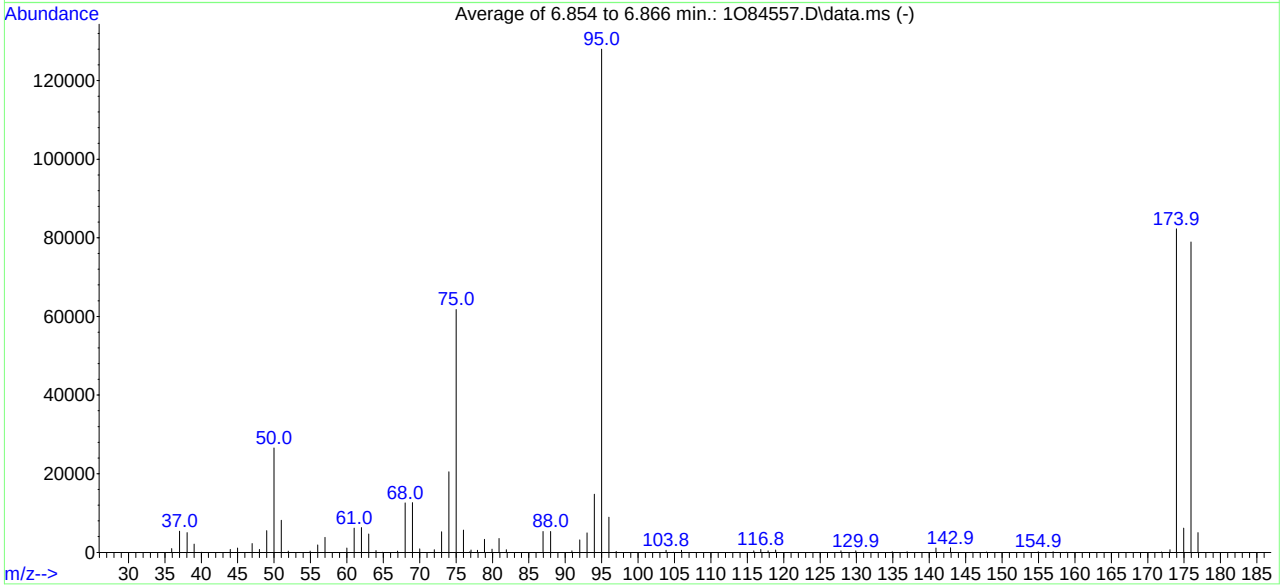
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	94.44
41.00	70.80	59.17
43.10	55.10	50.79

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\060224\1O84557.D Vial: 1
Acq On : 2 Jun 2024 9:01 am Operator: jeniferw
Sample : BFB Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,, Multiplr: 1.00
MS Integration Params: big.p

Method : C:\msdchem\1\met...O3054_06022024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B





AutoFind: Scans 946, 947, 948; Background Corrected with Scan 940

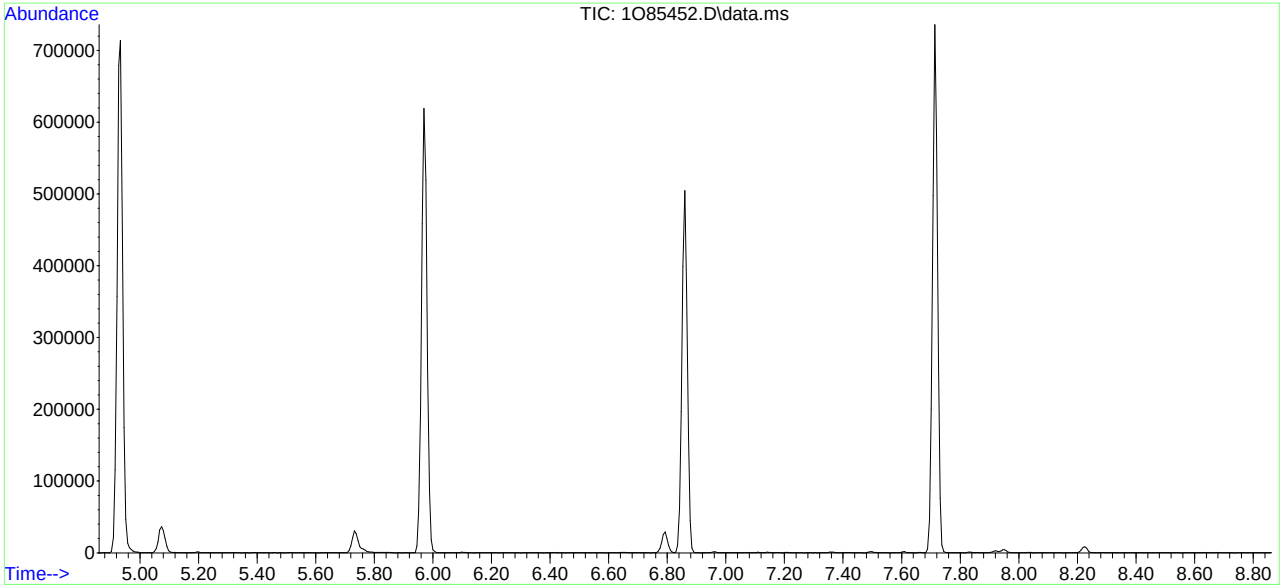
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	127955	PASS
96	95	5	9	7.0	8968	PASS
173	174	0.00	2	0.8	675	PASS
174	95	50	200	64.3	82296	PASS
175	174	5	9	7.5	6159	PASS
176	174	95	105	96.0	78965	PASS
177	176	5	10	6.4	5049	PASS

1O84557.D V1O3054_06022024.M Sun Jun 02 11:37:10 2024

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\070124\1O85452.D          Vial: 1
Acq On    :  1 Jul 2024   8:19 am                    Operator: jeniferw
Sample    : BFB                                      Inst    : MSVOA12-O
Misc      : MS56941,V1O3089,,,,,                     Multiplr: 1.00
MS Integration Params: big.p

Method    : C:\msdchem\1\met...O3054_06022024.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 946, 947, 948; Background Corrected with Scan 939

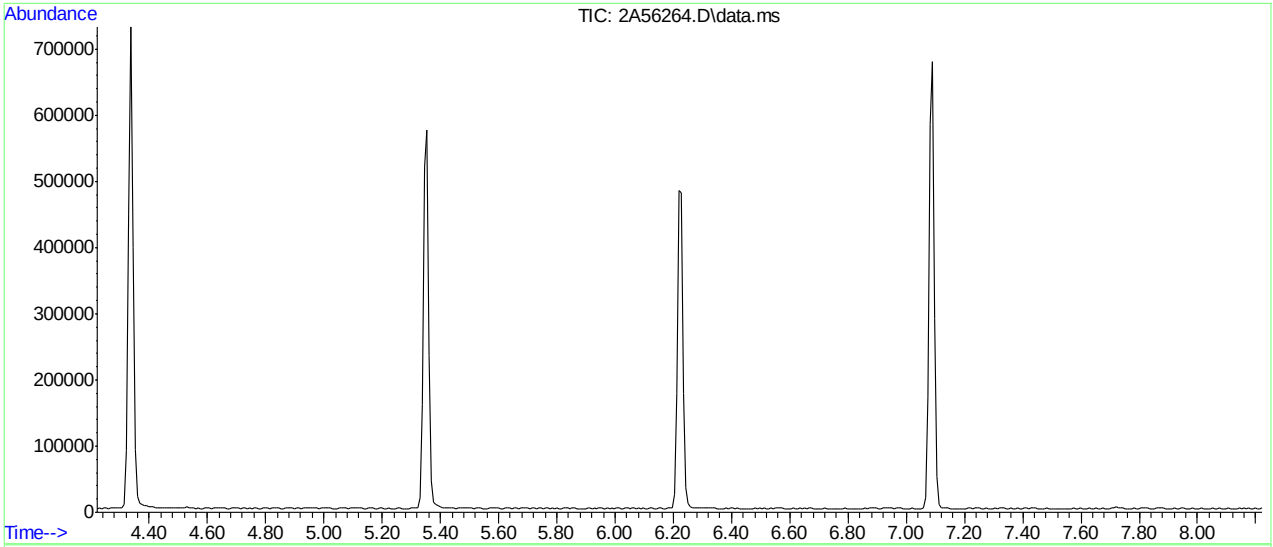
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	93963	PASS
96	95	5	9	6.5	6080	PASS
173	174	0.00	2	0.8	508	PASS
174	95	50	200	66.0	61989	PASS
175	174	5	9	7.4	4574	PASS
176	174	95	105	95.4	59112	PASS
177	176	5	10	6.8	3993	PASS

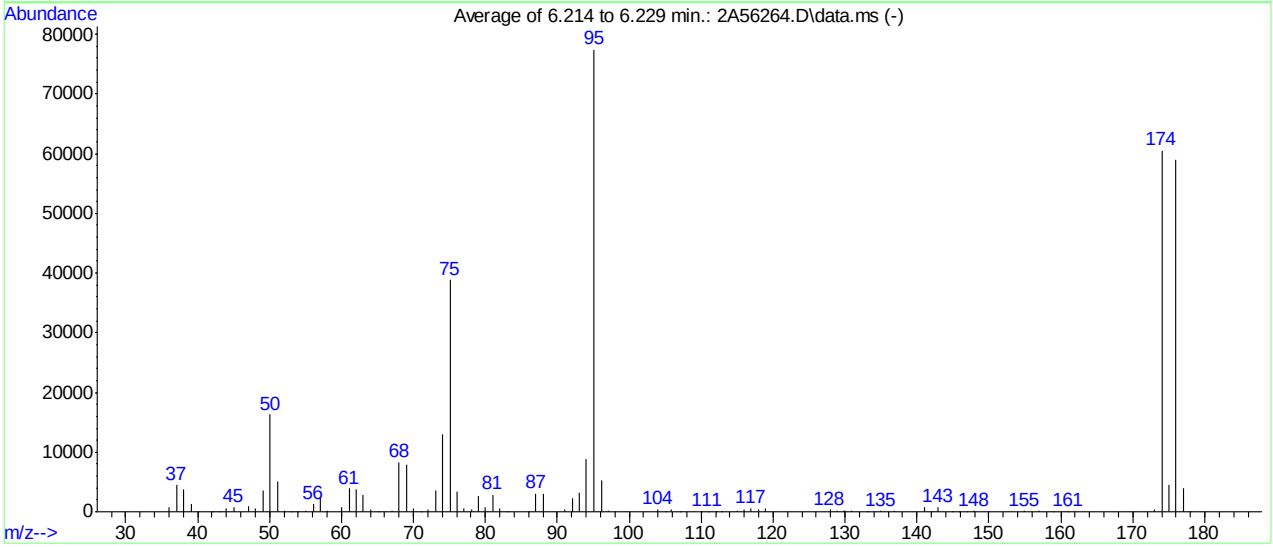
1O85452.D V1O3054_06022024.M Mon Jul 01 08:59:13 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\06-25-2024\2A56264.D Vial: 51
Acq On : 25 Jun 2024 7:28 am Operator: jeniferw
Sample : BFB Inst : MSVOA17
Misc : MS56892,V2A1910,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B





AutoFind: Scans 796, 797, 798; Background Corrected with Scan 791

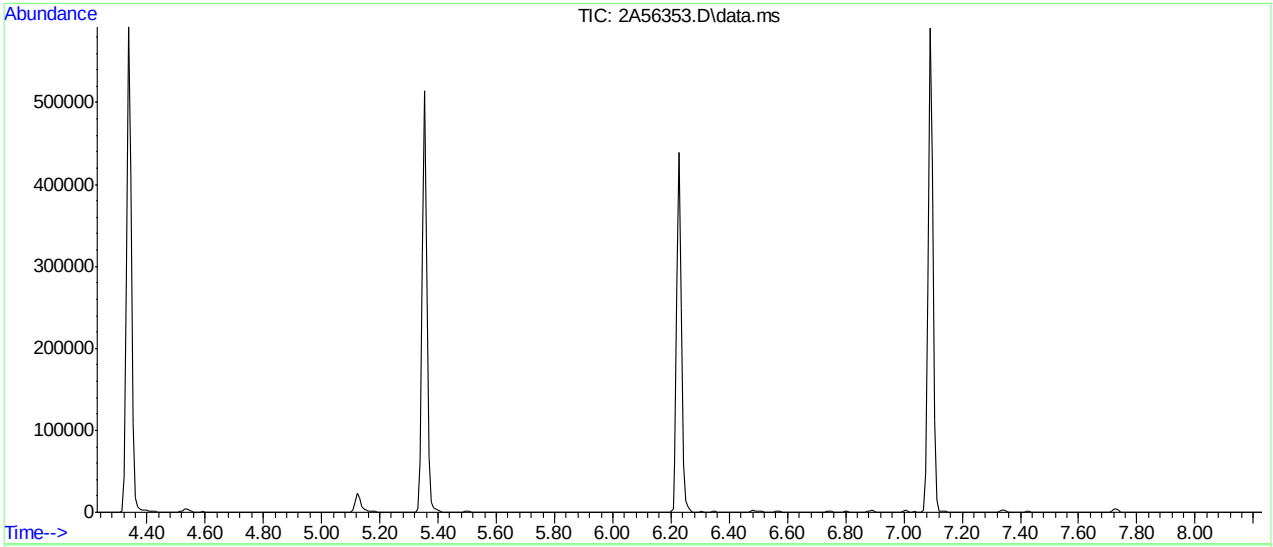
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	77464	PASS
96	95	5	9	6.8	5256	PASS
173	174	0.00	2	0.7	451	PASS
174	95	50	200	78.2	60557	PASS
175	174	5	9	7.4	4463	PASS
176	174	95	105	97.4	58979	PASS
177	176	5	10	6.6	3865	PASS

2A56264.D V2A1910_06252024.M Tue Jun 25 11:23:07 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\06-27-2024\2A56353.D Vial: 1
Acq On : 27 Jun 2024 7:38 am Operator: jeniferw
Sample : BFB Inst : MSVOA17
Misc : MS56917,V2A1913,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\1\MET...A1910_06252024.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 797, 798, 799; Background Corrected with Scan 792

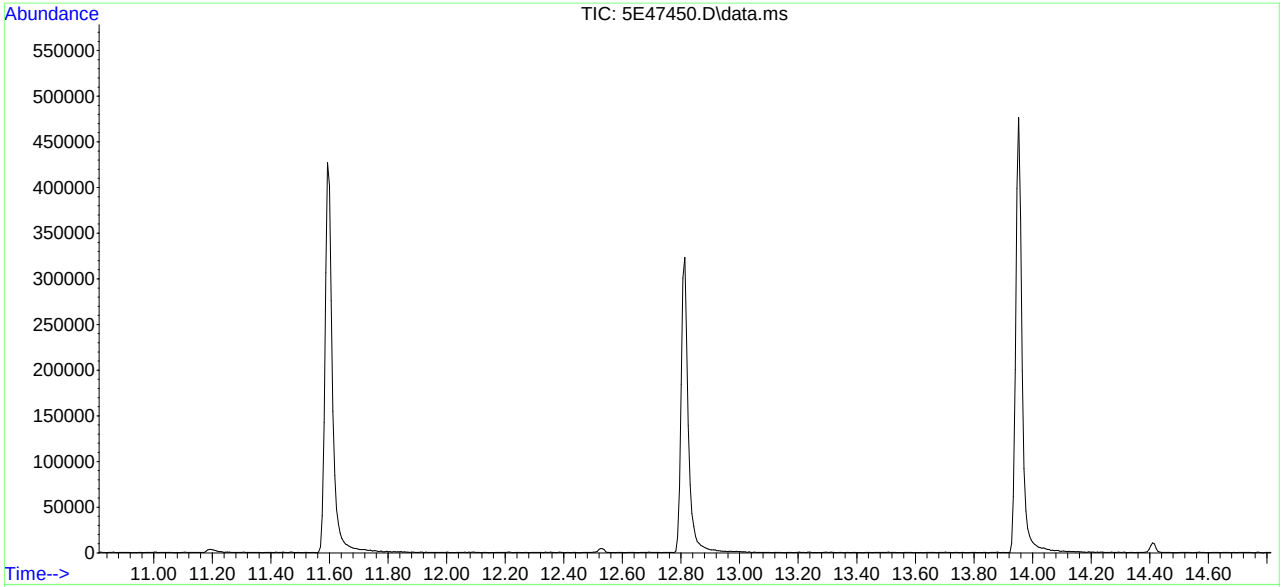
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	63307	PASS
96	95	5	9	6.5	4146	PASS
173	174	0.00	2	0.8	448	PASS
174	95	50	200	85.4	54045	PASS
175	174	5	9	7.5	4071	PASS
176	174	95	105	97.7	52795	PASS
177	176	5	10	6.2	3287	PASS

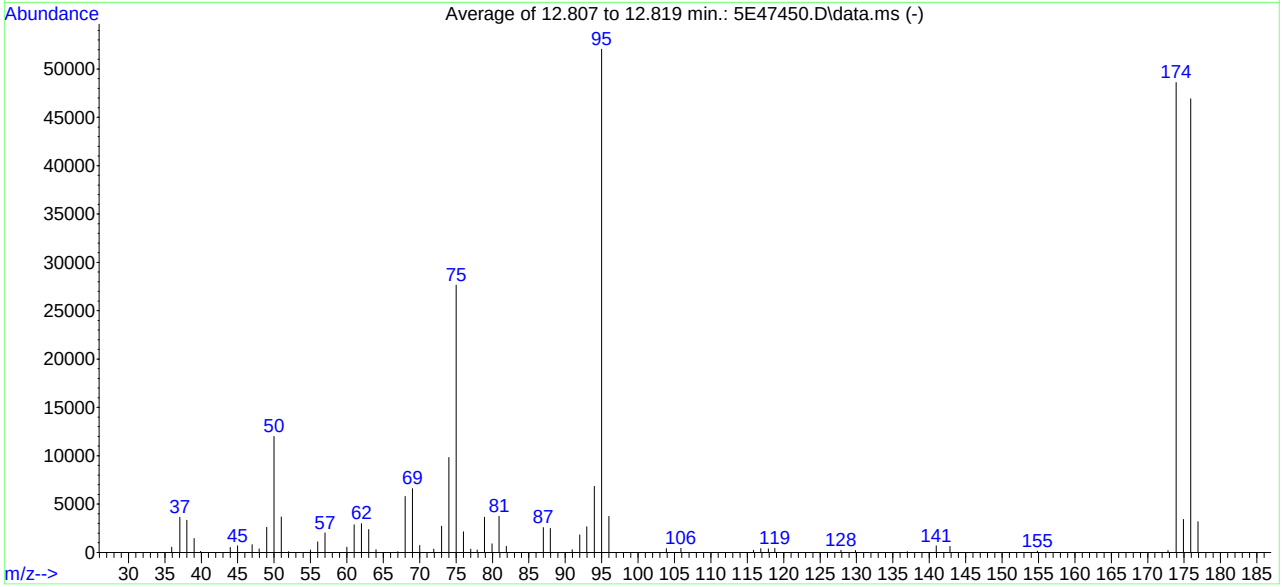
2A56353.D V2A1910_06252024.M Thu Jun 27 08:31:33 2024

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\06-25-2024\5E47450.D       Vial: 1
Acq On    : 25 Jun 2024  12:21 pm                    Operator: lianatr
Sample    : BFB                                      Inst    : MSVOA20_5E
Misc      : MS56906,V5E2113,,,,,                     Multiplr: 1.00
MS Integration Params: ult...ll.p

Method    : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

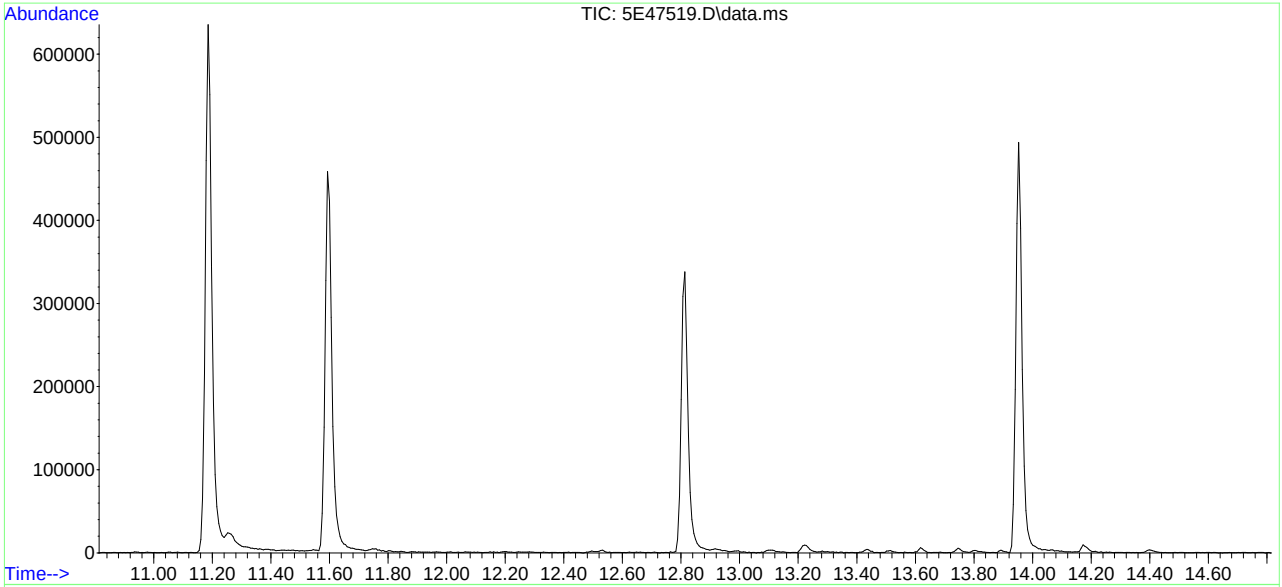
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	52048	PASS
96	95	5	9	7.2	3740	PASS
173	174	0.00	2	0.4	195	PASS
174	95	50	200	93.4	48613	PASS
175	174	5	9	7.0	3397	PASS
176	174	95	105	96.5	46925	PASS
177	176	5	10	6.7	3166	PASS

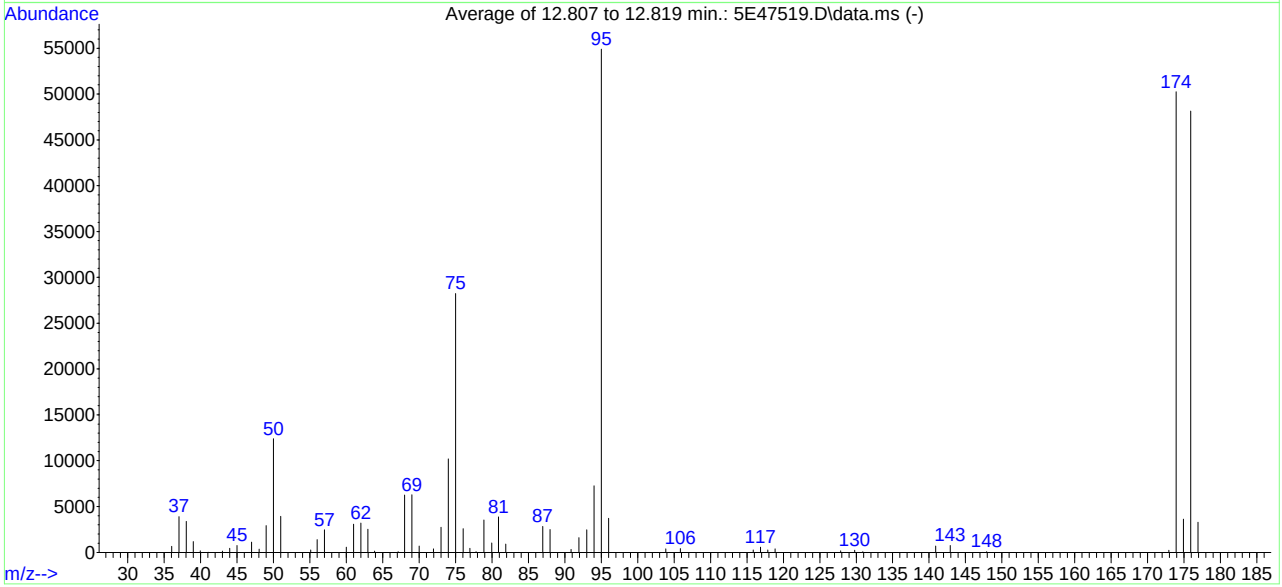
5E47450.D V5E2113_06252024_.M Wed Jun 26 06:58:25 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\06-28-2024\5E47519.D Vial: 1
Acq On : 28 Jun 2024 9:17 am Operator: lianatr
Sample : BFB Inst : MSVOA20_5E
Misc : MS56925,V5E2118,,,,, Multiplr: 1.00
MS Integration Params: ult...ll.p

Method : C:\msdchem\1\met...2113_06252024_.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1660, 1661, 1662; Background Corrected with Scan 1653

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	54888	PASS
96	95	5	9	6.8	3723	PASS
173	174	0.00	2	0.5	228	PASS
174	95	50	200	91.5	50243	PASS
175	174	5	9	7.2	3625	PASS
176	174	95	105	95.8	48149	PASS
177	176	5	10	6.9	3302	PASS

5E47519.D V5E2113_06252024_.M Fri Jun 28 11:21:08 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:42:40 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.976	96	528768	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.976	117	355340	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	189817	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.513	113	131046	47.73	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.46%				
50) 1,2-Dichloroethane-d4	3.818	65	171732	43.80	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.60%				
63) Toluene-d8	4.934	98	508939	49.28	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.56%				
86) 4-Bromofluorobenzene	6.866	174	131634	49.17	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.203	85	1602	0.84	ug/L		79
3) Chloromethane	1.343	50	2730	1.11	ug/L		91
4) 1,3-butadiene	1.422	39	1294m	0.56	ug/L		
5) Vinyl Chloride	1.404	62	2108	0.84	ug/L		84
6) Bromomethane	1.635	94	619m	0.64	ug/L		
7) Chloroethane	1.715	64	1096	1.30	ug/L	#	53
8) Trichlorofluoromethane	1.812	101	2434	0.73	ug/L		93
9) Ethyl Ether	2.026	59	2361	1.10	ug/L		94
11) 1,2-Dichlorotrifluoroe...	2.148	67	1576	0.62	ug/L		85
12) 1,1-Dichloroethene	2.148	61	2954	0.89	ug/L		93
13) Freon 113	2.178	101	1163	0.64	ug/L		95
14) Carbon Disulfide	2.166	76	5649	1.09	ug/L		86
15) Iodomethane	2.239	142	517m	0.62	ug/L		
16) Acrolein	2.355	56	3499	4.77	ug/L		100
17) Allyl chloride	2.434	41	2715	0.97	ug/L		84
18) Methylene Chloride	2.501	49	6342	1.98	ug/L		89
19) Acetone	2.526	43	7451	4.90	ug/L		84
20) Methyl acetate	2.599	43	18062	5.55	ug/L		100
21) trans-1,2-Dichloroethene	2.593	61	3415	1.03	ug/L		96
22) Hexane	2.647	56	1927	0.98	ug/L		92
23) Methyl Tert Butyl Ether	2.660	73	5805	1.08	ug/L		74
24) Tert Butyl Alcohol	2.708	59	4793	8.71	ug/L		86
25) Acetonitrile	2.800	41	7101	14.57	ug/L		95
26) Di-isopropyl ether	2.879	45	7446	1.07	ug/L		98
27) Chloroprene	2.934	53	2731	0.87	ug/L		91
28) 1,1-Dichloroethane	2.946	63	4319	1.03	ug/L		94
29) Acrylonitrile	2.977	52	7653	5.30	ug/L		99
30) ETBE	3.080	59	6722	1.05	ug/L		93
31) Vinyl acetate	3.086	43	22358	4.07	ug/L		98
32) cis-1,2-Dichloroethene	3.257	96	2312	1.09	ug/L		93
33) 2,2-Dichloropropane	3.318	77	2077	1.02	ug/L		83
34) Bromochloromethane	3.373	128	929m	0.94	ug/L		
35) Cyclohexane	3.379	56	2873	0.78	ug/L		87
36) Chloroform	3.410	83	3788	0.97	ug/L		88
37) Ethyl acetate	3.464	43	19242	4.88	ug/L		98
38) Tetrahydrofuran	3.501	42	1794	1.17	ug/L		90
40) Carbon Tetrachloride	3.495	117	1573	0.81	ug/L		86
41) 1,1,1-Trichloroethane	3.531	97	2742	0.96	ug/L		93
42) 2-Butanone	3.574	43	12535	5.21	ug/L		98
43) 1,1-Dichloropropene	3.599	75	2537	0.93	ug/L		90
44) tert-Butyl formate	3.659	59	4470	6.59	ug/L		91
45) Propionitrile	3.745	54	8309	10.68	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:42:40 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	3.757	41	22950	9.92	ug/L		98
47) Benzene	3.745	78	8562	1.03	ug/L		89
48) TAME	3.800	73	5000	1.04	ug/L	#	80
49) Isobutyl alcohol	3.842	43	4178m	19.50	ug/L		
51) 1,2-Dichloroethane	3.855	62	3345	0.92	ug/L		87
52) Tert Amyl Alcohol	3.903	59	3538	9.01	ug/L		79
53) Trichloroethene	4.080	95	2489	1.12	ug/L		88
54) Methylcyclohexane	4.080	83	1844	0.62	ug/L	#	85
55) Dibromomethane	4.330	93	1443	1.03	ug/L		95
56) 1,2-Dichloropropane	4.391	63	2338	1.03	ug/L		95
57) Bromodichloromethane	4.428	83	2372	0.95	ug/L	#	90
58) Methyl methacrylate	4.507	41	2251	1.00	ug/L		91
59) 1,4-Dioxane	4.550	88	651m	14.44	ug/L		
60) 2-Chloroethyl vinyl ether	4.769	63	7966	4.42	ug/L		97
61) cis-1,3-Dichloropropene	4.812	75	2615	0.87	ug/L		88
64) Toluene	4.970	91	8945	1.05	ug/L		99
65) 2-Nitropropane	5.110	41	2646	5.43	ug/L		94
66) 4-Methyl-2-pentanone	5.202	43	17744	4.70	ug/L		98
67) trans-1,3-Dichloropropene	5.232	75	2404	0.81	ug/L		93
68) Tetrachloroethene	5.220	166	1735	0.93	ug/L		95
69) Ethyl methacrylate	5.324	69	2139	0.81	ug/L		95
70) 1,1,2-Trichloroethane	5.342	83	1770	0.98	ug/L		87
71) Dibromochloromethane	5.458	129	1405	0.88	ug/L		98
72) 1,3-Dichloropropane	5.519	76	3466	1.03	ug/L		90
73) 1,2-Dibromoethane	5.622	107	1720	0.87	ug/L		81
74) 3,3-dimethyl-1-butanol	5.738	57	23306	47.49	ug/L		95
75) 2-hexanone	5.763	43	17907	4.64	ug/L		94
76) 1-Chlorohexane	5.964	91	3043m	1.18	ug/L		
77) Ethylbenzene	6.000	91	9167	1.00	ug/L		96
78) Chlorobenzene	5.988	112	5904	1.09	ug/L		88
79) 1,1,1,2-Tetrachloroethane	6.031	131	1386	0.94	ug/L		94
80) m,p-Xylene	6.104	91	14291	2.02	ug/L		94
81) o-Xylene	6.421	91	7154	1.05	ug/L		97
82) Styrene	6.452	104	4095	0.83	ug/L		93
83) Bromoform	6.470	173	830m	1.04	ug/L		
84) Isopropylbenzene	6.653	105	7017	0.92	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.909	53	904m	0.83	ug/L		
88) n-Propylbenzene	6.964	91	9945	0.95	ug/L		98
89) Bromobenzene	6.945	156	1868	0.92	ug/L		96
90) 1,1,2,2-Tetrachloroethane	7.012	83	3172	0.93	ug/L		98
91) 1,3,5-Trimethylbenzene	7.116	105	6198	0.91	ug/L		98
92) 2-Chlorotoluene	7.086	91	7137	1.00	ug/L		93
93) trans-1,4-Dichloro-2-B...	7.147	53	1022	1.04	ug/L	#	73
94) 1,2,3-Trichloropropane	7.116	110	840m	0.84	ug/L		
95) Cyclohexanone	7.153	55	940m	4.16	ug/L		
96) 4-Chlorotoluene	7.214	91	6633	0.99	ug/L		97
97) tert-Butylbenzene	7.366	91	3254	0.82	ug/L		83
99) 1,2,4-Trimethylbenzene	7.421	105	5817	0.87	ug/L		98
100) Pentachloroethane	7.384	167	587m	0.64	ug/L		
101) sec-Butylbenzene	7.500	105	6580	0.82	ug/L		96
102) 4-Isopropyltoluene	7.610	119	5147	0.80	ug/L		95
103) 1,3-Dichlorobenzene	7.665	146	3993	1.02	ug/L		93
104) 1,2,3-Trimethylbenzene	7.750	105	6806	0.92	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	4558m	1.08	ug/L		
106) n-Butylbenzene	7.927	92	3075	0.84	ug/L		95
107) Benzyl Chloride	7.915	126	361m	0.95	ug/L		
108) 1,2-Dichlorobenzene	8.043	146	3965	1.09	ug/L		89
109) 1,2-Dibromo-3-Chloropr...	8.610	75	598m	0.77	ug/L		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:42:40 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

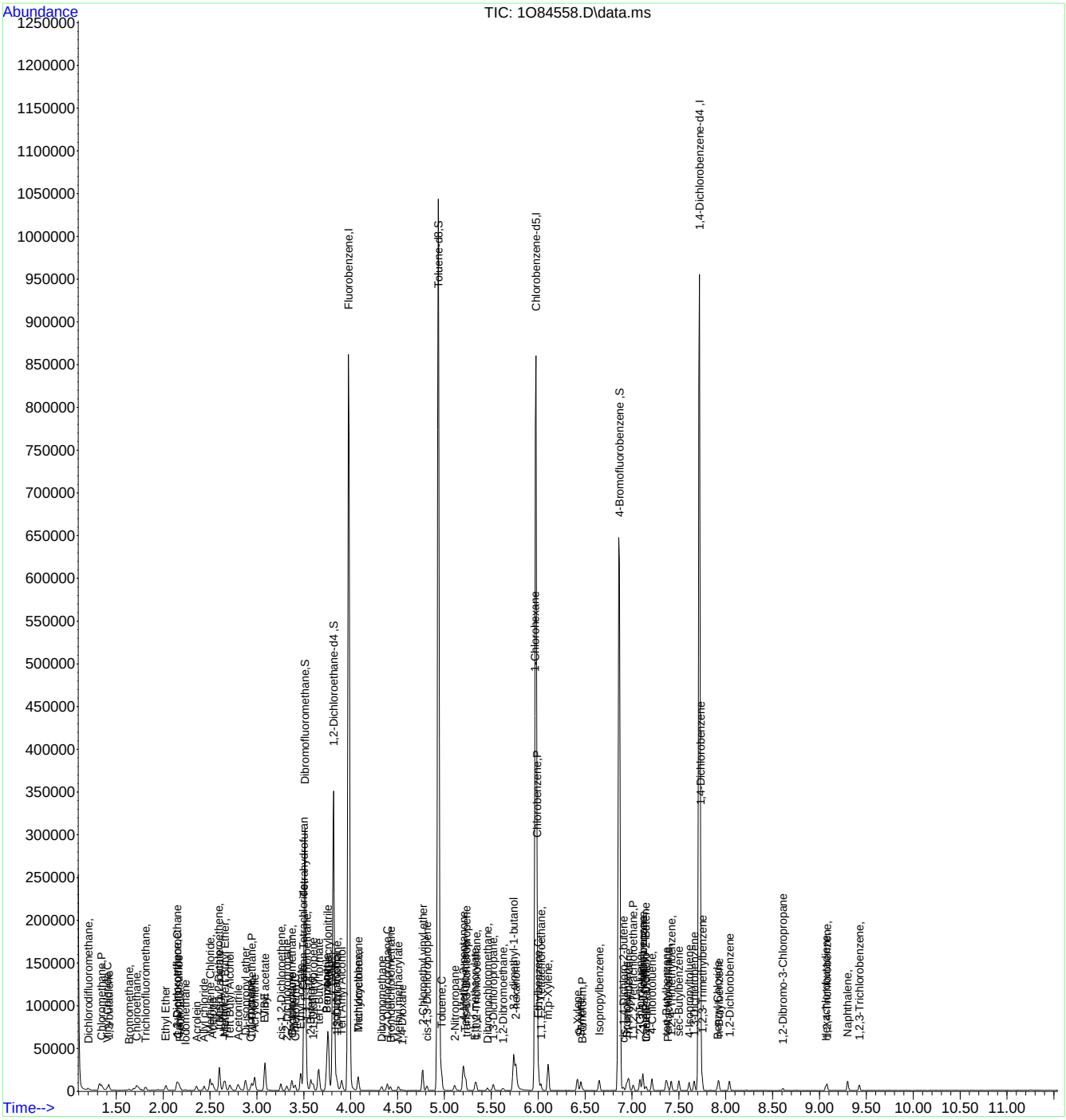
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) Hexachlorobutadiene	9.067	225	634m	0.79	ug/L	
111) 1,2,4-Trichlorobenzene	9.079	180	2039	1.00	ug/L	99
112) Naphthalene	9.299	128	6768	0.90	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	1846	0.96	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:42:40 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

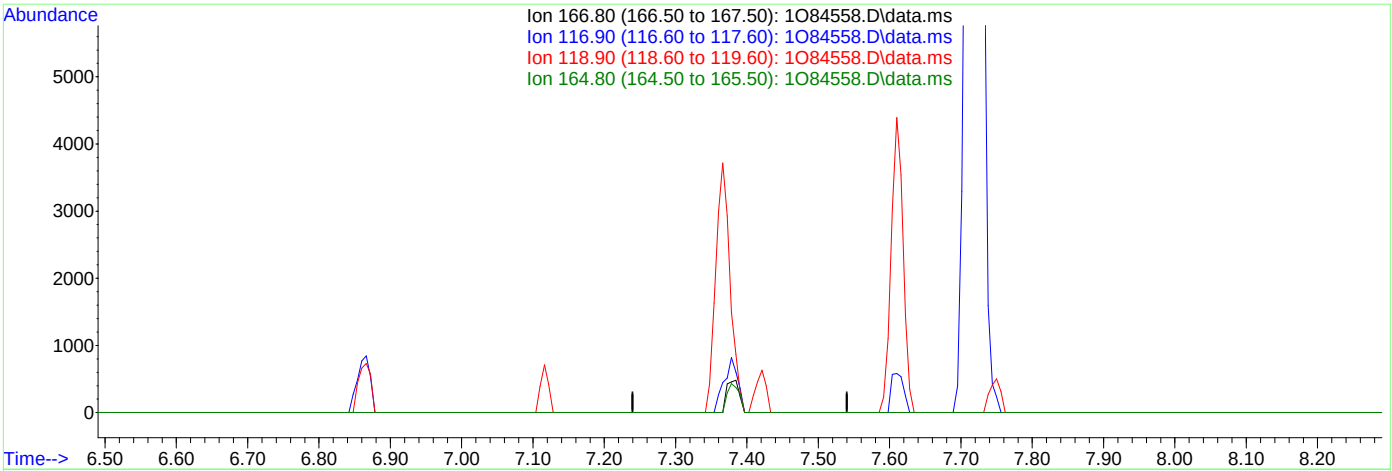
Sample Number: V1O3054-IC3054
Lab FileID: 1O84558.D
Injection Time: 06/02/24 09:26
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

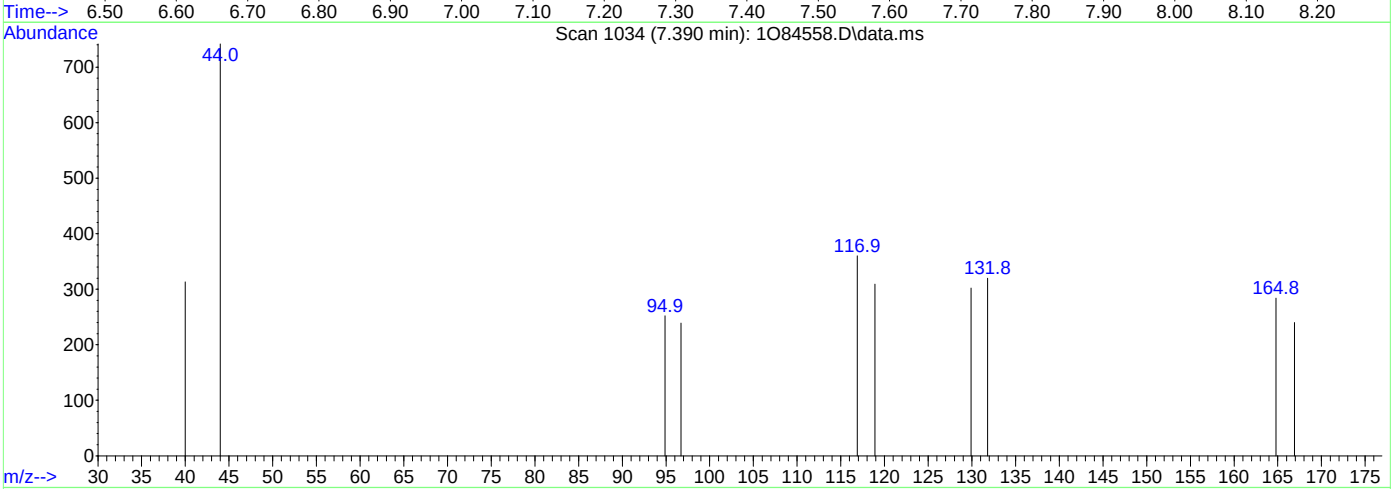
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,3-Butadiene	106-99-0		1.42	Missed peak
Methyl Bromide	74-83-9		1.64	Missed peak
Methyl Iodide	74-88-4		2.24	Missed peak
Bromochloromethane	74-97-5		3.37	Missed peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1,4-Dioxane	123-91-1		4.55	Missed peak
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline
Bromoform	75-25-2		6.47	Missed peak
cis-1,4-Dichloro-2-Butene	1476-11-5		6.91	Missed peak
1,2,3-Trichloropropane	96-18-4		7.12	Missed peak
Cyclohexanone	108-94-1		7.15	Missed peak
Pentachloroethane	76-01-7		7.38	Missed peak
1,4-Dichlorobenzene	106-46-7		7.73	Missed peak
Benzyl Chloride	100-44-7		7.91	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.61	Missed peak
Hexachlorobutadiene	87-68-3		9.07	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(100) Pentachloroethane ( )

7.390min (-7.390) 0.00ug/L

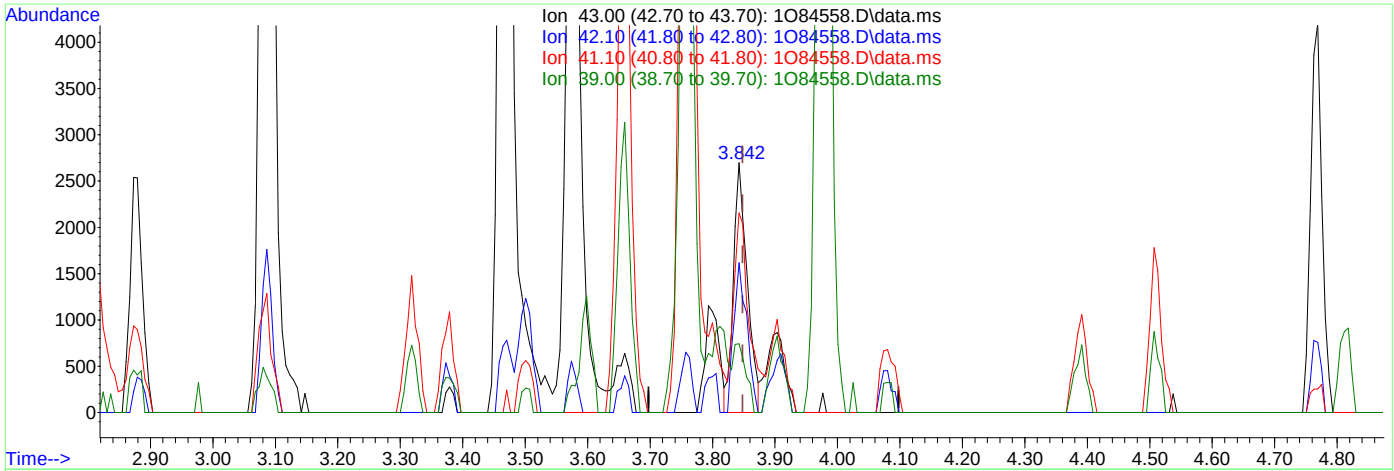
response 0

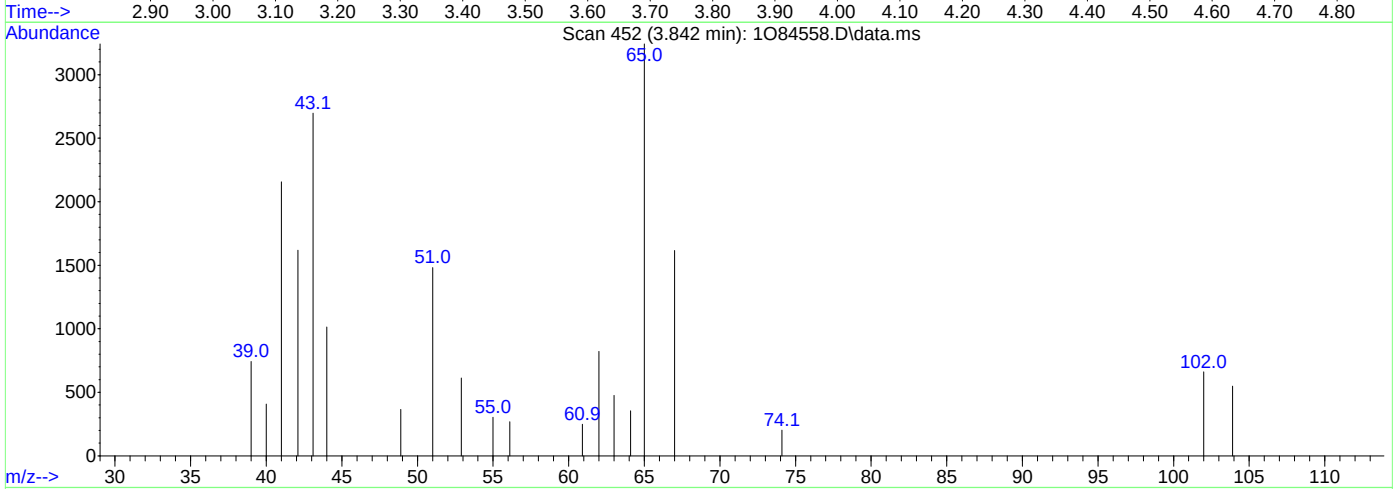
Ion	Exp%	Act%
166.80	100	0.00
116.90	111.70	0.00#
118.90	136.20	0.00#
164.80	80.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 19.50ug/L m

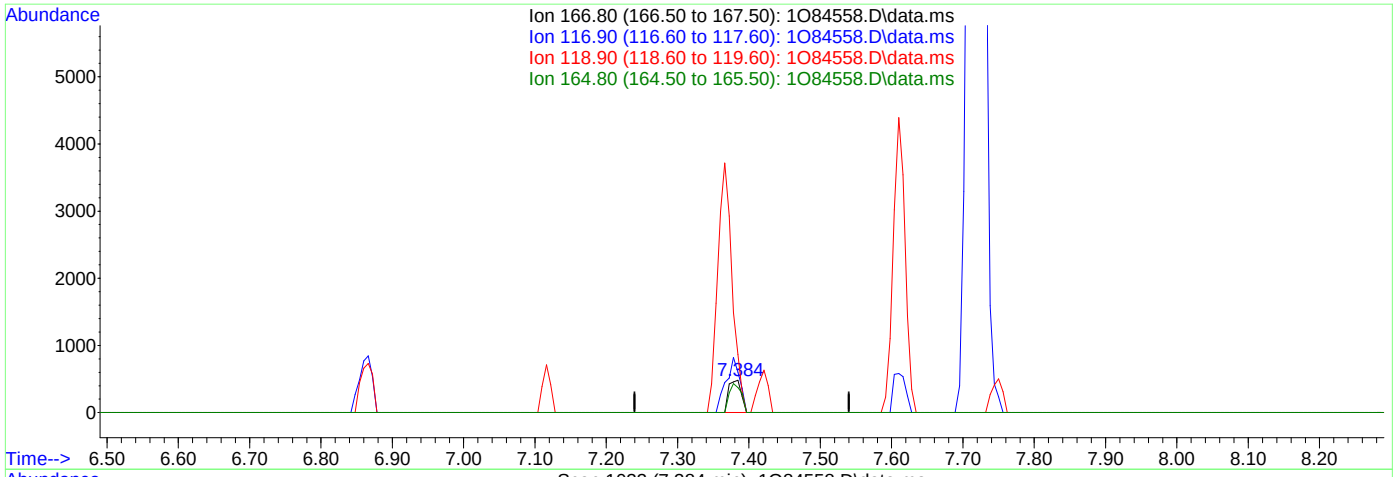
response 4178

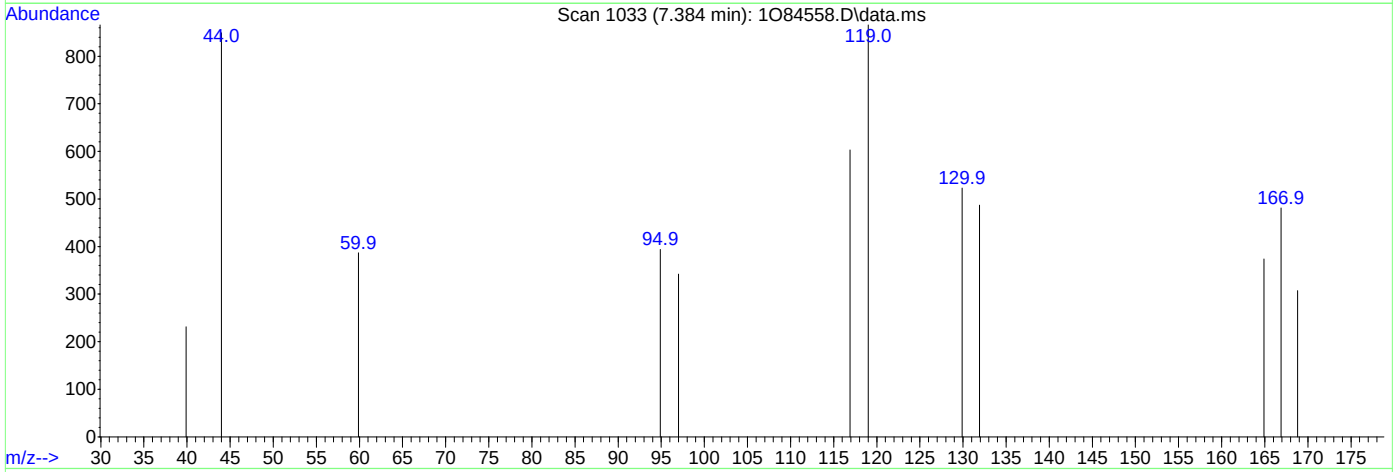
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	60.03
41.10	75.50	79.98
39.00	27.60	27.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(100) Pentachloroethane ( )

7.384min (-0.006) 0.64ug/L m

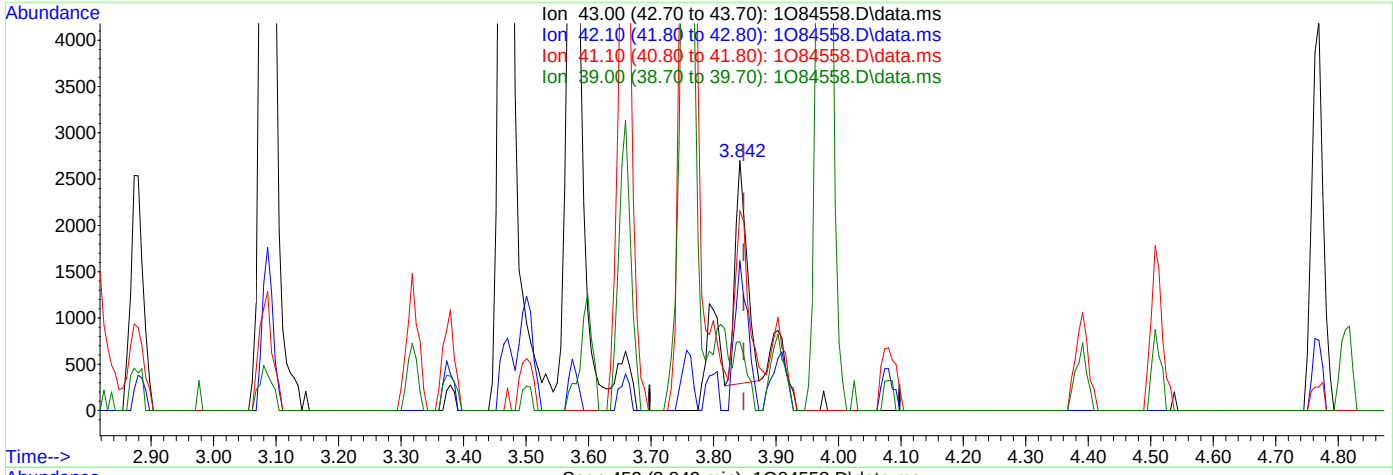
response 587

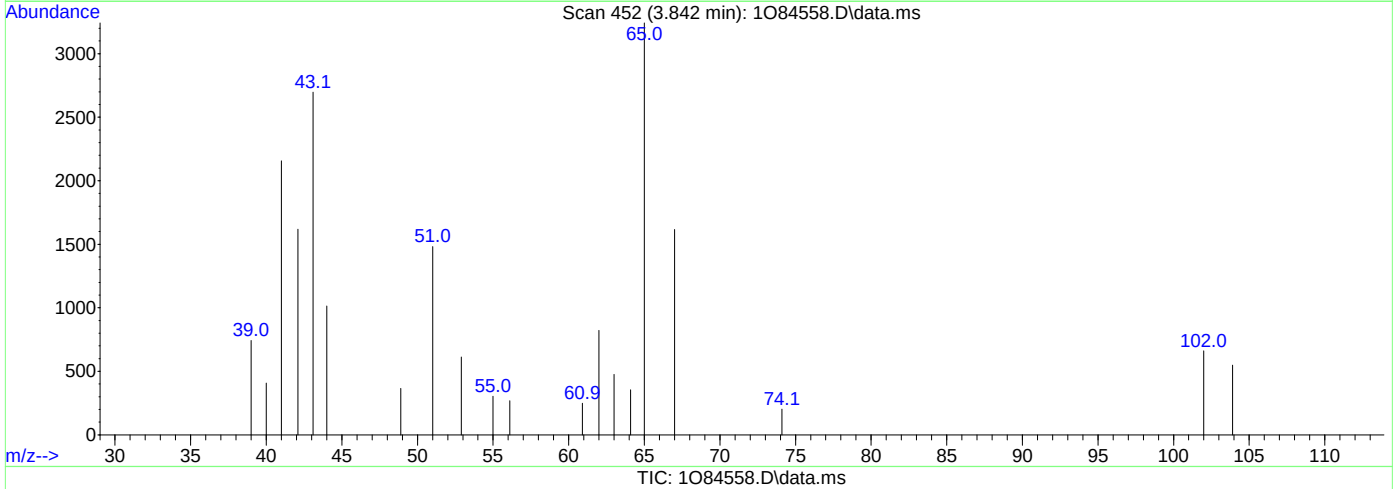
Ion	Exp%	Act%
166.80	100	100
116.90	111.70	125.36
118.90	136.20	180.04#
164.80	80.70	77.75

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 15.00ug/L

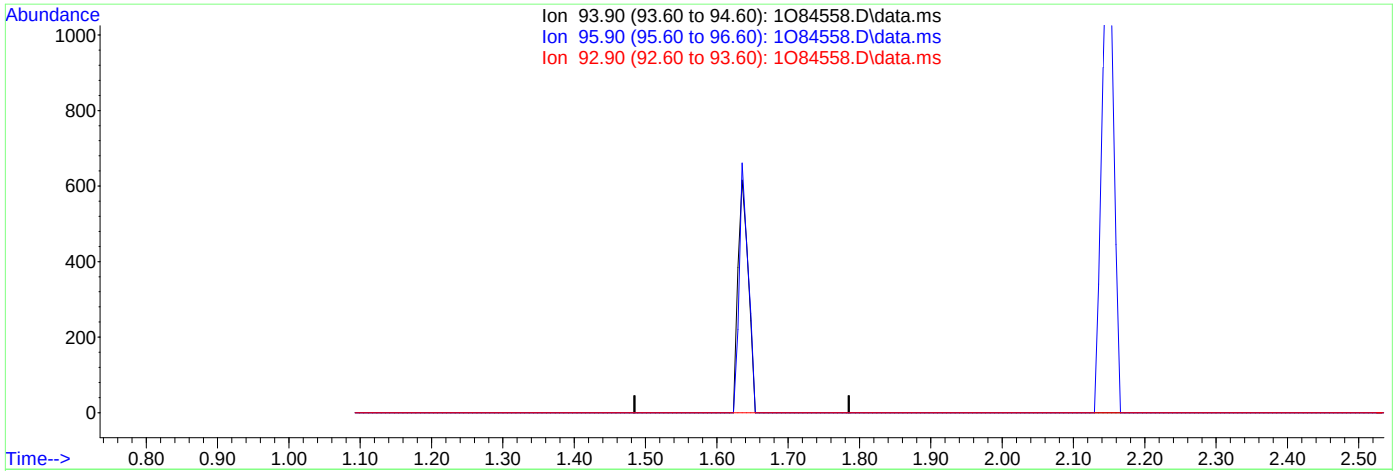
response 3211

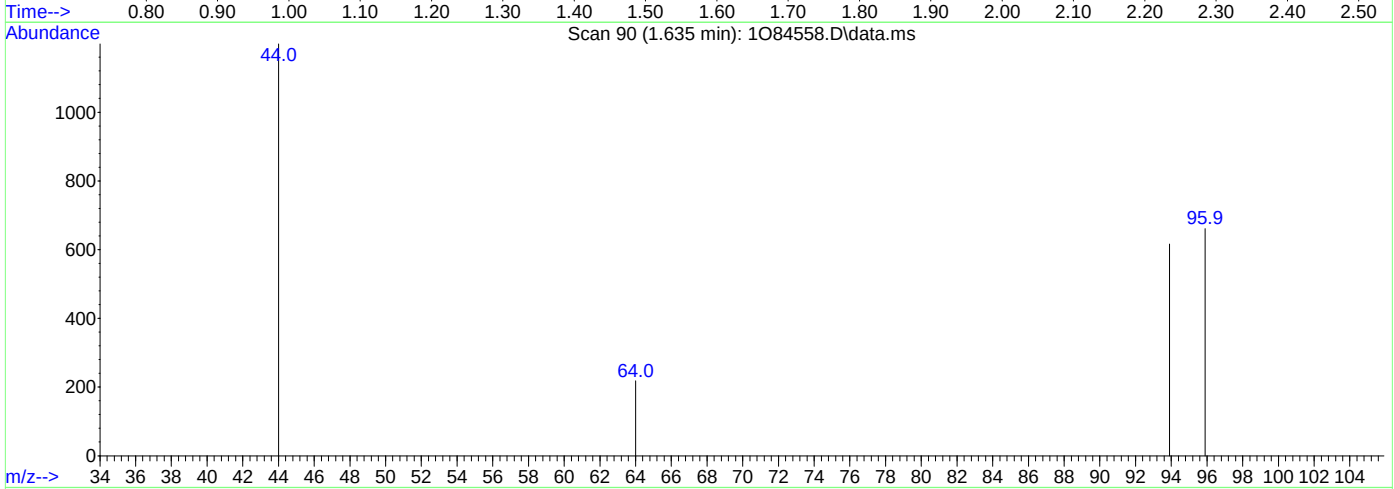
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	66.60
41.10	75.50	71.45
39.00	27.60	30.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(6) Bromomethane ( )

1.635min (-1.635) 0.00ug/L

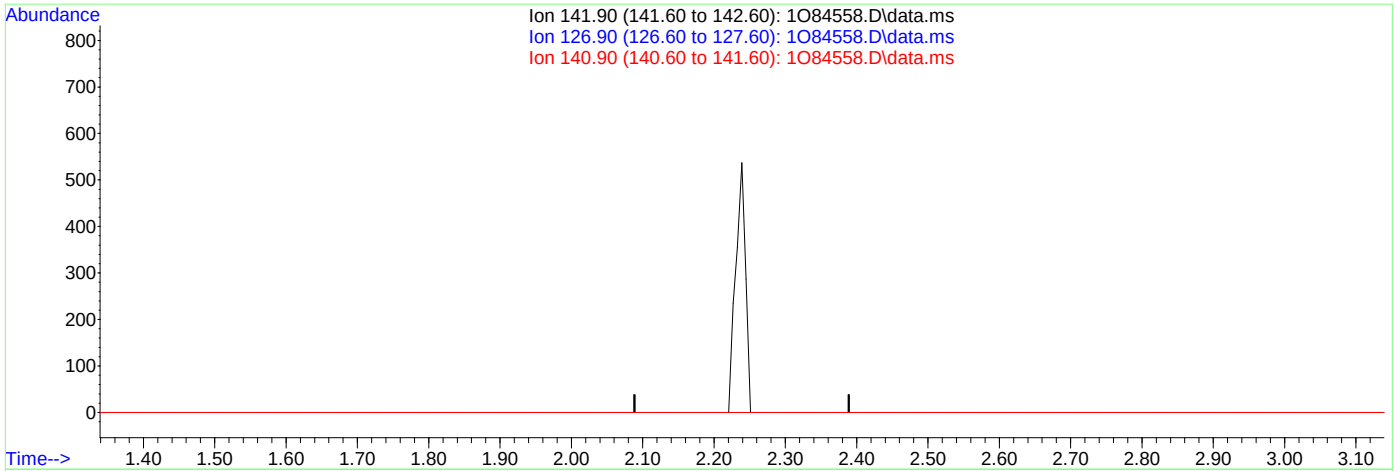
response 0

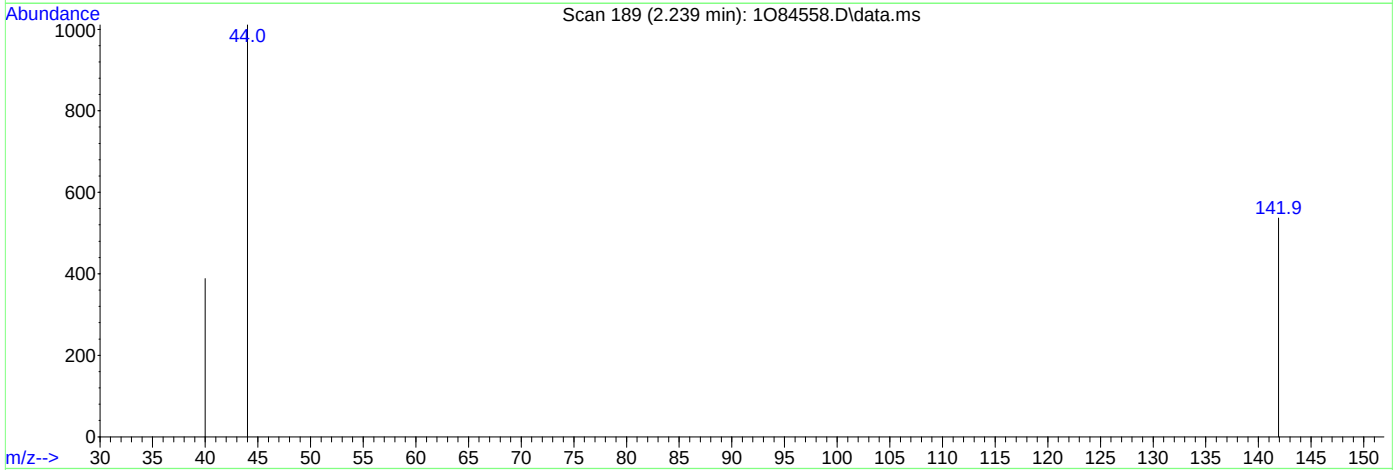
Ion	Exp%	Act%
93.90	100	0.00
95.90	97.60	0.00#
92.90	20.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(15) Iodomethane

2.239min (-2.239) 0.00ug/L

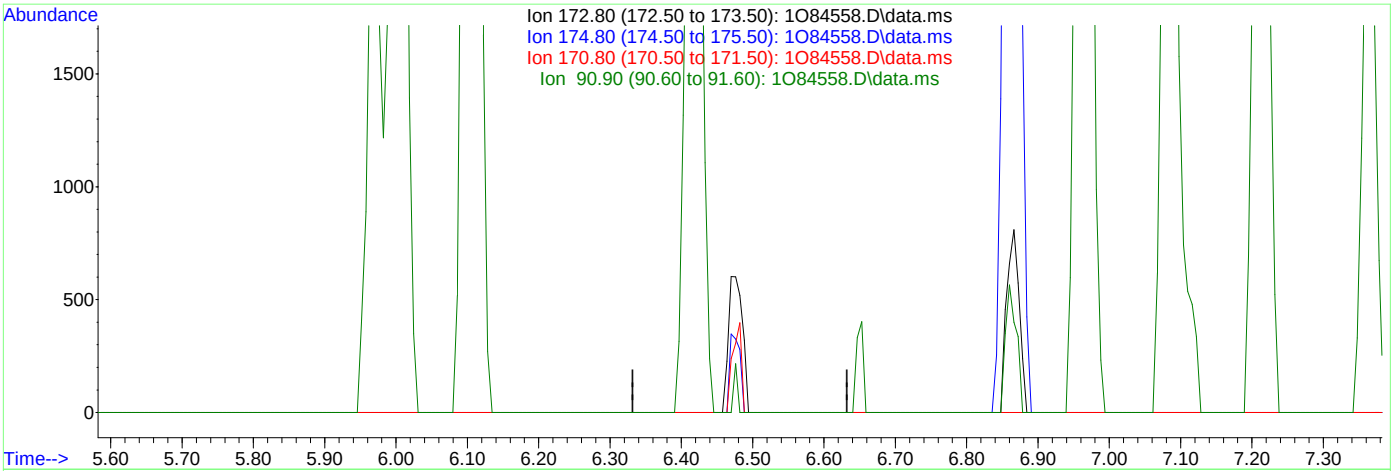
response 0

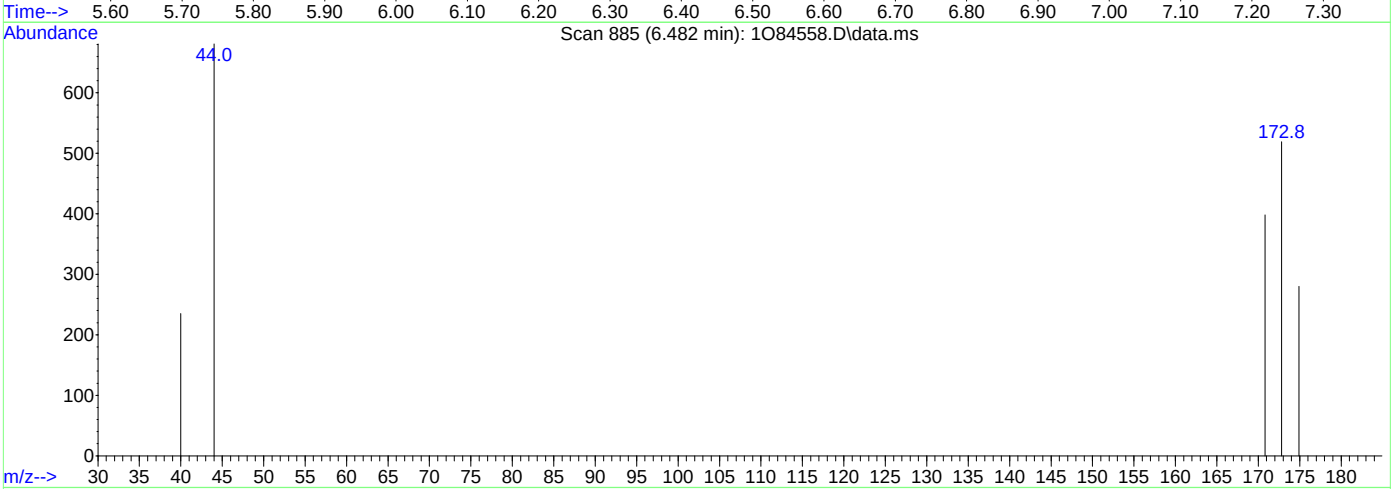
Ion	Exp%	Act%
141.90	100	0.00
126.90	49.60	0.00#
140.90	13.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(83) Bromoform (P)

6.482min (-6.482) 0.00ug/L

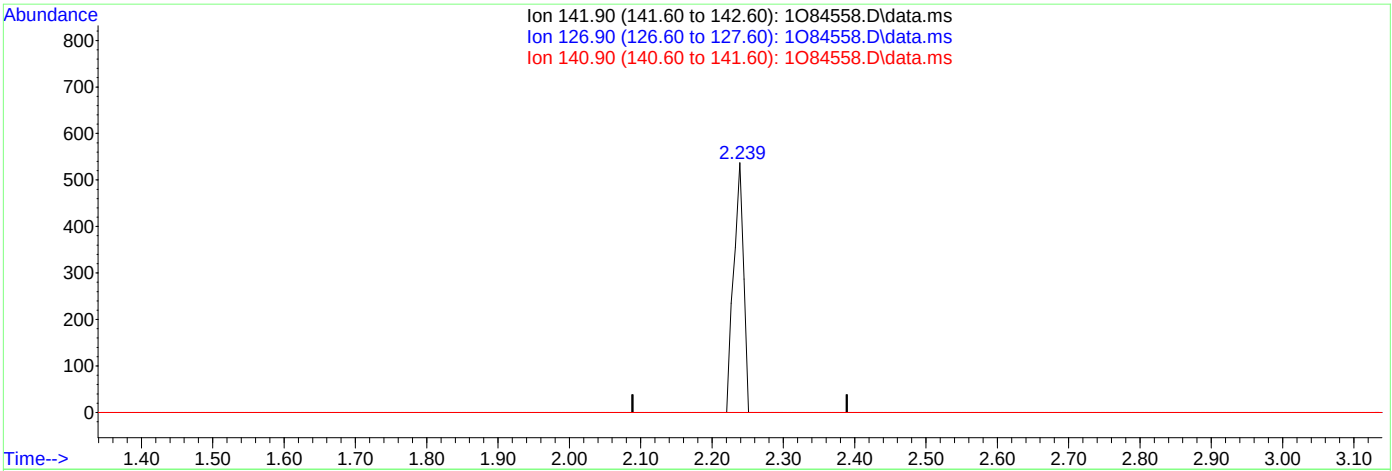
response 0

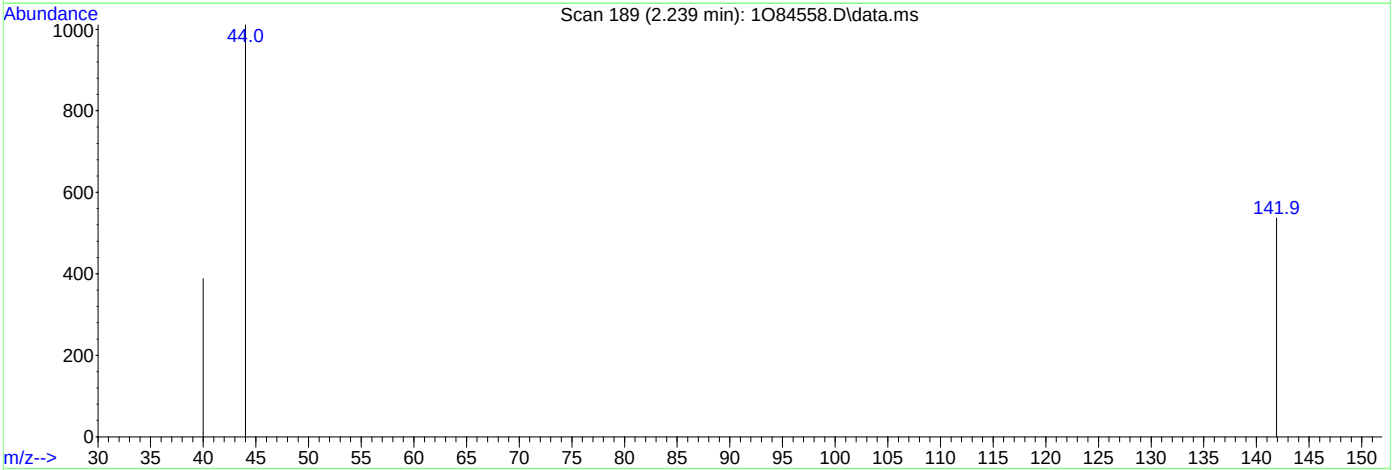
Ion	Exp%	Act%
172.80	100	0.00
174.80	47.90	0.00#
170.80	49.40	0.00#
90.90	30.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(15) Iodomethane

2.239min (0.000) 0.62ug/L m

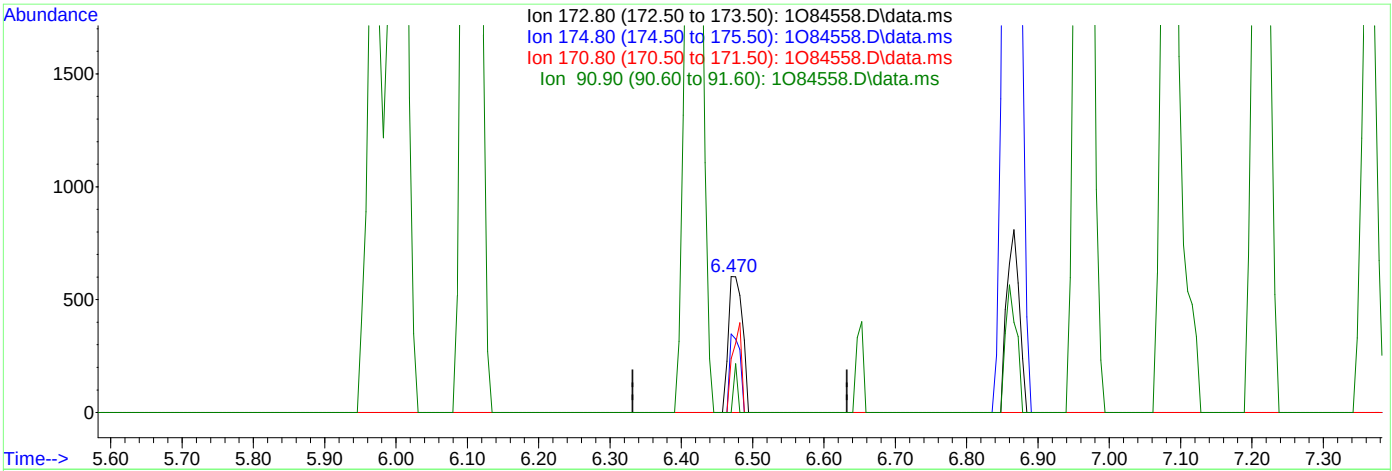
response 517

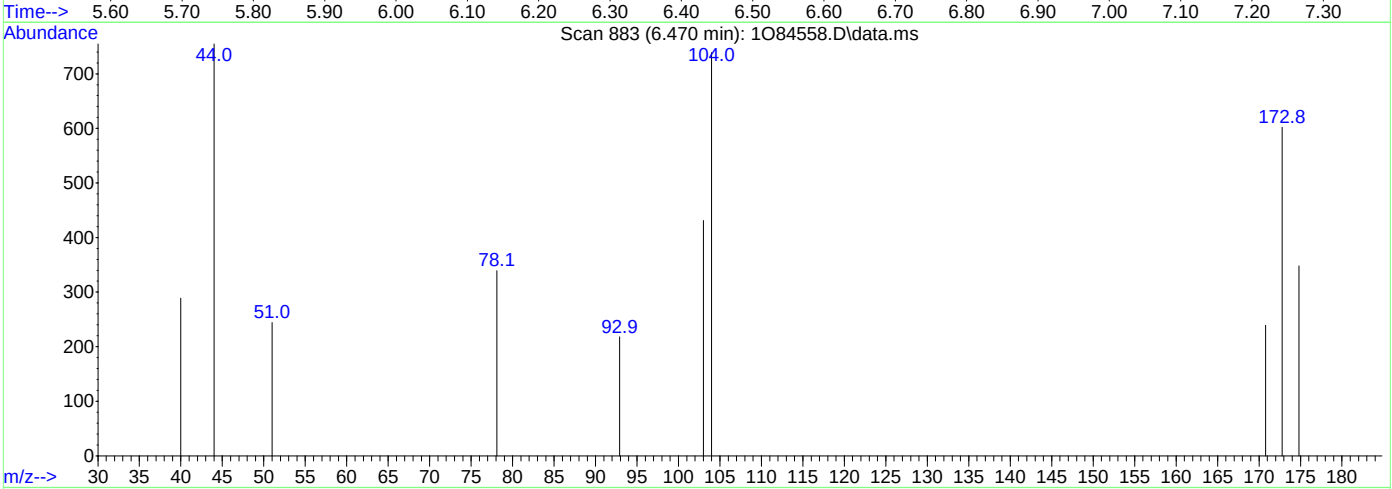
Ion	Exp%	Act%
141.90	100	100
126.90	49.60	0.00#
140.90	13.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(83) Bromoform (P)

6.470min (-0.012) 1.04ug/L m

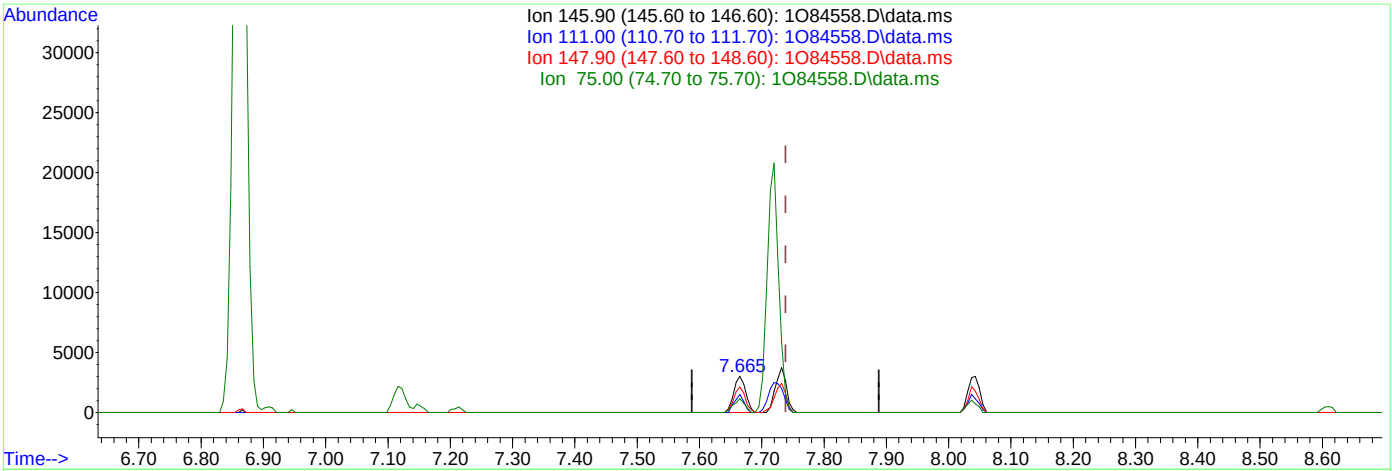
response 830

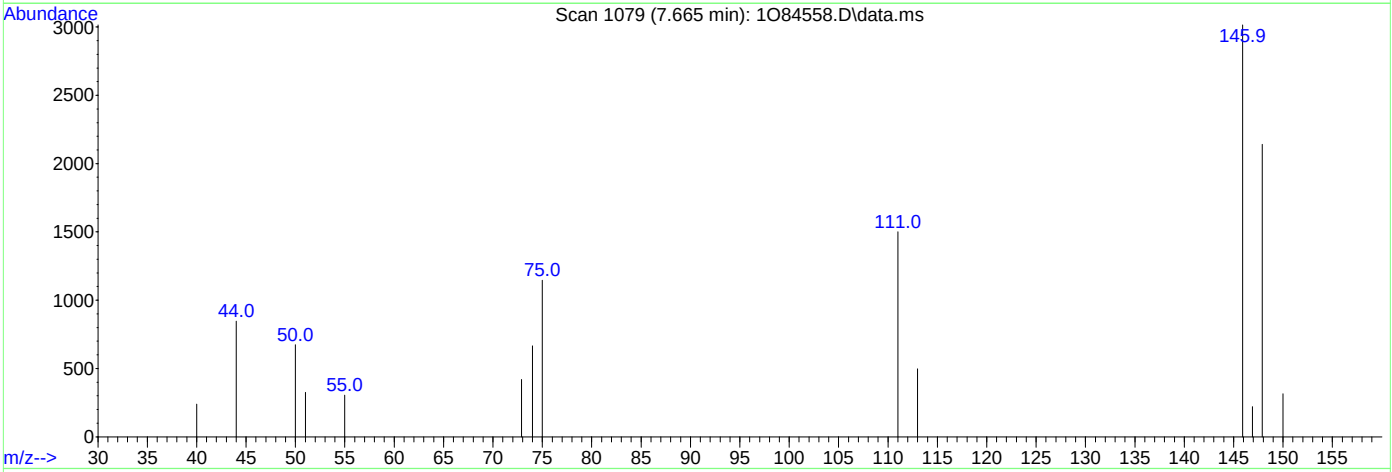
Ion	Exp%	Act%
172.80	100	100
174.80	47.90	57.81
170.80	49.40	39.70
90.90	30.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(105) 1,4-Dichlorobenzene

7.665min (-0.073) 0.95ug/L

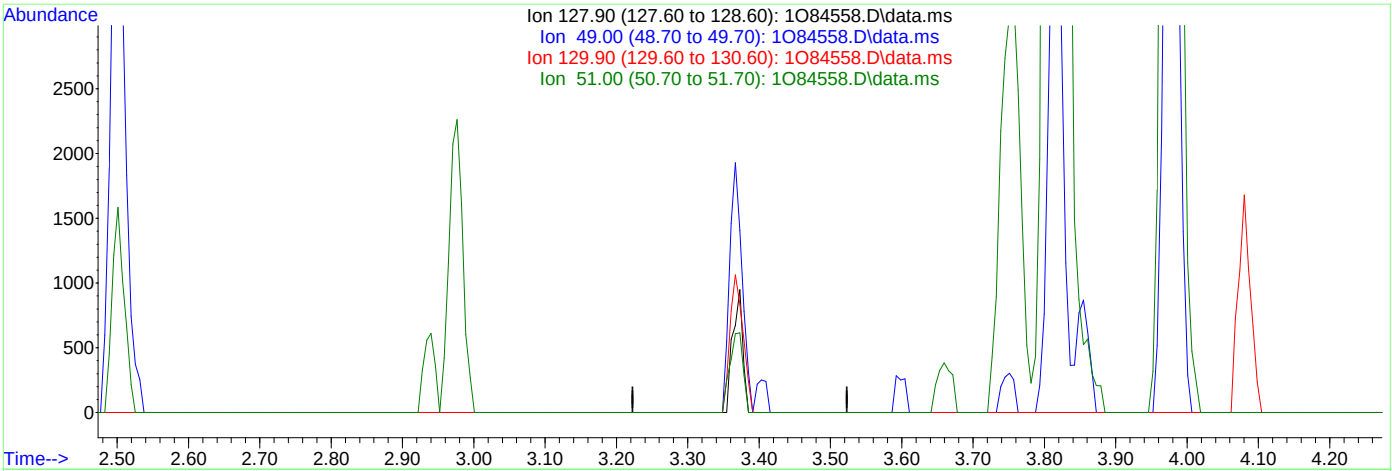
response 3993

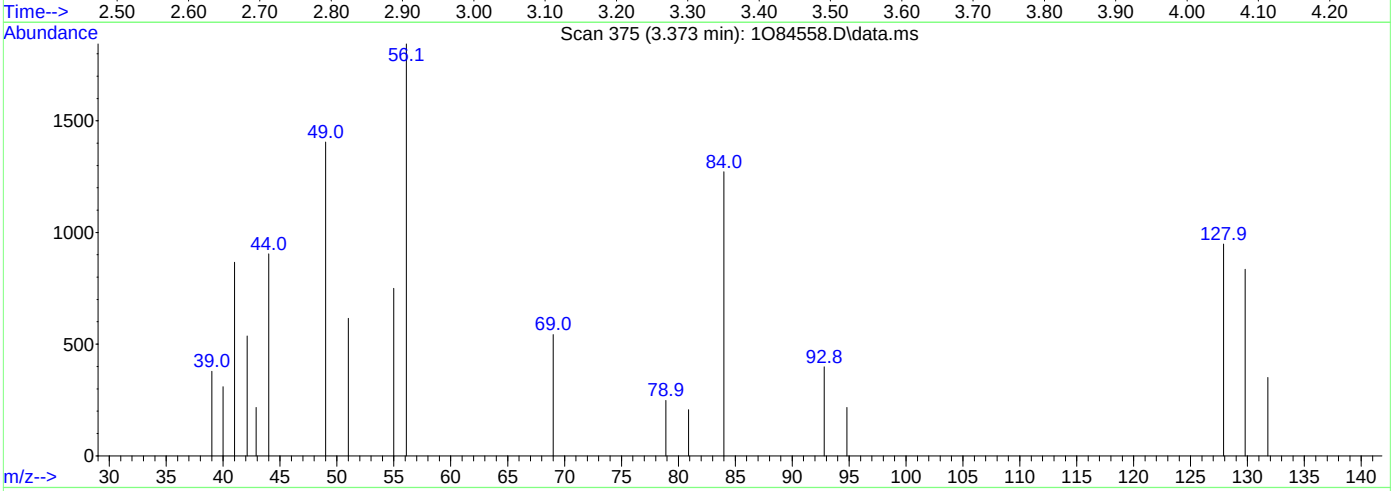
Ion	Exp%	Act%
145.90	100	100
111.00	45.00	49.77
147.90	63.30	70.99
75.00	44.60	38.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(34) Bromochloromethane ( )

3.373min (-3.373) 0.00ug/L

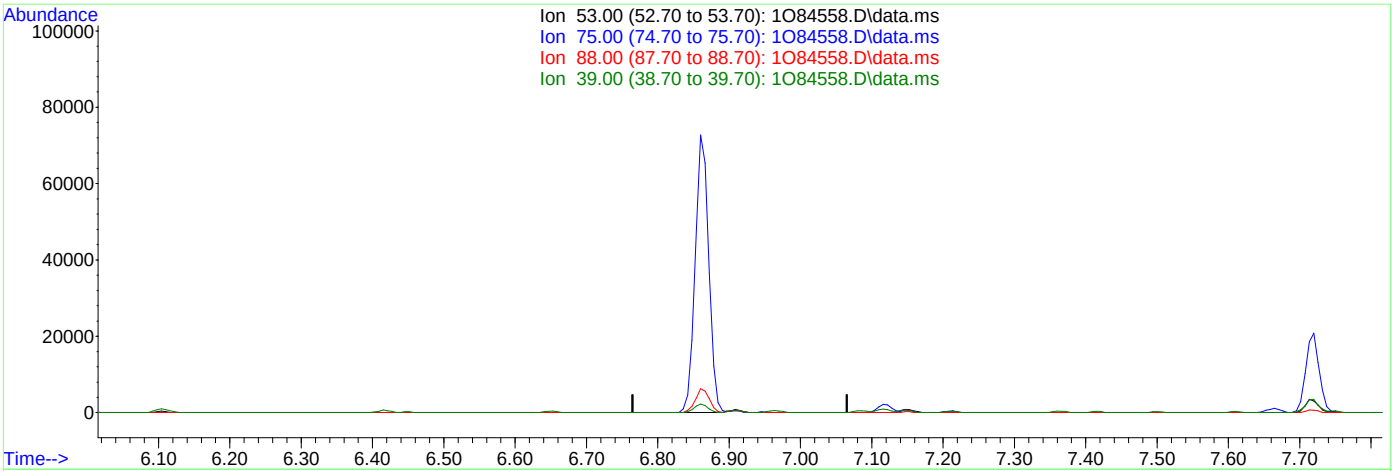
response 0

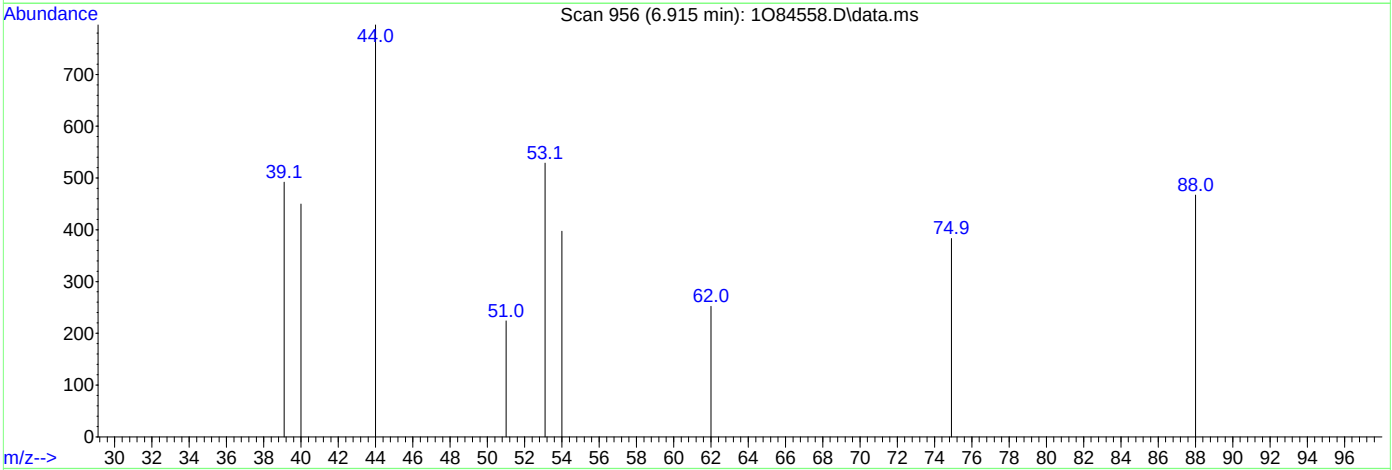
Ion	Exp%	Act%
127.90	100	0.00
49.00	203.00	0.00#
129.90	128.90	0.00#
51.00	76.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.915min (-6.915) 0.00ug/L

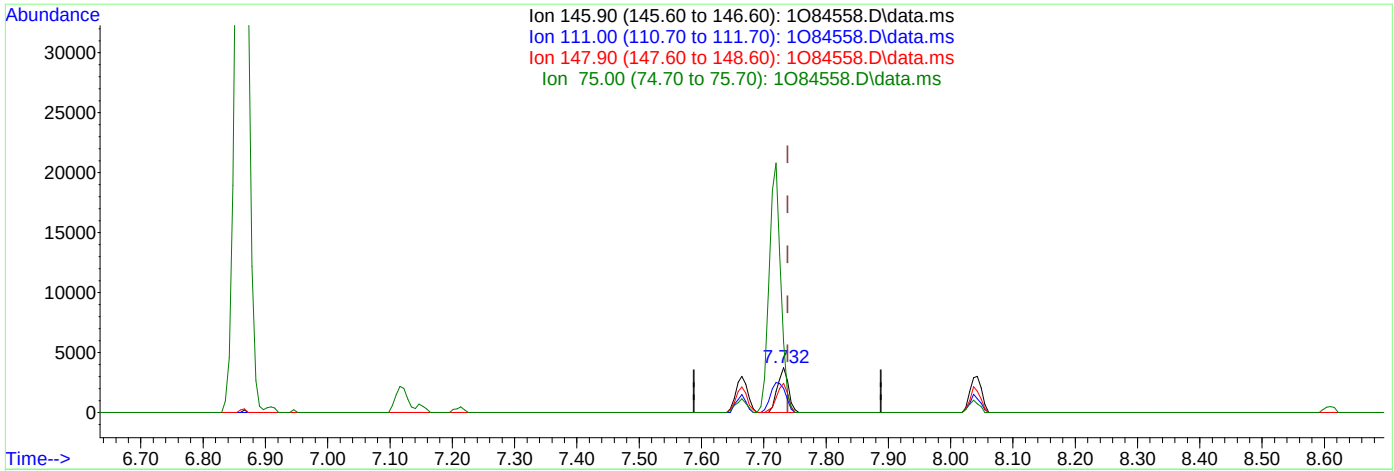
response 0

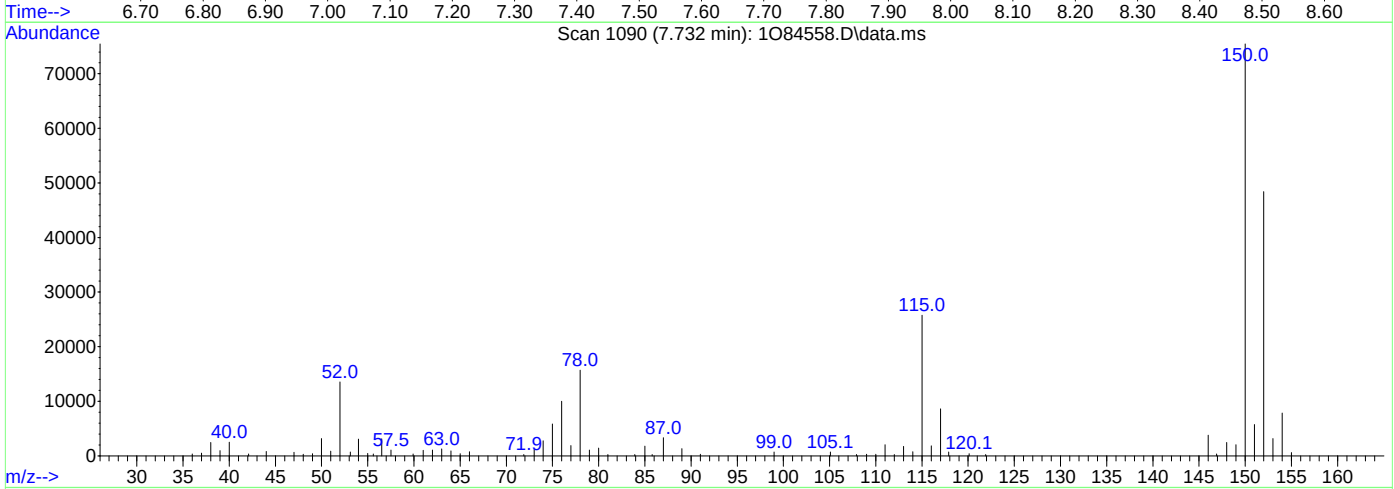
Ion	Exp%	Act%
53.00	100	0.00
75.00	40.60	0.00#
88.00	75.70	0.00#
39.00	58.10	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(105) 1,4-Dichlorobenzene

7.732min (-0.006) 1.08ug/L m

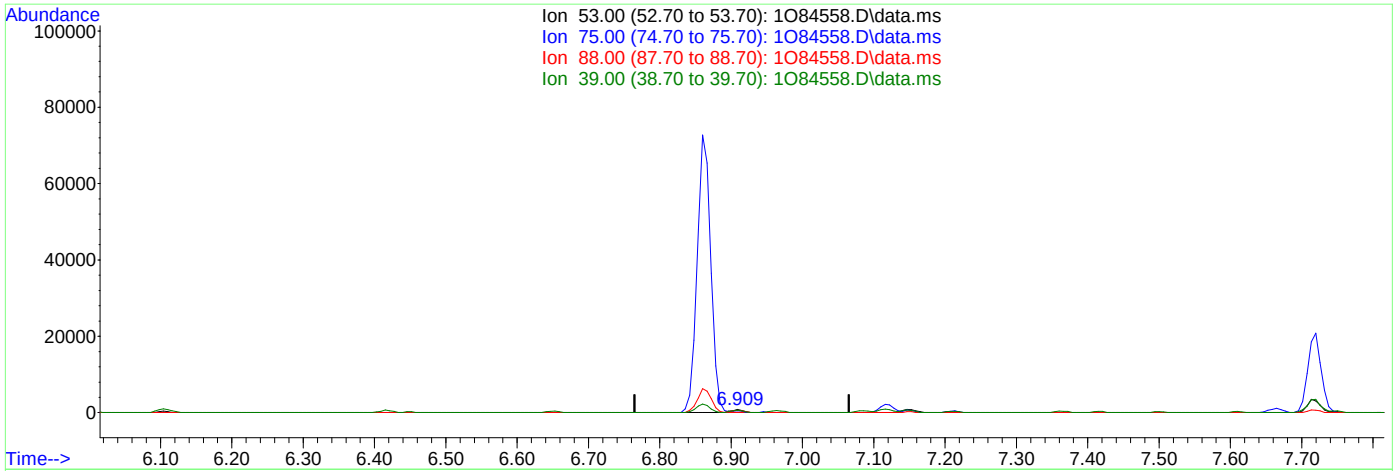
response 4558

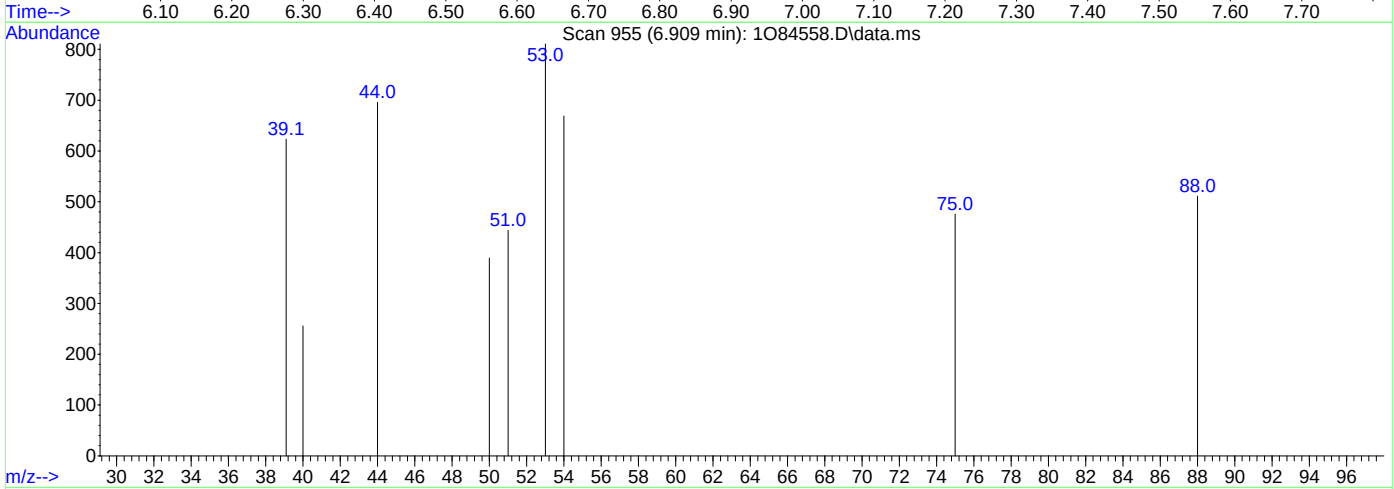
Ion	Exp%	Act%
145.90	100	100
111.00	45.00	53.52
147.90	63.30	65.10
75.00	44.60	155.67#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.909min (-0.006) 0.83ug/L m

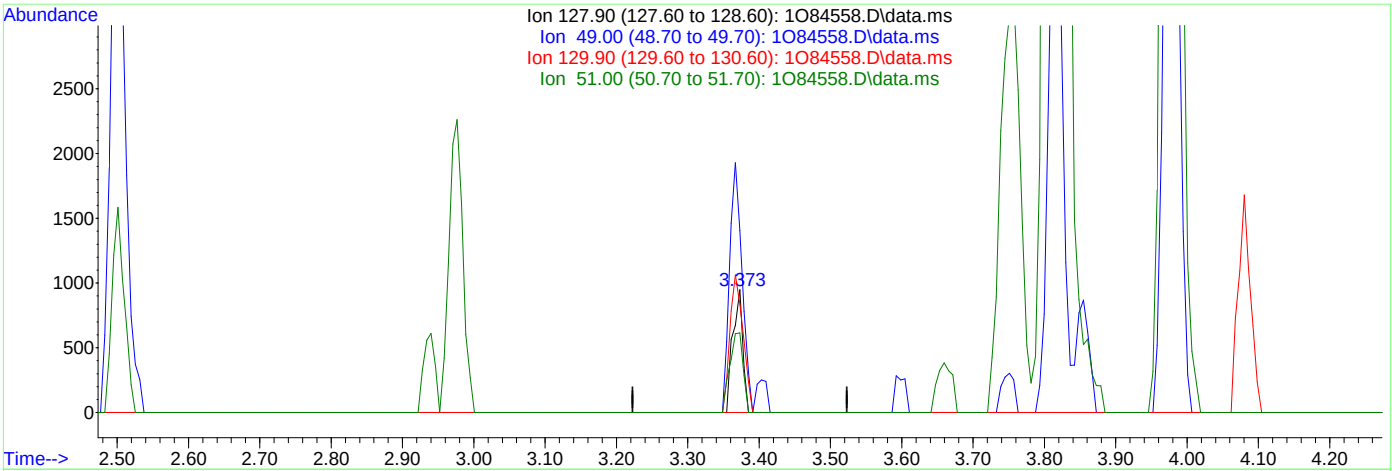
response 904

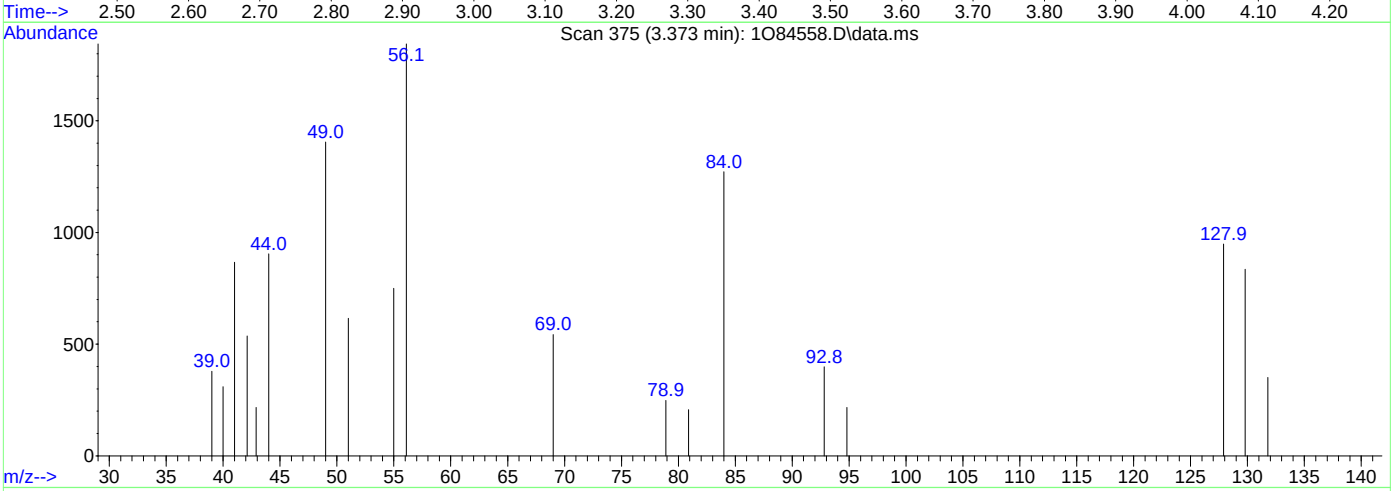
Ion	Exp%	Act%
53.00	100	100
75.00	40.60	58.69
88.00	75.70	63.01
39.00	58.10	76.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(34) Bromochloromethane ( )

3.373min (-0.000) 0.94ug/L m

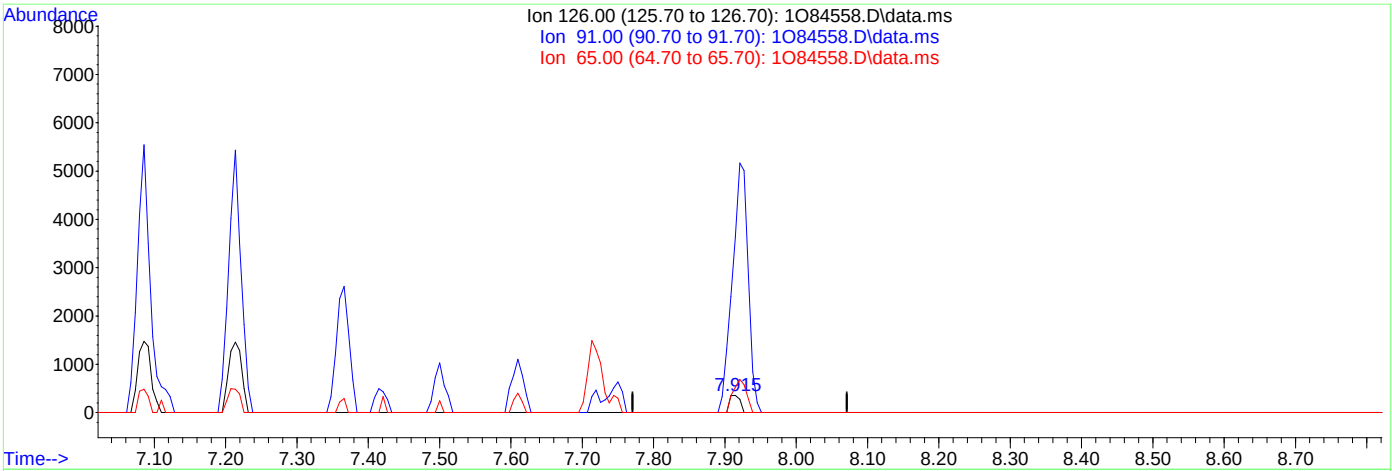
response 929

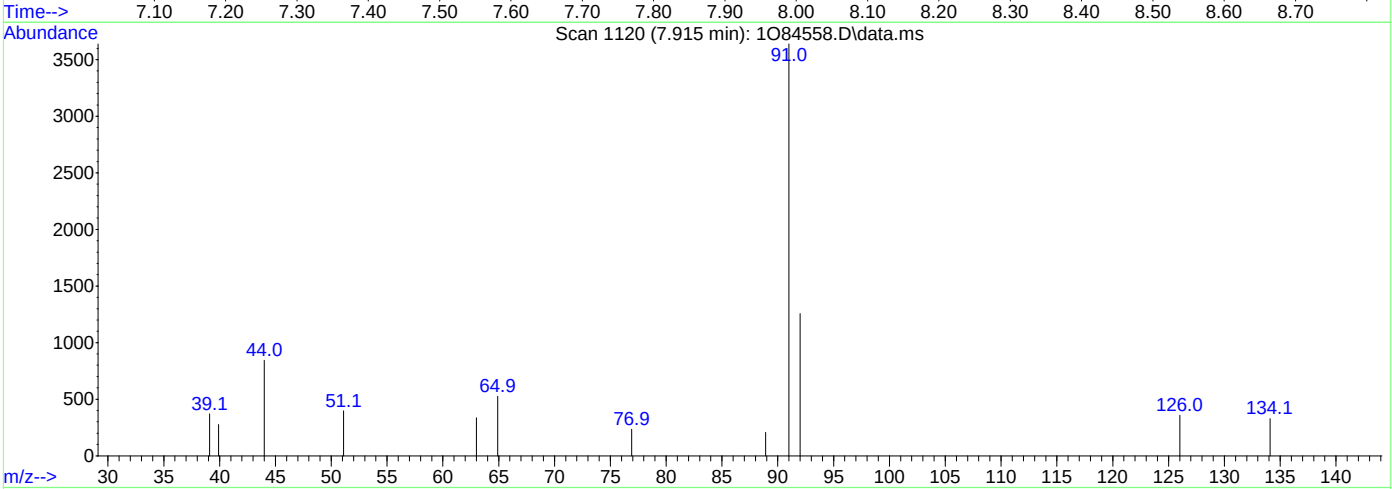
Ion	Exp%	Act%
127.90	100	100
49.00	203.00	148.21#
129.90	128.90	88.08#
51.00	76.70	64.98

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(107) Benzyl Chloride

7.915min (-0.006) 0.95ug/L m

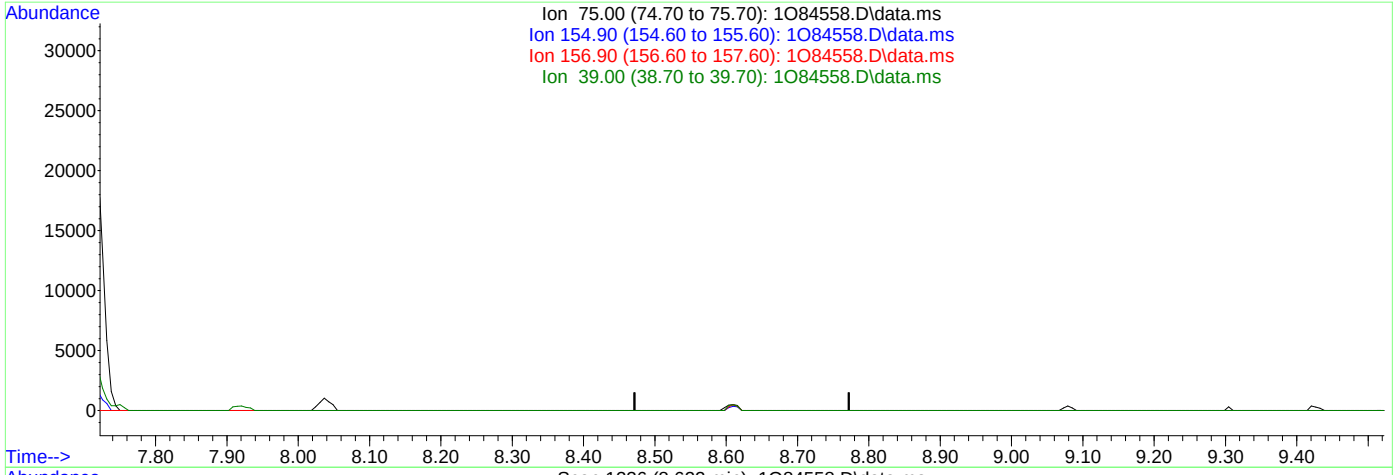
response 361

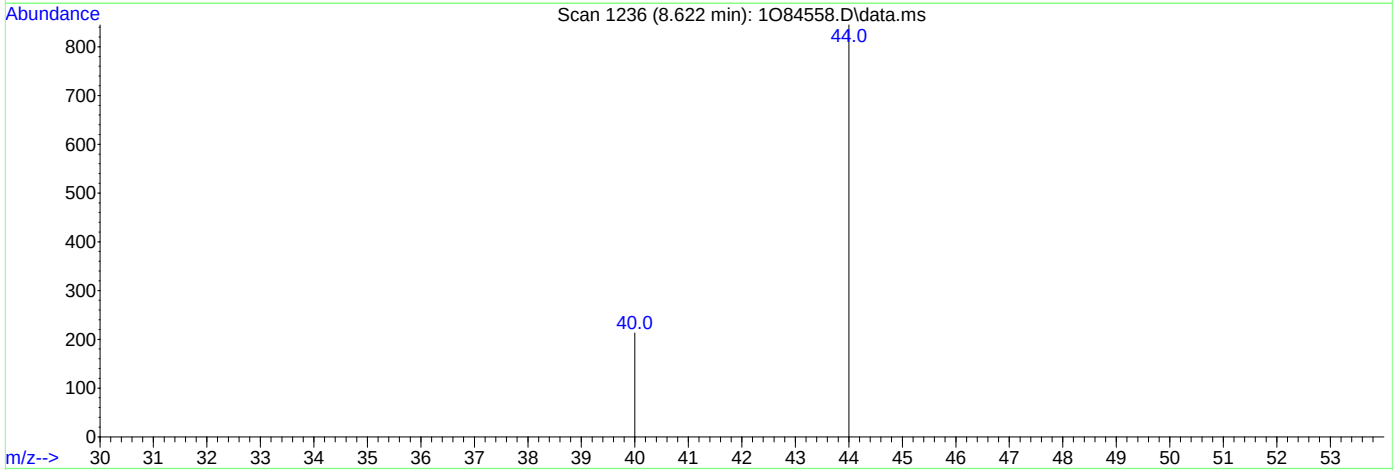
Ion	Exp%	Act%
126.00	100	100
91.00	817.20	1013.93#
65.00	114.10	146.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

8.622min (-8.622) 0.00ug/L

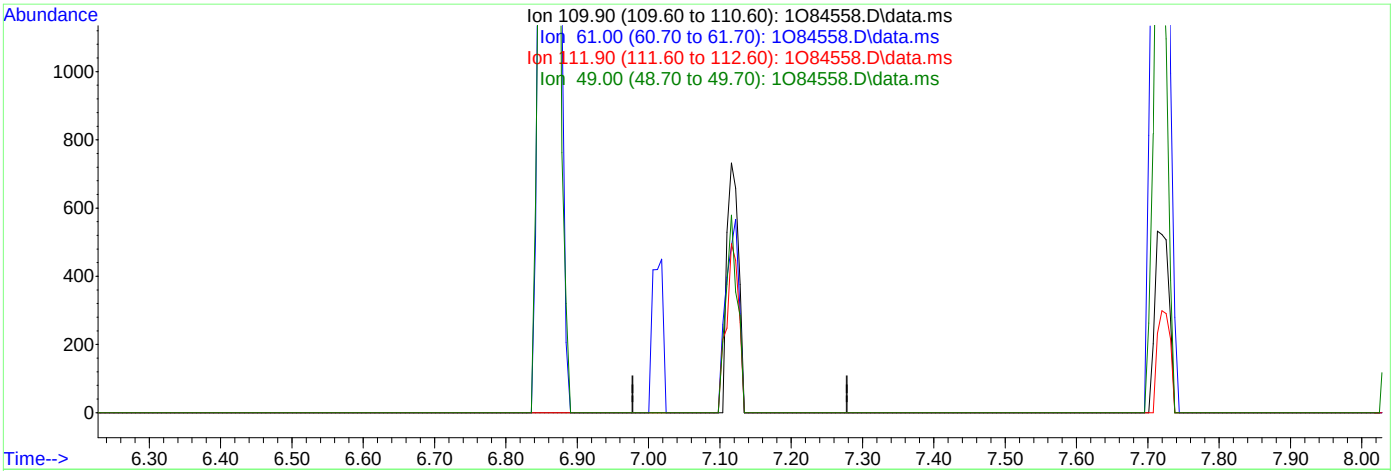
response 0

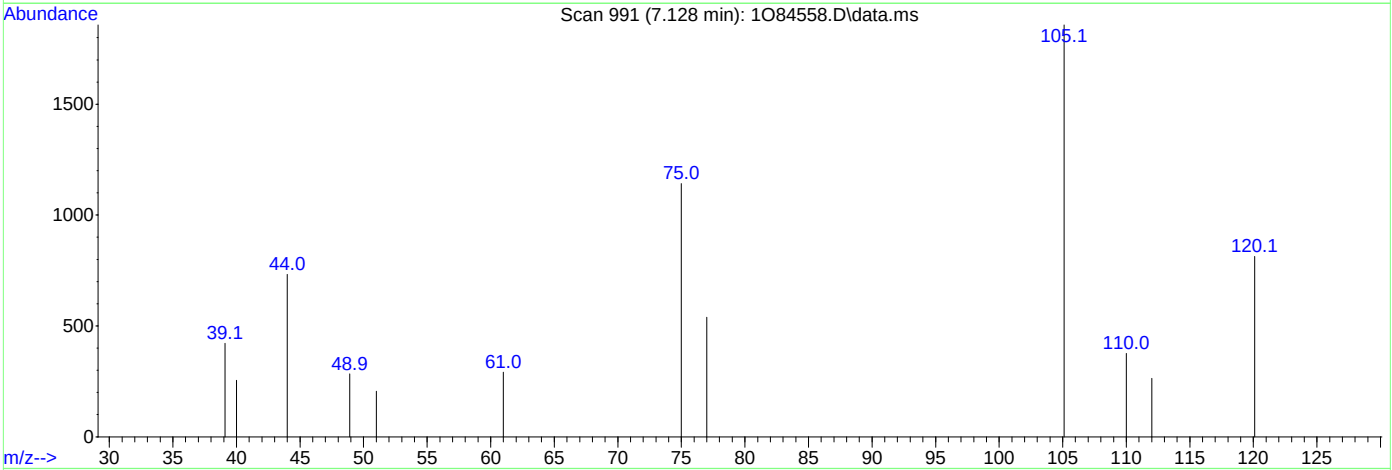
Ion	Exp%	Act%
75.00	100	0.00
154.90	71.30	0.00#
156.90	89.40	0.00#
39.00	78.10	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(94) 1,2,3-Trichloropropane ( )

7.128min (-7.128) 0.00ug/L

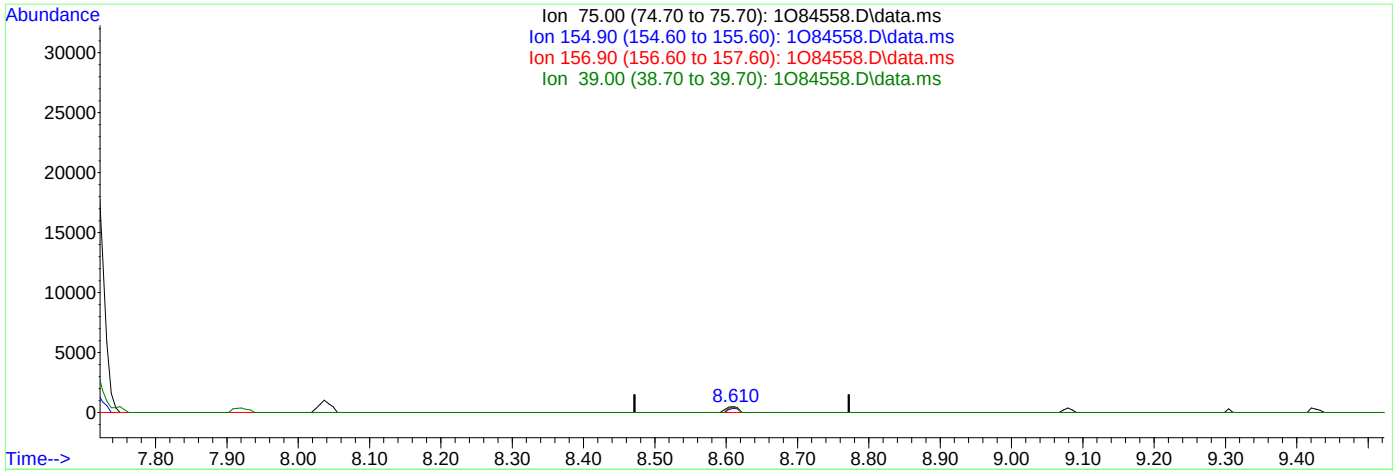
response 0

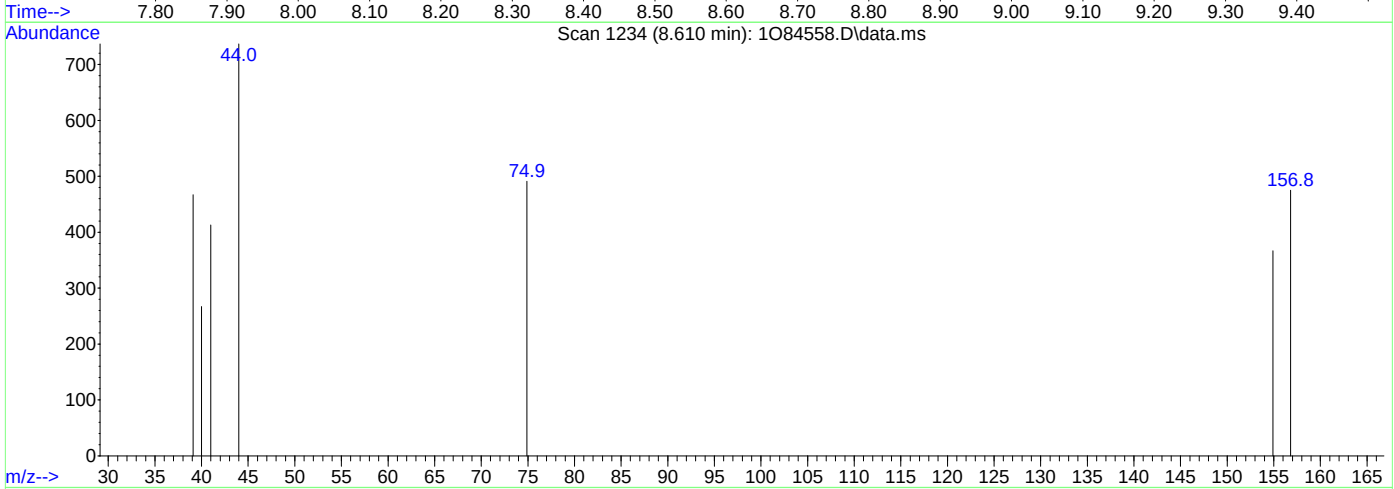
Ion	Exp%	Act%
109.90	100	0.00
61.00	78.60	0.00#
111.90	62.90	0.00#
49.00	62.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

8.610min (-0.012) 0.77ug/L m

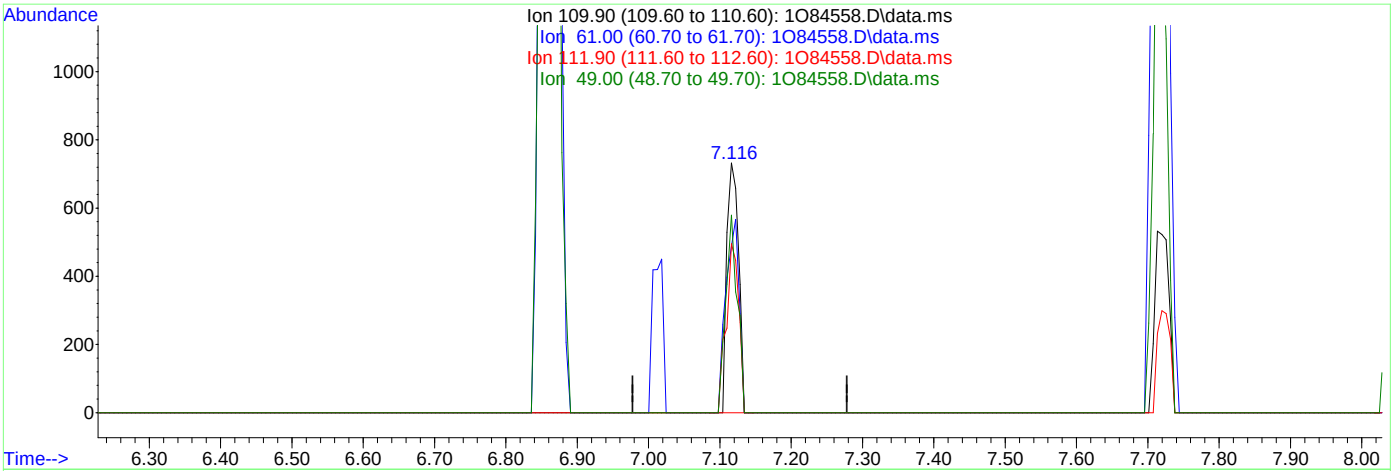
response 598

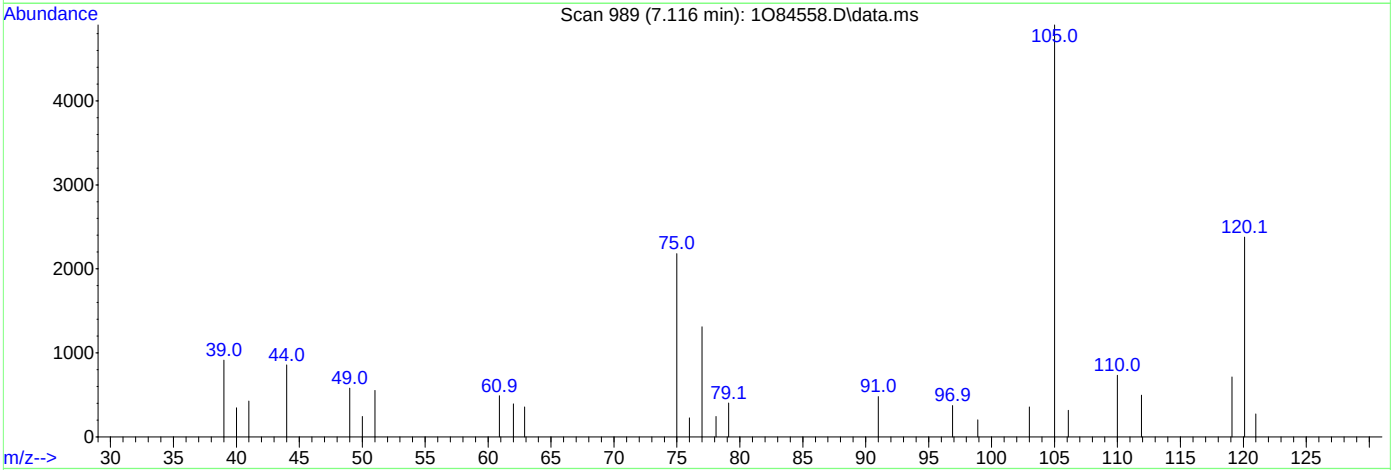
Ion	Exp%	Act%
75.00	100	100
154.90	71.30	74.75
156.90	89.40	96.74
39.00	78.10	95.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(94) 1,2,3-Trichloropropane ( )

7.116min (-0.012) 0.84ug/L m

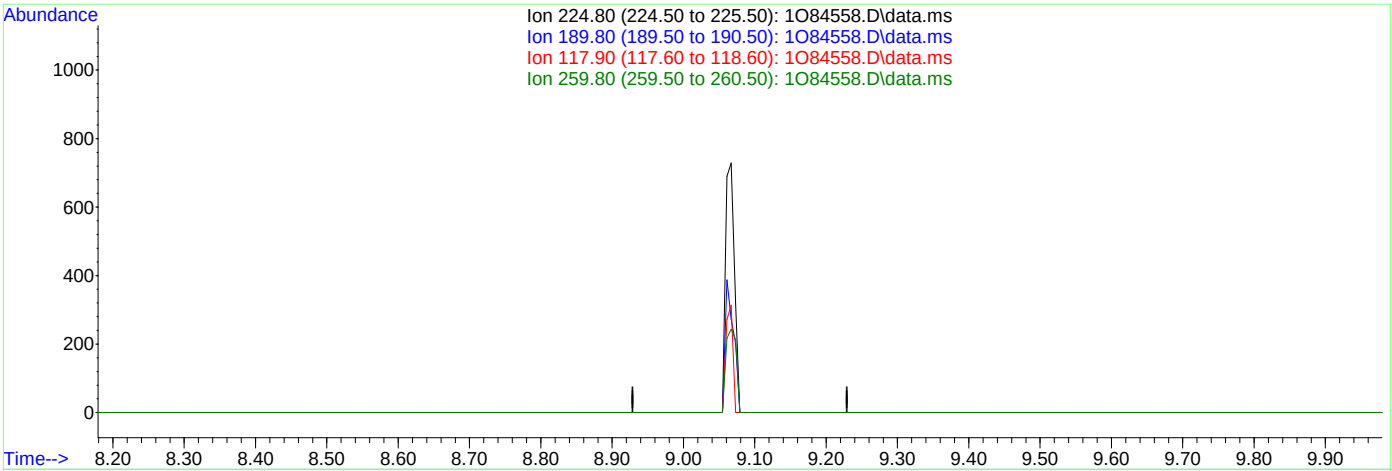
response 840

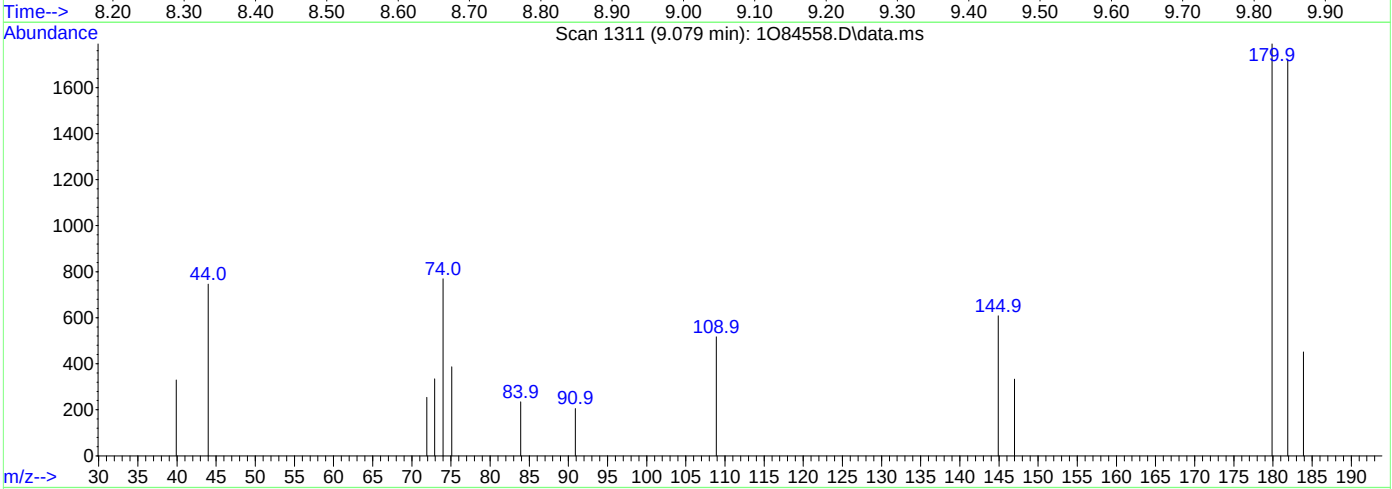
Ion	Exp%	Act%
109.90	100	100
61.00	78.60	66.67
111.90	62.90	67.62
49.00	62.80	79.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(110) Hexachlorobutadiene ( )

9.079min (-9.079) 0.00ug/L

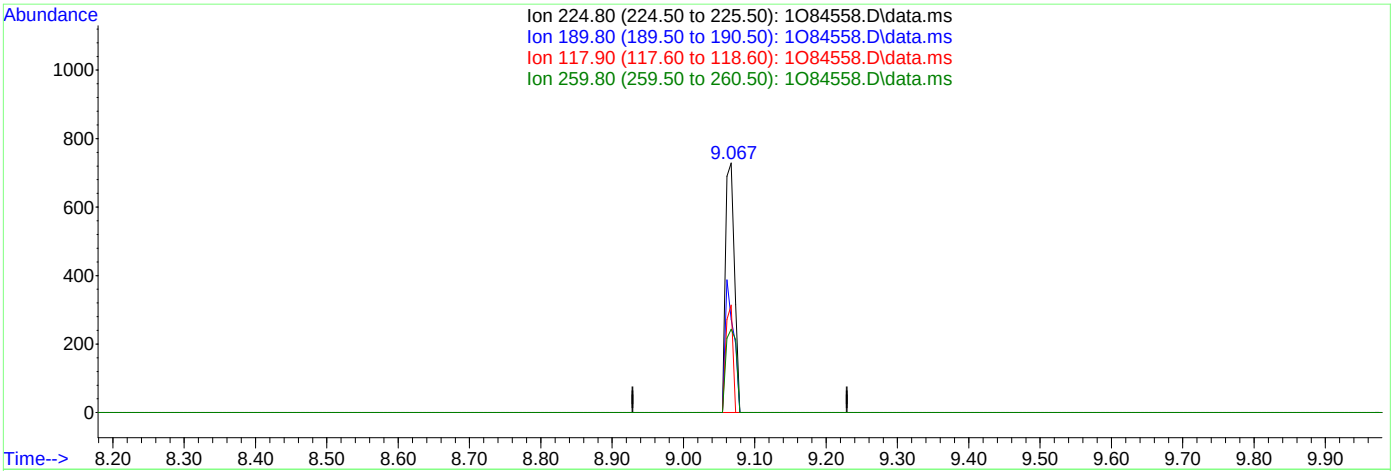
response 0

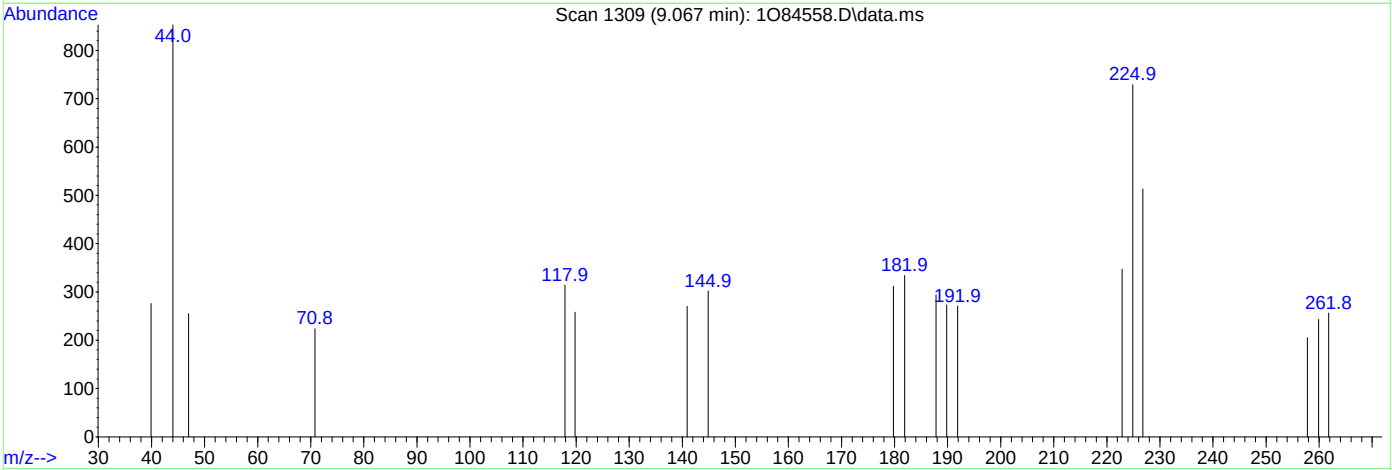
Ion	Exp%	Act%
224.80	100	0.00
189.80	47.20	0.00#
117.90	53.70	0.00#
259.80	38.90	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(110) Hexachlorobutadiene ( )

9.067min (-0.012) 0.79ug/L m

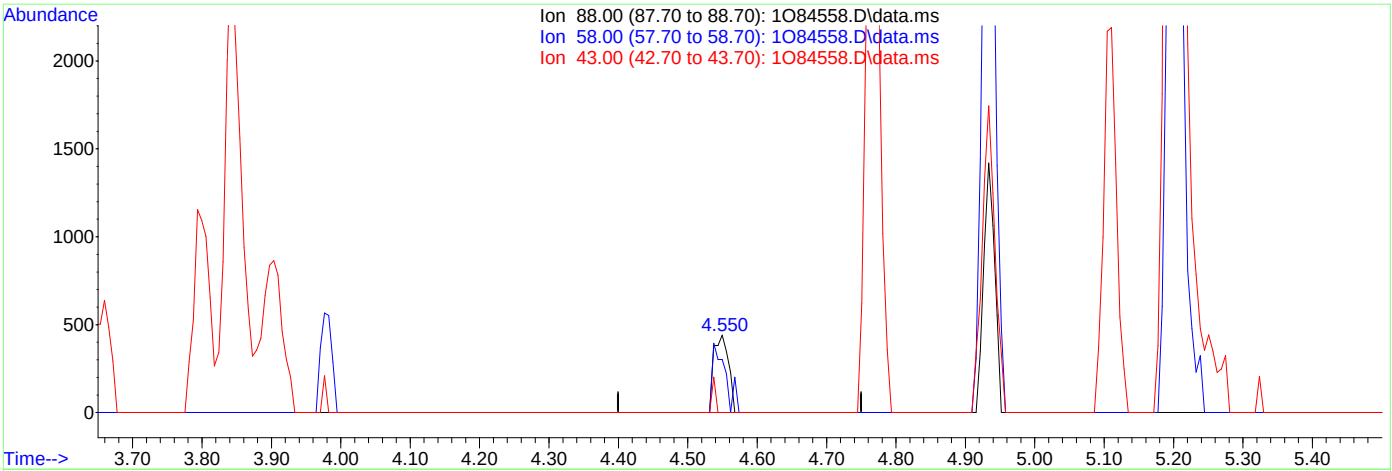
response 634

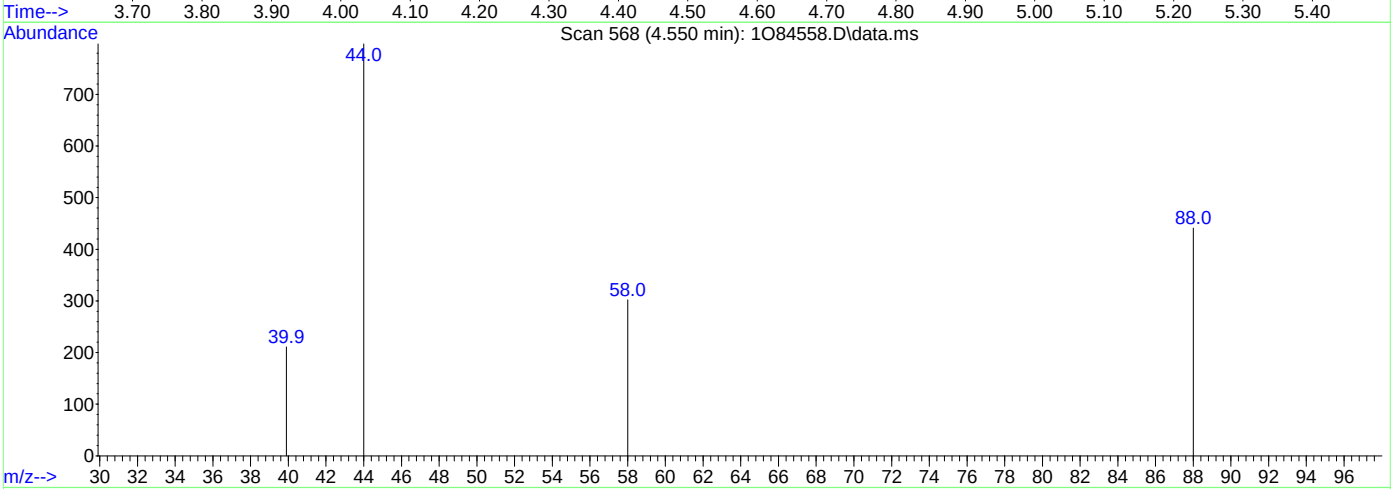
Ion	Exp%	Act%
224.80	100	100
189.80	47.20	37.45
117.90	53.70	43.07
259.80	38.90	33.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(59) 1,4-Dioxane

4.550min (-0.000) 14.44ug/L m

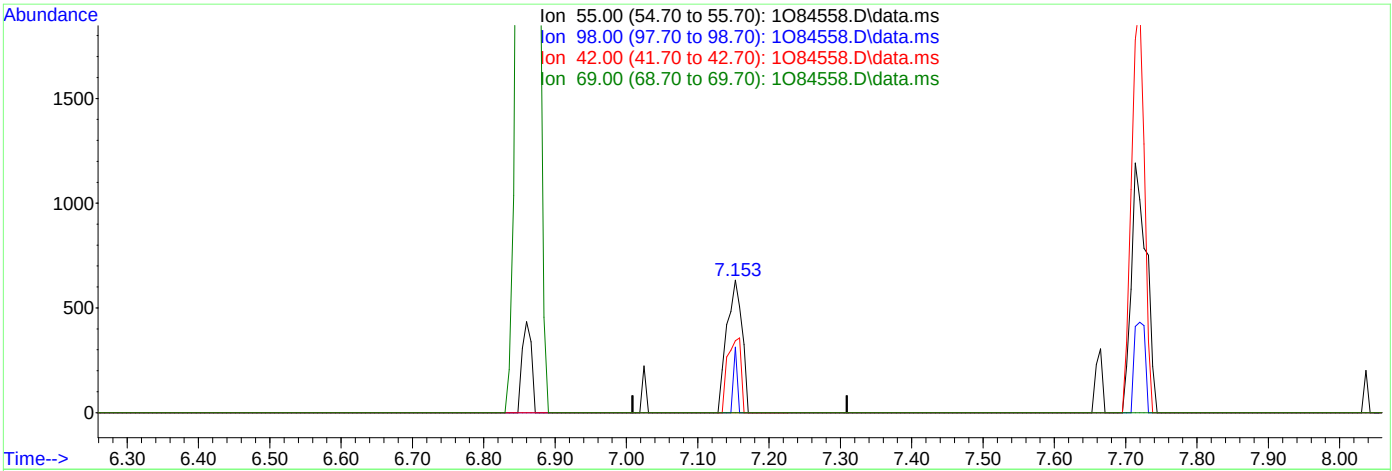
response 651

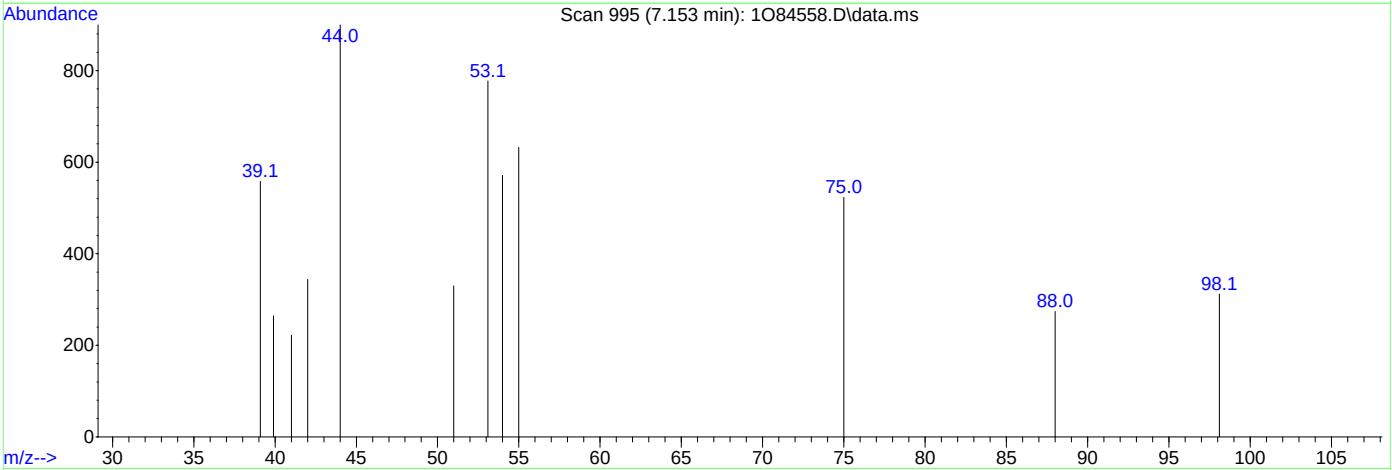
Ion	Exp%	Act%
88.00	100	100
58.00	85.80	68.48
43.00	33.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(95) Cyclohexanone

7.153min (-0.006) 4.16ug/L m

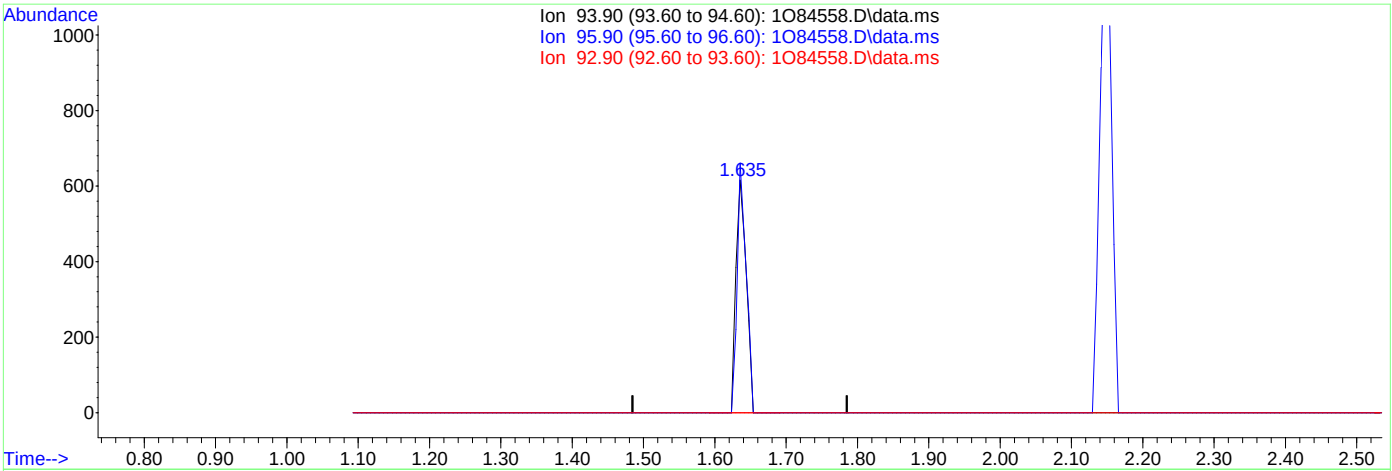
response 940

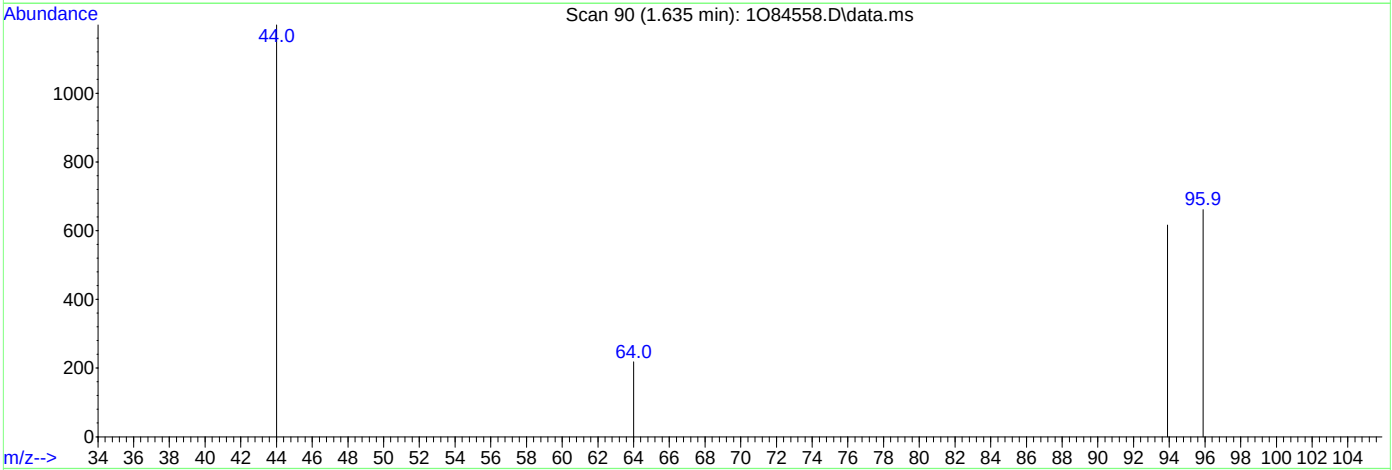
Ion	Exp%	Act%
55.00	100	100
98.00	32.70	49.37
42.00	58.20	54.43
69.00	24.00	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(6) Bromomethane ( )

1.635min (+0.000) 0.64ug/L m

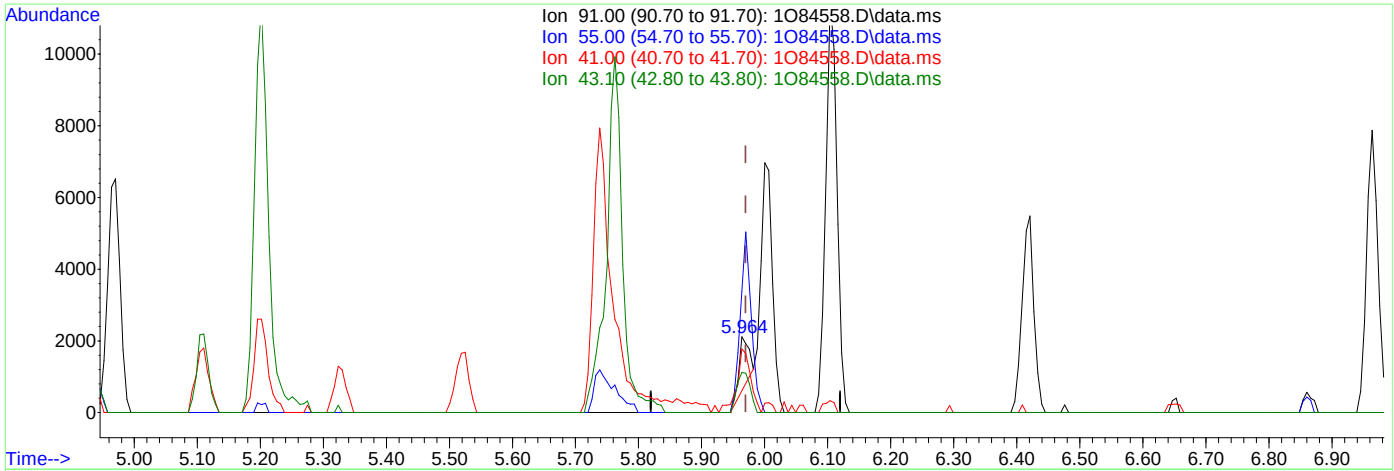
response 619

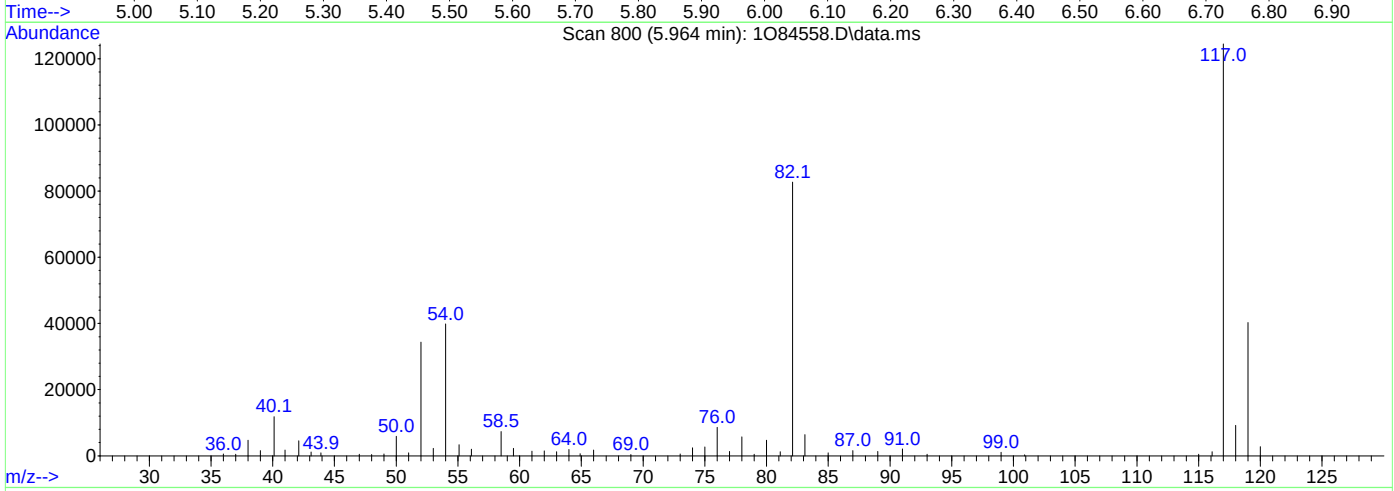
Ion	Exp%	Act%
93.90	100	100
95.90	97.60	107.31
92.90	20.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 0.66ug/L

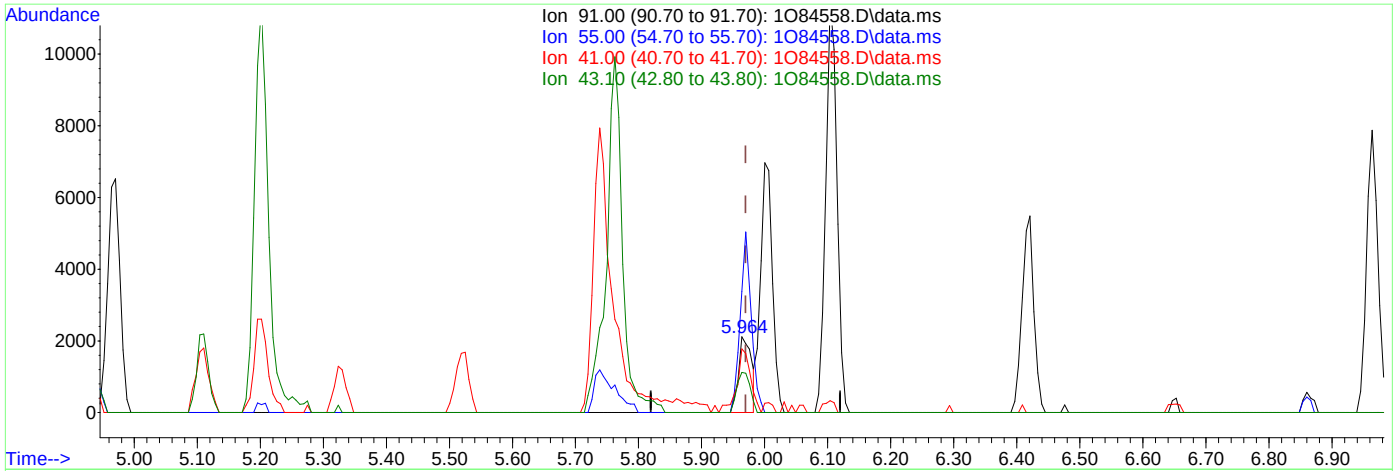
response 1708

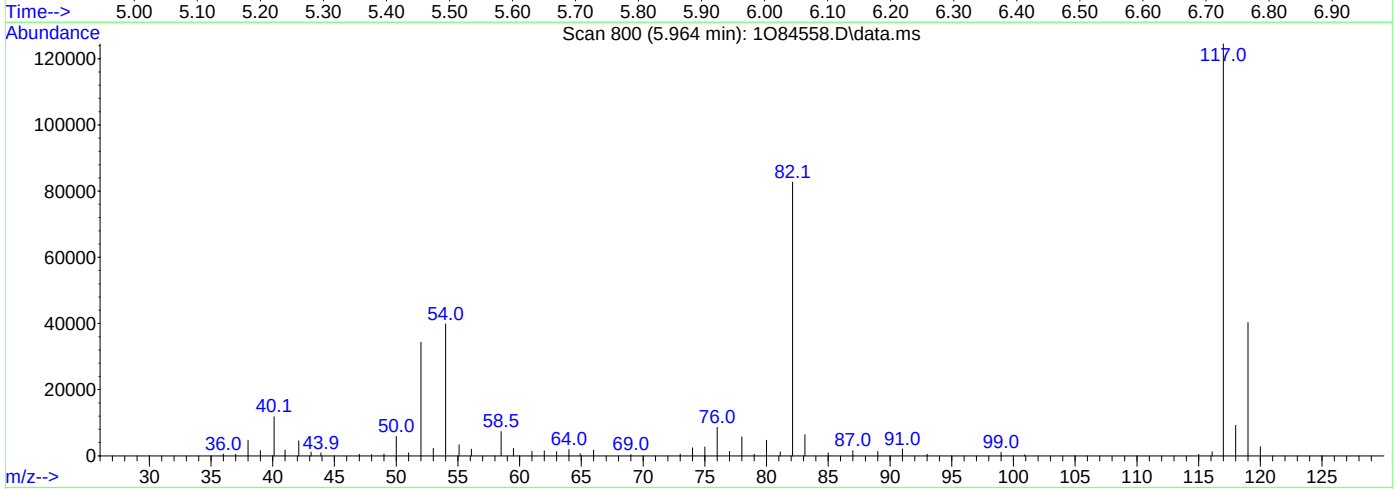
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	159.88#
41.00	70.80	73.30
43.10	55.10	52.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 1.18ug/L m

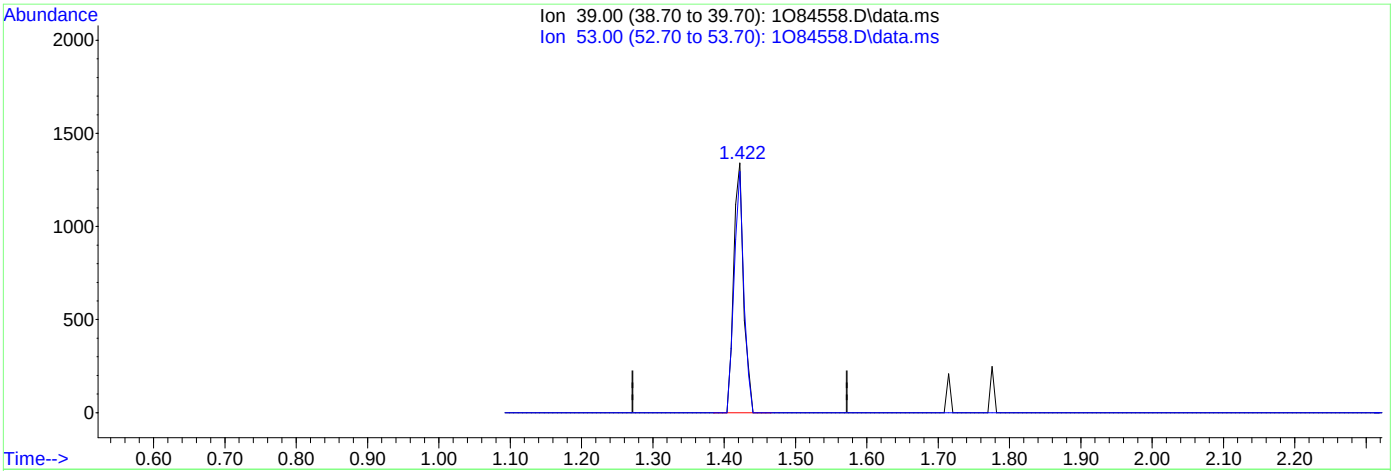
response 3043

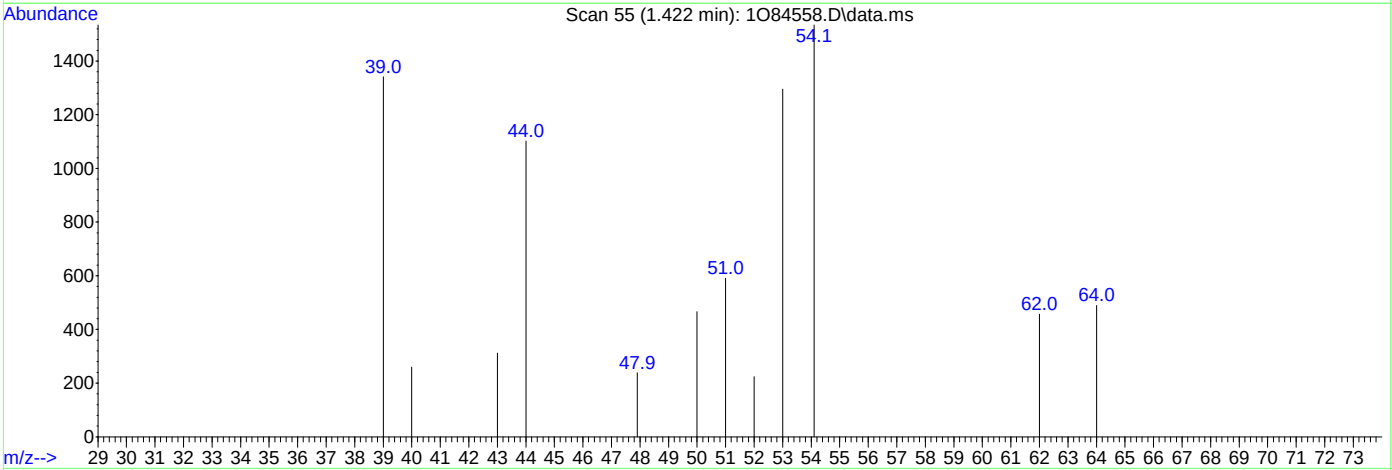
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	159.88#
41.00	70.80	83.88
43.10	55.10	52.93

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84558.D
Acq On : 2 Jun 2024 9:26 am
Operator : jeniferw
Sample : IC3054-1 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:37:34 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84558.D\data.ms

(4) 1,3-butadiene

1.422min (+0.000) 0.56ug/L m

response 1294

Ion	Exp%	Act%
39.00	100	100
53.00	78.50	96.57
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:44:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.977	96	525285	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.976	117	352944	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	190846	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.507	113	131528	48.23	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	96.46%			
50) 1,2-Dichloroethane-d4	3.818	65	174862	44.90	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	89.80%			
63) Toluene-d8	4.934	98	506048	49.33	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.66%			
86) 4-Bromofluorobenzene	6.860	174	132369	49.18	ug/L		-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.36%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.197	85	2923	1.55	ug/L		93
3) Chloromethane	1.343	50	5498	2.25	ug/L		94
4) 1,3-butadiene	1.422	39	2616	1.13	ug/L		83
5) Vinyl Chloride	1.404	62	4117	1.66	ug/L		99
6) Bromomethane	1.636	94	780m	0.81	ug/L		
7) Chloroethane	1.715	64	1558	1.86	ug/L	#	66
8) Trichlorofluoromethane	1.812	101	4592	1.39	ug/L		93
9) Ethyl Ether	2.026	59	4174	1.96	ug/L		95
10) Ethanol	2.135	45	2028	38.32	ug/L	#	37
11) 1,2-Dichlorotrifluoroe...	2.148	67	3510	1.38	ug/L		93
12) 1,1-Dichloroethene	2.148	61	6309	1.91	ug/L		97
13) Freon 113	2.178	101	3042	1.69	ug/L		93
14) Carbon Disulfide	2.166	76	10471	2.04	ug/L		95
15) Iodomethane	2.239	142	689m	0.83	ug/L		
16) Acrolein	2.355	56	6743	9.25	ug/L		95
17) Allyl chloride	2.434	41	5398	1.94	ug/L		88
18) Methylene Chloride	2.501	49	10023	3.15	ug/L		96
19) Acetone	2.526	43	13525	8.95	ug/L		94
20) Methyl acetate	2.599	43	32493	10.05	ug/L		98
21) trans-1,2-Dichloroethene	2.593	61	6965	2.11	ug/L		95
22) Hexane	2.648	56	4044	2.06	ug/L		97
23) Methyl Tert Butyl Ether	2.660	73	10093	1.89	ug/L		87
24) Tert Butyl Alcohol	2.709	59	9439	17.27	ug/L		90
25) Acetonitrile	2.800	41	12347	25.50	ug/L		96
26) Di-isopropyl ether	2.873	45	14609	2.11	ug/L		98
27) Chloroprene	2.934	53	5690	1.83	ug/L		87
28) 1,1-Dichloroethane	2.952	63	8463	2.04	ug/L		97
29) Acrylonitrile	2.977	52	13091	9.12	ug/L		98
30) ETBE	3.080	59	12451	1.95	ug/L		99
31) Vinyl acetate	3.087	43	40453	7.42	ug/L		98
32) cis-1,2-Dichloroethene	3.257	96	4457	2.12	ug/L		93
33) 2,2-Dichloropropane	3.318	77	4227	2.09	ug/L		93
34) Bromochloromethane	3.367	128	2005	2.04	ug/L		92
35) Cyclohexane	3.373	56	6631	1.81	ug/L		91
36) Chloroform	3.404	83	7603	1.96	ug/L		91
37) Ethyl acetate	3.464	43	34533	8.81	ug/L		98
38) Tetrahydrofuran	3.495	42	3290	2.17	ug/L		94
40) Carbon Tetrachloride	3.495	117	3896	2.02	ug/L		95
41) 1,1,1-Trichloroethane	3.532	97	5112	1.80	ug/L		99
42) 2-Butanone	3.574	43	22315	9.34	ug/L		99
43) 1,1-Dichloropropene	3.599	75	5303	1.96	ug/L		99
44) tert-Butyl formate	3.660	59	8426	12.40	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:44:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	15321	19.83	ug/L		94
46) Methacrylonitrile	3.757	41	41999	18.28	ug/L		98
47) Benzene	3.739	78	17163	2.08	ug/L		95
48) TAME	3.800	73	8588	1.80	ug/L		86
49) Isobutyl alcohol	3.842	43	7600m	35.63	ug/L		
51) 1,2-Dichloroethane	3.855	62	6689	1.84	ug/L		97
52) Tert Amyl Alcohol	3.903	59	6692	17.10	ug/L	#	65
53) Trichloroethene	4.074	95	4522	2.04	ug/L		98
54) Methylcyclohexane	4.080	83	4579	1.56	ug/L	#	85
55) Dibromomethane	4.330	93	2711	1.94	ug/L		96
56) 1,2-Dichloropropane	4.385	63	4885	2.17	ug/L		92
57) Bromodichloromethane	4.422	83	4578	1.84	ug/L		96
58) Methyl methacrylate	4.507	41	3971	1.77	ug/L		92
59) 1,4-Dioxane	4.537	88	1197	26.72	ug/L		96
60) 2-Chloroethyl vinyl ether	4.769	63	14825	8.28	ug/L		97
61) cis-1,3-Dichloropropene	4.812	75	4739	1.58	ug/L		93
64) Toluene	4.964	91	17013	2.02	ug/L		98
65) 2-Nitropropane	5.111	41	5214	10.71	ug/L		89
66) 4-Methyl-2-pentanone	5.202	43	32916	8.78	ug/L		97
67) trans-1,3-Dichloropropene	5.226	75	4316	1.46	ug/L		96
68) Tetrachloroethene	5.220	166	3818	2.06	ug/L		93
69) Ethyl methacrylate	5.324	69	3880	1.48	ug/L		87
70) 1,1,2-Trichloroethane	5.336	83	3580	2.00	ug/L		92
71) Dibromochloromethane	5.458	129	2665	1.68	ug/L		98
72) 1,3-Dichloropropane	5.519	76	6686	2.00	ug/L		97
73) 1,2-Dibromoethane	5.623	107	3772	1.92	ug/L		92
74) 3,3-dimethyl-1-butanol	5.738	57	43134	88.14	ug/L		97
75) 2-hexanone	5.763	43	34589	9.02	ug/L		97
76) 1-Chlorohexane	5.964	91	5436m	2.12	ug/L		
77) Ethylbenzene	6.001	91	18079	1.99	ug/L		96
78) Chlorobenzene	5.988	112	11157	2.07	ug/L		91
79) 1,1,1,2-Tetrachloroethane	6.031	131	2879	1.97	ug/L		92
80) m,p-Xylene	6.104	91	27744	3.95	ug/L		99
81) o-Xylene	6.415	91	13216	1.94	ug/L		97
82) Styrene	6.452	104	9129	1.86	ug/L		99
83) Bromoform	6.476	173	1529	1.92	ug/L		96
84) Isopropylbenzene	6.647	105	14709	1.95	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	1809	1.66	ug/L		89
88) n-Propylbenzene	6.964	91	19315	1.83	ug/L		100
89) Bromobenzene	6.946	156	3781	1.84	ug/L		82
90) 1,1,2,2-Tetrachloroethane	7.013	83	5920	1.73	ug/L		97
91) 1,3,5-Trimethylbenzene	7.116	105	12296	1.80	ug/L		99
92) 2-Chlorotoluene	7.086	91	13452	1.88	ug/L		97
93) trans-1,4-Dichloro-2-B...	7.147	53	1881	1.91	ug/L		78
94) 1,2,3-Trichloropropane	7.116	110	1766	1.76	ug/L		88
95) Cyclohexanone	7.147	55	1461m	6.44	ug/L		
96) 4-Chlorotoluene	7.214	91	12480	1.85	ug/L		98
97) tert-Butylbenzene	7.366	91	6868	1.73	ug/L		93
99) 1,2,4-Trimethylbenzene	7.415	105	12133	1.80	ug/L		97
100) Pentachloroethane	7.378	167	1425	1.55	ug/L	#	77
101) sec-Butylbenzene	7.500	105	13908	1.73	ug/L		97
102) 4-Isopropyltoluene	7.610	119	11125	1.73	ug/L		94
103) 1,3-Dichlorobenzene	7.665	146	7685	1.95	ug/L		93
104) 1,2,3-Trimethylbenzene	7.750	105	14055	1.88	ug/L		96
105) 1,4-Dichlorobenzene	7.726	146	8216m	1.94	ug/L		
106) n-Butylbenzene	7.927	92	6141	1.68	ug/L		91
107) Benzyl Chloride	7.915	126	723m	1.87	ug/L		
108) 1,2-Dichlorobenzene	8.037	146	7226	1.97	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:44:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

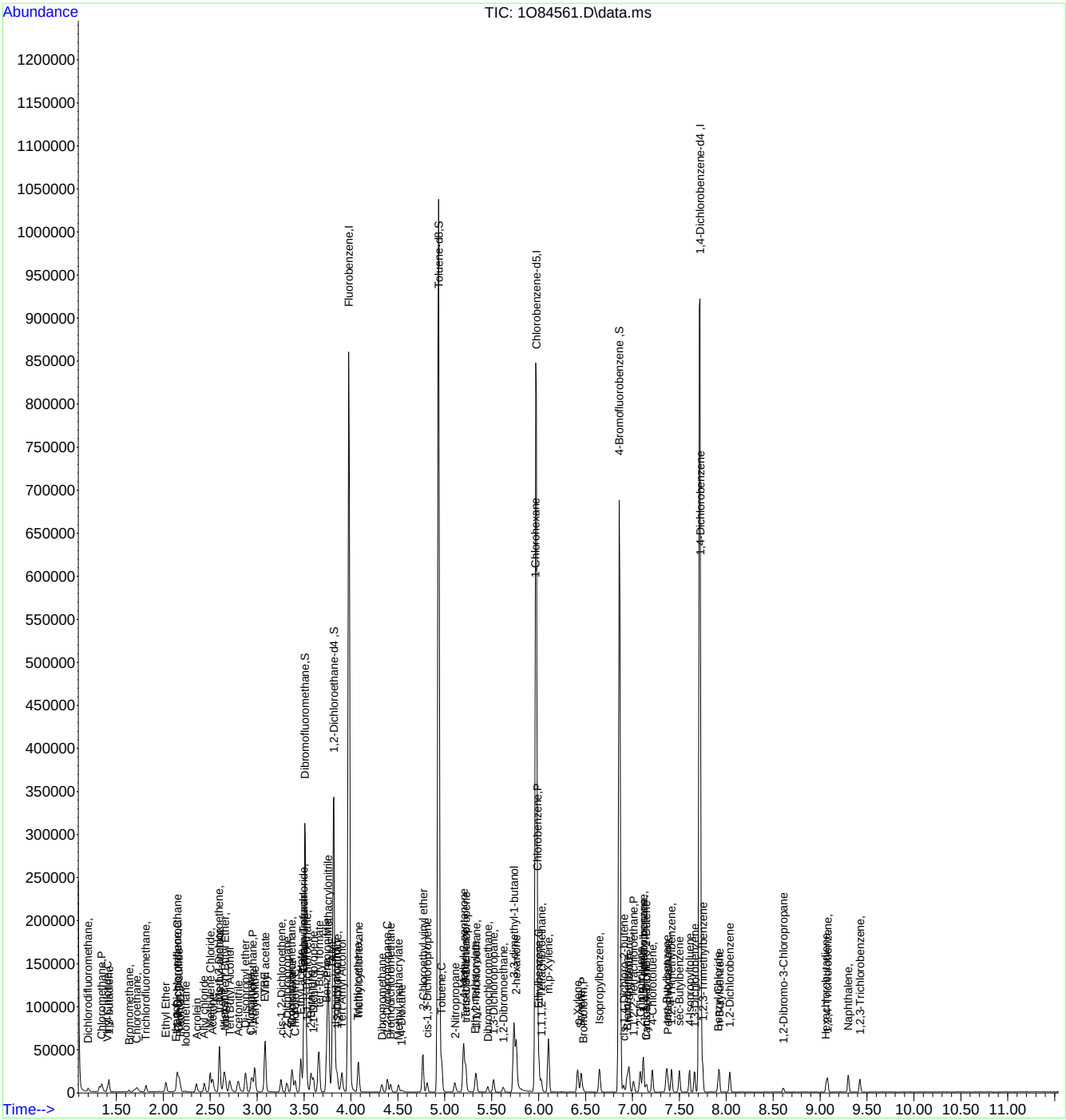
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	1021	1.31	ug/L	92
110) Hexachlorobutadiene	9.061	225	1419	1.76	ug/L	92
111) 1,2,4-Trichlorobenzene	9.079	180	3830	1.87	ug/L	88
112) Naphthalene	9.299	128	11702	1.54	ug/L	95
113) 1,2,3-Trichlorobenzene	9.427	180	4051	2.09	ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:44:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

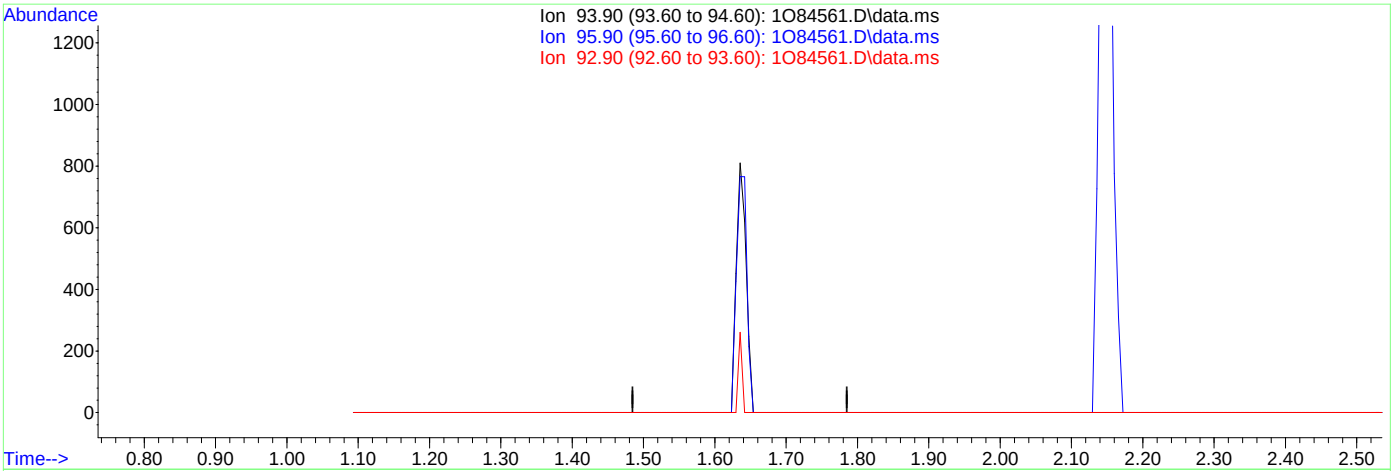
Sample Number: V1O3054-IC3054
Lab FileID: 1O84561.D
Injection Time: 06/02/24 10:54
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

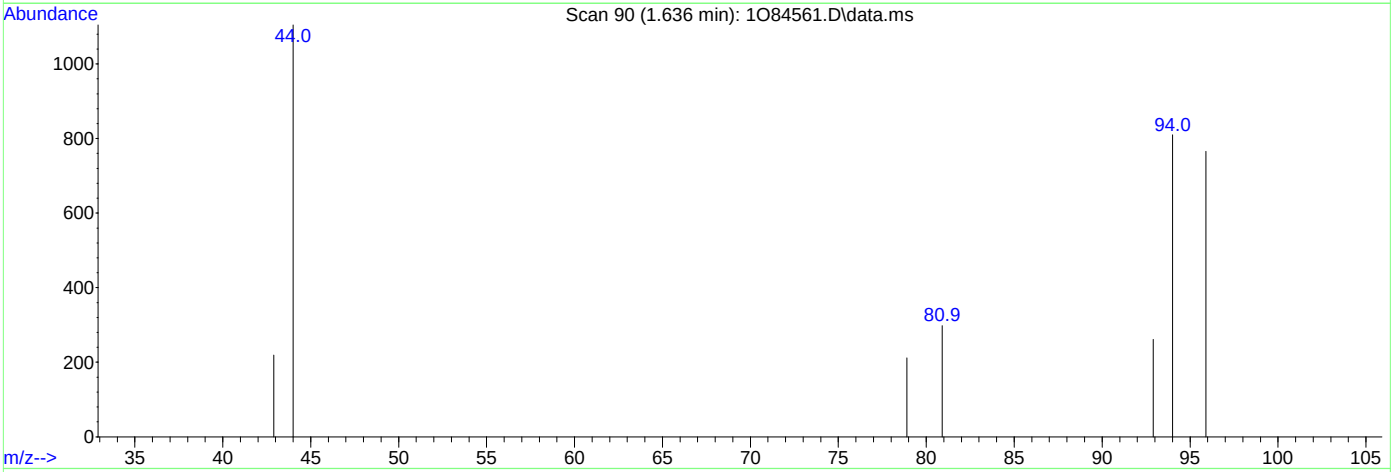
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		1.64	Missed peak
Methyl Iodide	74-88-4		2.24	Missed peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline
Cyclohexanone	108-94-1		7.15	Missed peak
1,4-Dichlorobenzene	106-46-7		7.73	Missed peak
Benzyl Chloride	100-44-7		7.91	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(6) Bromomethane ( )

1.635min (-1.635) 0.00ug/L

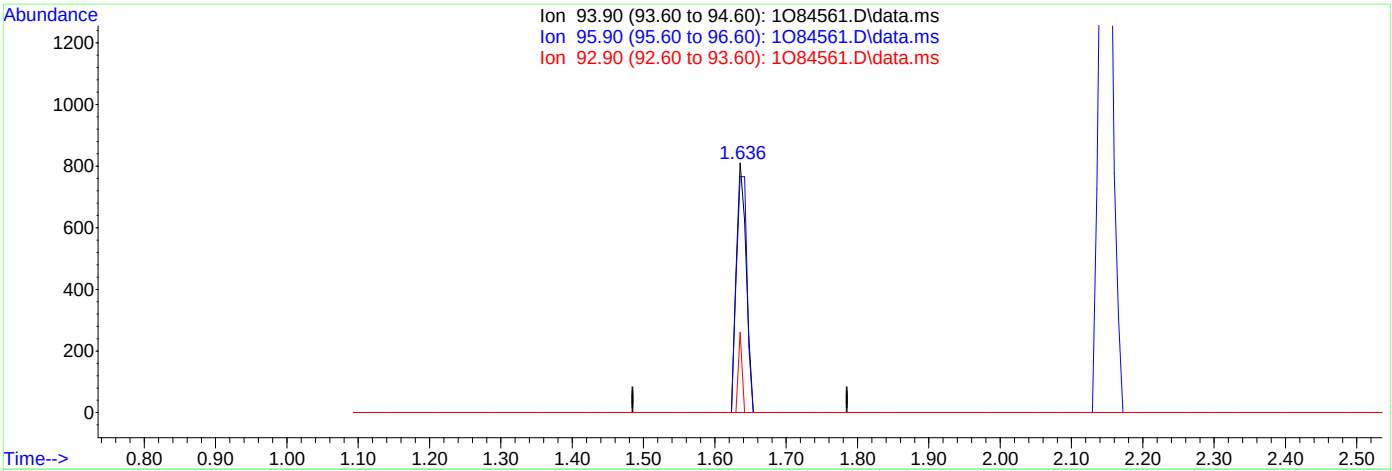
response 0

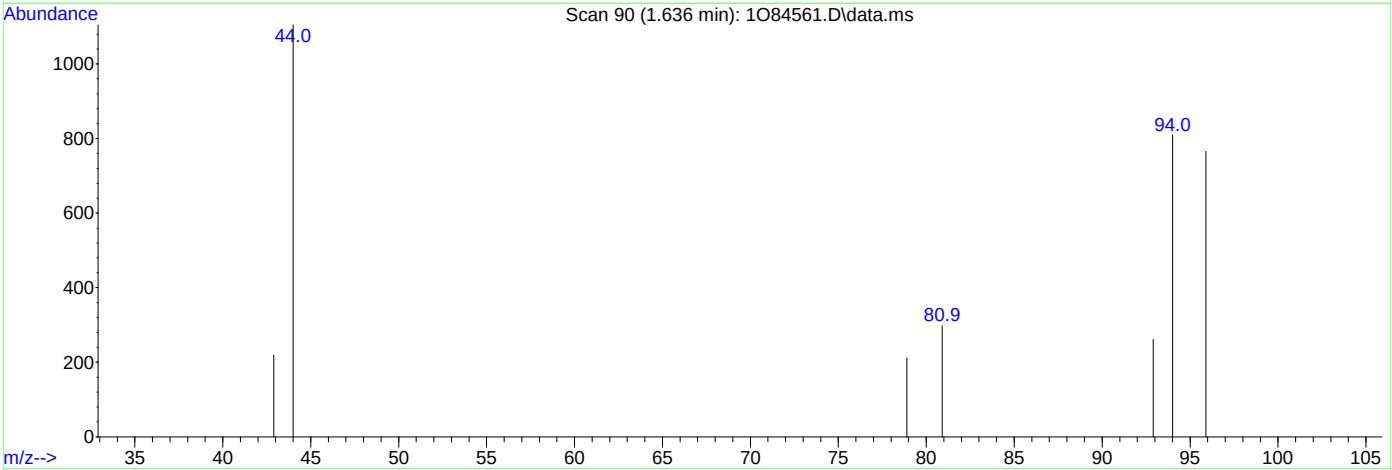
Ion	Exp%	Act%
93.90	100	0.00
95.90	97.60	0.00#
92.90	20.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(6) Bromomethane ( )

1.636min (+0.001) 0.81ug/L m

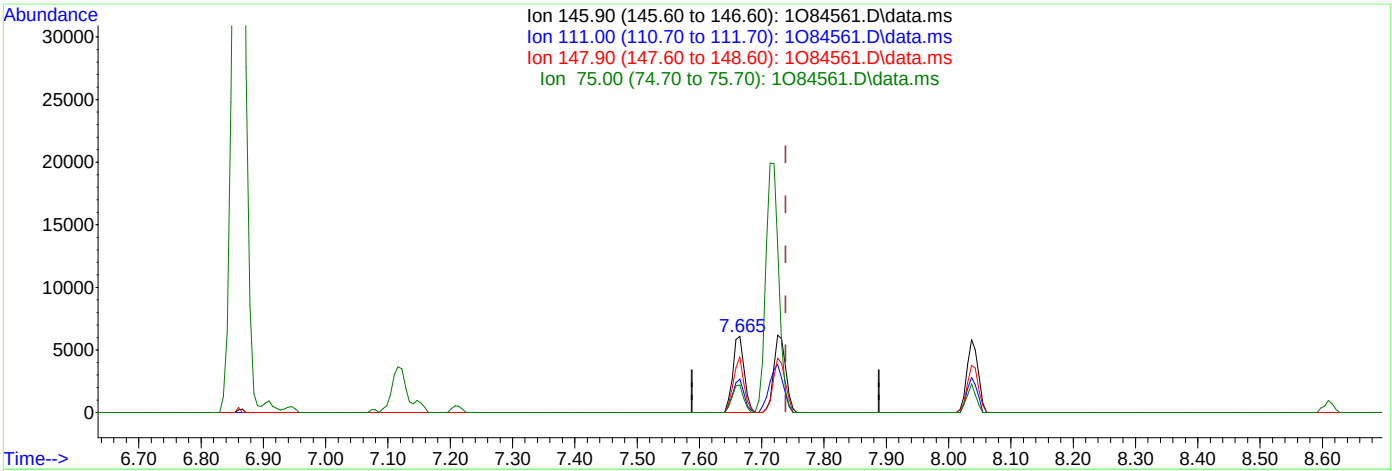
response 780

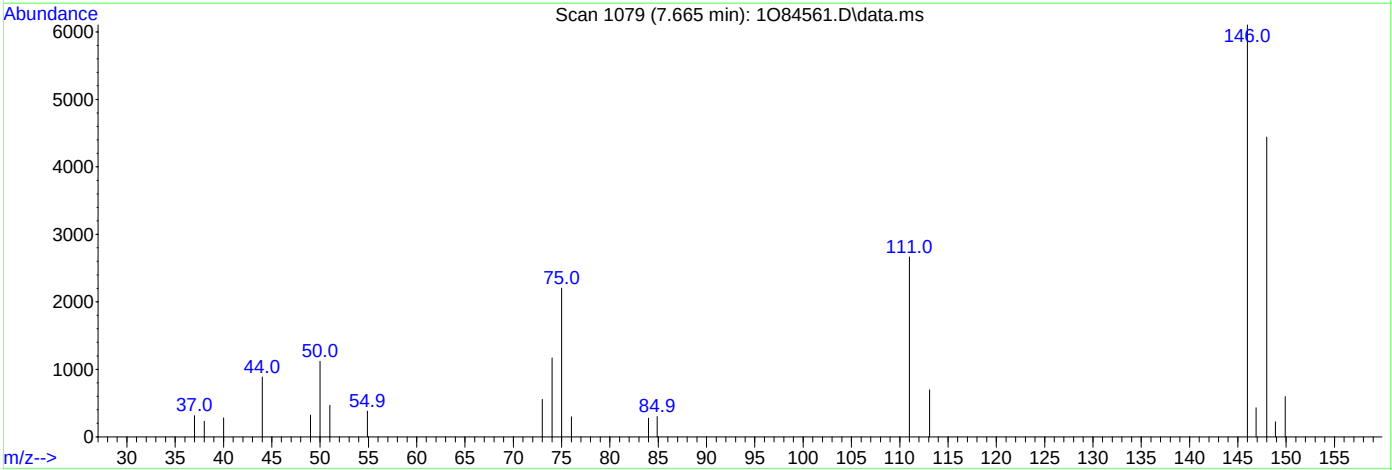
Ion	Exp%	Act%
93.90	100	100
95.90	97.60	94.57
92.90	20.60	32.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(105) 1,4-Dichlorobenzene

7.665min (-0.073) 1.82ug/L

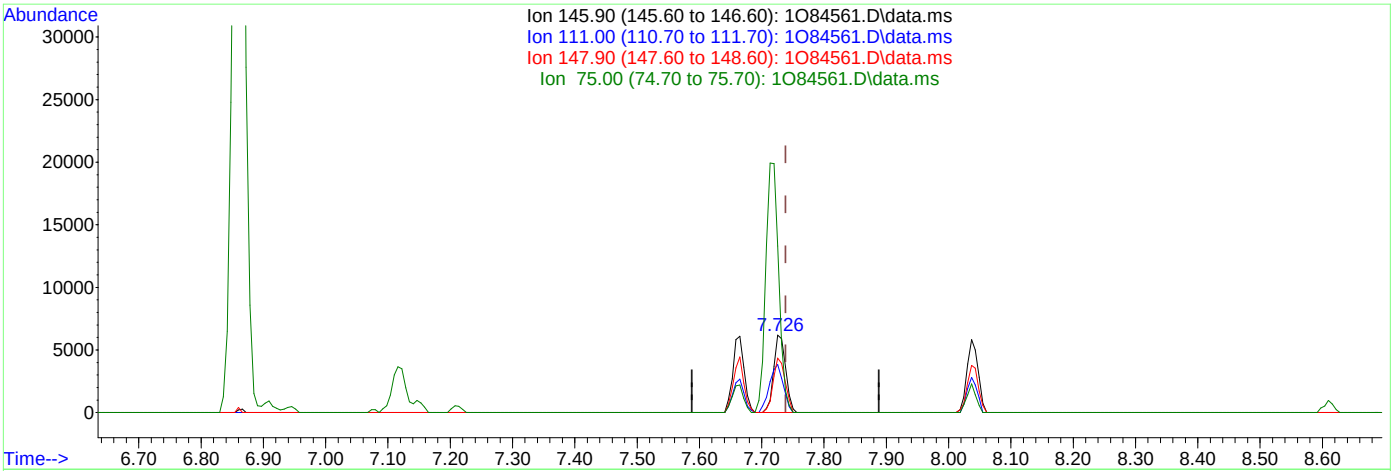
response 7685

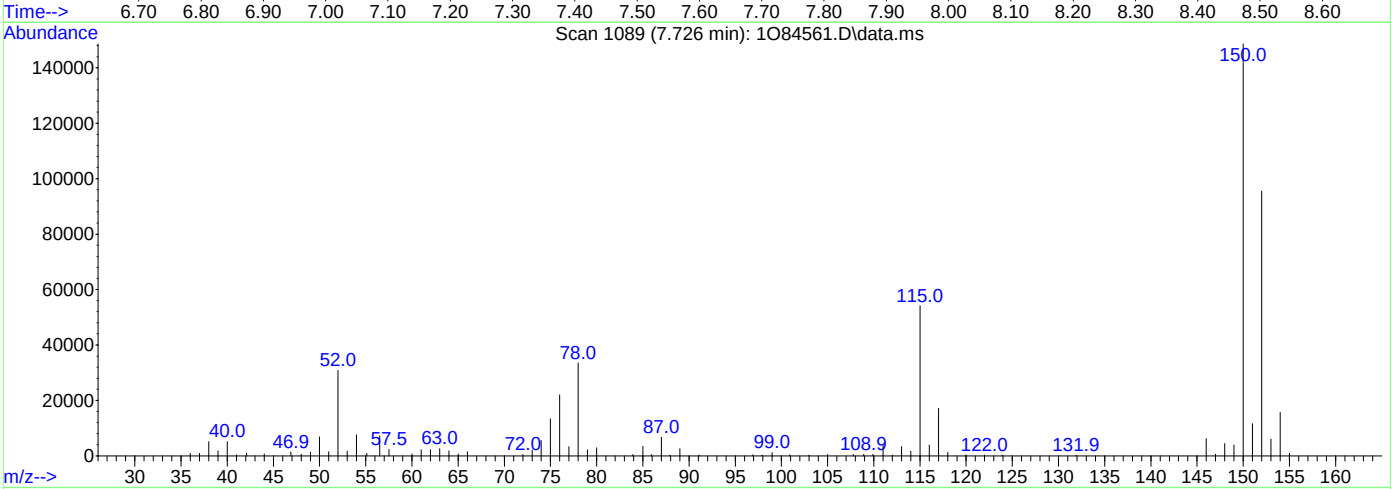
Ion	Exp%	Act%
145.90	100	100
111.00	45.00	43.67
147.90	63.30	72.78
75.00	44.60	36.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(105) 1,4-Dichlorobenzene

7.726min (-0.012) 1.94ug/L m

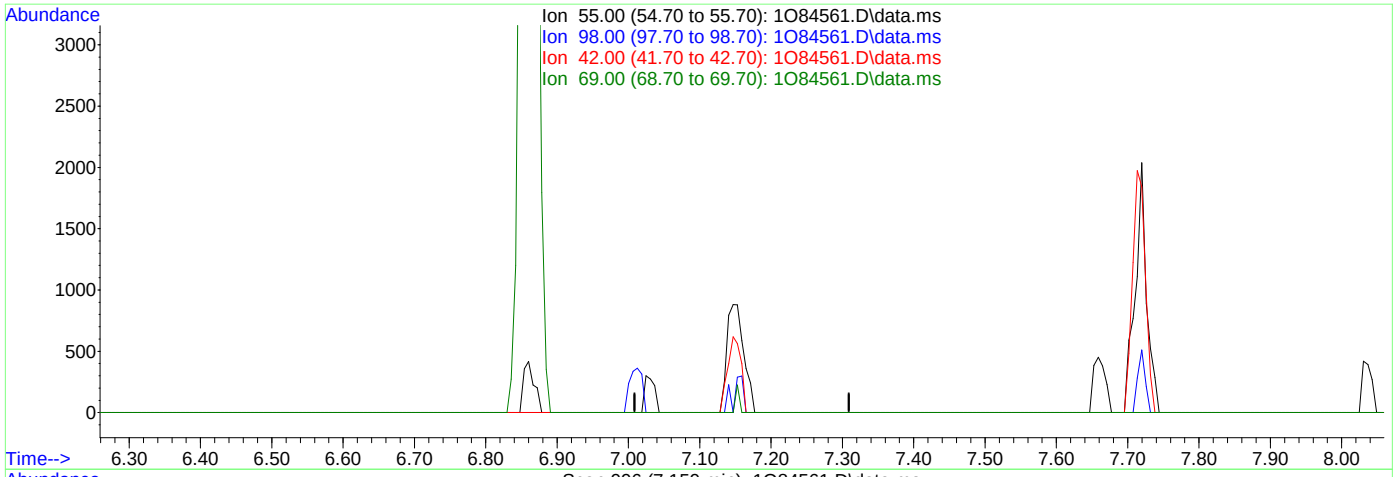
response 8216

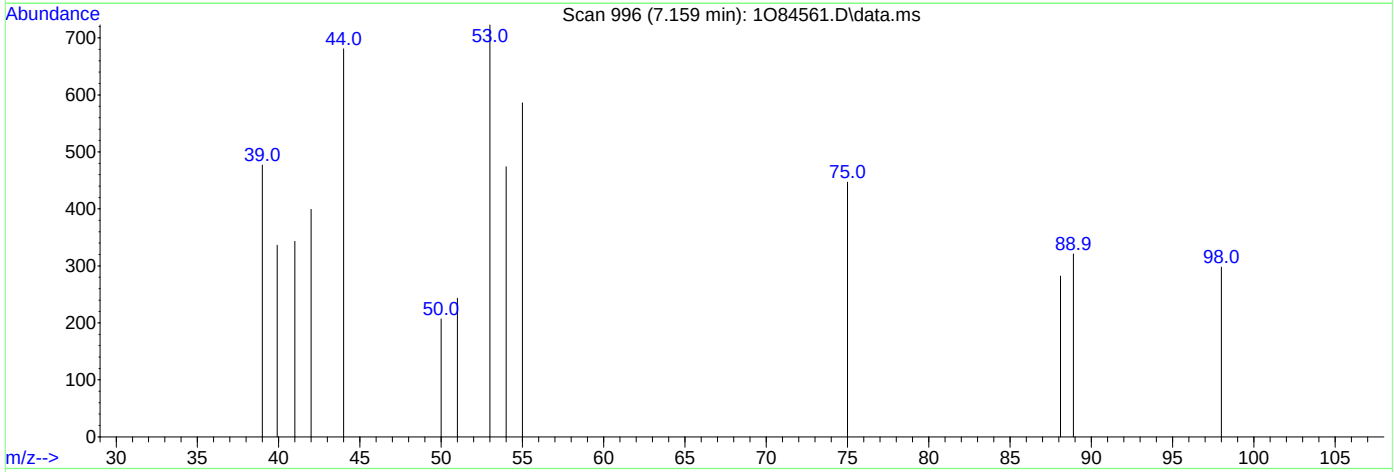
Ion	Exp%	Act%
145.90	100	100
111.00	45.00	62.22
147.90	63.30	70.50
75.00	44.60	215.13#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(95) Cyclohexanone

7.159min (-7.159) 0.00ug/L

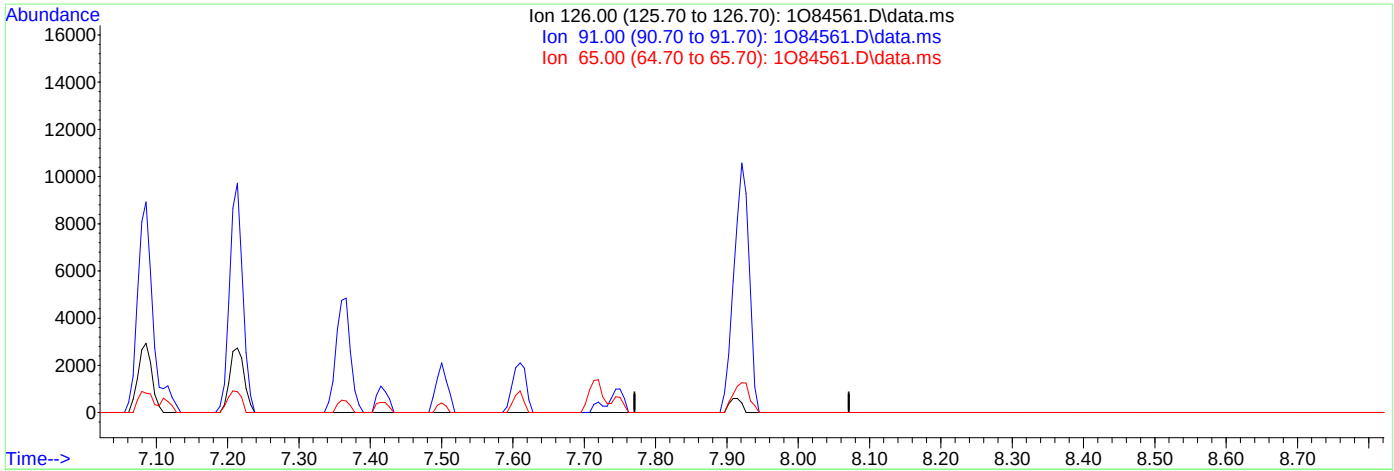
response 0

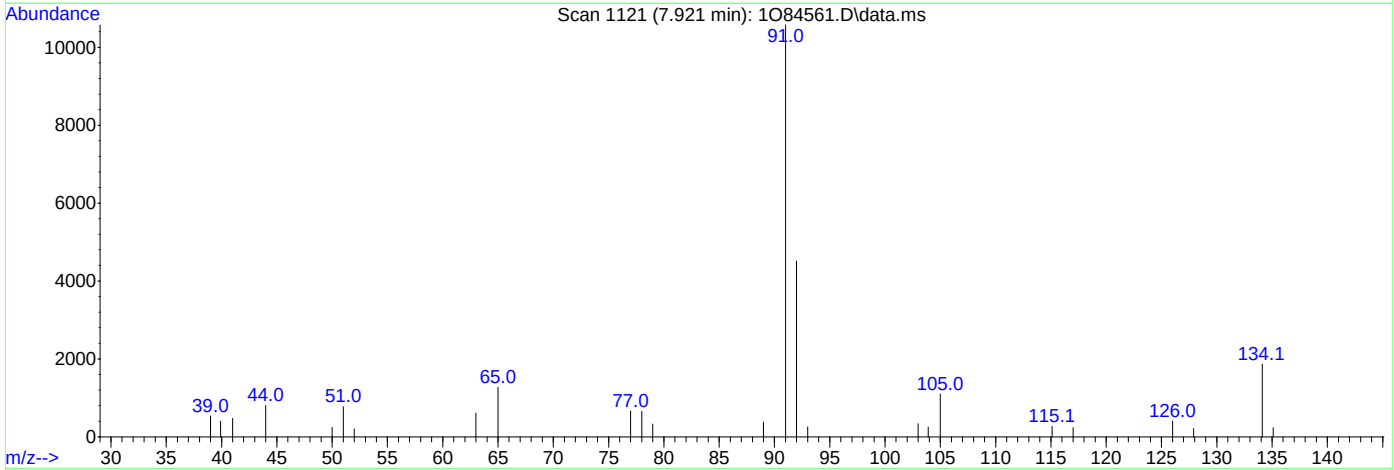
Ion	Exp%	Act%
55.00	100	0.00
98.00	32.70	0.00#
42.00	58.20	0.00#
69.00	24.00	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(107) Benzyl Chloride

7.921min (-7.921) 0.00ug/L

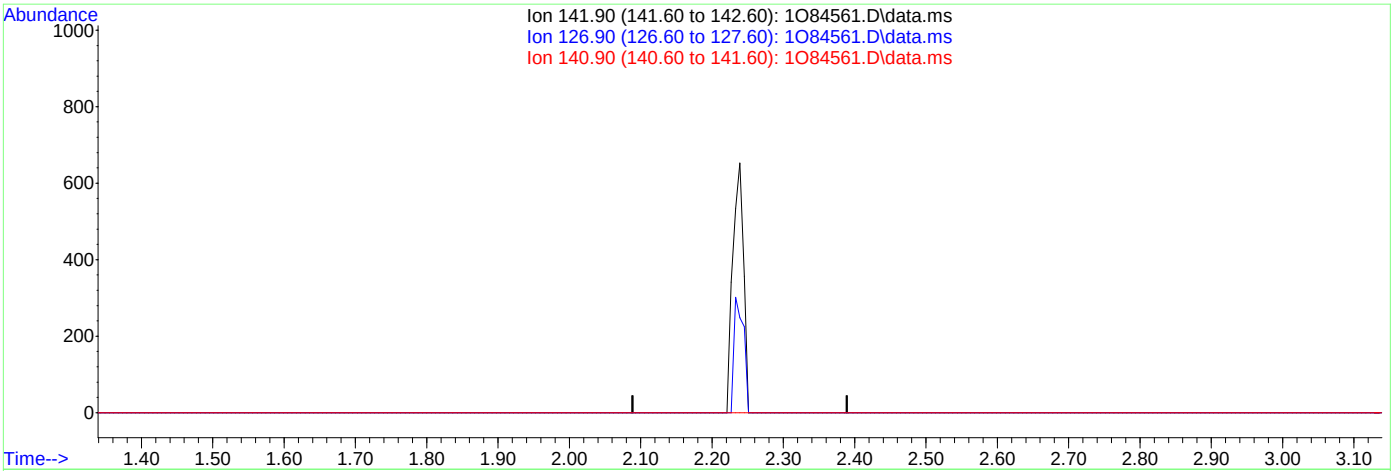
response 0

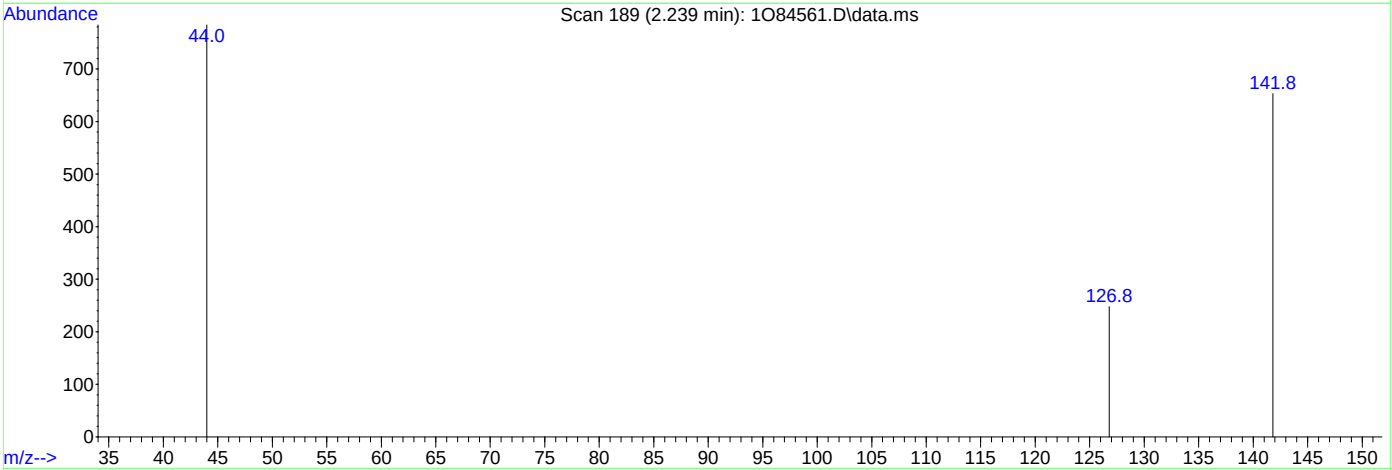
Ion	Exp%	Act%
126.00	100	0.00
91.00	817.20	0.00#
65.00	114.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(15) Iodomethane

2.239min (-2.239) 0.00ug/L

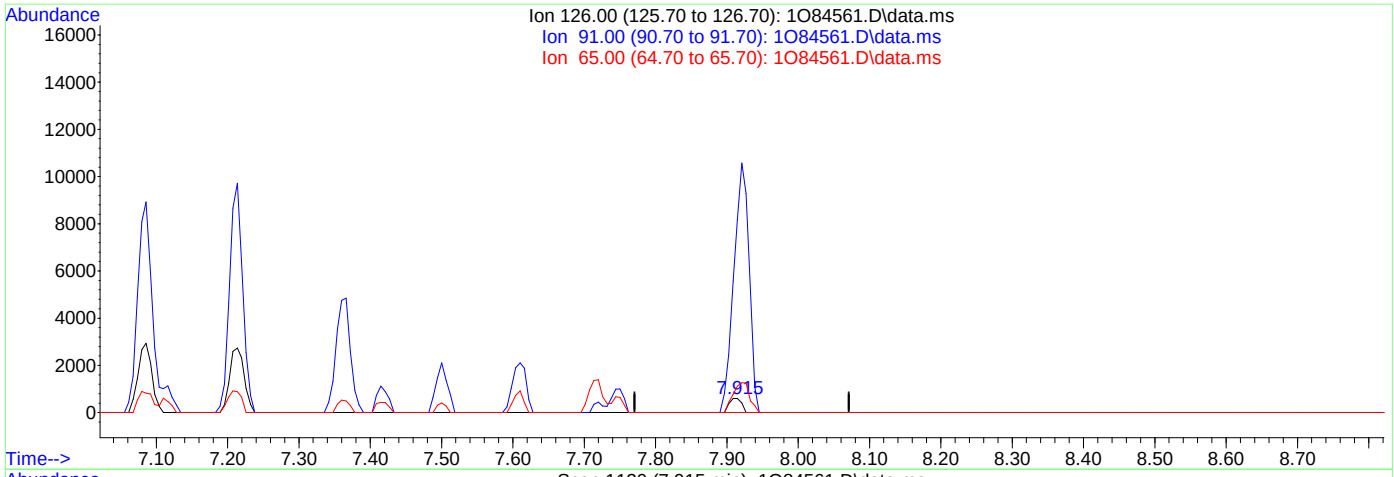
response 0

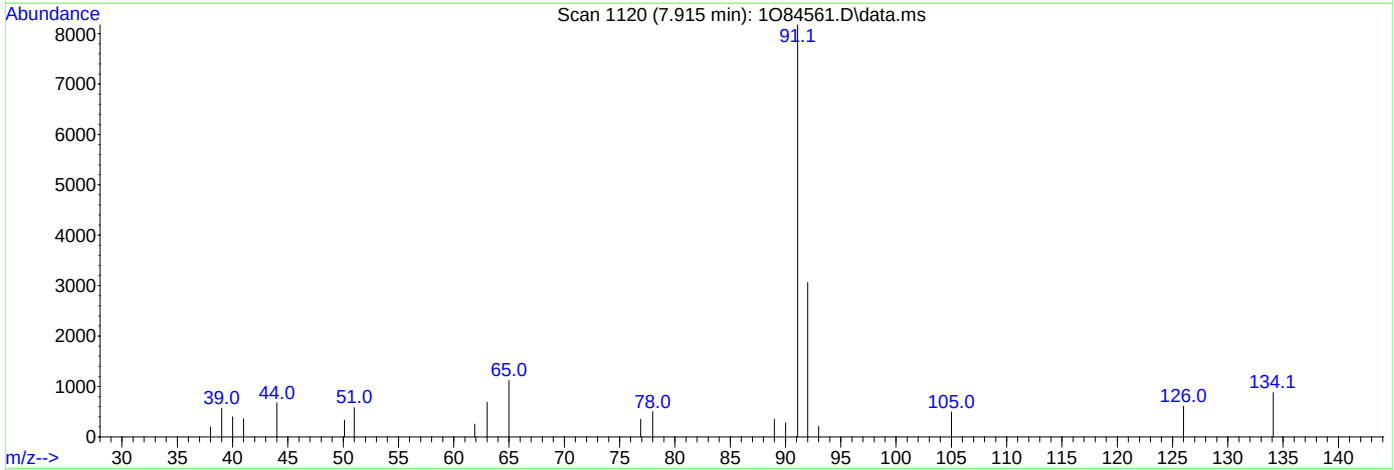
Ion	Exp%	Act%
141.90	100	0.00
126.90	49.60	0.00#
140.90	13.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(107) Benzyl Chloride

7.915min (-0.006) 1.87ug/L m

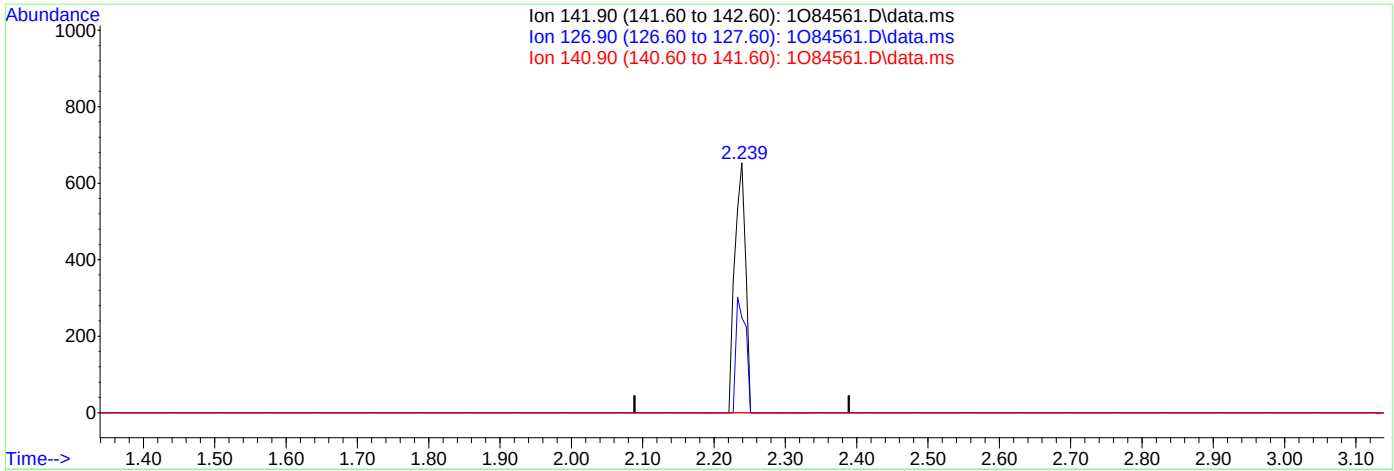
response 723

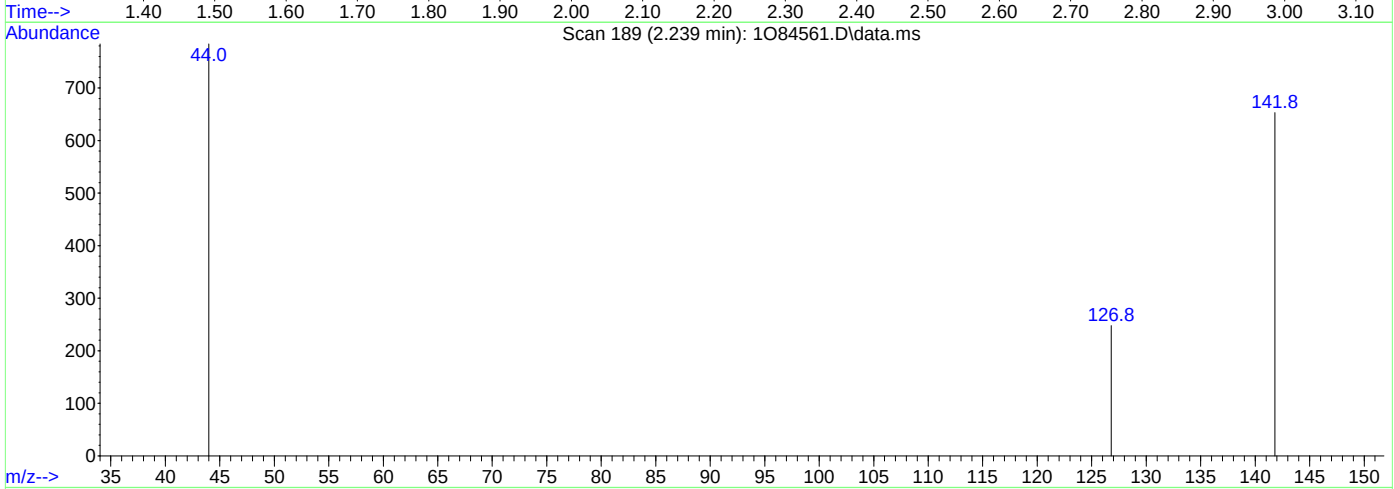
Ion	Exp%	Act%
126.00	100	100
91.00	817.20	1355.72#
65.00	114.10	186.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(15) Iodomethane

2.239min (+0.000) 0.83ug/L m

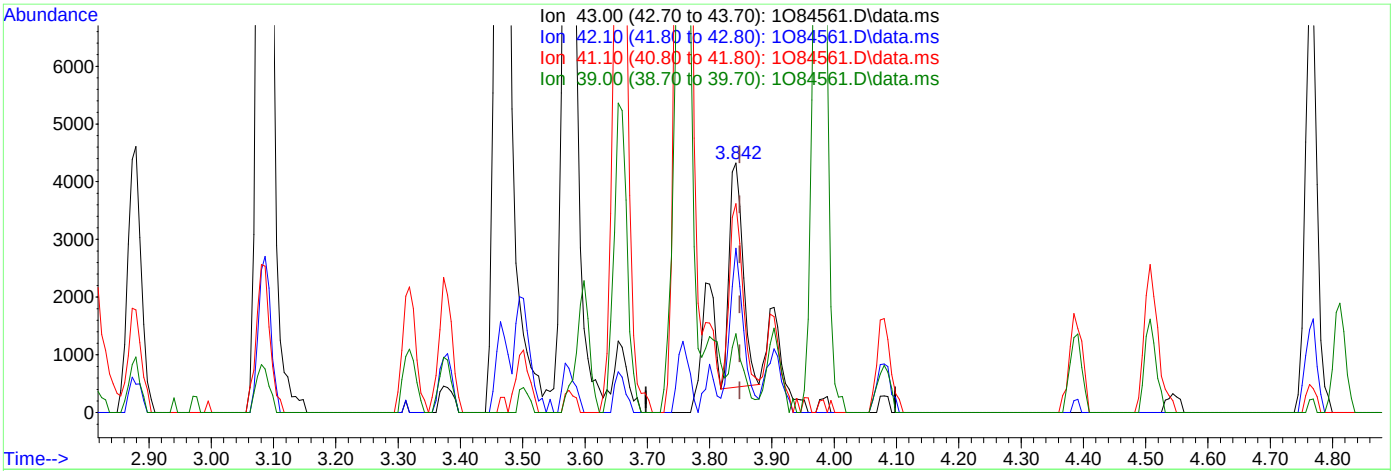
response 689

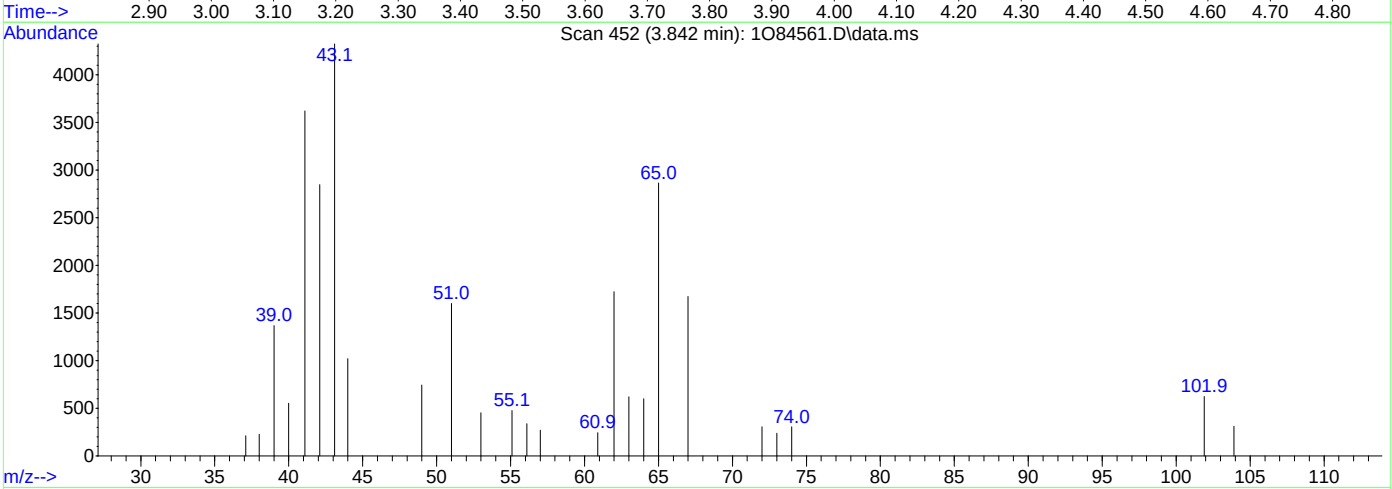
Ion	Exp%	Act%
141.90	100	100
126.90	49.60	37.98
140.90	13.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 27.99ug/L

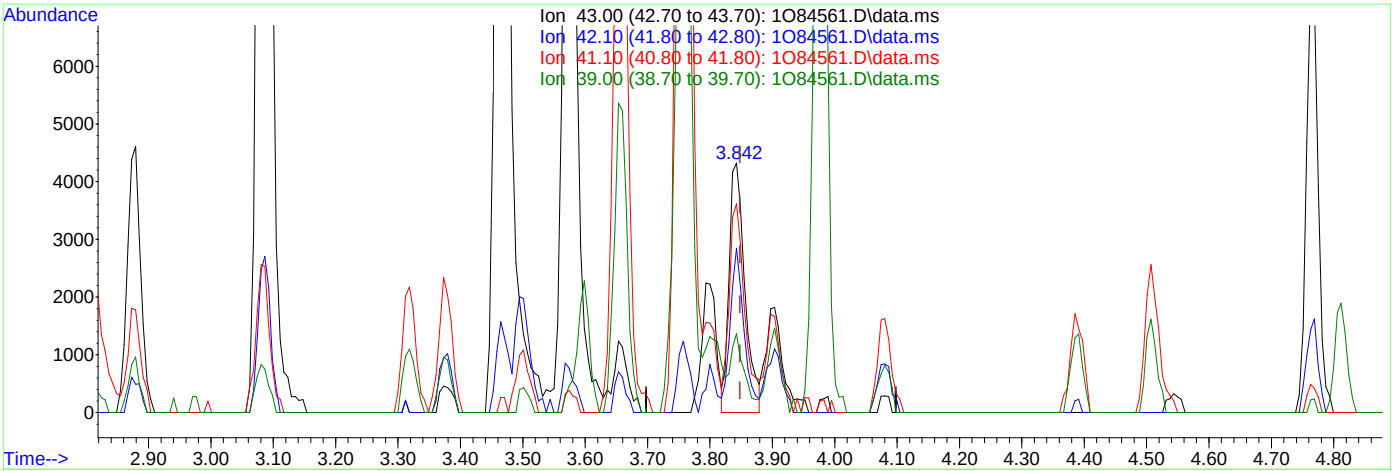
response 5965

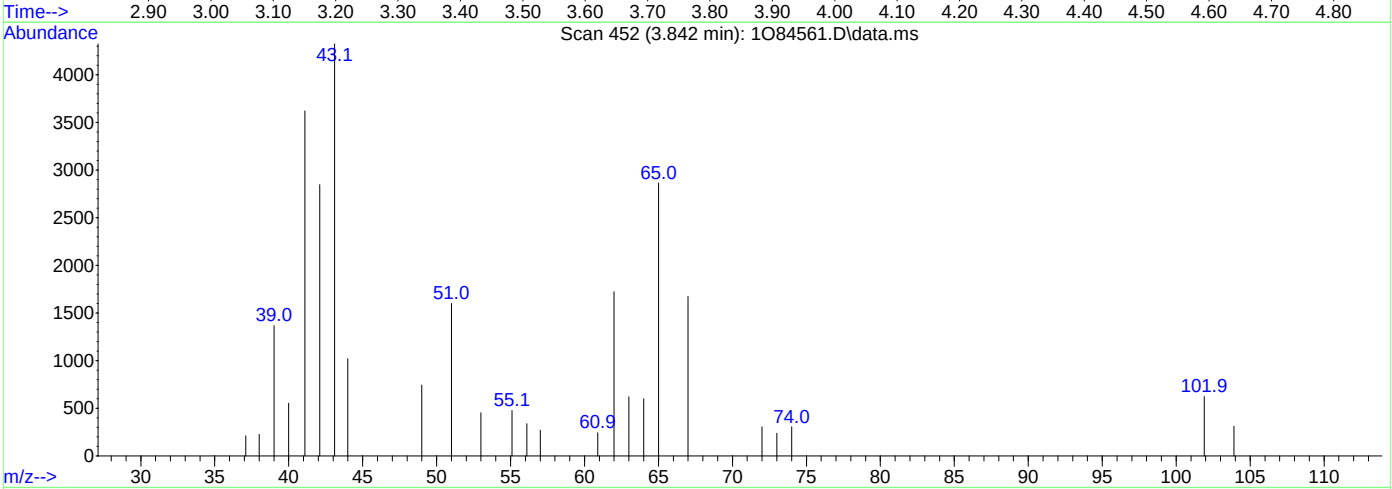
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	66.62
41.10	75.50	81.36
39.00	27.60	28.88

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 35.63ug/L m

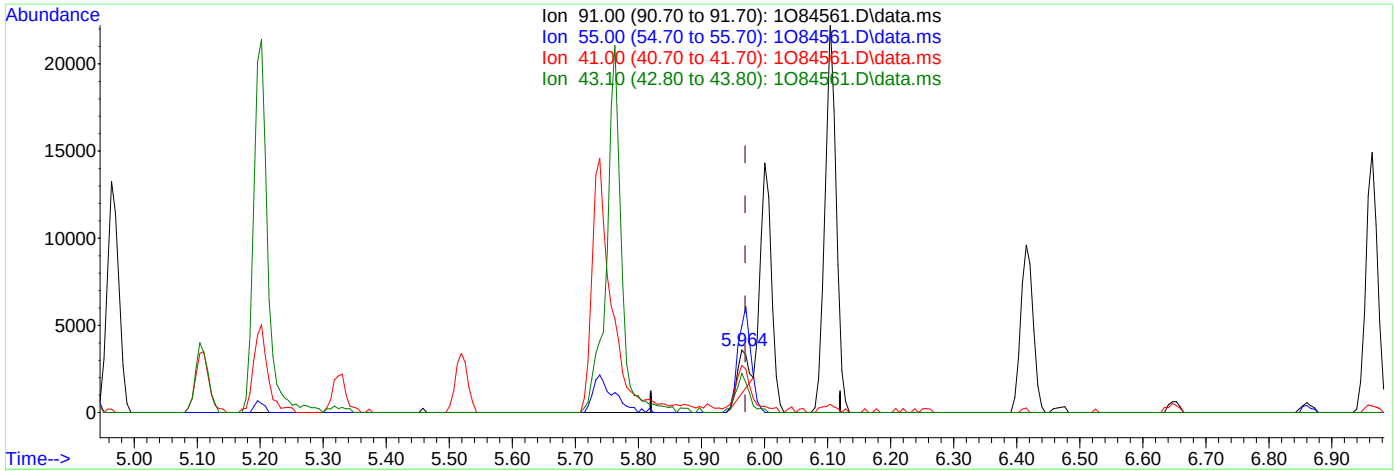
response 7600

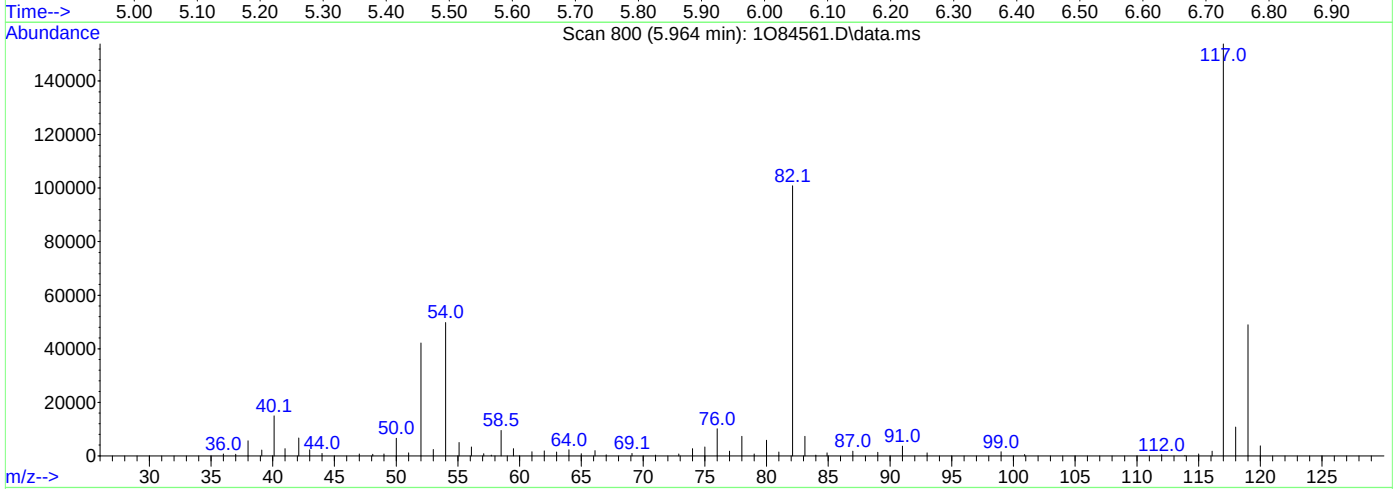
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	65.80
41.10	75.50	83.70
39.00	27.60	31.61

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 1.17ug/L

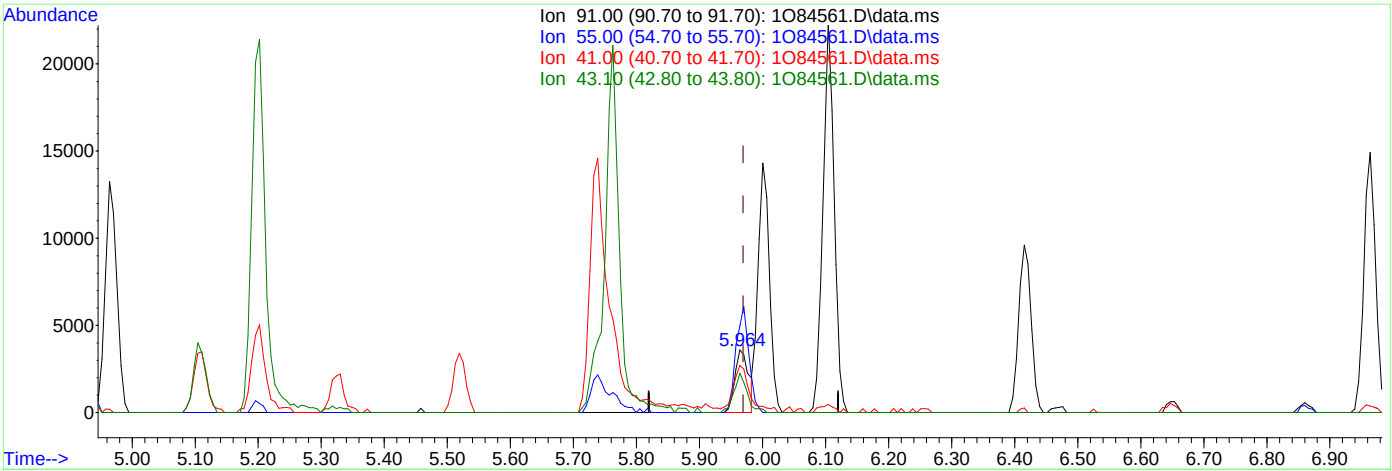
response 3001

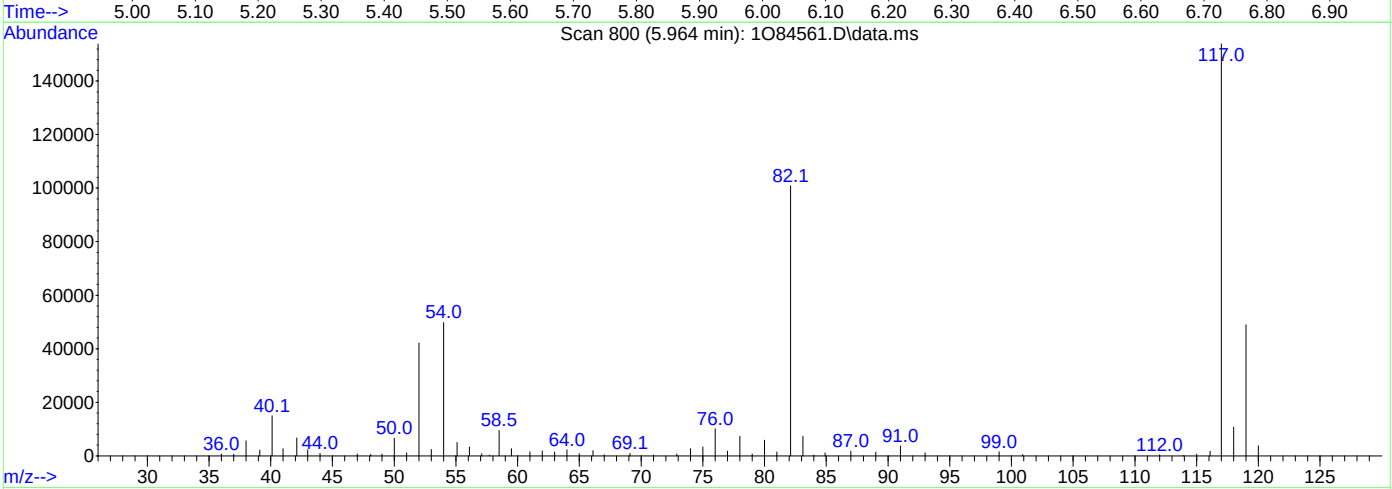
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	138.51#
41.00	70.80	66.30
43.10	55.10	59.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 2.12ug/L m

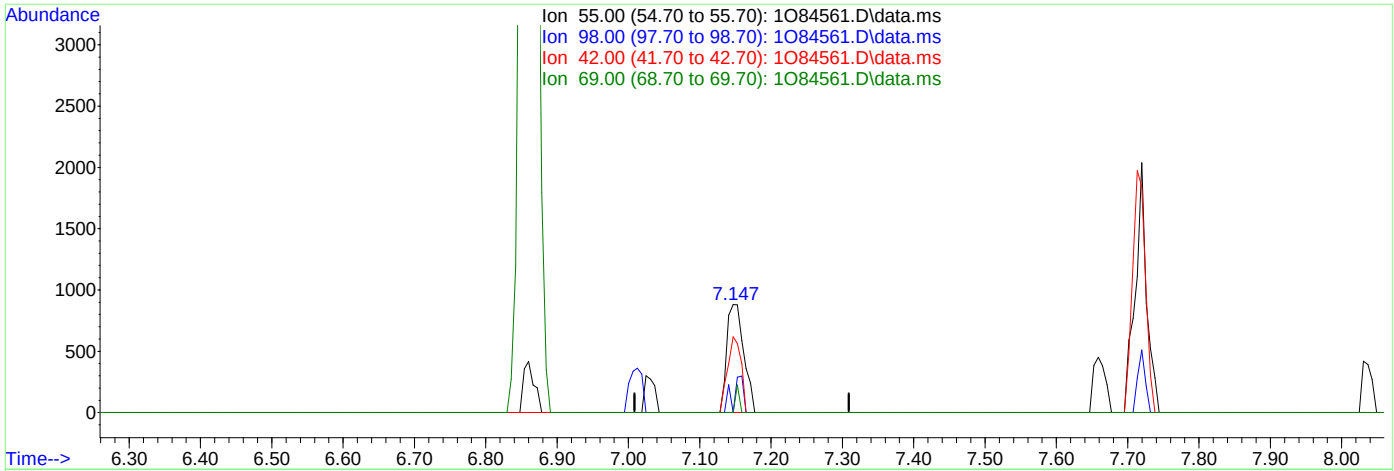
response 5436

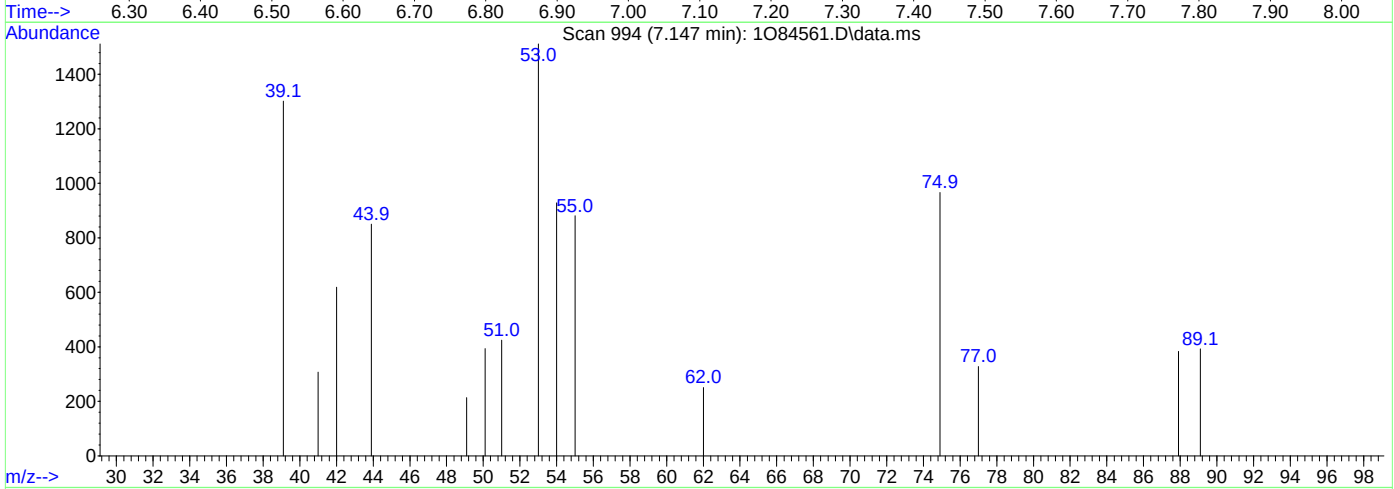
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	138.86#
41.00	70.80	75.55
43.10	55.10	62.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84561.D
Acq On : 2 Jun 2024 10:54 am
Operator : jeniferw
Sample : IC3054-8 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:37:36 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84561.D\data.ms

(95) Cyclohexanone

7.147min (-0.012) 6.44ug/L m

response 1461

Ion	Exp%	Act%
55.00	100	100
98.00	32.70	0.00#
42.00	58.20	70.26
69.00	24.00	0.00#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:45:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	522529	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	357401	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	191073	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.507	113	131911	48.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.24%			
50) 1,2-Dichloroethane-d4	3.812	65	174060	44.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 89.86%			
63) Toluene-d8	4.934	98	509039	49.00	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.00%			
86) 4-Bromofluorobenzene	6.866	174	131669	48.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	8210	4.38	ug/L	98
3) Chloromethane	1.343	50	12981	5.35	ug/L	96
4) 1,3-butadiene	1.416	39	7676	3.34	ug/L	96
5) Vinyl Chloride	1.398	62	10473	4.24	ug/L	99
6) Bromomethane	1.629	94	2041	2.12	ug/L	98
7) Chloroethane	1.715	64	3028	3.63	ug/L	91
8) Trichlorofluoromethane	1.812	101	12335	3.75	ug/L	99
9) Ethyl Ether	2.026	59	11140	5.27	ug/L	97
10) Ethanol	2.123	45	5276	100.22	ug/L	99
11) 1,2-Dichlorotrifluoroe...	2.148	67	8833	3.50	ug/L	96
12) 1,1-Dichloroethene	2.142	61	16307	4.97	ug/L	98
13) Freon 113	2.172	101	9096	5.08	ug/L	94
14) Carbon Disulfide	2.160	76	26338	5.16	ug/L	84
15) Iodomethane	2.233	142	1884	2.26	ug/L	88
16) Acrolein	2.349	56	17782	24.53	ug/L	100
17) Allyl chloride	2.434	41	13836	5.00	ug/L	90
18) Methylene Chloride	2.495	49	19169	6.05	ug/L	97
19) Acetone	2.526	43	34322	22.84	ug/L	94
20) Methyl acetate	2.599	43	81321	25.28	ug/L	98
21) trans-1,2-Dichloroethene	2.593	61	16807	5.11	ug/L	99
22) Hexane	2.641	56	11073	5.68	ug/L	94
23) Methyl Tert Butyl Ether	2.660	73	26496	4.98	ug/L	78
24) Tert Butyl Alcohol	2.708	59	26959	49.58	ug/L	95
25) Acetonitrile	2.794	41	28081	58.30	ug/L	96
26) Di-isopropyl ether	2.873	45	37374	5.42	ug/L	94
27) Chloroprene	2.934	53	15221	4.93	ug/L	95
28) 1,1-Dichloroethane	2.946	63	21342	5.17	ug/L	97
29) Acrylonitrile	2.971	52	36869	25.83	ug/L	97
30) ETBE	3.080	59	32751	5.16	ug/L	97
31) Vinyl acetate	3.086	43	120041	22.13	ug/L	99
32) cis-1,2-Dichloroethene	3.251	96	11178	5.34	ug/L	96
33) 2,2-Dichloropropane	3.318	77	10779	5.31	ug/L	98
34) Bromochloromethane	3.367	128	5124	5.24	ug/L	90
35) Cyclohexane	3.373	56	19620	5.38	ug/L	93
36) Chloroform	3.403	83	18101	4.68	ug/L	92
37) Ethyl acetate	3.464	43	94639	24.27	ug/L	99
38) Tetrahydrofuran	3.495	42	9068	6.00	ug/L	98
40) Carbon Tetrachloride	3.495	117	9943	5.18	ug/L	98
41) 1,1,1-Trichloroethane	3.531	97	13707	4.85	ug/L	99
42) 2-Butanone	3.574	43	61083	25.71	ug/L	99
43) 1,1-Dichloropropene	3.599	75	13611	5.06	ug/L	91
44) tert-Butyl formate	3.660	59	23139	33.26	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:45:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	42307	55.05	ug/L		93
46) Methacrylonitrile	3.757	41	113059	49.47	ug/L		99
47) Benzene	3.739	78	42046	5.13	ug/L		98
48) TAME	3.800	73	24023	5.06	ug/L		97
49) Isobutyl alcohol	3.842	43	21330m	99.64	ug/L		
51) 1,2-Dichloroethane	3.855	62	16664	4.62	ug/L		95
52) Tert Amyl Alcohol	3.903	59	19769	50.16	ug/L		81
53) Trichloroethene	4.080	95	10882	4.94	ug/L		98
54) Methylcyclohexane	4.080	83	14122	4.83	ug/L		90
55) Dibromomethane	4.330	93	6561	4.72	ug/L		93
56) 1,2-Dichloropropane	4.391	63	11939	5.34	ug/L		95
57) Bromodichloromethane	4.422	83	11467	4.63	ug/L		93
58) Methyl methacrylate	4.507	41	11237	5.03	ug/L		94
59) 1,4-Dioxane	4.543	88	4445	99.76	ug/L		90
60) 2-Chloroethyl vinyl ether	4.769	63	42939	24.10	ug/L		98
61) cis-1,3-Dichloropropene	4.812	75	13149	4.41	ug/L		93
64) Toluene	4.964	91	41803	4.90	ug/L		99
65) 2-Nitropropane	5.110	41	13945	27.68	ug/L		97
66) 4-Methyl-2-pentanone	5.202	43	97055	25.56	ug/L		99
67) trans-1,3-Dichloropropene	5.226	75	12553	4.20	ug/L		99
68) Tetrachloroethene	5.220	166	9287	4.94	ug/L		97
69) Ethyl methacrylate	5.324	69	12104	4.55	ug/L		89
70) 1,1,2-Trichloroethane	5.336	83	9018	4.99	ug/L		93
71) Dibromochloromethane	5.458	129	7582	4.73	ug/L		91
72) 1,3-Dichloropropane	5.519	76	17560	5.19	ug/L		94
73) 1,2-Dibromoethane	5.623	107	10273	5.16	ug/L		99
74) 3,3-dimethyl-1-butanol	5.738	57	135040	267.78	ug/L		96
75) 2-hexanone	5.763	43	101815	26.23	ug/L		96
76) 1-Chlorohexane	5.964	91	12719m	4.90	ug/L		
77) Ethylbenzene	6.001	91	45373	4.92	ug/L		98
78) Chlorobenzene	5.988	112	27446	5.03	ug/L		96
79) 1,1,1,2-Tetrachloroethane	6.031	131	7546	5.10	ug/L		93
80) m,p-Xylene	6.104	91	69570	9.79	ug/L		98
81) o-Xylene	6.415	91	34911	5.07	ug/L		97
82) Styrene	6.458	104	24514	4.93	ug/L		95
83) Bromoform	6.476	173	4431	5.41	ug/L		99
84) Isopropylbenzene	6.653	105	38111	4.99	ug/L		97
87) cis-1,4-Dichloro-2-butene	6.909	53	5843	5.36	ug/L	#	85
88) n-Propylbenzene	6.964	91	48482	4.60	ug/L		94
89) Bromobenzene	6.945	156	10043	4.89	ug/L		94
90) 1,1,2,2-Tetrachloroethane	7.013	83	16798	4.89	ug/L		98
91) 1,3,5-Trimethylbenzene	7.116	105	32271	4.73	ug/L		93
92) 2-Chlorotoluene	7.086	91	34325	4.78	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.147	53	4683	4.75	ug/L		89
94) 1,2,3-Trichloropropane	7.122	110	4612	4.58	ug/L		98
95) Cyclohexanone	7.147	55	4769	20.98	ug/L		97
96) 4-Chlorotoluene	7.214	91	32449	4.81	ug/L		97
97) tert-Butylbenzene	7.366	91	17940	4.51	ug/L		96
99) 1,2,4-Trimethylbenzene	7.421	105	31255	4.63	ug/L		99
100) Pentachloroethane	7.378	167	3951	4.29	ug/L	#	71
101) sec-Butylbenzene	7.500	105	37801	4.70	ug/L		99
102) 4-Isopropyltoluene	7.610	119	28900	4.49	ug/L		97
103) 1,3-Dichlorobenzene	7.665	146	19654	4.97	ug/L		94
104) 1,2,3-Trimethylbenzene	7.750	105	35703	4.77	ug/L		96
105) 1,4-Dichlorobenzene	7.732	146	21082	4.97	ug/L		94
106) n-Butylbenzene	7.927	92	16639	4.53	ug/L		88
107) Benzyl Chloride	7.909	126	2471	6.06	ug/L	#	33
108) 1,2-Dichlorobenzene	8.037	146	20090	5.46	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:45:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

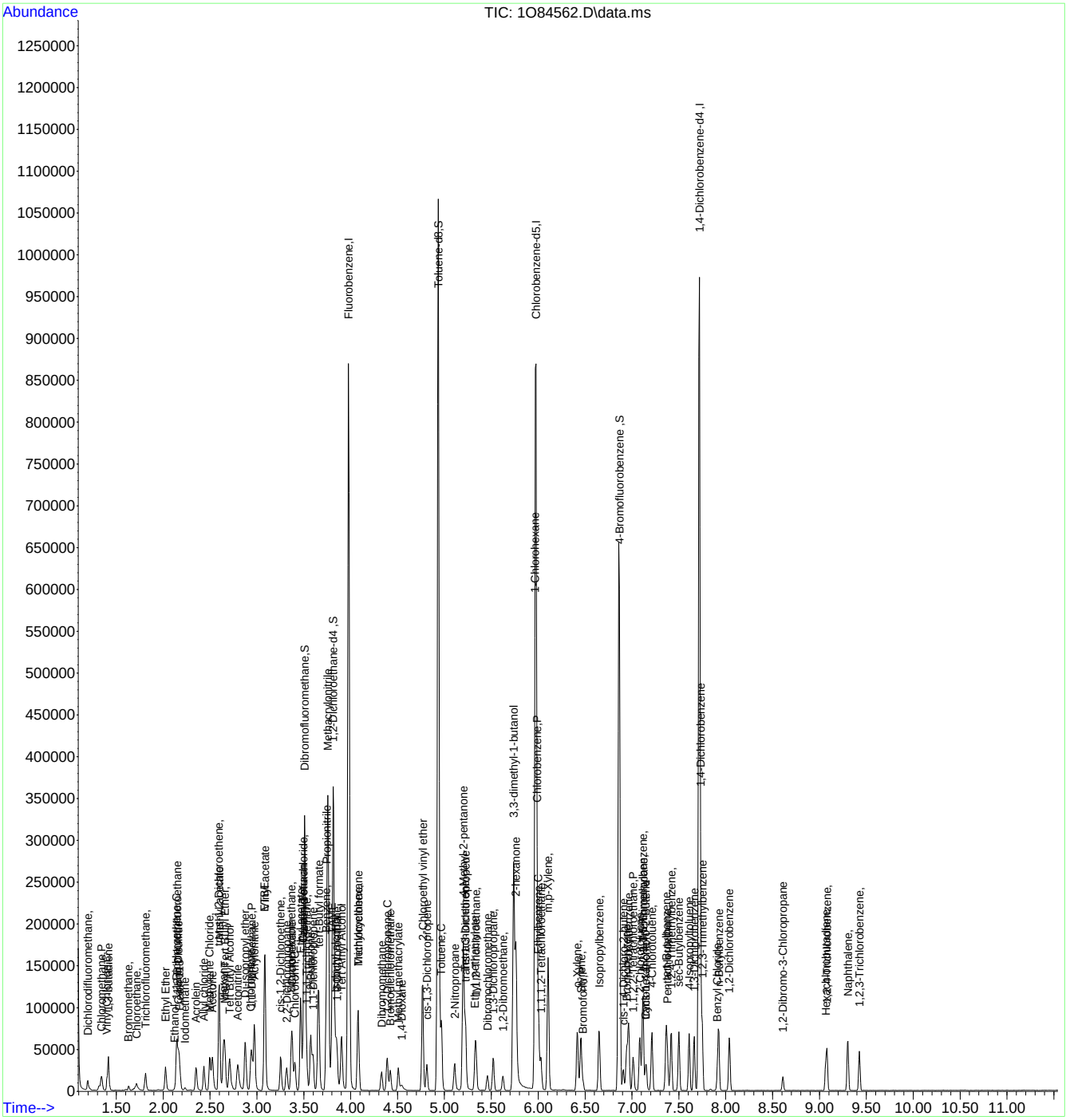
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	2941	3.76	ug/L	91
110) Hexachlorobutadiene	9.067	225	3349	4.14	ug/L	93
111) 1,2,4-Trichlorobenzene	9.079	180	9892	4.83	ug/L	94
112) Naphthalene	9.305	128	34978	4.60	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	9912	5.11	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:45:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

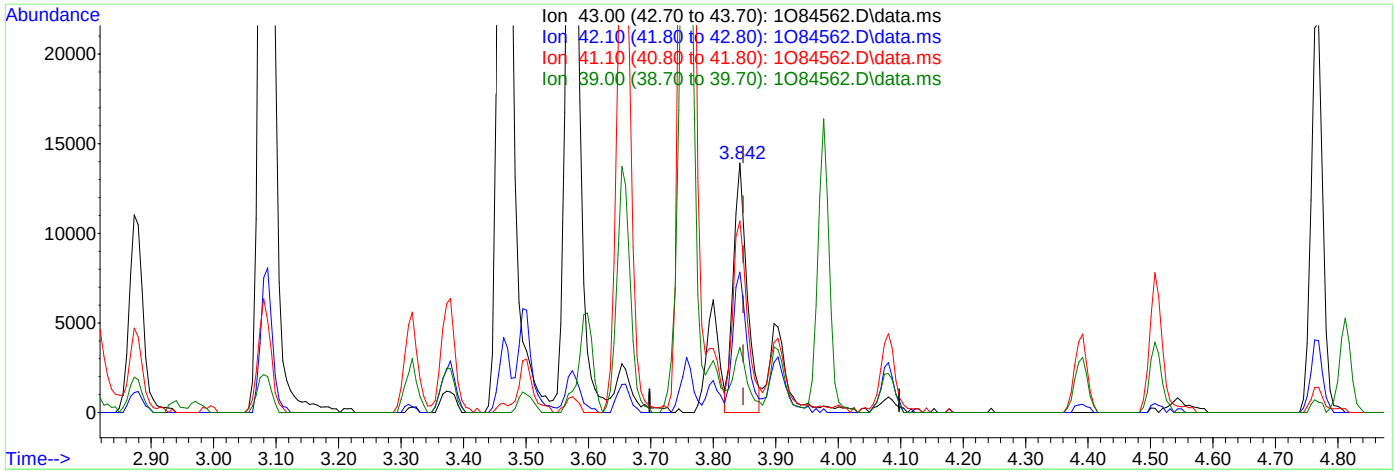
Sample Number: V1O3054-IC3054
Lab FileID: 1O84562.D
Injection Time: 06/02/24 11:19
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

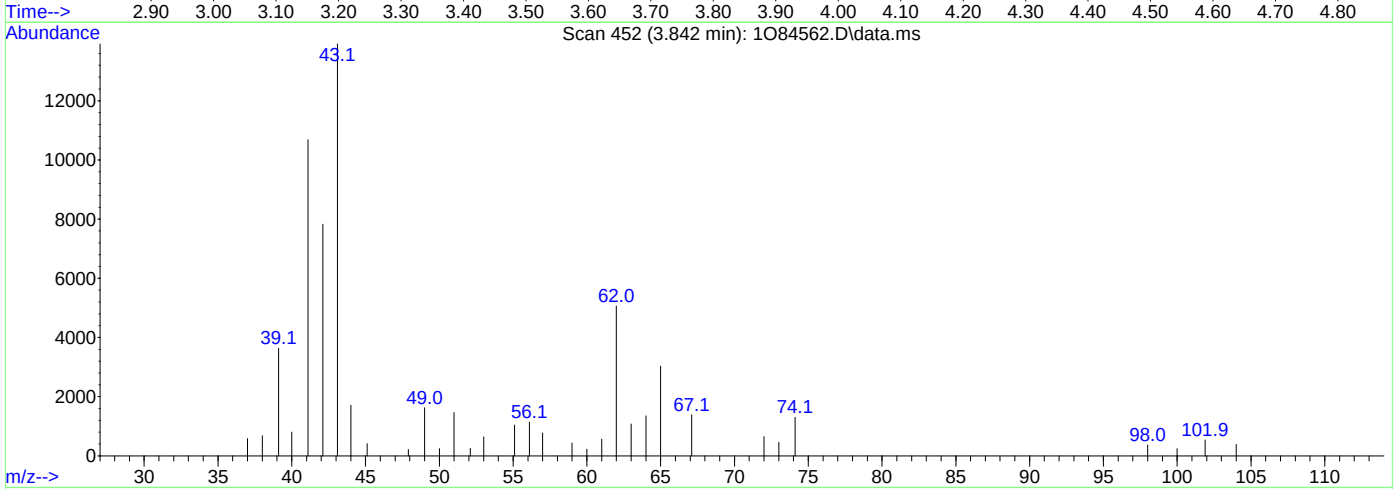
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:44:51 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84562.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 99.64ug/L m

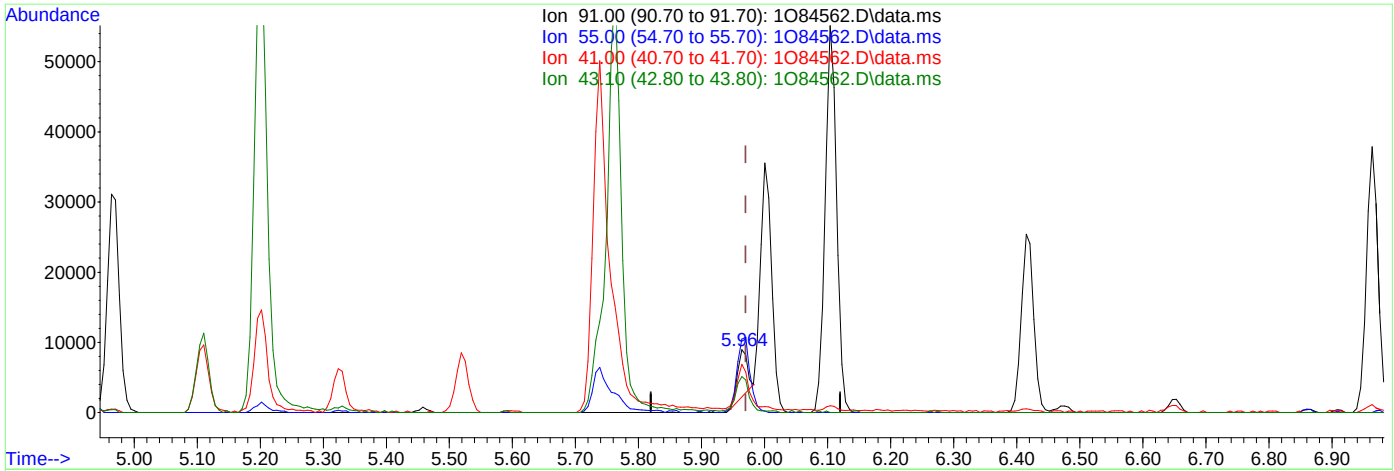
response 21330

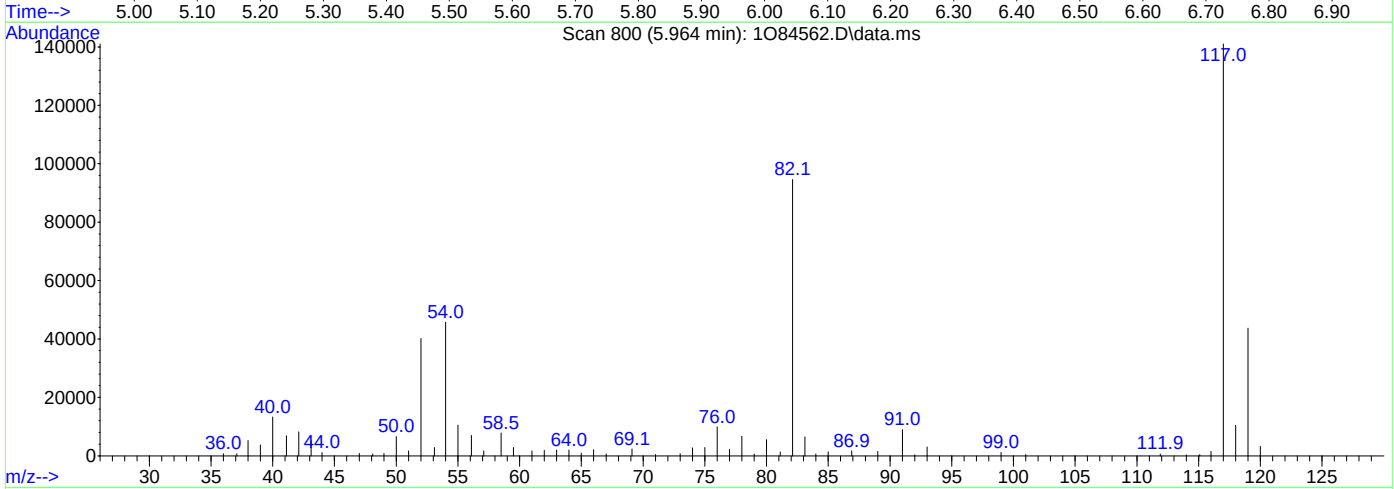
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	56.24
41.10	75.50	76.73
39.00	27.60	26.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:44:51 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84562.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 3.01ug/L

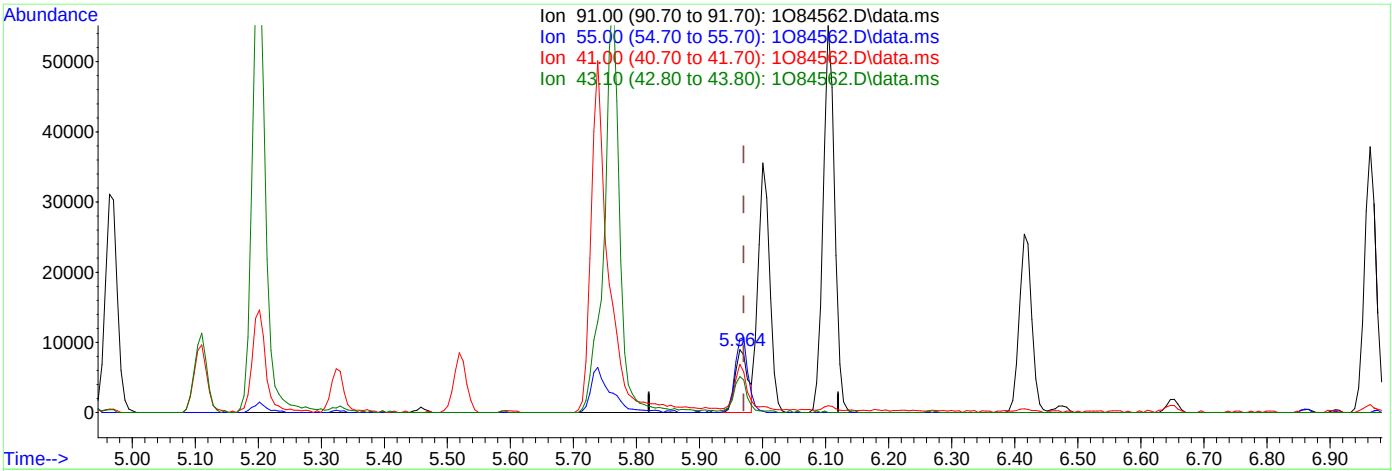
response 7830

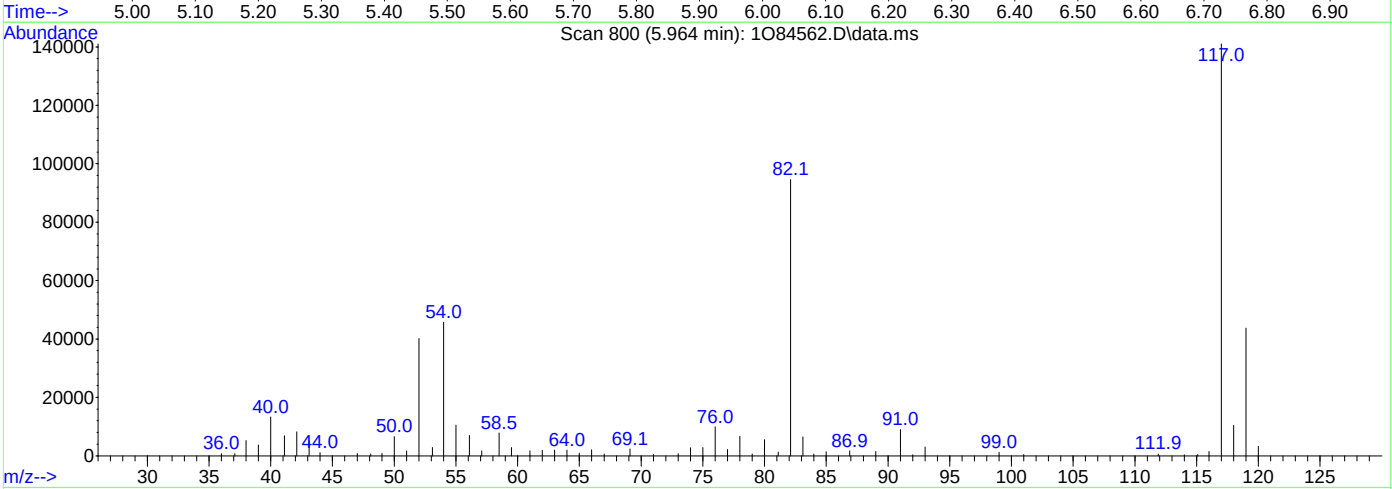
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	115.14#
41.00	70.80	69.83
43.10	55.10	52.43

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:44:51 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84562.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 4.90ug/L m

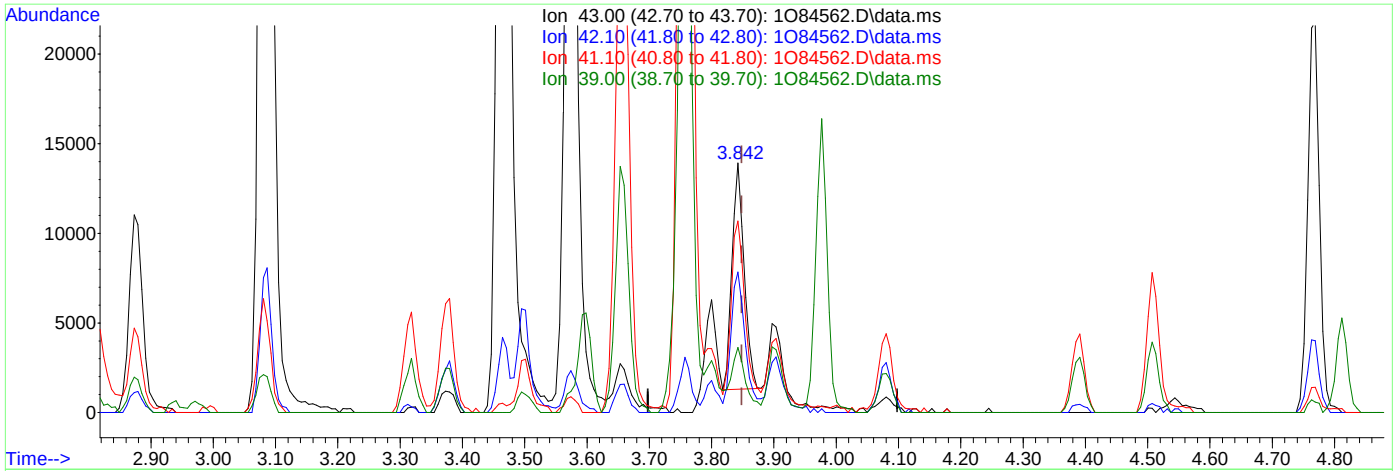
response 12719

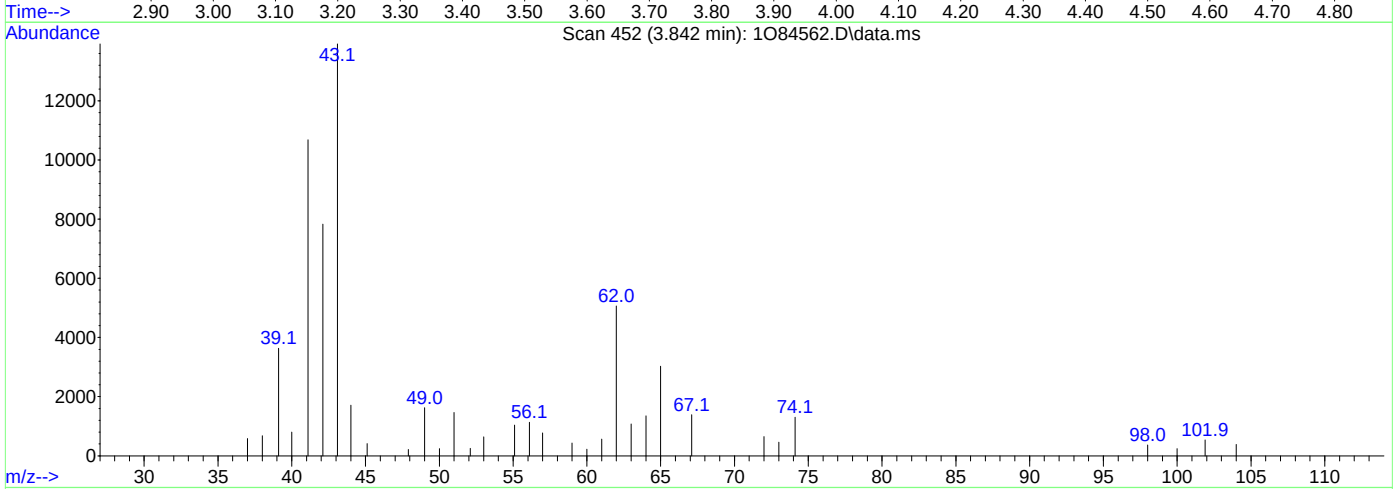
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	116.80#
41.00	70.80	76.86
43.10	55.10	57.34

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84562.D
Acq On : 2 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC3054-2 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 11:44:51 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84562.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 79.68ug/L

response 17011

Ion	Exp%	Act%
43.00	100	100
42.10	59.20	57.93
41.10	75.50	76.56
39.00	27.60	25.43

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.976	96	527388	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	359898	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	194416	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.507	113	134974	49.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.58%		
50) 1,2-Dichloroethane-d4	3.818	65	175666	44.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	89.84%		
63) Toluene-d8	4.934	98	515270	49.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.52%		
86) 4-Bromofluorobenzene	6.866	174	135491	49.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.82%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.196	85	16868	8.92	ug/L	100
3) Chloromethane	1.343	50	25989	10.62	ug/L	96
4) 1,3-butadiene	1.416	39	16225	7.00	ug/L	92
5) Vinyl Chloride	1.404	62	21777	8.74	ug/L	99
6) Bromomethane	1.635	94	4383	4.51	ug/L	93
7) Chloroethane	1.715	64	6175	7.33	ug/L	96
8) Trichlorofluoromethane	1.812	101	25182	7.58	ug/L	97
9) Ethyl Ether	2.026	59	21547	10.10	ug/L	95
10) Ethanol	2.135	45	12100	227.73	ug/L	98
11) 1,2-Dichlorotrifluoroe...	2.148	67	17978	7.05	ug/L	94
12) 1,1-Dichloroethene	2.148	61	32820	9.91	ug/L	95
13) Freon 113	2.172	101	18021	9.96	ug/L	97
14) Carbon Disulfide	2.166	76	52898	10.28	ug/L	92
15) Iodomethane	2.233	142	4868	5.67	ug/L	96
16) Acrolein	2.355	56	37360	51.06	ug/L	96
17) Allyl chloride	2.434	41	29452	10.54	ug/L	89
18) Methylene Chloride	2.495	49	35935	11.24	ug/L	96
19) Acetone	2.526	43	68095	44.90	ug/L	97
20) Methyl acetate	2.599	43	166338	51.24	ug/L	99
21) trans-1,2-Dichloroethene	2.593	61	34473	10.38	ug/L	98
22) Hexane	2.647	56	21220	10.78	ug/L	96
23) Methyl Tert Butyl Ether	2.660	73	53687	9.99	ug/L	87
24) Tert Butyl Alcohol	2.708	59	53256	97.03	ug/L	97
25) Acetonitrile	2.794	41	56322	115.85	ug/L	97
26) Di-isopropyl ether	2.879	45	76045	10.93	ug/L	98
27) Chloroprene	2.934	53	30754	9.87	ug/L	98
28) 1,1-Dichloroethane	2.946	63	42430	10.18	ug/L	99
29) Acrylonitrile	2.971	52	73640	51.12	ug/L	99
30) ETBE	3.080	59	66306	10.36	ug/L	97
31) Vinyl acetate	3.086	43	247928	45.28	ug/L	98
32) cis-1,2-Dichloroethene	3.257	96	21171	10.02	ug/L	97
33) 2,2-Dichloropropane	3.318	77	21587	10.40	ug/L	99
34) Bromochloromethane	3.367	128	10759	10.90	ug/L	96
35) Cyclohexane	3.379	56	40884	11.12	ug/L	94
36) Chloroform	3.403	83	38094	9.76	ug/L	97
37) Ethyl acetate	3.464	43	194793	49.48	ug/L	99
38) Tetrahydrofuran	3.495	42	15174	9.95	ug/L	94
40) Carbon Tetrachloride	3.495	117	20221	10.44	ug/L	90
41) 1,1,1-Trichloroethane	3.531	97	27618	9.68	ug/L	95
42) 2-Butanone	3.574	43	120295	50.16	ug/L	100
43) 1,1-Dichloropropene	3.598	75	27966	10.30	ug/L	95
44) tert-Butyl formate	3.659	59	50744	68.89	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	78179	100.78	ug/L		93
46) Methacrylonitrile	3.757	41	228938	99.26	ug/L		98
47) Benzene	3.739	78	84844	10.27	ug/L		96
48) TAME	3.800	73	48989	10.23	ug/L		93
49) Isobutyl alcohol	3.842	43	46433m	211.65	ug/L		
51) 1,2-Dichloroethane	3.854	62	32902	9.03	ug/L		96
52) Tert Amyl Alcohol	3.903	59	41229	101.74	ug/L		89
53) Trichloroethene	4.080	95	21869	9.83	ug/L		97
54) Methylcyclohexane	4.080	83	29541	10.01	ug/L		95
55) Dibromomethane	4.330	93	13936	9.93	ug/L		96
56) 1,2-Dichloropropane	4.391	63	23580	10.44	ug/L		94
57) Bromodichloromethane	4.421	83	24068	9.62	ug/L		99
58) Methyl methacrylate	4.507	41	23202	10.29	ug/L		94
59) 1,4-Dioxane	4.543	88	9092	202.17	ug/L		93
60) 2-Chloroethyl vinyl ether	4.769	63	97024	53.96	ug/L		98
61) cis-1,3-Dichloropropene	4.812	75	26929	8.96	ug/L		92
64) Toluene	4.970	91	83565	9.72	ug/L		98
65) 2-Nitropropane	5.110	41	29919	56.90	ug/L		98
66) 4-Methyl-2-pentanone	5.202	43	198733	51.98	ug/L		98
67) trans-1,3-Dichloropropene	5.226	75	26066	8.66	ug/L		95
68) Tetrachloroethene	5.220	166	19020	10.05	ug/L		97
69) Ethyl methacrylate	5.324	69	25849	9.64	ug/L		96
70) 1,1,2-Trichloroethane	5.336	83	18471	10.14	ug/L		94
71) Dibromochloromethane	5.458	129	16710	10.35	ug/L		96
72) 1,3-Dichloropropane	5.519	76	34715	10.19	ug/L		94
73) 1,2-Dibromoethane	5.622	107	20739	10.35	ug/L		96
74) 3,3-dimethyl-1-butanol	5.738	57	302887	579.07	ug/L		97
75) 2-hexanone	5.763	43	208862	53.43	ug/L		94
76) 1-Chlorohexane	5.964	91	24563m	9.39	ug/L		
77) Ethylbenzene	6.000	91	92367	9.95	ug/L		97
78) Chlorobenzene	5.988	112	54531	9.93	ug/L		99
79) 1,1,1,2-Tetrachloroethane	6.031	131	15626	10.49	ug/L		92
80) m,p-Xylene	6.104	91	143283	20.03	ug/L		97
81) o-Xylene	6.415	91	71009	10.25	ug/L		99
82) Styrene	6.458	104	52887	10.57	ug/L		97
83) Bromoform	6.476	173	9453	11.16	ug/L		99
84) Isopropylbenzene	6.653	105	80318	10.45	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	10929	9.85	ug/L		93
88) n-Propylbenzene	6.964	91	102753	9.58	ug/L		94
89) Bromobenzene	6.945	156	20113	9.63	ug/L		92
90) 1,1,2,2-Tetrachloroethane	7.012	83	33609	9.61	ug/L		98
91) 1,3,5-Trimethylbenzene	7.116	105	68396	9.85	ug/L		98
92) 2-Chlorotoluene	7.086	91	71490	9.79	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.153	53	9597	9.58	ug/L		90
94) 1,2,3-Trichloropropane	7.122	110	9511	9.28	ug/L		96
95) Cyclohexanone	7.153	55	10628	45.96	ug/L		96
96) 4-Chlorotoluene	7.214	91	66981	9.76	ug/L		95
97) tert-Butylbenzene	7.366	91	37226	9.19	ug/L		95
99) 1,2,4-Trimethylbenzene	7.415	105	67978	9.90	ug/L		99
100) Pentachloroethane	7.378	167	8689	9.27	ug/L	#	78
101) sec-Butylbenzene	7.500	105	80274	9.82	ug/L		99
102) 4-Isopropyltoluene	7.610	119	64604	9.86	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	40422	10.05	ug/L		96
104) 1,2,3-Trimethylbenzene	7.750	105	71826	9.44	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	42038	9.75	ug/L		97
106) n-Butylbenzene	7.927	92	36181	9.69	ug/L		91
107) Benzyl Chloride	7.915	126	5571	12.47	ug/L	#	53
108) 1,2-Dichlorobenzene	8.043	146	37979	10.15	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

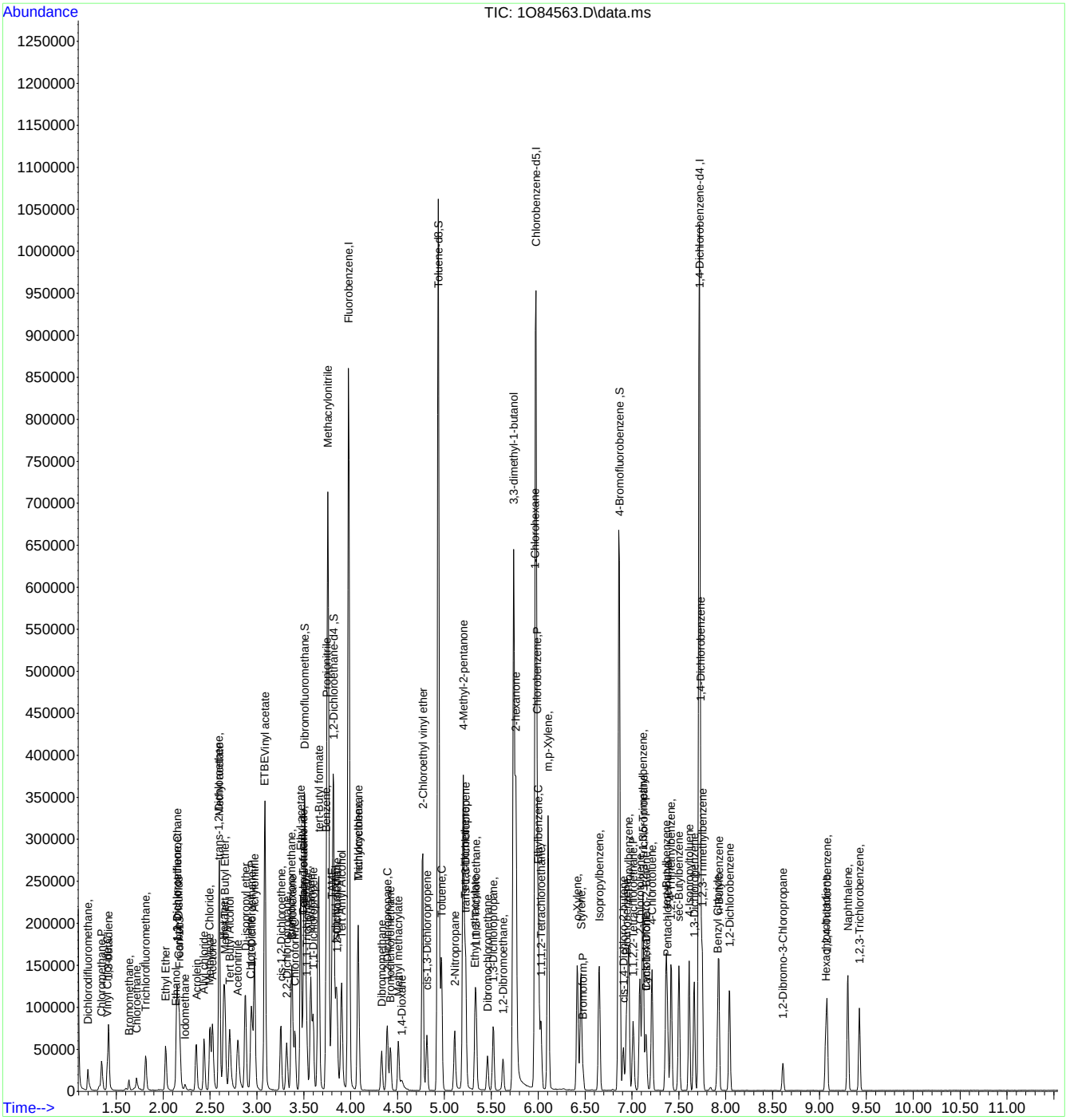
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	6160	7.74	ug/L	86
110) Hexachlorobutadiene	9.067	225	7624	9.27	ug/L	92
111) 1,2,4-Trichlorobenzene	9.079	180	21127	10.15	ug/L	98
112) Naphthalene	9.305	128	75544	9.77	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	20344	10.30	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



V1O3054_06022024.M Sun Jun 02 14:45:49 2024 Page: 4

Manual Integration Approval Summary

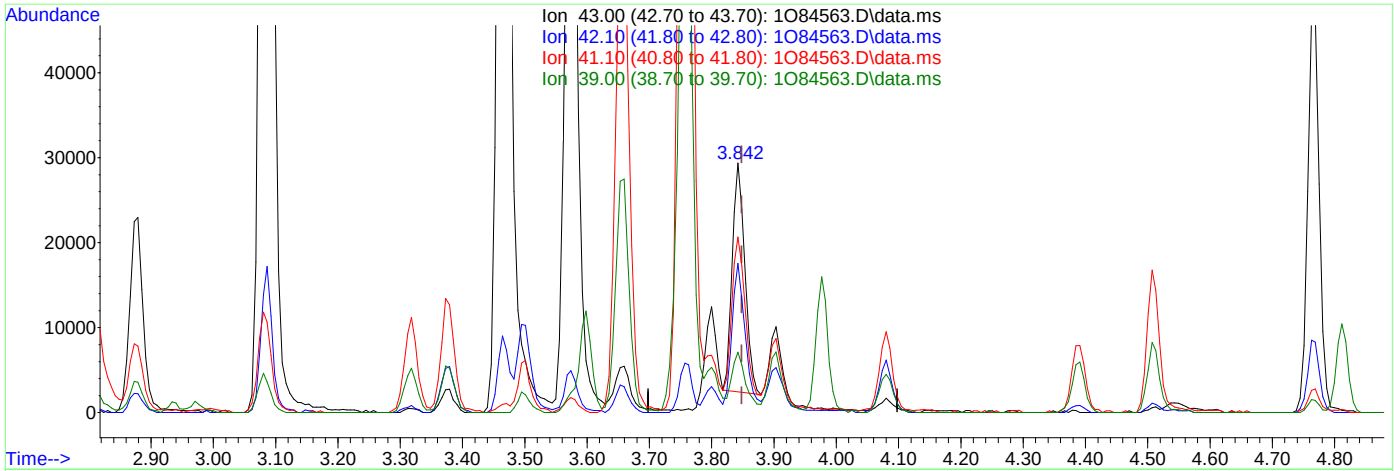
Sample Number: V1O3054-IC3054
Lab FileID: 1O84563.D
Injection Time: 06/02/24 11:45
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

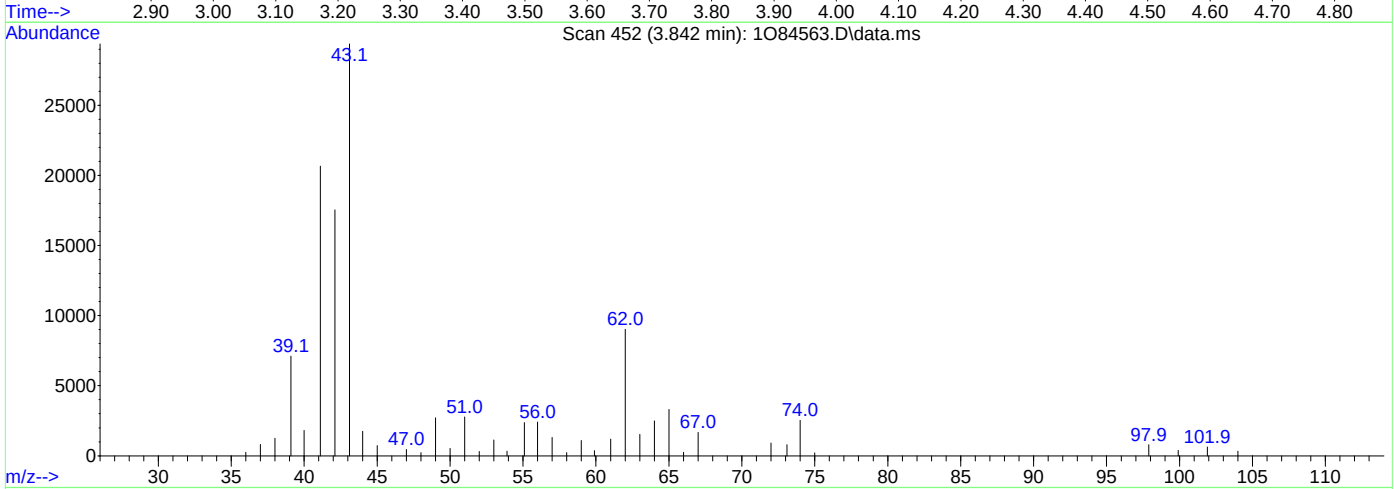
Parameter	CAS	Sig#	R.T. (min.)	Reason
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:06 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84563.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 172.74ug/L

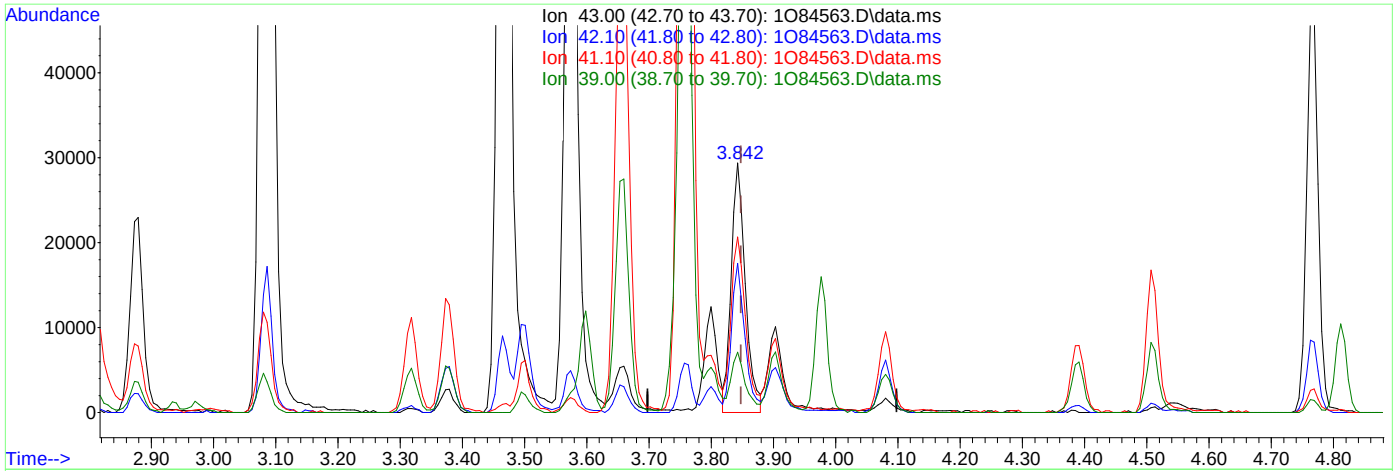
response 37696

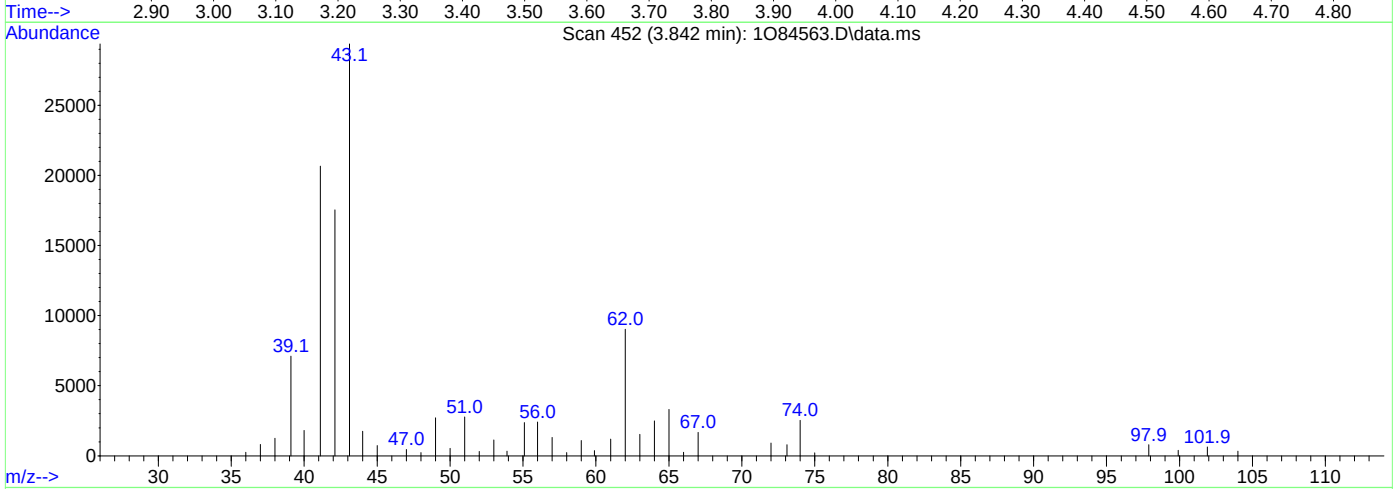
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	60.89
41.10	75.50	68.30
39.00	27.60	22.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:06 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84563.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 211.65ug/L m

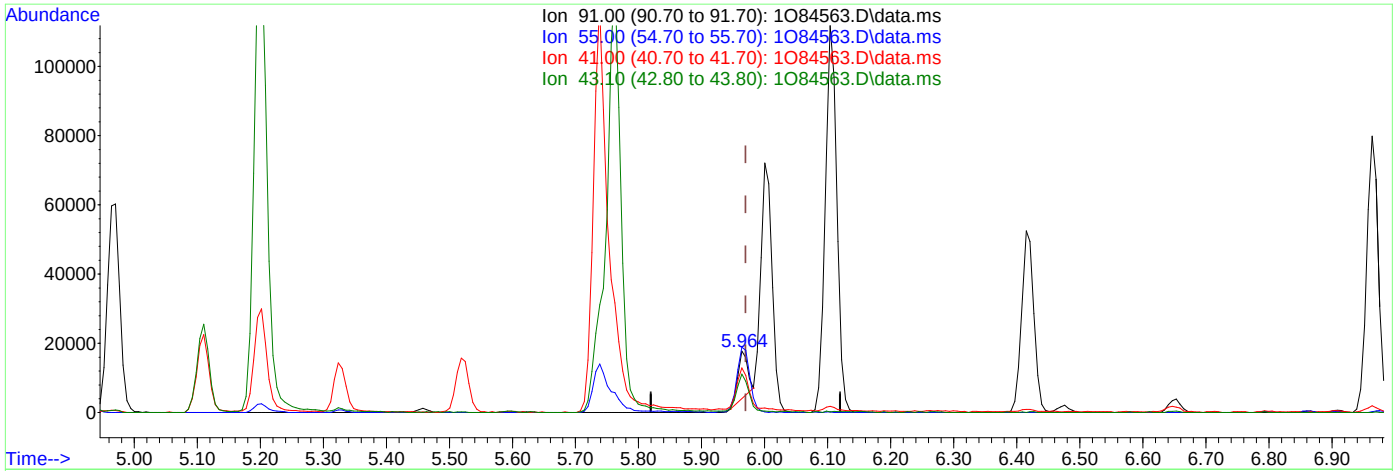
response 46433

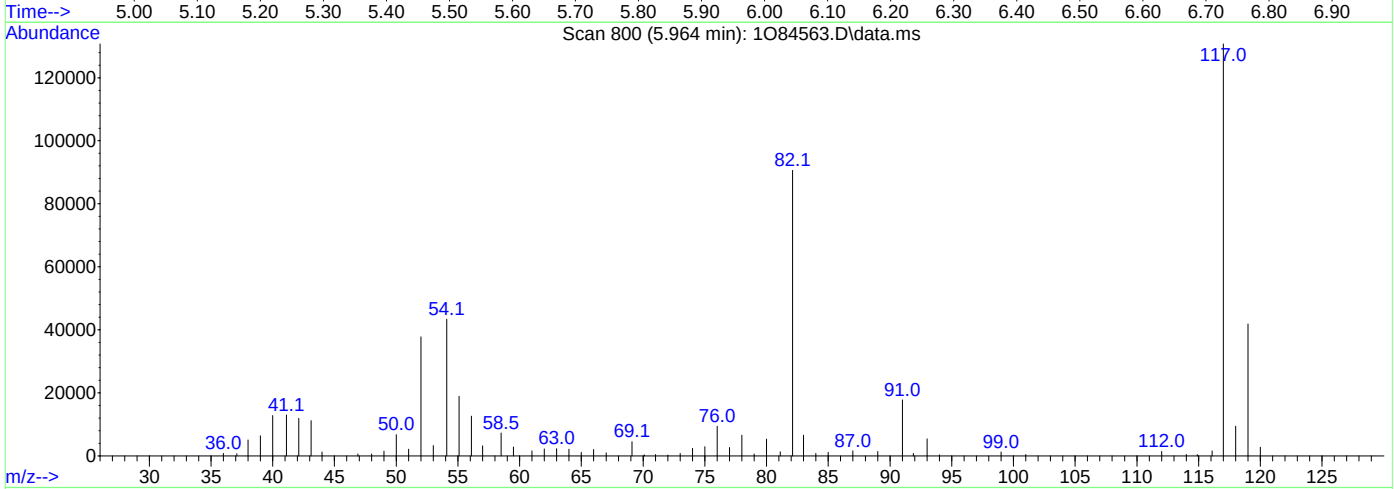
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.72
41.10	75.50	70.28
39.00	27.60	24.19

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:06 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84563.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 5.96ug/L

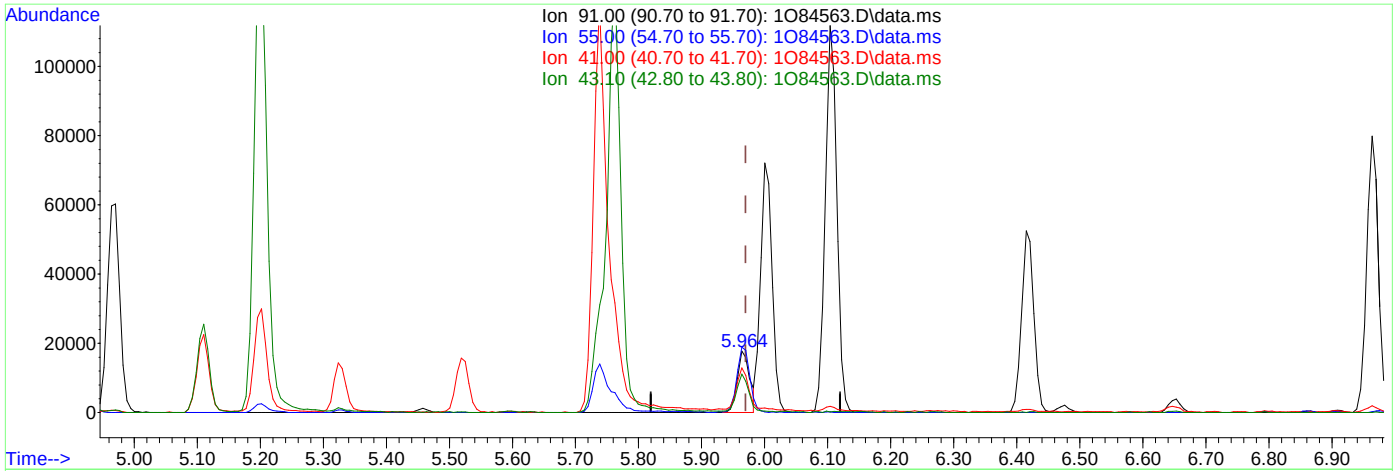
response 15583

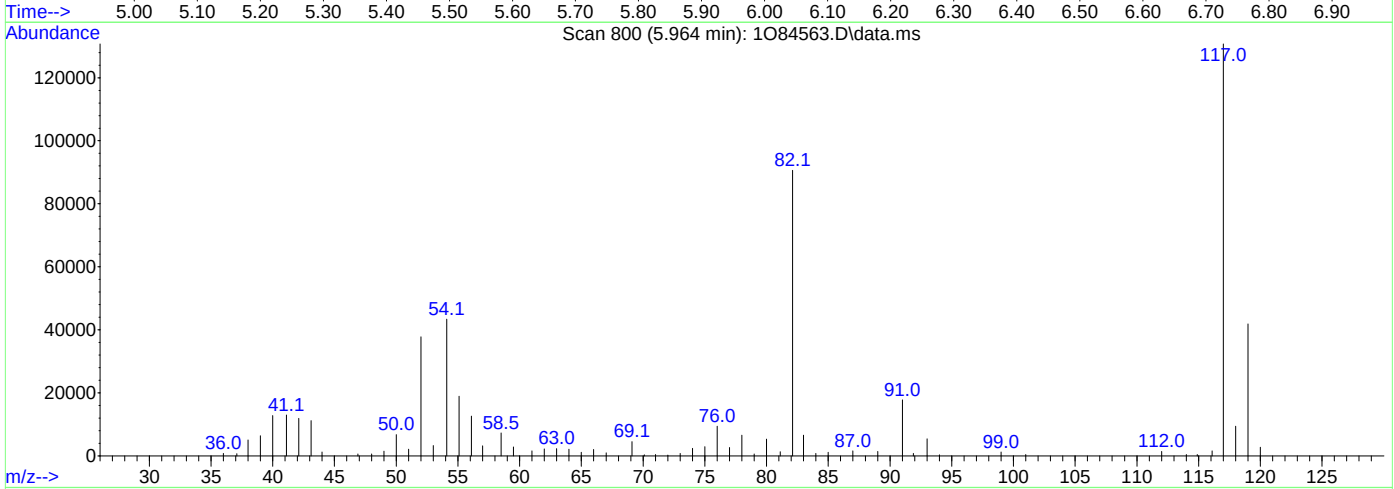
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	103.42
41.00	70.80	66.85
43.10	55.10	60.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84563.D
Acq On : 2 Jun 2024 11:45 am
Operator : jeniferw
Sample : IC3054-3 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:01:06 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84563.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 9.39ug/L m

response 24563

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	106.45
41.00	70.80	72.84
43.10	55.10	62.86

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:45 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.977	96	516530	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.976	117	354805	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	193396	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.507	113	135503	50.53	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.06%				
50) 1,2-Dichloroethane-d4	3.818	65	177216	46.27	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.54%				
63) Toluene-d8	4.934	98	513641	49.81	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.62%				
86) 4-Bromofluorobenzene	6.866	174	135881	49.81	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.62%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.197	85	44396	23.97	ug/L		99
3) Chloromethane	1.343	50	66304	27.65	ug/L		97
4) 1,3-butadiene	1.416	39	39539	17.42	ug/L		92
5) Vinyl Chloride	1.404	62	54456	22.32	ug/L		100
6) Bromomethane	1.636	94	11922	12.53	ug/L		98
7) Chloroethane	1.715	64	14249	17.28	ug/L		99
8) Trichlorofluoromethane	1.812	101	63373	19.47	ug/L		99
9) Ethyl Ether	2.026	59	55928	26.76	ug/L		98
10) Ethanol	2.129	45	28667	550.86	ug/L		99
11) 1,2-Dichlorotrifluoroe...	2.148	67	46400	18.58	ug/L		95
12) 1,1-Dichloroethene	2.148	61	86997	26.83	ug/L		97
13) Freon 113	2.172	101	48731	27.51	ug/L		97
14) Carbon Disulfide	2.160	76	144617	28.68	ug/L		95
15) Iodomethane	2.233	142	19203	20.99	ug/L		96
16) Acrolein	2.349	56	97324	135.81	ug/L		98
17) Allyl chloride	2.434	41	76074	27.79	ug/L		88
18) Methylene Chloride	2.495	49	84623	27.02	ug/L		98
19) Acetone	2.526	43	171450	115.42	ug/L		96
20) Methyl acetate	2.599	43	414044	130.23	ug/L		98
21) trans-1,2-Dichloroethene	2.593	61	88448	27.20	ug/L		99
22) Hexane	2.642	56	54720	28.37	ug/L	#	88
23) Methyl Tert Butyl Ether	2.660	73	142815	27.14	ug/L		86
24) Tert Butyl Alcohol	2.709	59	141566	263.36	ug/L		97
25) Acetonitrile	2.794	41	133515	280.39	ug/L		96
26) Di-isopropyl ether	2.873	45	196607	28.85	ug/L		98
27) Chloroprene	2.934	53	84234	27.60	ug/L		96
28) 1,1-Dichloroethane	2.946	63	111024	27.20	ug/L		98
29) Acrylonitrile	2.971	52	188506	133.62	ug/L		99
30) ETBE	3.080	59	176049	28.07	ug/L		99
31) Vinyl acetate	3.087	43	672223	125.34	ug/L		97
32) cis-1,2-Dichloroethene	3.257	96	55194	26.67	ug/L		95
33) 2,2-Dichloropropane	3.318	77	58346	27.60	ug/L		98
34) Bromochloromethane	3.367	128	26191	27.10	ug/L		95
35) Cyclohexane	3.379	56	108156	30.03	ug/L		94
36) Chloroform	3.404	83	99414	26.00	ug/L		98
37) Ethyl acetate	3.465	43	505621	131.15	ug/L		97
38) Tetrahydrofuran	3.495	42	38490	25.77	ug/L		98
40) Carbon Tetrachloride	3.495	117	58418m	30.80	ug/L		
41) 1,1,1-Trichloroethane	3.532	97	75984	27.18	ug/L		97
42) 2-Butanone	3.574	43	305419	130.04	ug/L		99
43) 1,1-Dichloropropene	3.599	75	71292	26.80	ug/L		95
44) tert-Butyl formate	3.660	59	144780	175.93	ug/L	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:45 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	198402	261.14	ug/L		94
46) Methacrylonitrile	3.757	41	556974	246.55	ug/L		99
47) Benzene	3.739	78	210530	26.01	ug/L		96
48) TAME	3.800	73	131496	28.04	ug/L		98
49) Isobutyl alcohol	3.842	43	121128m	539.74	ug/L		
51) 1,2-Dichloroethane	3.855	62	83015	23.27	ug/L		98
52) Tert Amyl Alcohol	3.903	59	113119	268.92	ug/L		97
53) Trichloroethene	4.080	95	55602	25.53	ug/L		99
54) Methylcyclohexane	4.080	83	79021	27.33	ug/L		92
55) Dibromomethane	4.330	93	35331	25.70	ug/L		98
56) 1,2-Dichloropropane	4.391	63	62246	28.14	ug/L		93
57) Bromodichloromethane	4.422	83	65730	26.83	ug/L		98
58) Methyl methacrylate	4.507	41	61853	28.01	ug/L		94
59) 1,4-Dioxane	4.544	88	22595	512.97	ug/L		94
60) 2-Chloroethyl vinyl ether	4.769	63	258718	146.92	ug/L		98
61) cis-1,3-Dichloropropene	4.812	75	76751	26.06	ug/L		93
64) Toluene	4.964	91	211286	24.93	ug/L		99
65) 2-Nitropropane	5.111	41	94514	161.84	ug/L		94
66) 4-Methyl-2-pentanone	5.202	43	516656	137.08	ug/L		98
67) trans-1,3-Dichloropropene	5.232	75	73331	24.70	ug/L		91
68) Tetrachloroethene	5.220	166	48985	26.25	ug/L		98
69) Ethyl methacrylate	5.324	69	71537	27.06	ug/L		95
70) 1,1,2-Trichloroethane	5.336	83	46070	25.66	ug/L		95
71) Dibromochloromethane	5.458	129	46865	29.44	ug/L		100
72) 1,3-Dichloropropane	5.519	76	89012	26.52	ug/L		95
73) 1,2-Dibromoethane	5.623	107	54441	27.55	ug/L		99
74) 3,3-dimethyl-1-butanol	5.738	57	838296	1497.05	ug/L		98
75) 2-hexanone	5.763	43	538587	139.74	ug/L		95
76) 1-Chlorohexane	5.964	91	66830m	25.92	ug/L		
77) Ethylbenzene	6.001	91	236465	25.84	ug/L		98
78) Chlorobenzene	5.988	112	138685	25.61	ug/L		99
79) 1,1,1,2-Tetrachloroethane	6.031	131	42985	29.26	ug/L		98
80) m,p-Xylene	6.104	91	370198	52.48	ug/L		99
81) o-Xylene	6.421	91	189864	27.79	ug/L		100
82) Styrene	6.458	104	143433	29.07	ug/L		97
83) Bromoform	6.476	173	27247	29.96	ug/L		96
84) Isopropylbenzene	6.653	105	211121	27.86	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	30464	27.59	ug/L		91
88) n-Propylbenzene	6.964	91	268370	25.16	ug/L		95
89) Bromobenzene	6.946	156	51926	24.99	ug/L		92
90) 1,1,2,2-Tetrachloroethane	7.013	83	88664	25.50	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	183957	26.62	ug/L		100
92) 2-Chlorotoluene	7.086	91	182588	25.14	ug/L		97
93) trans-1,4-Dichloro-2-B...	7.153	53	25292	25.37	ug/L		87
94) 1,2,3-Trichloropropane	7.122	110	25919	25.42	ug/L		92
95) Cyclohexanone	7.153	55	29501	128.24	ug/L		98
96) 4-Chlorotoluene	7.214	91	172976	25.34	ug/L		96
97) tert-Butylbenzene	7.366	91	100760	25.01	ug/L		98
99) 1,2,4-Trimethylbenzene	7.421	105	183293	26.83	ug/L		97
100) Pentachloroethane	7.378	167	24475	26.25	ug/L	#	56
101) sec-Butylbenzene	7.500	105	213693	26.27	ug/L		99
102) 4-Isopropyltoluene	7.610	119	176578	27.10	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	103479	25.86	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	193304	25.54	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	106205	24.76	ug/L		94
106) n-Butylbenzene	7.927	92	99713	26.84	ug/L		94
107) Benzyl Chloride	7.915	126	18527	33.70	ug/L		98
108) 1,2-Dichlorobenzene	8.043	146	98670	26.51	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:45 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

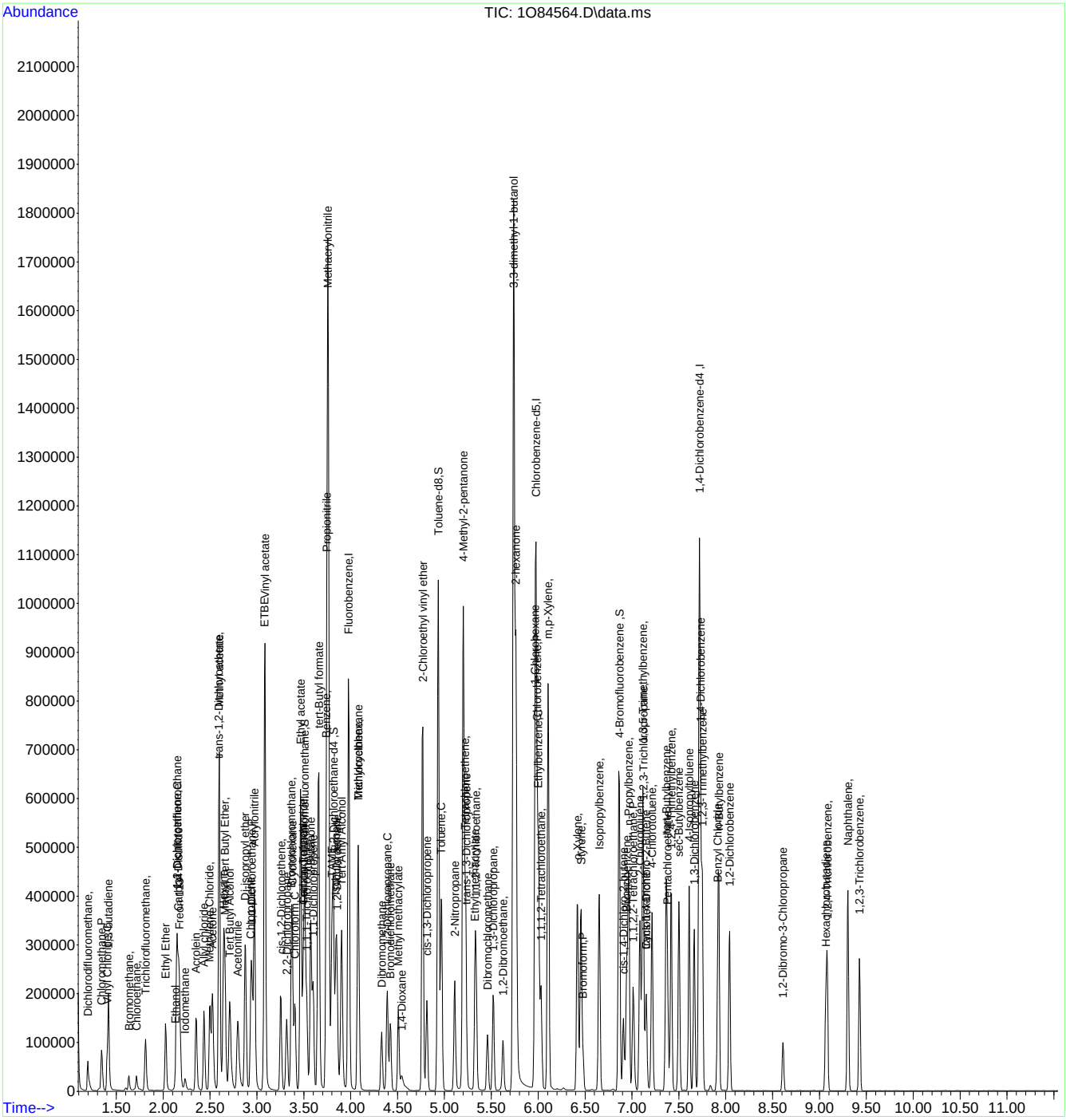
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	18391	23.23	ug/L	97
110) Hexachlorobutadiene	9.067	225	20265	24.76	ug/L	94
111) 1,2,4-Trichlorobenzene	9.085	180	58026	28.01	ug/L	96
112) Naphthalene	9.305	128	223659	29.09	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	56529	28.78	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:45 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

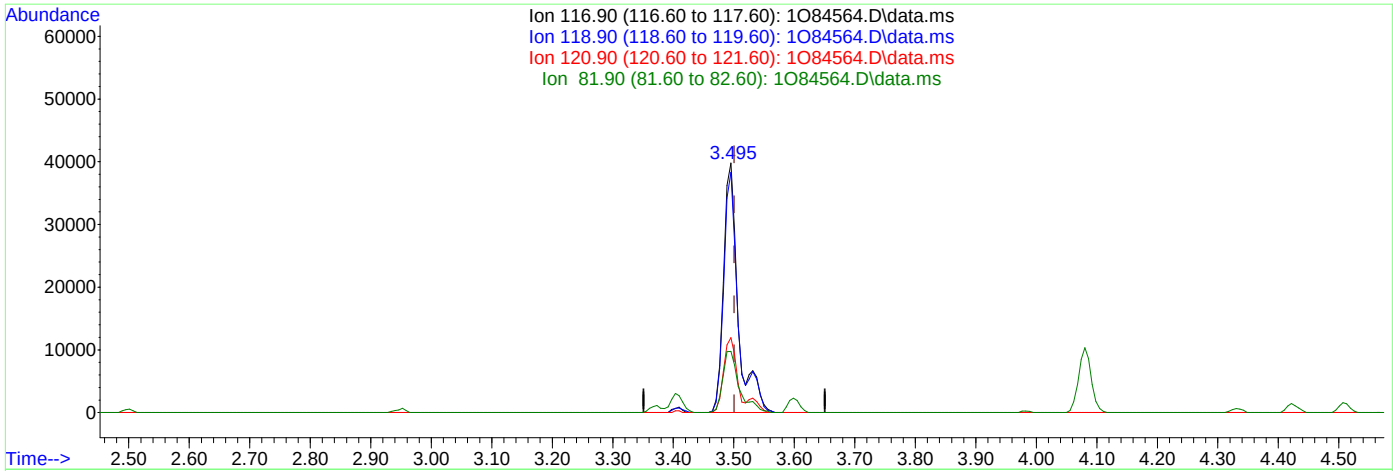
Sample Number: V1O3054-IC3054
Lab FileID: 1O84564.D
Injection Time: 06/02/24 12:10
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

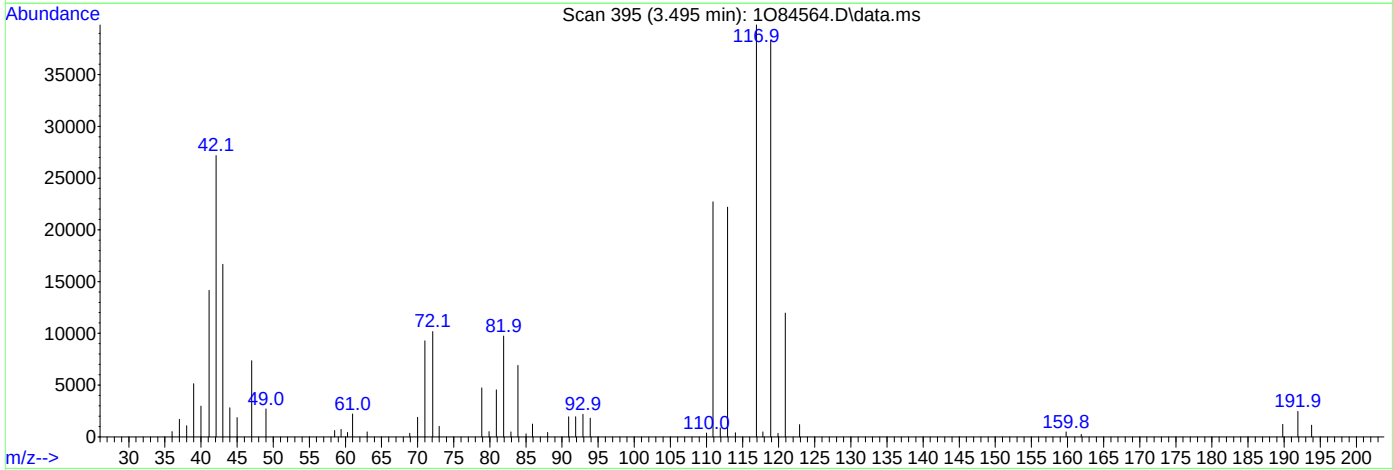
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.50	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 35.28ug/L

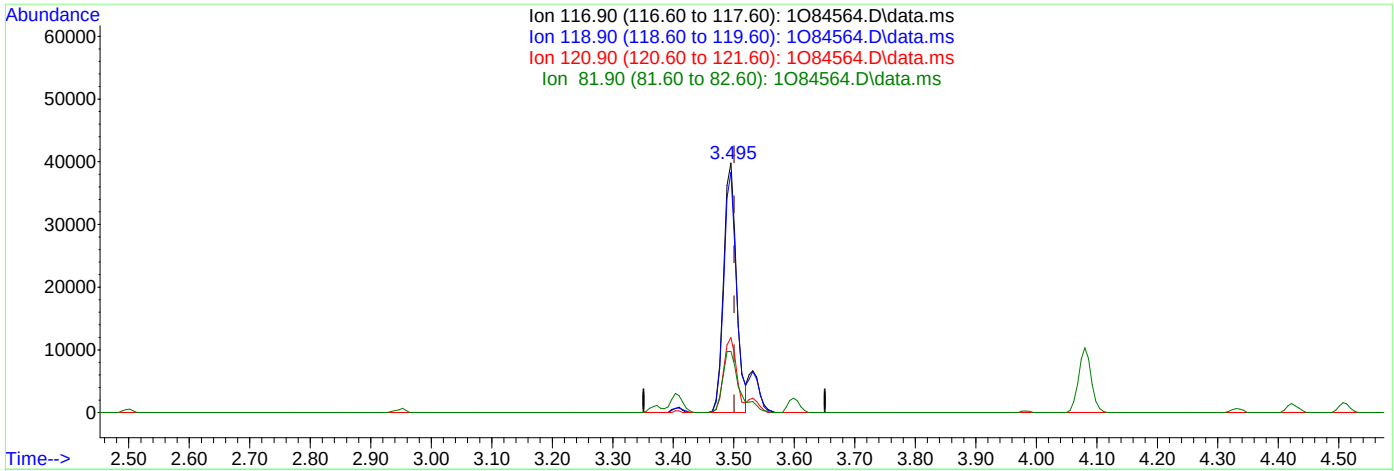
response 66910

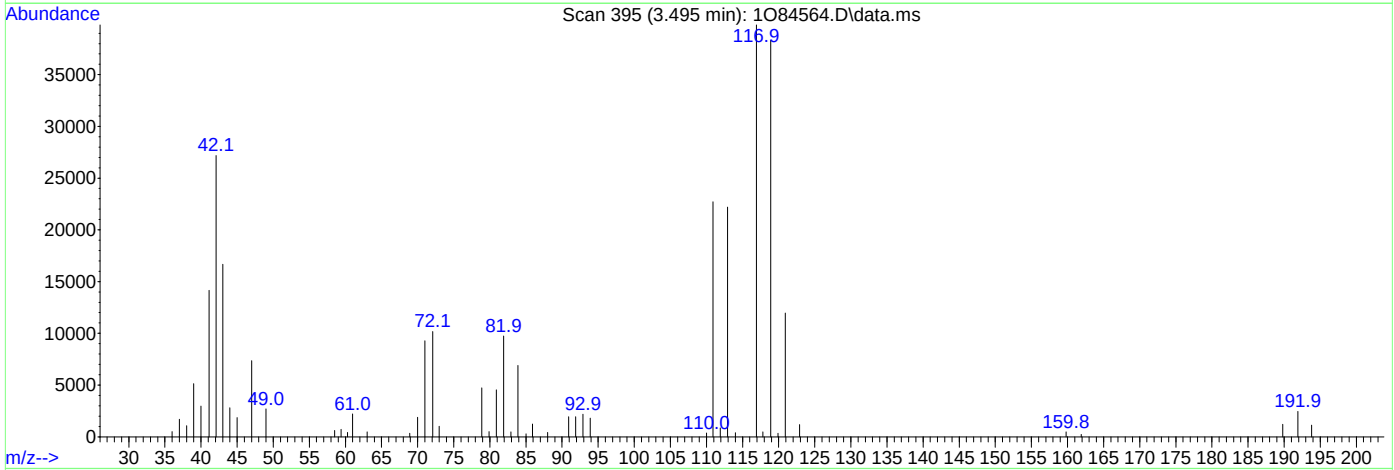
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	96.22
120.90	32.60	30.05
81.90	27.90	24.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 30.80ug/L m

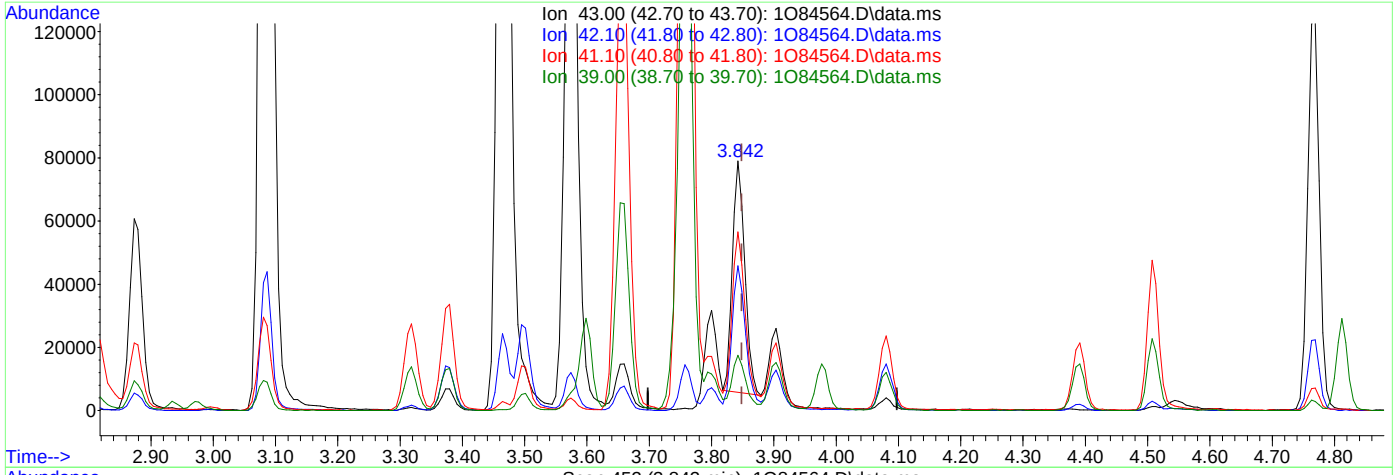
response 58418

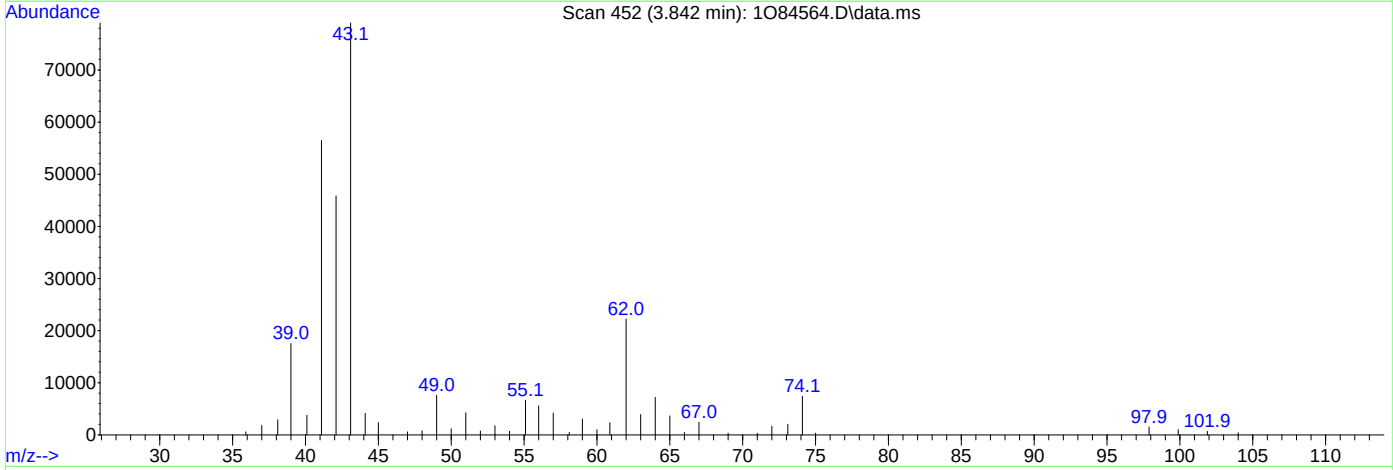
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	96.22
120.90	32.60	30.05
81.90	27.90	24.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 453.04ug/L

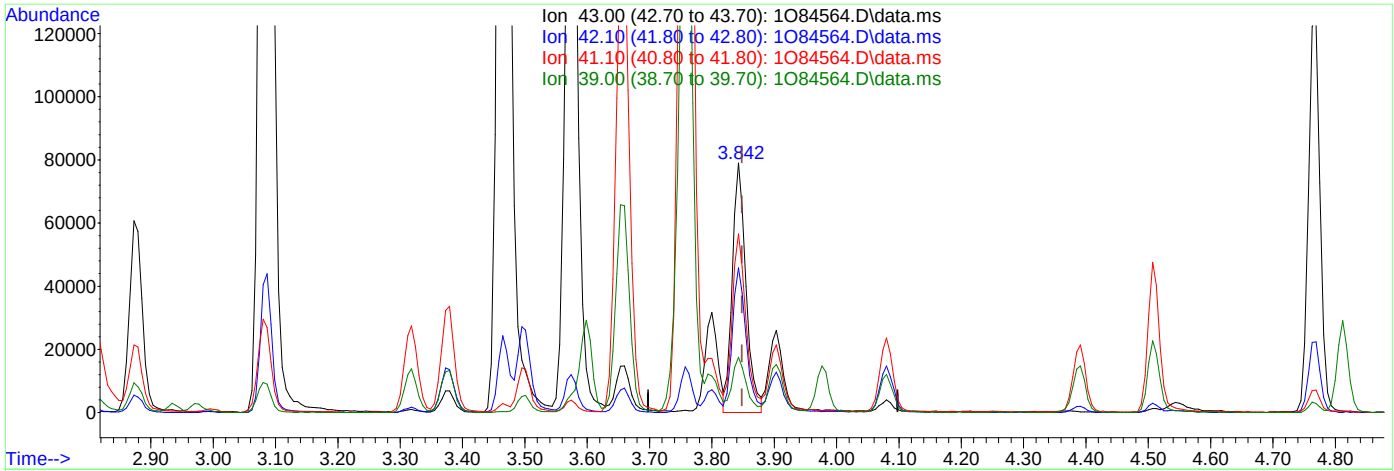
response 100527

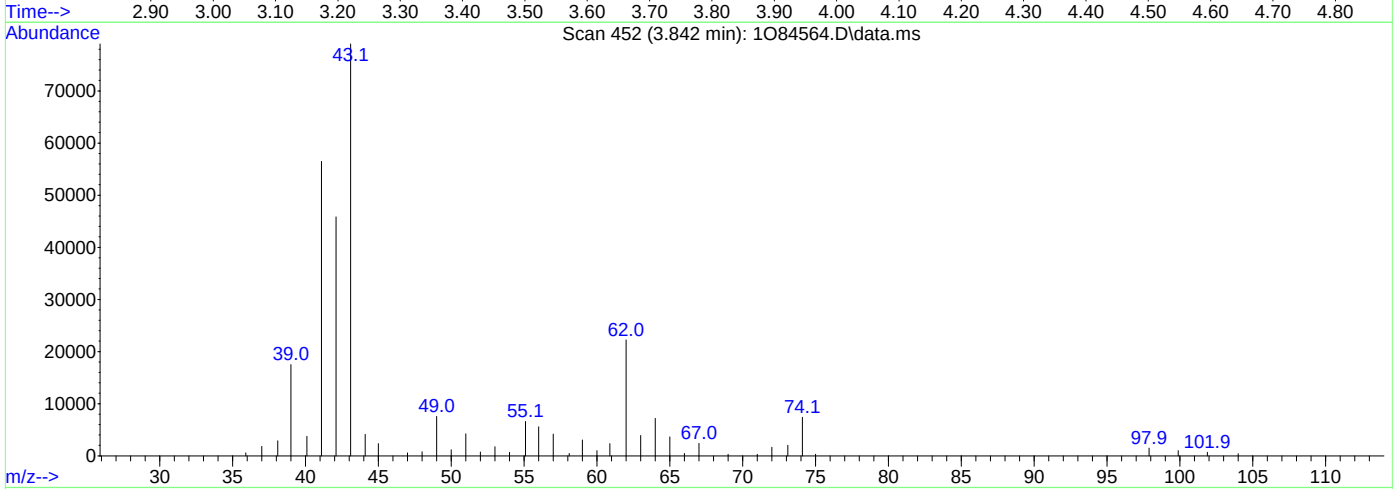
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.94
41.10	75.50	70.24
39.00	27.60	20.92

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 539.74ug/L m

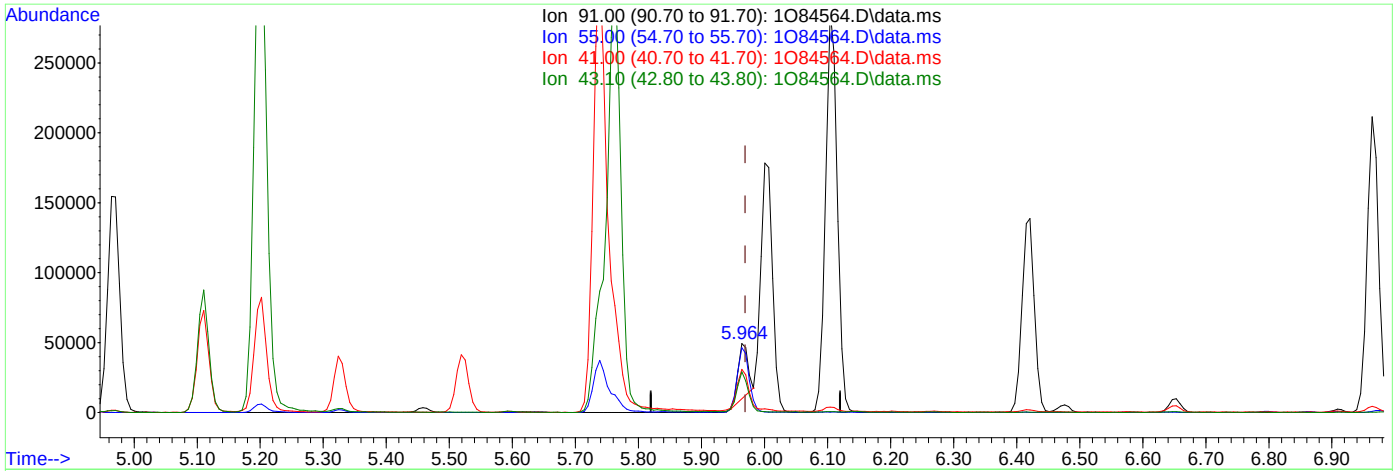
response 121128

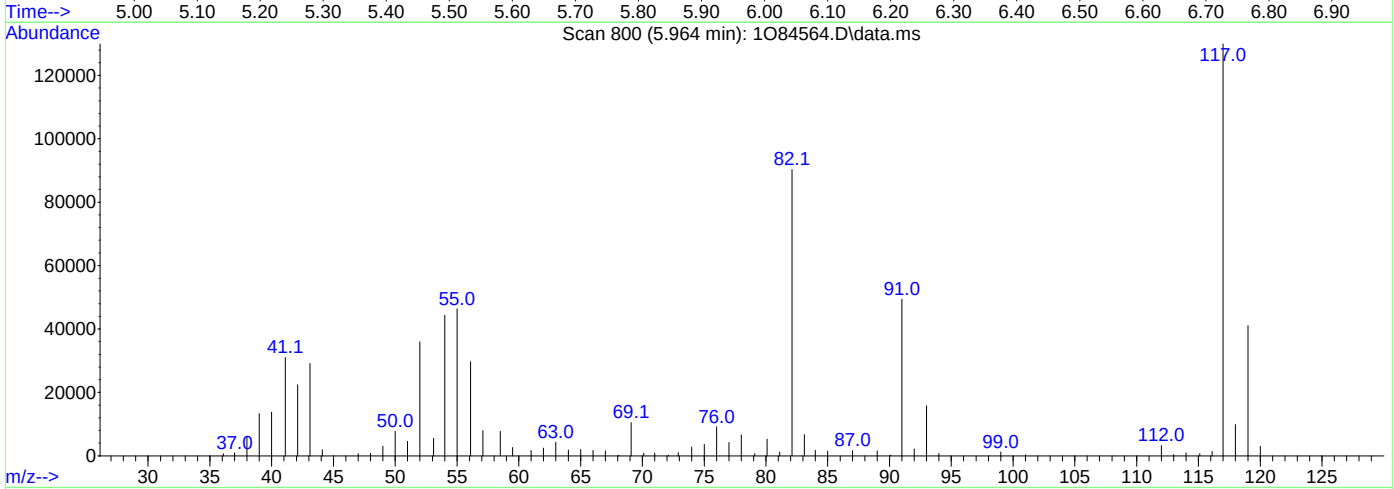
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.01
41.10	75.50	71.50
39.00	27.60	22.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 17.37ug/L

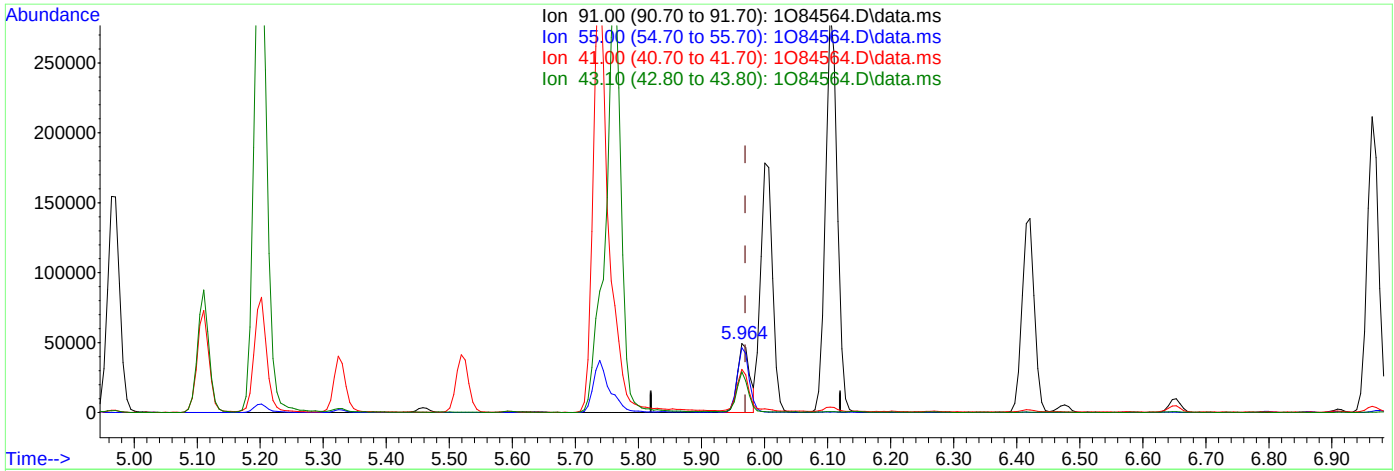
response 44789

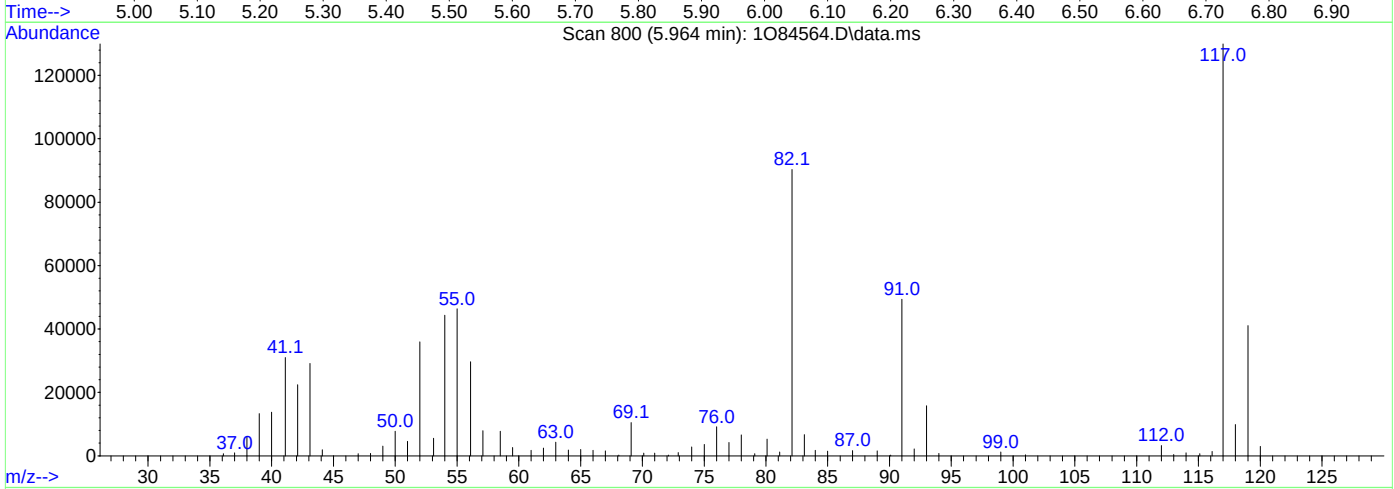
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	92.96
41.00	70.80	59.37
43.10	55.10	56.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84564.D
Acq On : 2 Jun 2024 12:10 pm
Operator : jeniferw
Sample : IC3054-4 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 14:05:14 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84564.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 25.92ug/L m

response 66830

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	94.00
41.00	70.80	62.75
43.10	55.10	59.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:06:22 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	514301	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	353598	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	191685	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	133669	50.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	100.12%		
50) 1,2-Dichloroethane-d4	3.818	65	175756	46.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	92.18%		
63) Toluene-d8	4.934	98	516013	50.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	100.42%		
86) 4-Bromofluorobenzene	6.866	174	133386	49.34	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	98.68%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	74335	40.31	ug/L	99
3) Chloromethane	1.343	50	108157	45.30	ug/L	96
4) 1,3-butadiene	1.422	39	69816	30.90	ug/L	87
5) Vinyl Chloride	1.404	62	94960	39.09	ug/L	99
6) Bromomethane	1.636	94	22430	23.67	ug/L	96
7) Chloroethane	1.715	64	23750	28.93	ug/L	97
8) Trichlorofluoromethane	1.812	101	108731	33.55	ug/L	100
9) Ethyl Ether	2.026	59	89903	43.20	ug/L	97
10) Ethanol	2.129	45	47479	916.31	ug/L	97
11) 1,2-Dichlorotrifluoroe...	2.148	67	77428	31.15	ug/L	98
12) 1,1-Dichloroethene	2.148	61	145179	44.97	ug/L	99
13) Freon 113	2.178	101	79130	44.87	ug/L	95
14) Carbon Disulfide	2.166	76	245830	48.97	ug/L	92
15) Iodomethane	2.239	142	42876	42.32	ug/L	97
16) Acrolein	2.355	56	158745	222.48	ug/L	98
17) Allyl chloride	2.434	41	132832	48.73	ug/L	88
18) Methylene Chloride	2.501	49	136544	43.78	ug/L	97
19) Acetone	2.526	43	271973	183.89	ug/L	95
20) Methyl acetate	2.599	43	670262	211.74	ug/L	97
21) trans-1,2-Dichloroethene	2.599	61	145809	45.03	ug/L	97
22) Hexane	2.648	56	88718	46.20	ug/L	93
23) Methyl Tert Butyl Ether	2.660	73	234408	44.74	ug/L	90
24) Tert Butyl Alcohol	2.709	59	240240	448.86	ug/L	96
25) Acetonitrile	2.794	41	222639	469.59	ug/L	98
26) Di-isopropyl ether	2.879	45	318827	46.98	ug/L	95
27) Chloroprene	2.940	53	138746	45.66	ug/L	94
28) 1,1-Dichloroethane	2.952	63	179797	44.24	ug/L	99
29) Acrylonitrile	2.977	52	298035	212.17	ug/L	100
30) ETBE	3.080	59	287044	45.97	ug/L	97
31) Vinyl acetate	3.086	43	1083864	202.97	ug/L	97
32) cis-1,2-Dichloroethene	3.257	96	90330	43.84	ug/L	95
33) 2,2-Dichloropropane	3.318	77	99533	45.47	ug/L	97
34) Bromochloromethane	3.367	128	42188	43.85	ug/L	93
35) Cyclohexane	3.379	56	179202	49.96	ug/L	99
36) Chloroform	3.410	83	161059	42.30	ug/L	95
37) Ethyl acetate	3.464	43	819939	213.60	ug/L	98
38) Tetrahydrofuran	3.501	42	61705	41.48	ug/L	95
40) Carbon Tetrachloride	3.495	117	97999m	51.89	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	124432	44.70	ug/L	96
42) 2-Butanone	3.574	43	489911	209.49	ug/L	98
43) 1,1-Dichloropropene	3.599	75	117766	44.46	ug/L	96
44) tert-Butyl formate	3.660	59	251020	274.98	ug/L #	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:06:22 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	321966	425.61	ug/L		91
46) Methacrylonitrile	3.757	41	900393	400.30	ug/L		98
47) Benzene	3.745	78	334732	41.53	ug/L		87
48) TAME	3.800	73	212811	45.58	ug/L		99
49) Isobutyl alcohol	3.842	43	210807m	901.18	ug/L		
51) 1,2-Dichloroethane	3.855	62	133041	37.46	ug/L		99
52) Tert Amyl Alcohol	3.903	59	195082	440.31	ug/L		97
53) Trichloroethene	4.080	95	91271	42.09	ug/L		99
54) Methylcyclohexane	4.080	83	131972	45.84	ug/L		95
55) Dibromomethane	4.330	93	56834	41.52	ug/L		95
56) 1,2-Dichloropropane	4.391	63	101482	46.08	ug/L		94
57) Bromodichloromethane	4.422	83	109400	44.85	ug/L		99
58) Methyl methacrylate	4.507	41	105368	47.92	ug/L		94
59) 1,4-Dioxane	4.544	88	38007	866.61	ug/L		97
60) 2-Chloroethyl vinyl ether	4.769	63	419560	239.29	ug/L		98
61) cis-1,3-Dichloropropene	4.812	75	129583	44.20	ug/L		93
64) Toluene	4.970	91	351204	41.59	ug/L		98
65) 2-Nitropropane	5.110	41	163852	255.81	ug/L		94
66) 4-Methyl-2-pentanone	5.202	43	824349	219.47	ug/L		97
67) trans-1,3-Dichloropropene	5.232	75	122583	41.43	ug/L		91
68) Tetrachloroethene	5.220	166	80561	43.32	ug/L		99
69) Ethyl methacrylate	5.324	69	122038	46.32	ug/L		95
70) 1,1,2-Trichloroethane	5.336	83	75030	41.93	ug/L		96
71) Dibromochloromethane	5.458	129	77332	48.75	ug/L		99
72) 1,3-Dichloropropane	5.525	76	142663	42.64	ug/L		93
73) 1,2-Dibromoethane	5.623	107	88402	44.89	ug/L		98
74) 3,3-dimethyl-1-butanol	5.738	57	1391699	2327.25	ug/L		98
75) 2-hexanone	5.763	43	852215	221.87	ug/L		96
76) 1-Chlorohexane	5.964	91	108312m	42.15	ug/L		
77) Ethylbenzene	6.007	91	382833	41.97	ug/L		98
78) Chlorobenzene	5.988	112	223170	41.34	ug/L		99
79) 1,1,1,2-Tetrachloroethane	6.031	131	72658	49.62	ug/L		97
80) m,p-Xylene	6.104	91	607626	86.44	ug/L		99
81) o-Xylene	6.421	91	307870	45.22	ug/L		99
82) Styrene	6.458	104	235874	47.97	ug/L		97
83) Bromoform	6.476	173	46573	47.72	ug/L		95
84) Isopropylbenzene	6.653	105	350499	46.42	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	51854	47.38	ug/L	#	82
88) n-Propylbenzene	6.964	91	434076	41.06	ug/L		96
89) Bromobenzene	6.946	156	84262	40.91	ug/L		91
90) 1,1,2,2-Tetrachloroethane	7.013	83	143522	41.64	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	301397	44.00	ug/L		99
92) 2-Chlorotoluene	7.086	91	296838	41.23	ug/L		97
93) trans-1,4-Dichloro-2-B...	7.153	53	41925	42.43	ug/L		81
94) 1,2,3-Trichloropropane	7.122	110	41418	40.99	ug/L		97
95) Cyclohexanone	7.153	55	49528	217.22	ug/L		95
96) 4-Chlorotoluene	7.214	91	280824	41.50	ug/L		96
97) tert-Butylbenzene	7.366	91	166673	41.74	ug/L		98
99) 1,2,4-Trimethylbenzene	7.421	105	301877	44.57	ug/L		99
100) Pentachloroethane	7.384	167	42295	45.77	ug/L		96
101) sec-Butylbenzene	7.500	105	352774	43.76	ug/L		98
102) 4-Isopropyltoluene	7.610	119	294862	45.65	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	167072	42.12	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	318553	42.46	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	169625	39.89	ug/L		95
106) n-Butylbenzene	7.927	92	165156	44.85	ug/L		97
107) Benzyl Chloride	7.915	126	34589	53.76	ug/L	#	91
108) 1,2-Dichlorobenzene	8.043	146	158727	43.03	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:06:22 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

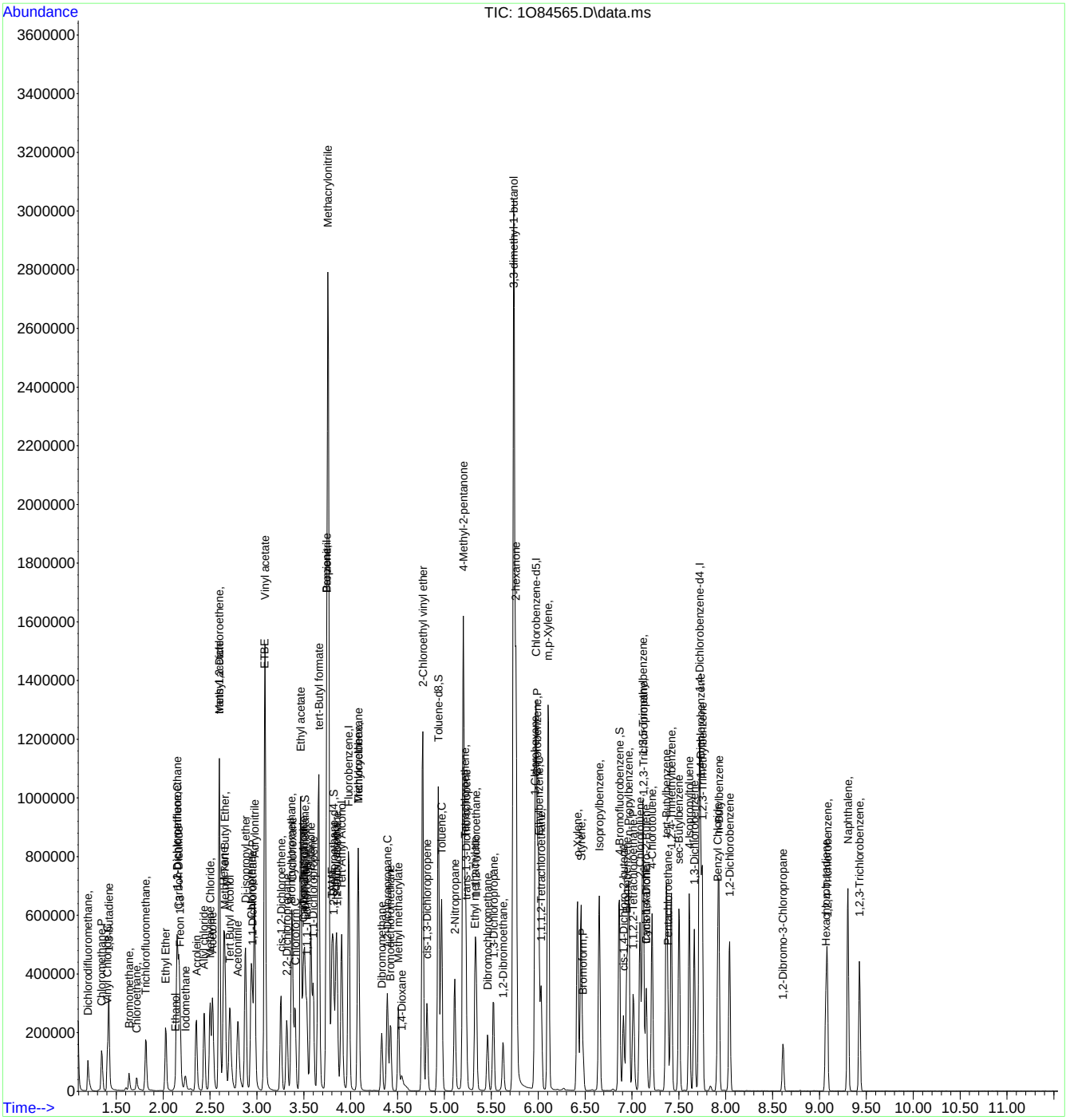
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	31408	40.03	ug/L	97
110) Hexachlorobutadiene	9.067	225	33855	41.74	ug/L	96
111) 1,2,4-Trichlorobenzene	9.085	180	96910	47.20	ug/L	96
112) Naphthalene	9.305	128	378373	49.65	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	91633	47.07	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:06:22 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

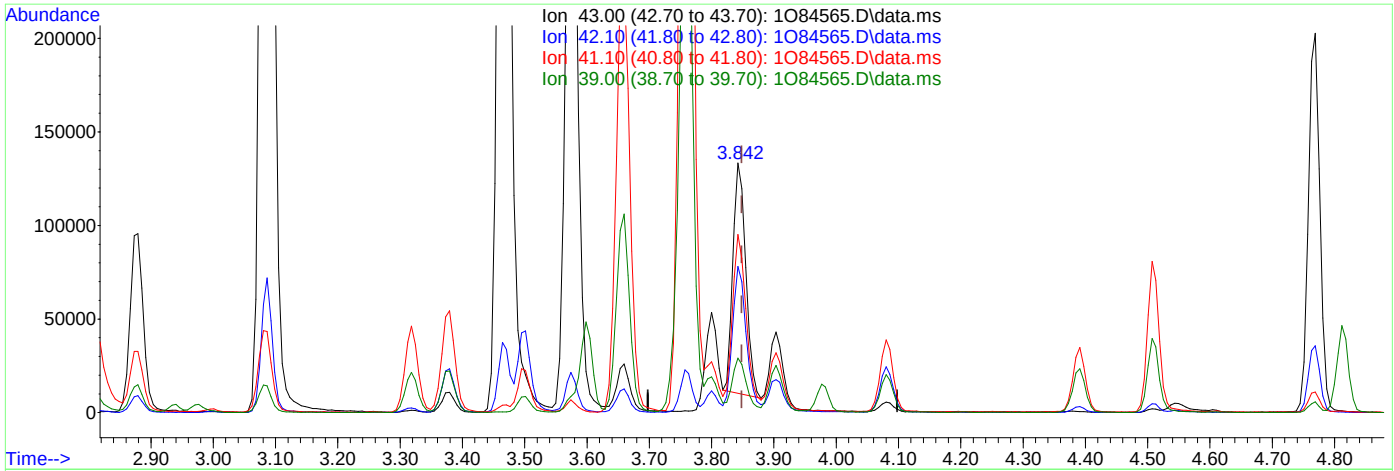
Sample Number: V1O3054-ICC3054 **Method:** SW846 8260D
Lab FileID: 1O84565.D **Analyst approved:** 06/02/24 14:52 Jenifer Willis
Injection Time: 06/02/24 12:35 **Supervisor approved:** 06/03/24 08:07 Karen Watson

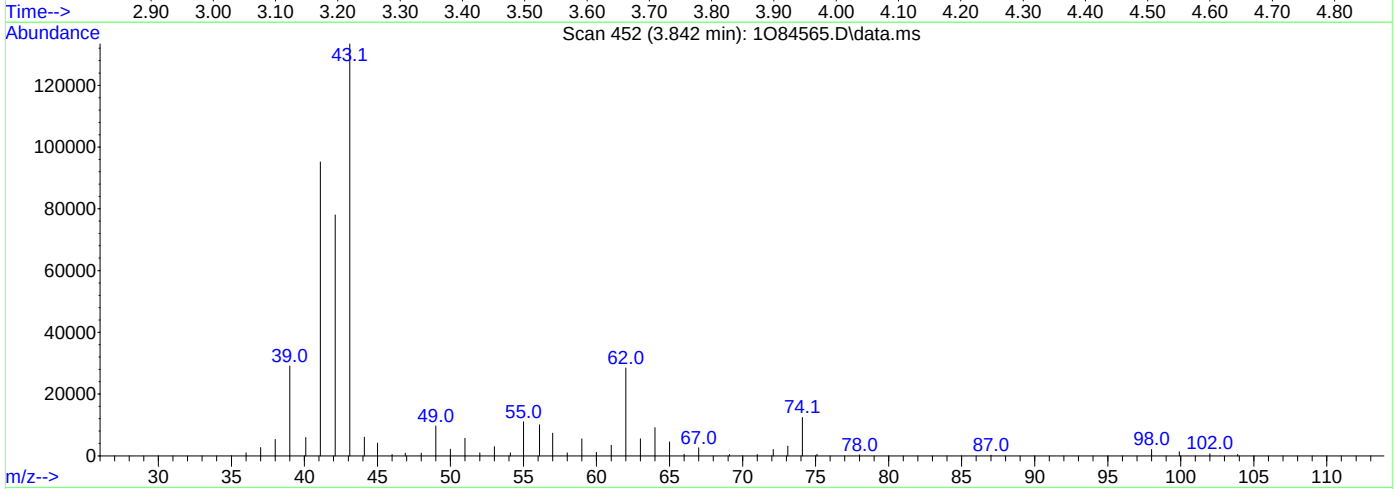
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:05:55 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 760.67ug/L

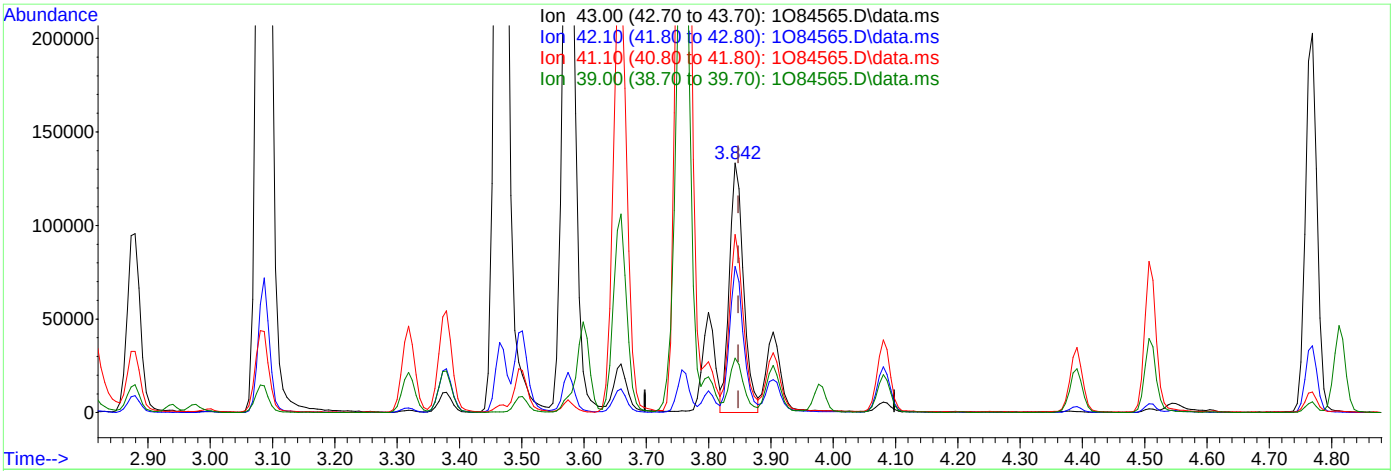
response 174840

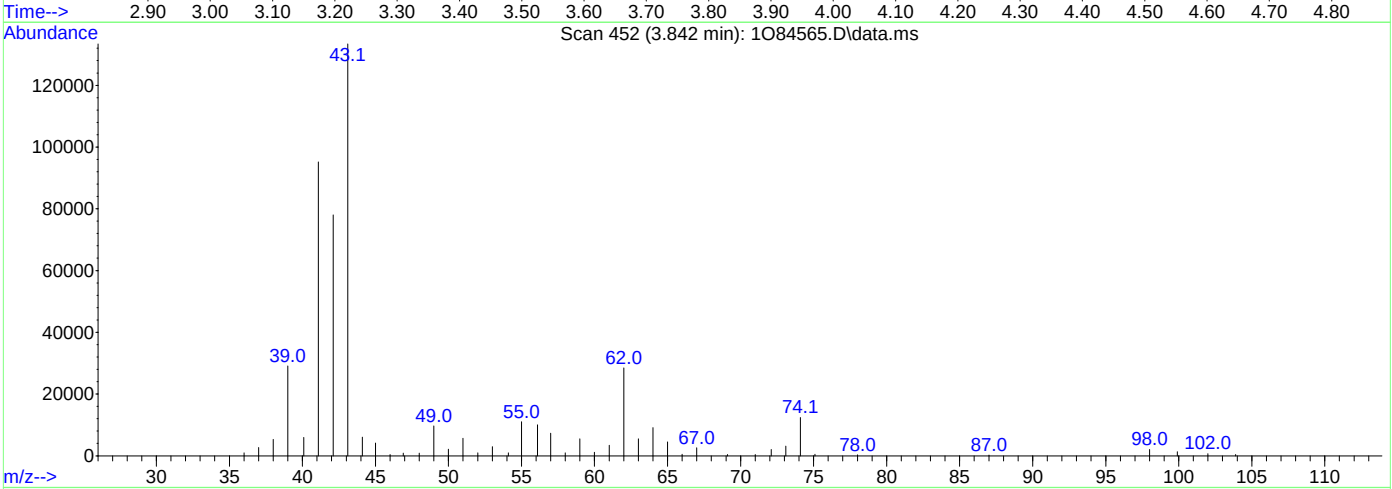
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.12
41.10	75.50	70.44
39.00	27.60	21.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:05:55 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(49) Isobutyl alcohol

3.842min (-0.006) 901.18ug/L m

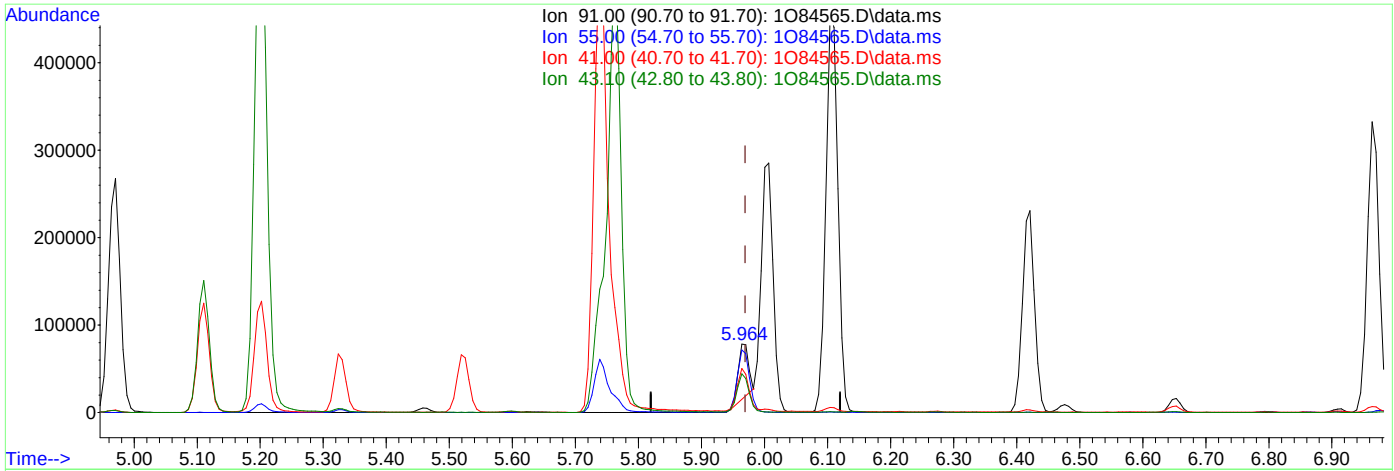
response 210807

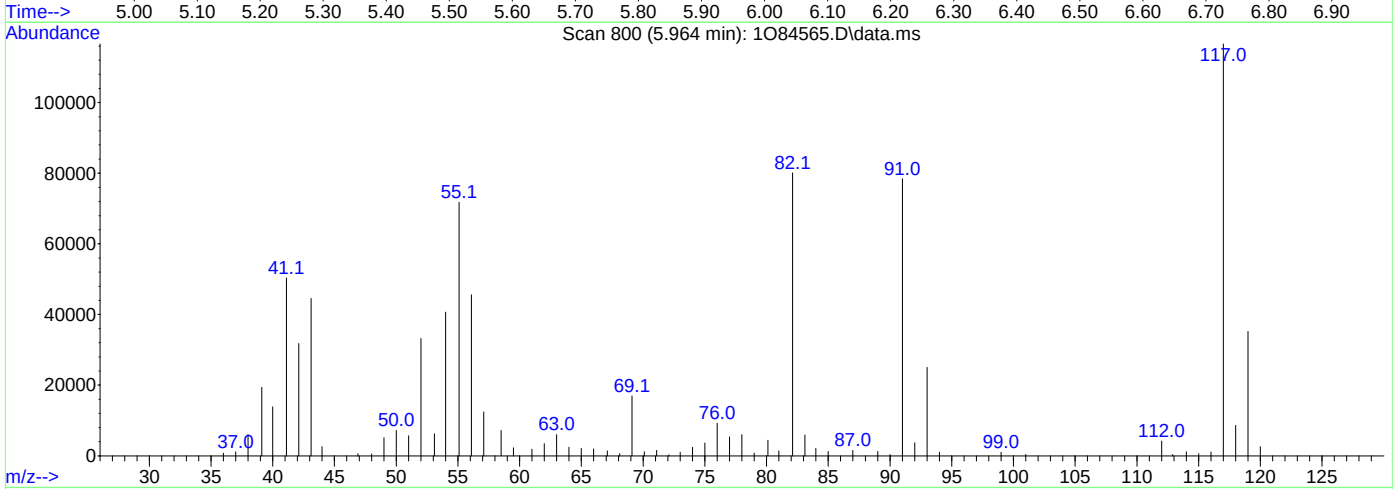
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	58.49
41.10	75.50	71.35
39.00	27.60	21.80

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:05:55 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 29.14ug/L

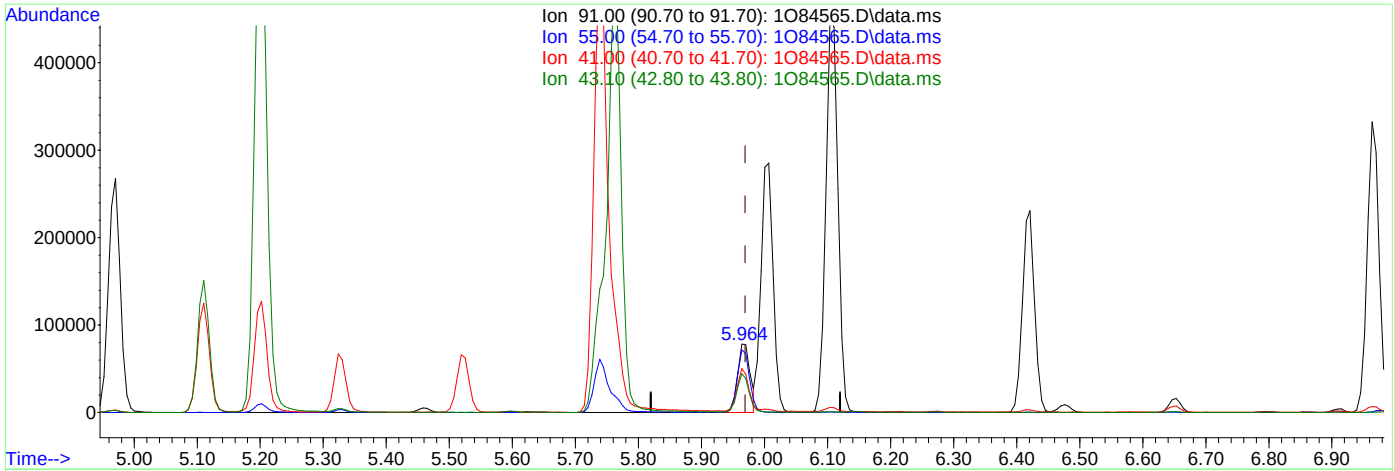
response 74891

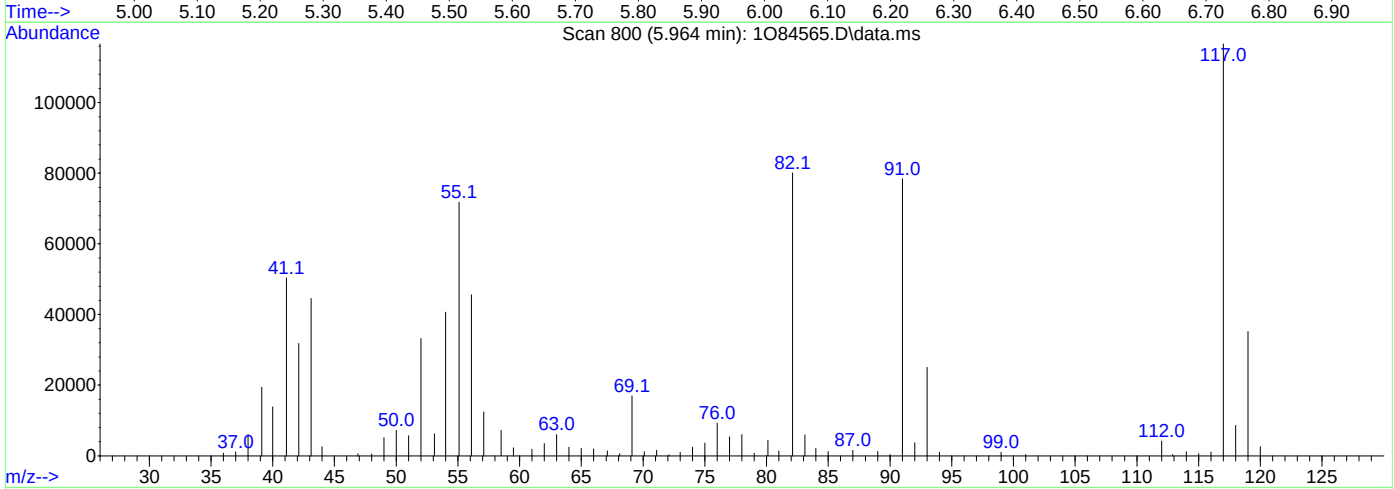
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	90.04
41.00	70.80	61.16
43.10	55.10	54.92

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:05:55 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(76) 1-Chlorohexane

5.964min (-0.006) 42.15ug/L m

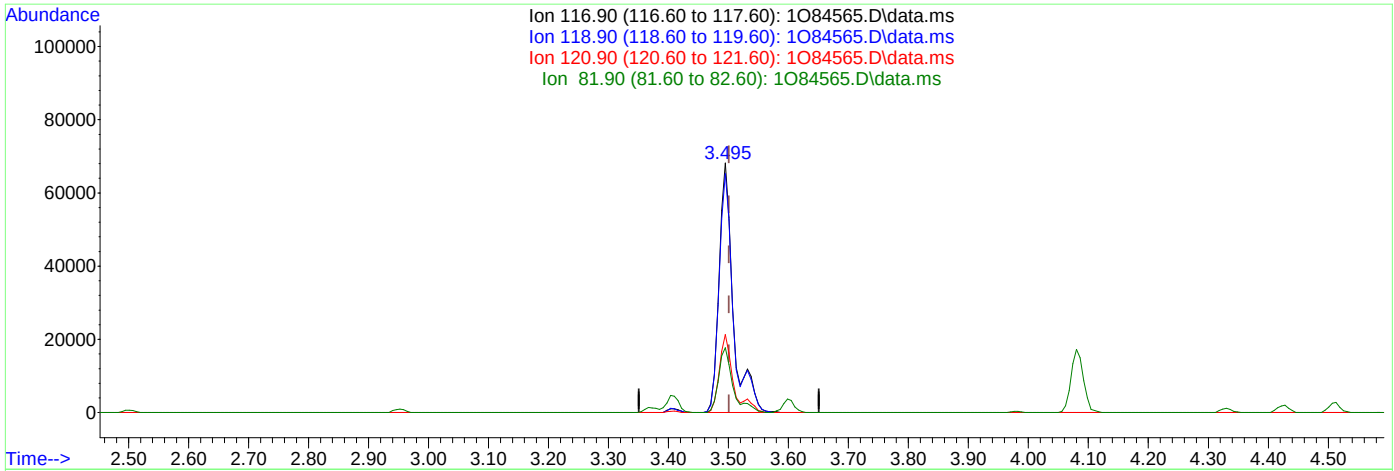
response 108312

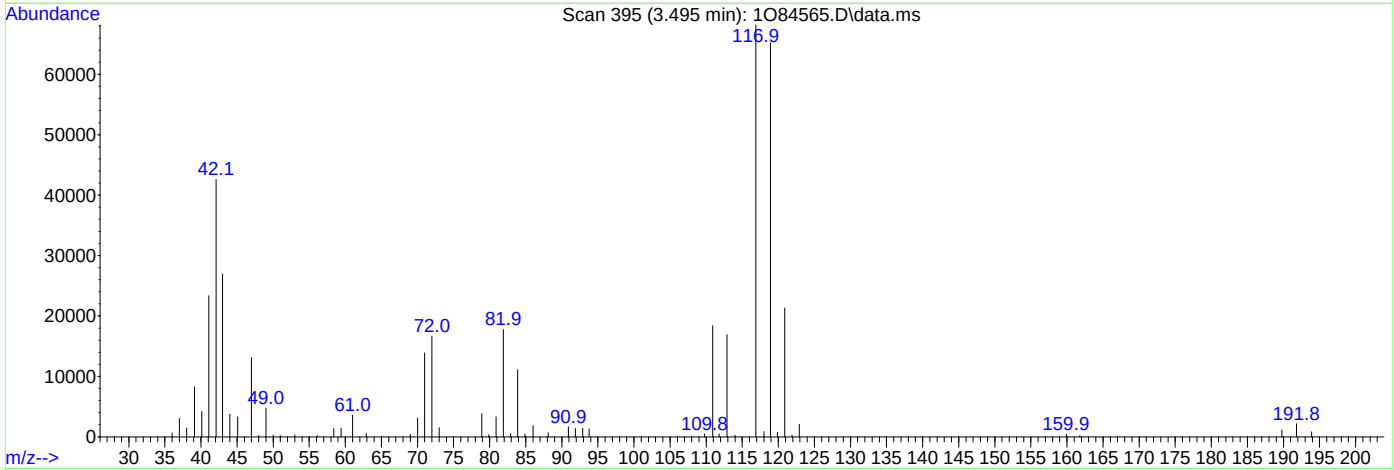
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	91.46
41.00	70.80	64.23
43.10	55.10	56.77

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:05:55 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 59.85ug/L

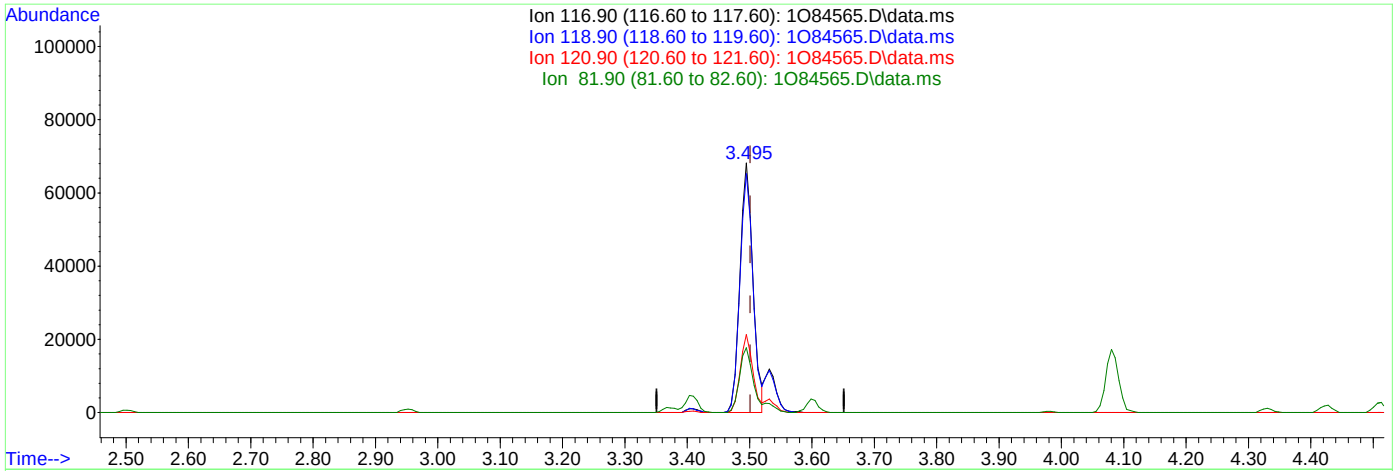
response 113029

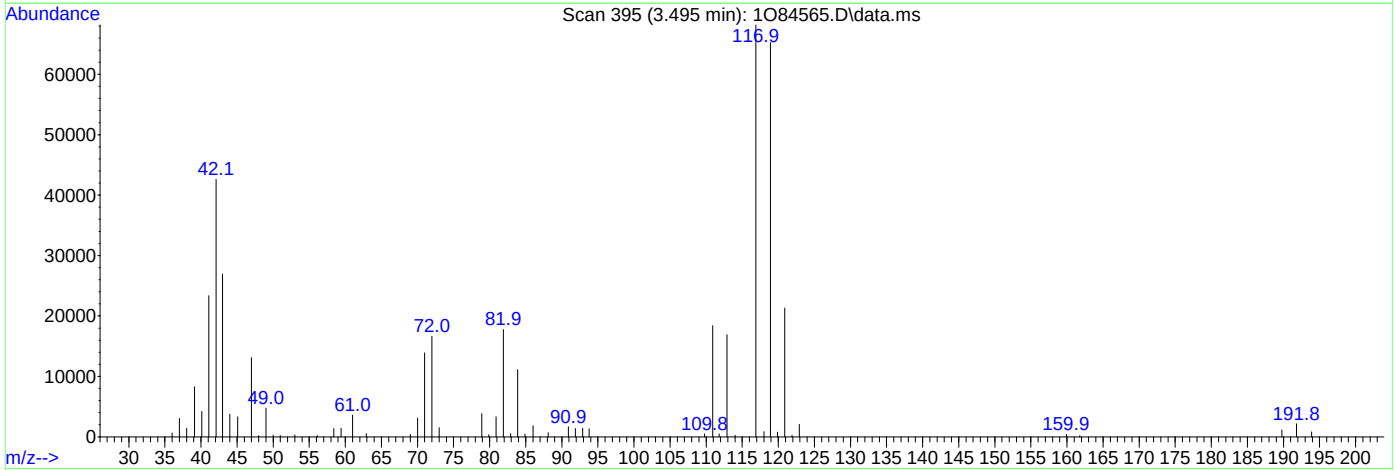
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.66
120.90	32.60	31.26
81.90	27.90	26.01

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84565.D
Acq On : 2 Jun 2024 12:35 pm
Operator : jeniferw
Sample : ICC3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 14:06:22 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84565.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 51.89ug/L m

response 97999

Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.66
120.90	32.60	31.26
81.90	27.90	26.01

1O84566.D

Manual Integrations APPROVED (compounds with "m" flag)

Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:07:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.983	96	527238	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	363155	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	199079	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	139477	50.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.90%			
50) 1,2-Dichloroethane-d4	3.818	65	183455	46.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.86%			
63) Toluene-d8	4.934	98	532669	50.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.92%			
86) 4-Bromofluorobenzene	6.866	174	139140	49.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.203	85	128617	68.04	ug/L	99
3) Chloromethane	1.349	50	185498	75.79	ug/L	97
4) 1,3-butadiene	1.422	39	112482	48.55	ug/L	89
5) Vinyl Chloride	1.410	62	167783	67.37	ug/L	98
6) Bromomethane	1.642	94	40497	41.68	ug/L	96
7) Chloroethane	1.721	64	38399	45.62	ug/L	97
8) Trichlorofluoromethane	1.812	101	177853	53.53	ug/L	100
9) Ethyl Ether	2.032	59	156567	73.38	ug/L	98
10) Ethanol	2.142	45	76666	1443.29	ug/L	98
11) 1,2-Dichlorotrifluoroe...	2.148	67	131838	51.73	ug/L	99
12) 1,1-Dichloroethene	2.148	61	248029	74.95	ug/L	98
13) Freon 113	2.178	101	135750	75.08	ug/L	95
14) Carbon Disulfide	2.166	76	426864	82.94	ug/L	91
15) Iodomethane	2.239	142	83115	70.57	ug/L	100
16) Acrolein	2.355	56	277020	378.72	ug/L	99
17) Allyl chloride	2.440	41	217616	77.87	ug/L	87
18) Methylene Chloride	2.501	49	227582	71.18	ug/L	98
19) Acetone	2.532	43	465860	307.26	ug/L	95
20) Methyl acetate	2.605	43	1124472	346.51	ug/L	96
21) trans-1,2-Dichloroethene	2.599	61	246483	74.26	ug/L	98
22) Hexane	2.648	56	149590	75.99	ug/L	91
23) Methyl Tert Butyl Ether	2.660	73	417430	77.71	ug/L	92
24) Tert Butyl Alcohol	2.721	59	444290	809.73	ug/L	87
25) Acetonitrile	2.800	41	347134	714.21	ug/L	98
26) Di-isopropyl ether	2.879	45	555481	79.85	ug/L	95
27) Chloroprene	2.940	53	245905	78.93	ug/L	94
28) 1,1-Dichloroethane	2.952	63	307610	73.82	ug/L	97
29) Acrylonitrile	2.977	52	509486	353.81	ug/L	99
30) ETBE	3.086	59	501938	78.42	ug/L	99
31) Vinyl acetate	3.086	43	1835220	335.24	ug/L	97
32) cis-1,2-Dichloroethene	3.257	96	157389	74.50	ug/L	97
33) 2,2-Dichloropropane	3.318	77	177601	74.48	ug/L	98
34) Bromochloromethane	3.373	128	72091	73.09	ug/L	95
35) Cyclohexane	3.379	56	307050	83.51	ug/L	94
36) Chloroform	3.410	83	276076	70.73	ug/L	95
37) Ethyl acetate	3.471	43	1385813	352.15	ug/L	97
38) Tetrahydrofuran	3.501	42	110206	72.27	ug/L	96
40) Carbon Tetrachloride	3.495	117	171888m	88.79	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	217763	76.31	ug/L	96
42) 2-Butanone	3.574	43	837339	349.27	ug/L	100
43) 1,1-Dichloropropene	3.599	75	201725	74.28	ug/L	97
44) tert-Butyl formate	3.660	59	468656	431.16	ug/L #	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:07:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.751	54	525416	677.51	ug/L		91
46) Methacrylonitrile	3.763	41	1450361	628.98	ug/L		98
47) Benzene	3.745	78	576561	69.78	ug/L		98
48) TAME	3.800	73	385102	80.45	ug/L		97
49) Isobutyl alcohol	3.849	43	365571m	1430.62	ug/L		
51) 1,2-Dichloroethane	3.855	62	227844	62.58	ug/L		99
52) Tert Amyl Alcohol	3.909	59	359827	726.04	ug/L		90
53) Trichloroethene	4.080	95	155108	69.77	ug/L		99
54) Methylcyclohexane	4.080	83	227419	77.05	ug/L		95
55) Dibromomethane	4.330	93	100928	71.93	ug/L		98
56) 1,2-Dichloropropane	4.391	63	174425	77.26	ug/L		93
57) Bromodichloromethane	4.428	83	197055	78.81	ug/L		98
58) Methyl methacrylate	4.507	41	180860	80.23	ug/L		93
59) 1,4-Dioxane	4.550	88	69241	1540.05	ug/L		96
60) 2-Chloroethyl vinyl ether	4.769	63	735383	409.12	ug/L		97
61) cis-1,3-Dichloropropene	4.812	75	233339	77.63	ug/L		92
64) Toluene	4.970	91	610388	70.38	ug/L		99
65) 2-Nitropropane	5.110	41	299269	399.24	ug/L		92
66) 4-Methyl-2-pentanone	5.202	43	1397082	362.16	ug/L		96
67) trans-1,3-Dichloropropene	5.232	75	220886	72.69	ug/L		90
68) Tetrachloroethene	5.220	166	137636	72.06	ug/L		99
69) Ethyl methacrylate	5.330	69	215433	79.62	ug/L		85
70) 1,1,2-Trichloroethane	5.336	83	129231	70.32	ug/L		95
71) Dibromochloromethane	5.458	129	142781	87.64	ug/L		99
72) 1,3-Dichloropropane	5.525	76	246340	71.69	ug/L		93
73) 1,2-Dibromoethane	5.623	107	156399	77.33	ug/L		98
74) 3,3-dimethyl-1-butanol	5.745	57	2514578	3689.83	ug/L		99
75) 2-hexanone	5.763	43	1441455	365.40	ug/L		92
76) 1-Chlorohexane	5.970	91	186865m	70.81	ug/L		
77) Ethylbenzene	6.007	91	663631	70.84	ug/L		98
78) Chlorobenzene	5.988	112	384771	69.41	ug/L		99
79) 1,1,1,2-Tetrachloroethane	6.031	131	127880	85.04	ug/L		96
80) m,p-Xylene	6.104	91	1045927	144.87	ug/L		99
81) o-Xylene	6.421	91	544482	77.87	ug/L		100
82) Styrene	6.458	104	415454	82.26	ug/L		98
83) Bromoform	6.476	173	89562	79.29	ug/L		98
84) Isopropylbenzene	6.653	105	617171	79.58	ug/L		99
87) cis-1,4-Dichloro-2-butene	6.909	53	90500	79.62	ug/L	#	77
88) n-Propylbenzene	6.964	91	760549	69.27	ug/L		96
89) Bromobenzene	6.945	156	148559	69.44	ug/L		90
90) 1,1,2,2-Tetrachloroethane	7.013	83	252210	70.46	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	526758	74.05	ug/L		99
92) 2-Chlorotoluene	7.086	91	516121	69.03	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.153	53	75124	73.20	ug/L	#	72
94) 1,2,3-Trichloropropane	7.122	110	71831	68.44	ug/L		97
95) Cyclohexanone	7.153	55	89088	376.21	ug/L		97
96) 4-Chlorotoluene	7.214	91	494028	70.30	ug/L		97
97) tert-Butylbenzene	7.366	91	293427	70.76	ug/L		98
99) 1,2,4-Trimethylbenzene	7.421	105	534413	75.98	ug/L		97
100) Pentachloroethane	7.384	167	76483	79.69	ug/L		98
101) sec-Butylbenzene	7.500	105	618644	73.88	ug/L		99
102) 4-Isopropyltoluene	7.610	119	521951	77.81	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	293953	71.36	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	560314	71.92	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	296796	67.21	ug/L		94
106) n-Butylbenzene	7.927	92	296665	77.57	ug/L		98
107) Benzyl Chloride	7.915	126	69564	84.37	ug/L	#	83
108) 1,2-Dichlorobenzene	8.043	146	280452	73.20	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:07:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

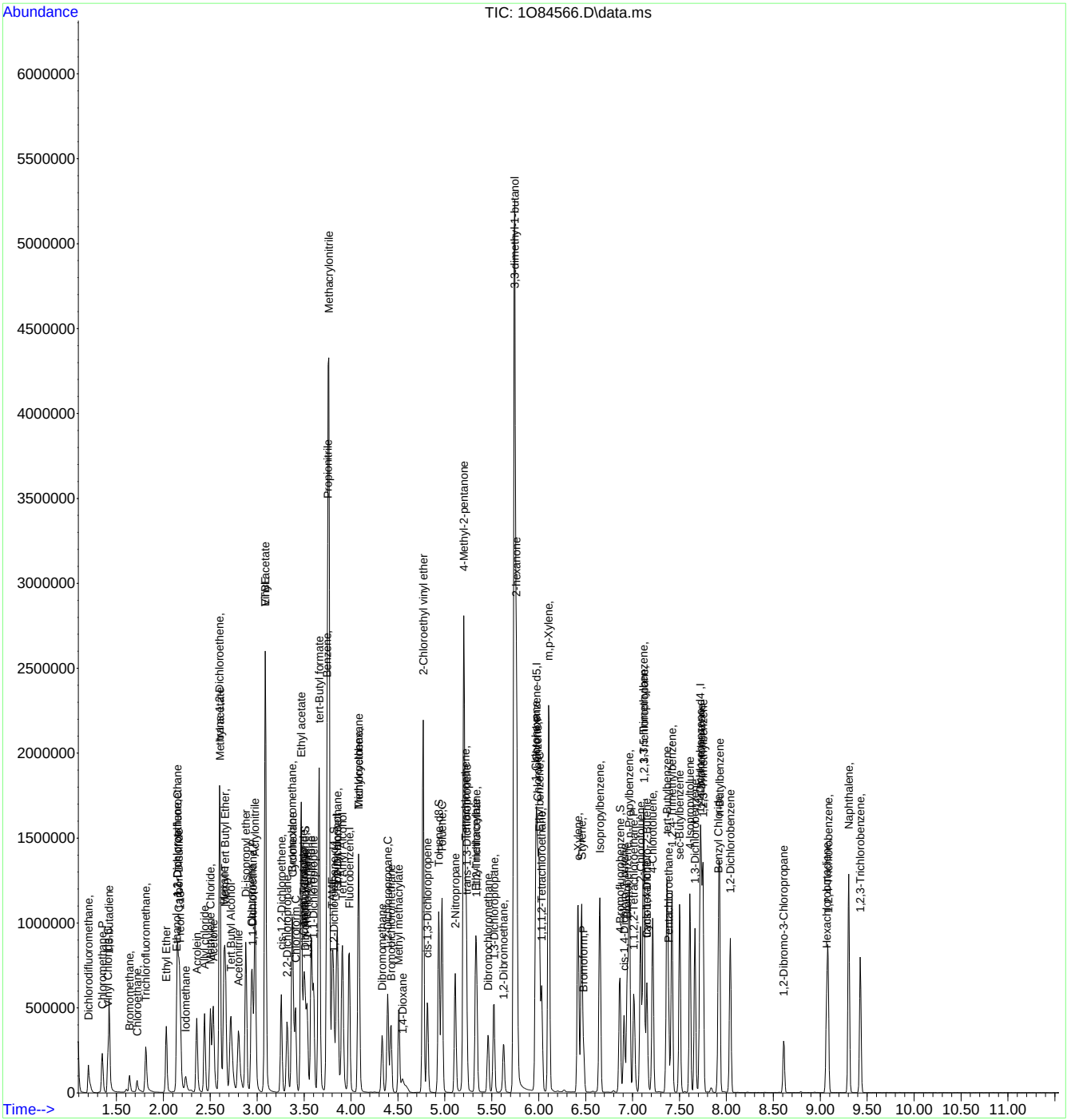
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	59069	72.49	ug/L	94
110) Hexachlorobutadiene	9.067	225	59065	70.12	ug/L	97
111) 1,2,4-Trichlorobenzene	9.085	180	172765	81.02	ug/L	98
112) Naphthalene	9.305	128	696571	88.01	ug/L	99
113) 1,2,3-Trichlorobenzene	9.427	180	167136	82.66	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:07:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

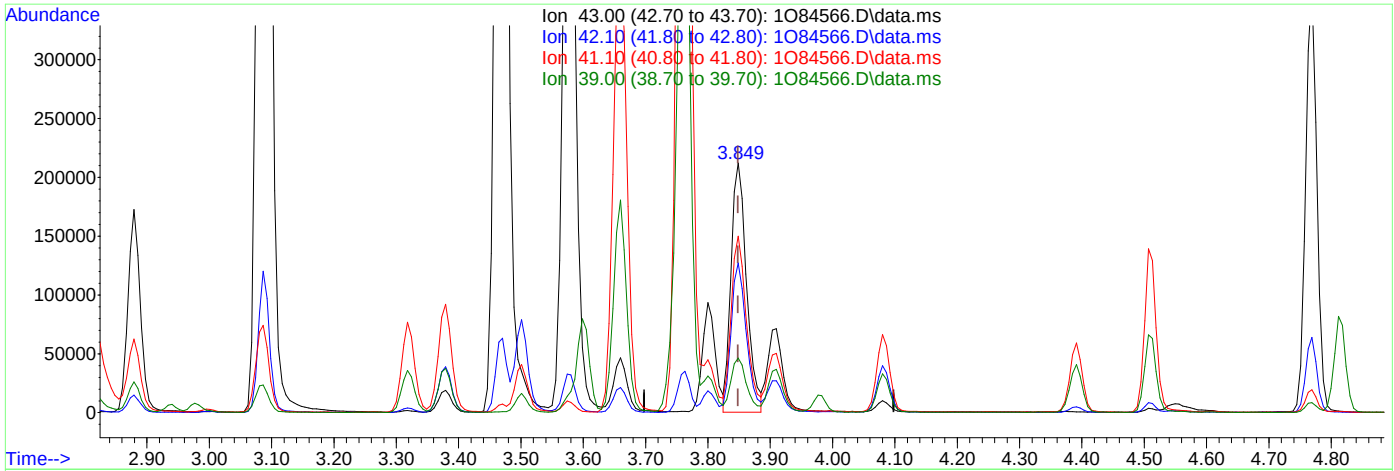
Sample Number: V1O3054-IC3054
Lab FileID: 1O84566.D
Injection Time: 06/02/24 13:01
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

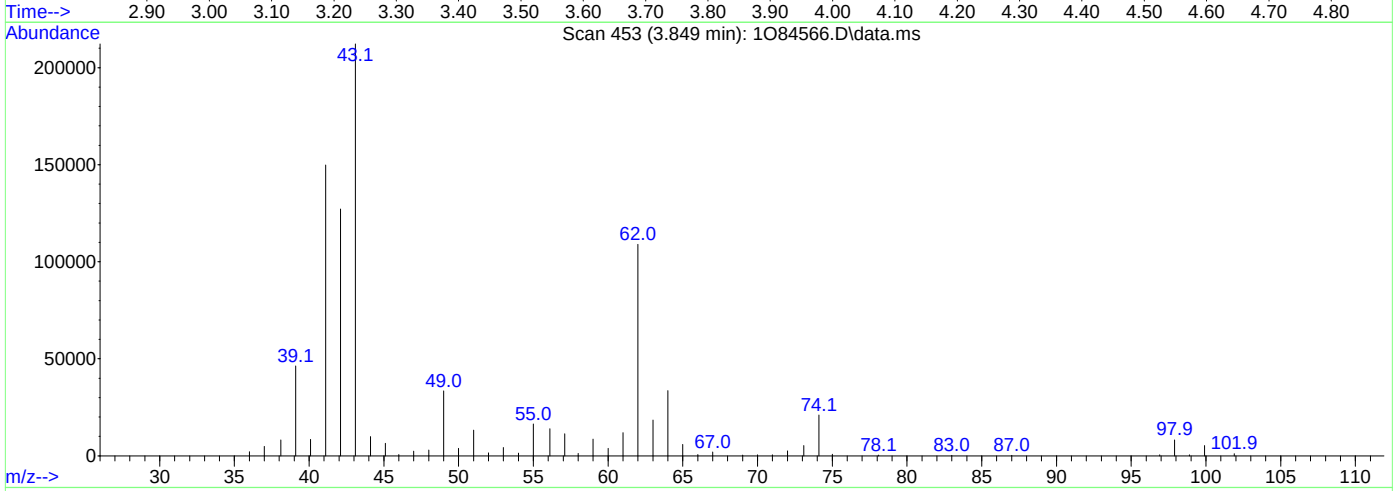
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.85	Poorly defined baseline
1-Chlorohexane	544-10-5		5.97	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(49) Isobutyl alcohol

3.849min (+0.001) 1430.62ug/L m

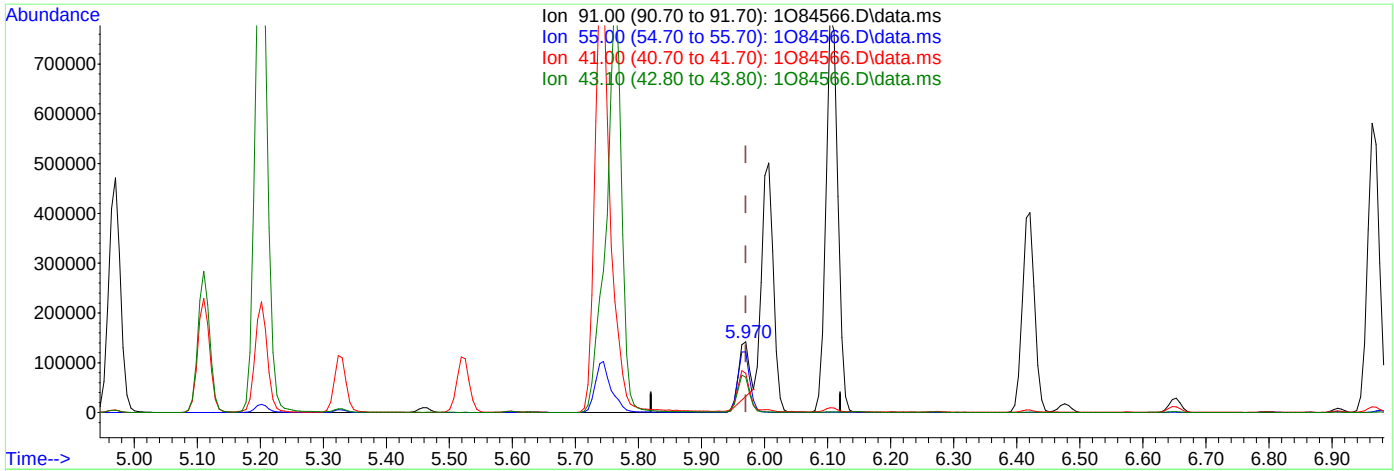
response 365571

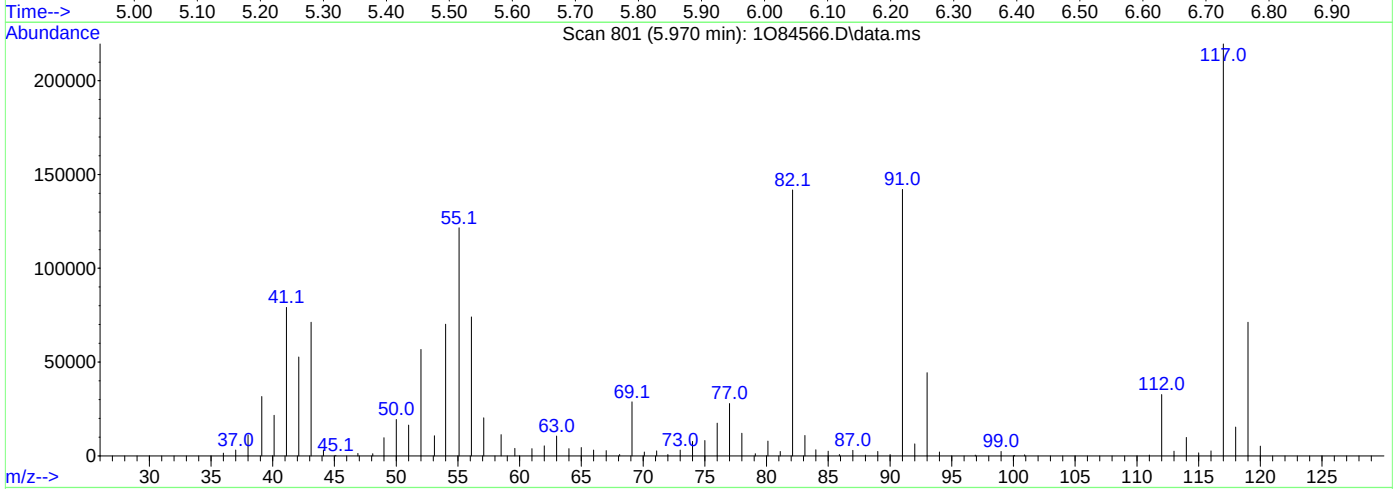
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.90
41.10	75.50	70.61
39.00	27.60	21.80

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(76) 1-Chlorohexane

5.970min (+0.000) 49.58ug/L

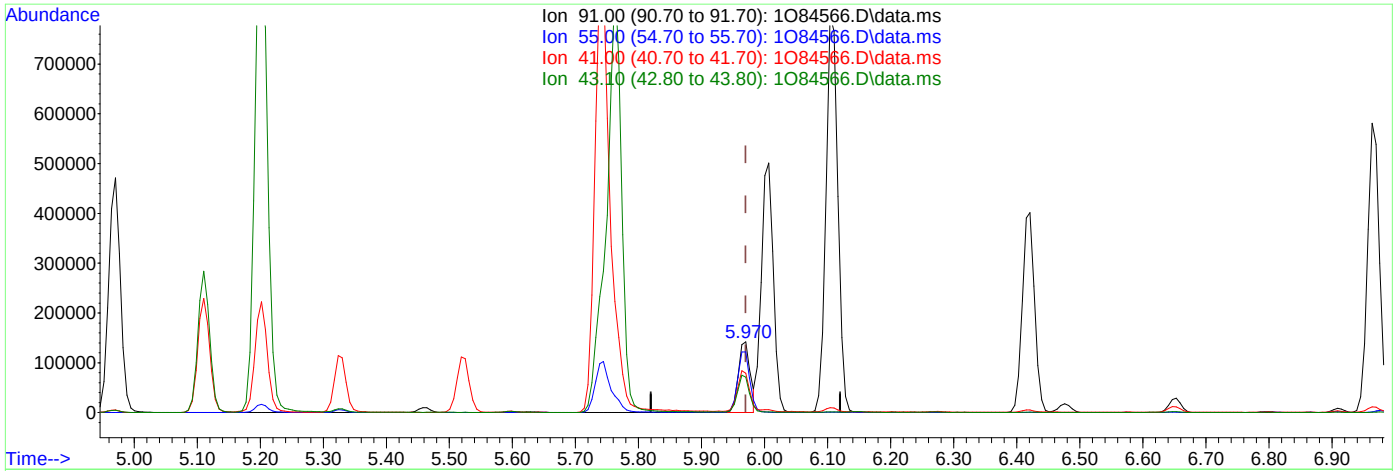
response 130835

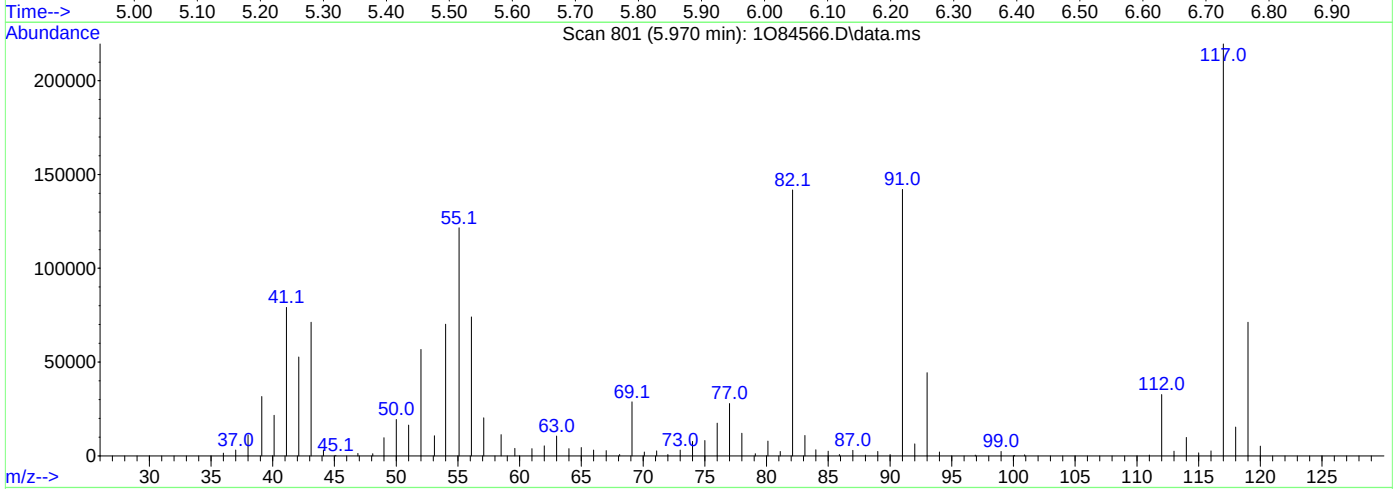
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	84.16
41.00	70.80	53.08
43.10	55.10	48.65

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(76) 1-Chlorohexane

5.970min (+0.000) 70.81ug/L m

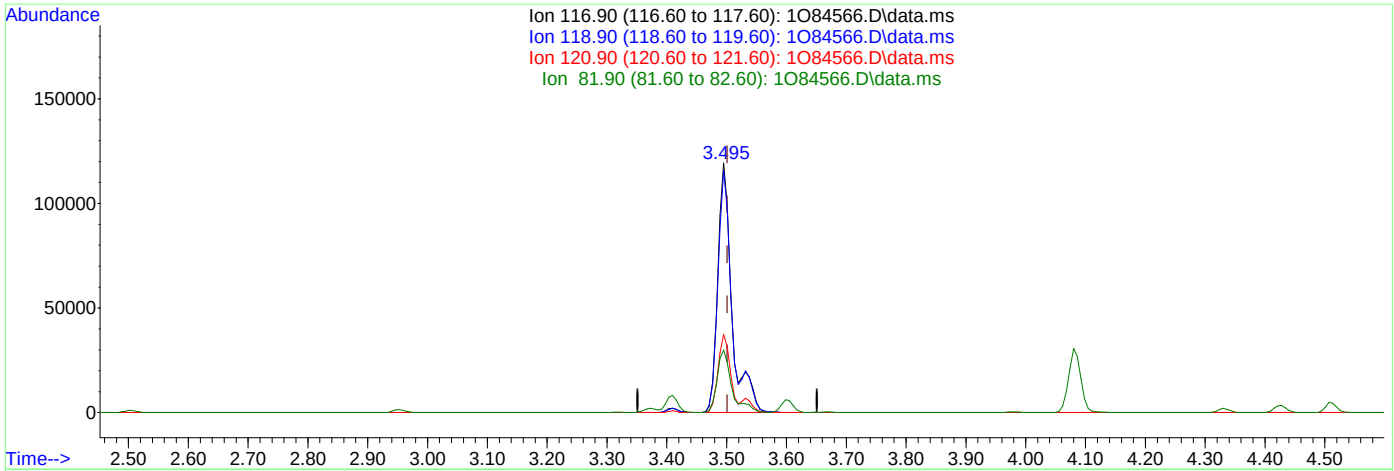
response 186865

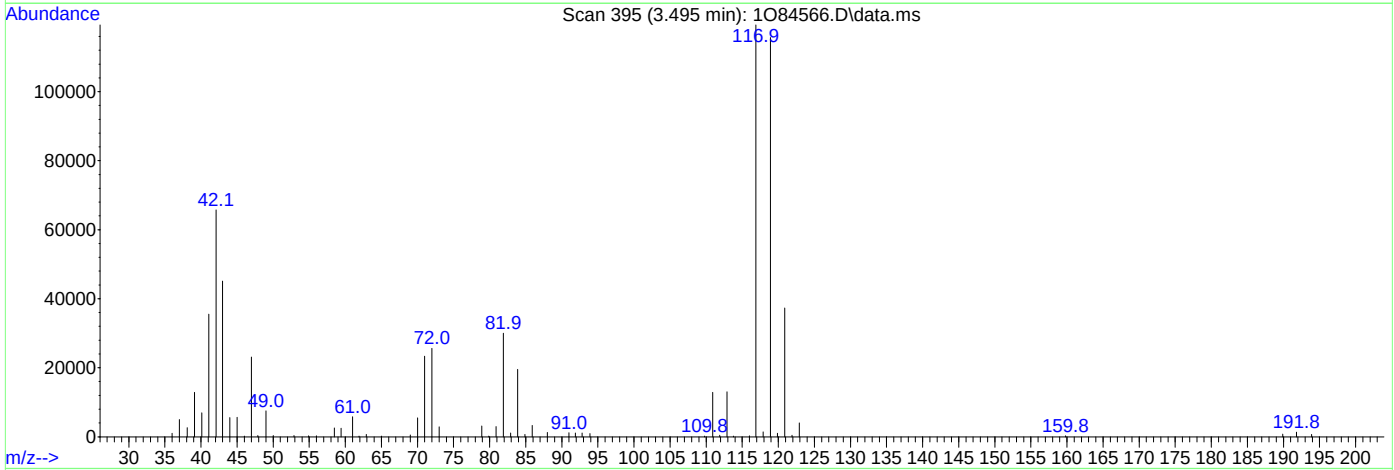
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	85.58
41.00	70.80	55.68
43.10	55.10	50.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 102.70ug/L

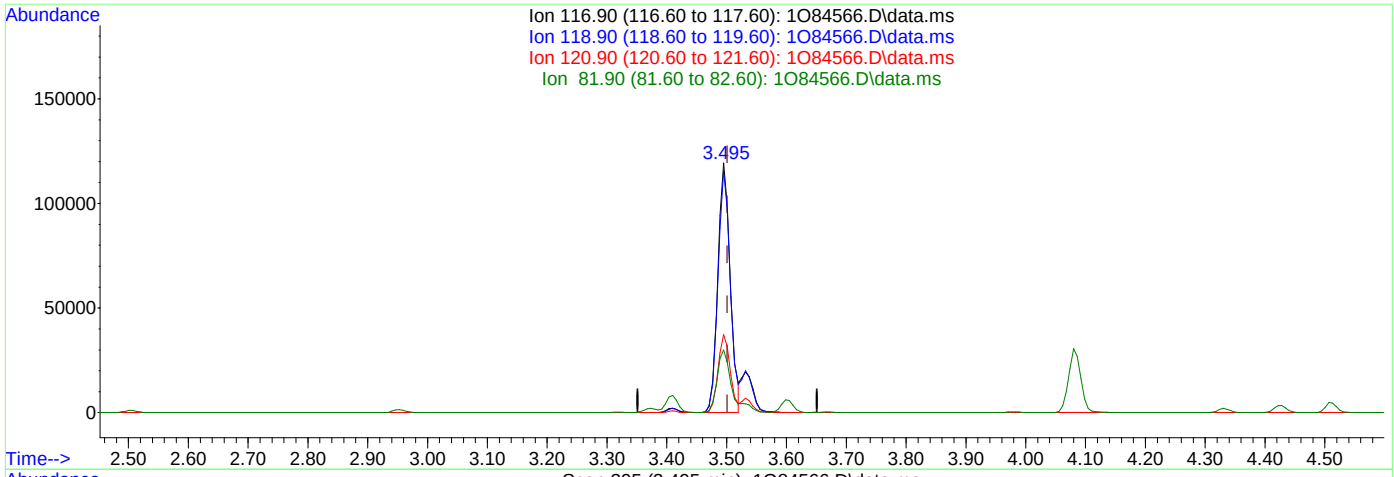
response 198815

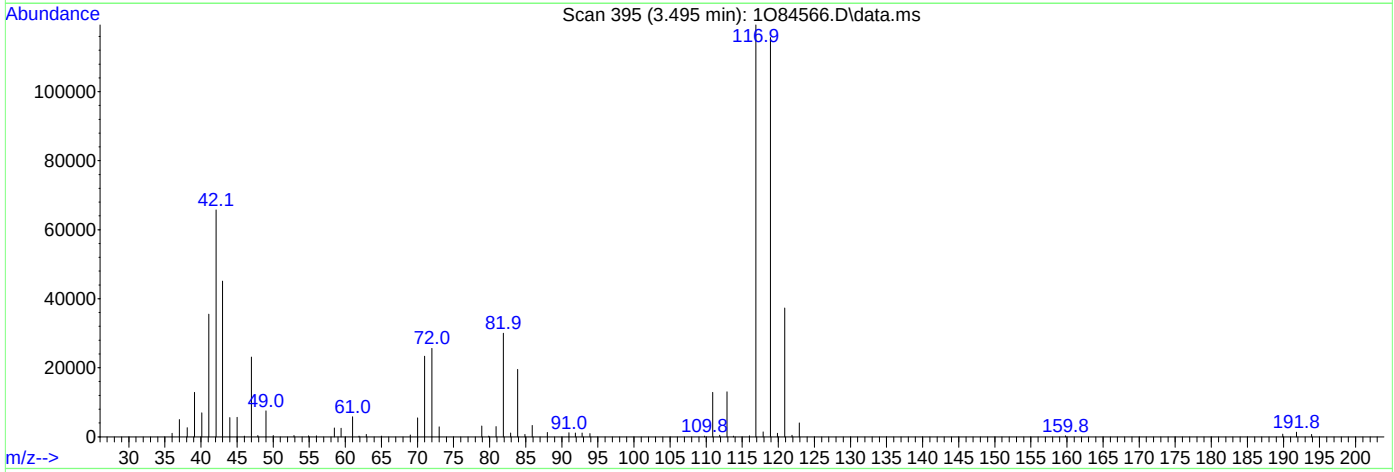
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	96.91
120.90	32.60	31.24
81.90	27.90	25.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 88.79ug/L m

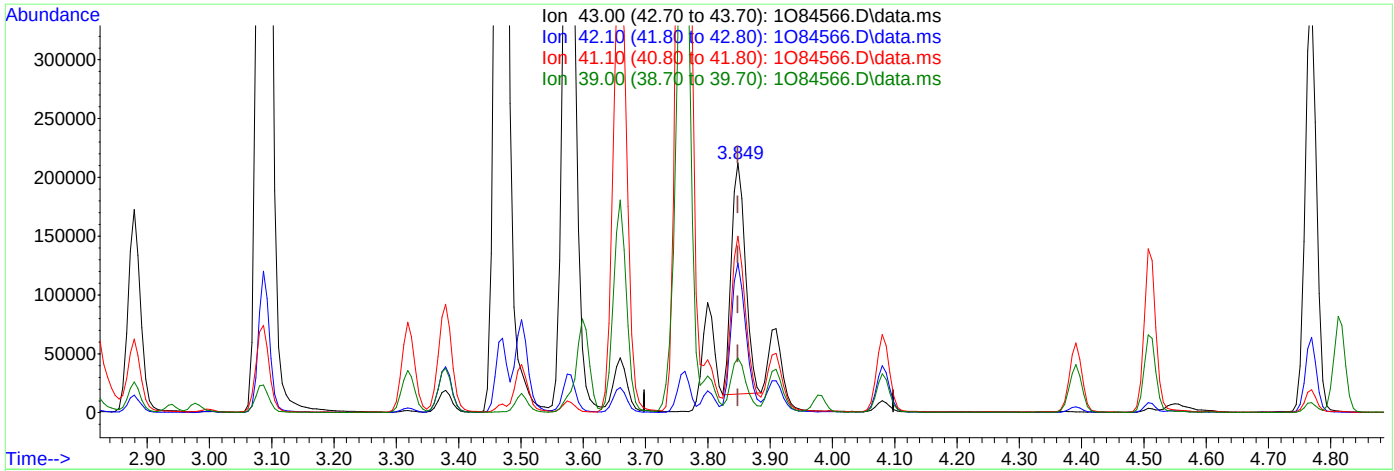
response 171888

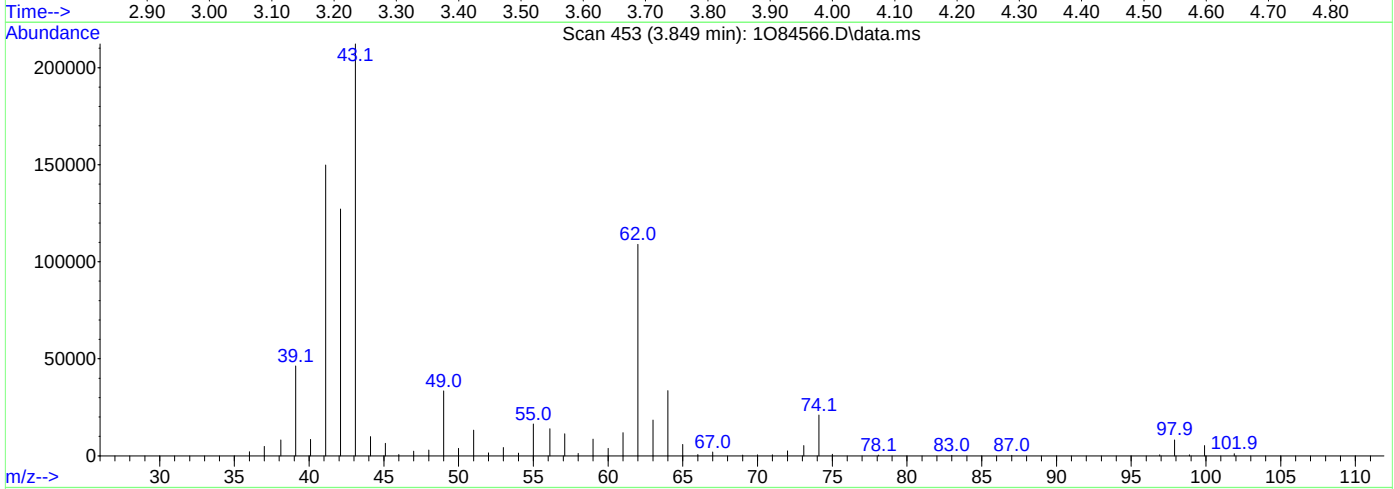
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	96.91
120.90	32.60	31.24
81.90	27.90	25.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84566.D
Acq On : 2 Jun 2024 1:01 pm
Operator : jeniferw
Sample : IC3054-6 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:06:54 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84566.D\data.ms

(49) Isobutyl alcohol

3.849min (+0.001) 1234.42ug/L

response 308241

Ion	Exp%	Act%
43.00	100	100
42.10	59.20	61.02
41.10	75.50	69.75
39.00	27.60	20.65

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:58 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.983	96	516460	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.976	117	354887	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	193605	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	3.513	113	135435	50.51	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.02%				
50) 1,2-Dichloroethane-d4	3.818	65	168708	44.06	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 88.12%				
63) Toluene-d8	4.934	98	524438	50.84	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.68%				
86) 4-Bromofluorobenzene	6.866	174	136396	49.95	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.203	85	185905	100.39	ug/L		99
3) Chloromethane	1.349	50	259090	108.07	ug/L		95
4) 1,3-butadiene	1.422	39	167824	73.96	ug/L		88
5) Vinyl Chloride	1.410	62	257309	105.47	ug/L		99
6) Bromomethane	1.642	94	59839	62.88	ug/L		98
7) Chloroethane	1.721	64	52431	63.60	ug/L		99
8) Trichlorofluoromethane	1.806	101	216976	66.66	ug/L		99
9) Ethyl Ether	2.032	59	222248	106.34	ug/L		96
10) Ethanol	2.166	45	117380	2255.87	ug/L		80
11) 1,2-Dichlorotrifluoroe...	2.148	67	188745	75.61	ug/L		99
12) 1,1-Dichloroethene	2.148	61	358072	110.46	ug/L		97
13) Freon 113	2.172	101	198750	112.22	ug/L		99
14) Carbon Disulfide	2.166	76	625924	124.16	ug/L		89
15) Iodomethane	2.239	142	115517	91.92	ug/L		97
16) Acrolein	2.355	56	397692	555.04	ug/L		98
17) Allyl chloride	2.440	41	298092	108.90	ug/L		88
18) Methylene Chloride	2.501	49	320936	102.48	ug/L		97
19) Acetone	2.532	43	658661	443.48	ug/L		94
20) Methyl acetate	2.605	43	1631248	513.16	ug/L		95
21) trans-1,2-Dichloroethene	2.599	61	356478	109.64	ug/L		96
22) Hexane	2.648	56	214098	111.02	ug/L	#	89
23) Methyl Tert Butyl Ether	2.666	73	609528	115.84	ug/L		71
24) Tert Butyl Alcohol	2.727	59	688024	1280.11	ug/L		90
25) Acetonitrile	2.806	41	470478	988.18	ug/L		99
26) Di-isopropyl ether	2.879	45	793070	116.38	ug/L		94
27) Chloroprene	2.940	53	350798	114.95	ug/L		93
28) 1,1-Dichloroethane	2.952	63	443557	108.67	ug/L		99
29) Acrylonitrile	2.977	52	734980	521.05	ug/L		99
30) ETBE	3.086	59	728609	116.21	ug/L		100
31) Vinyl acetate	3.086	43	2572408	479.71	ug/L		97
32) cis-1,2-Dichloroethene	3.257	96	225065	108.76	ug/L		99
33) 2,2-Dichloropropane	3.318	77	262295	105.62	ug/L		99
34) Bromochloromethane	3.373	128	102643	106.24	ug/L		96
35) Cyclohexane	3.379	56	444398	123.39	ug/L		94
36) Chloroform	3.410	83	402194	105.19	ug/L		94
37) Ethyl acetate	3.471	43	1971084	511.32	ug/L		97
38) Tetrahydrofuran	3.501	42	163426	109.41	ug/L		96
40) Carbon Tetrachloride	3.495	117	253563m	133.71	ug/L		
41) 1,1,1-Trichloroethane	3.532	97	317030	113.42	ug/L		96
42) 2-Butanone	3.580	43	1201352	511.56	ug/L		97
43) 1,1-Dichloropropene	3.599	75	291956	109.75	ug/L		97
44) tert-Butyl formate	3.660	59	686647	572.72	ug/L	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:58 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.751	54	741082	975.54	ug/L		100
46) Methacrylonitrile	3.763	41	1988147	880.20	ug/L		98
47) Benzene	3.745	78	832375	102.84	ug/L		94
48) TAME	3.806	73	563965	120.28	ug/L		92
49) Isobutyl alcohol	3.855	43	548936m	2046.50	ug/L		
51) 1,2-Dichloroethane	3.855	62	322330	90.38	ug/L		99
52) Tert Amyl Alcohol	3.910	59	550443	1038.83	ug/L		87
53) Trichloroethene	4.080	95	224831	103.25	ug/L		99
54) Methylcyclohexane	4.080	83	332637	115.05	ug/L		96
55) Dibromomethane	4.330	93	145279	105.69	ug/L		99
56) 1,2-Dichloropropane	4.391	63	255867	115.70	ug/L		93
57) Bromodichloromethane	4.428	83	290024	118.41	ug/L		98
58) Methyl methacrylate	4.513	41	260776	118.10	ug/L		88
59) 1,4-Dioxane	4.550	88	106743	2423.72	ug/L		96
60) 2-Chloroethyl vinyl ether	4.769	63	1027825	583.74	ug/L		97
61) cis-1,3-Dichloropropene	4.818	75	347186	117.92	ug/L		88
64) Toluene	4.970	91	883964	104.30	ug/L		98
65) 2-Nitropropane	5.110	41	441541	538.67	ug/L		93
66) 4-Methyl-2-pentanone	5.202	43	1965368	521.34	ug/L		96
67) trans-1,3-Dichloropropene	5.232	75	324057	109.12	ug/L		89
68) Tetrachloroethene	5.226	166	199927	107.12	ug/L		95
69) Ethyl methacrylate	5.330	69	316886	119.84	ug/L		87
70) 1,1,2-Trichloroethane	5.336	83	184562	102.77	ug/L		95
71) Dibromochloromethane	5.464	129	212336	133.38	ug/L		99
72) 1,3-Dichloropropane	5.525	76	359382	107.03	ug/L		91
73) 1,2-Dibromoethane	5.629	107	227665	115.18	ug/L		100
74) 3,3-dimethyl-1-butanol	5.745	57	3626548	4979.77	ug/L		99
75) 2-hexanone	5.763	43	2030925	526.83	ug/L		84
76) 1-Chlorohexane	5.970	91	270777m	104.99	ug/L		
77) Ethylbenzene	6.007	91	963091	105.21	ug/L		99
78) Chlorobenzene	5.988	112	562500	103.83	ug/L		98
79) 1,1,1,2-Tetrachloroethane	6.031	131	189859	129.20	ug/L		96
80) m,p-Xylene	6.110	91	1511937	214.30	ug/L		97
81) o-Xylene	6.421	91	784413	114.80	ug/L		99
82) Styrene	6.458	104	602735	122.13	ug/L		97
83) Bromoform	6.476	173	132115	108.41	ug/L		98
84) Isopropylbenzene	6.653	105	892976	117.83	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	134644	121.80	ug/L	#	74
88) n-Propylbenzene	6.964	91	1098405	102.87	ug/L		96
89) Bromobenzene	6.946	156	214464	103.08	ug/L		93
90) 1,1,2,2-Tetrachloroethane	7.013	83	371907	106.84	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	756678	109.38	ug/L		100
92) 2-Chlorotoluene	7.086	91	750615	103.22	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.153	53	113294	113.52	ug/L	#	70
94) 1,2,3-Trichloropropane	7.122	110	102015	99.95	ug/L		95
95) Cyclohexanone	7.153	55	136598	593.15	ug/L		97
96) 4-Chlorotoluene	7.214	91	710023	103.89	ug/L		97
97) tert-Butylbenzene	7.366	91	425463	105.49	ug/L		98
99) 1,2,4-Trimethylbenzene	7.421	105	777246	113.63	ug/L		98
100) Pentachloroethane	7.384	167	114280	122.45	ug/L		97
101) sec-Butylbenzene	7.500	105	897113	110.17	ug/L		99
102) 4-Isopropyltoluene	7.616	119	762716	116.92	ug/L		98
103) 1,3-Dichlorobenzene	7.665	146	427697	106.77	ug/L		98
104) 1,2,3-Trimethylbenzene	7.750	105	815533	107.63	ug/L		96
105) 1,4-Dichlorobenzene	7.732	146	429773	100.07	ug/L		95
106) n-Butylbenzene	7.927	92	427689	115.00	ug/L		99
107) Benzyl Chloride	7.915	126	107325	113.43	ug/L	#	73
108) 1,2-Dichlorobenzene	8.043	146	406876	109.21	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:58 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration

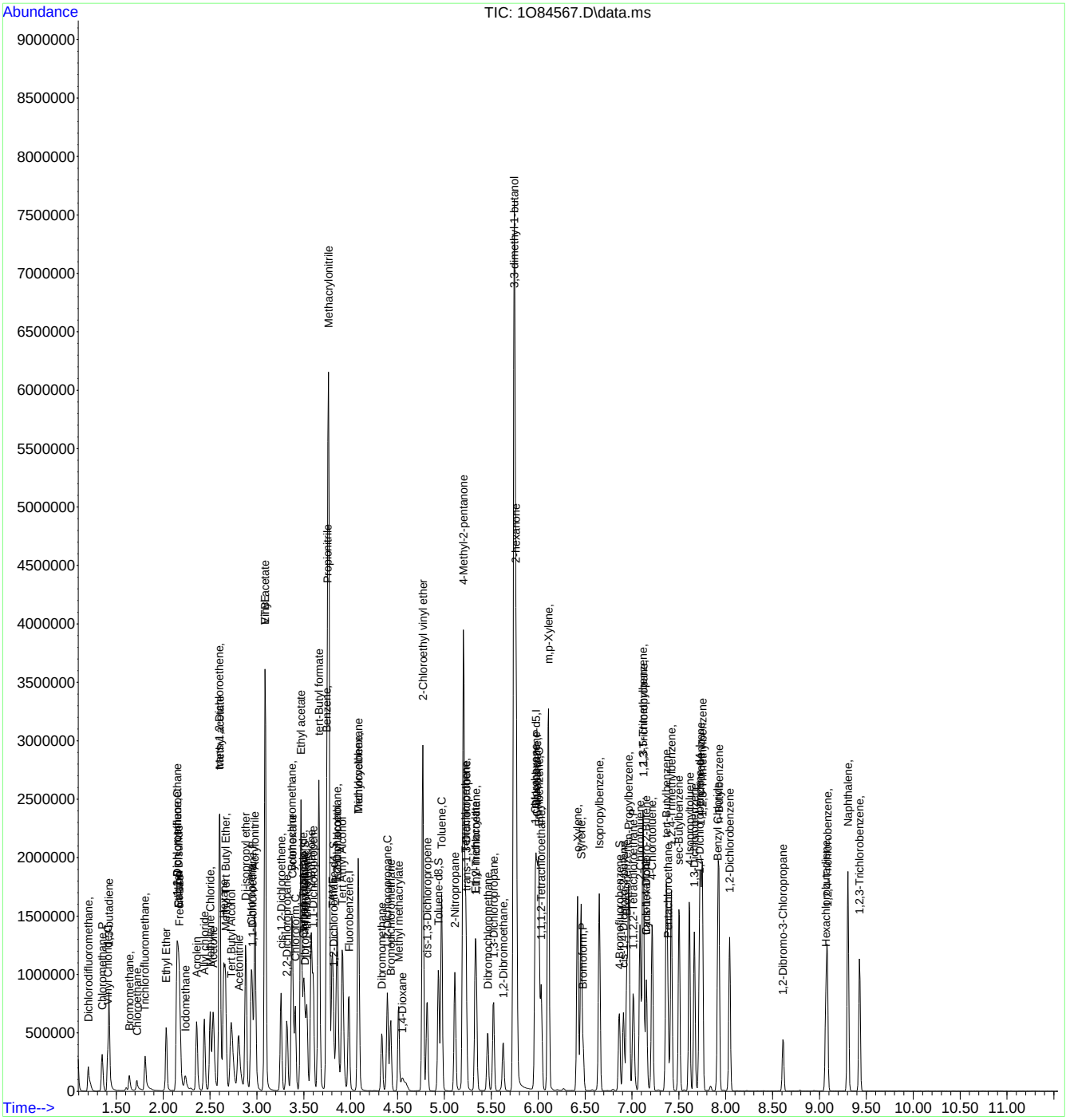
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	89498	112.94	ug/L	93
110) Hexachlorobutadiene	9.067	225	87765	107.13	ug/L	96
111) 1,2,4-Trichlorobenzene	9.085	180	255232	123.08	ug/L	98
112) Naphthalene	9.305	128	1034215	134.36	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	244193	124.19	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:58 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration



Manual Integration Approval Summary

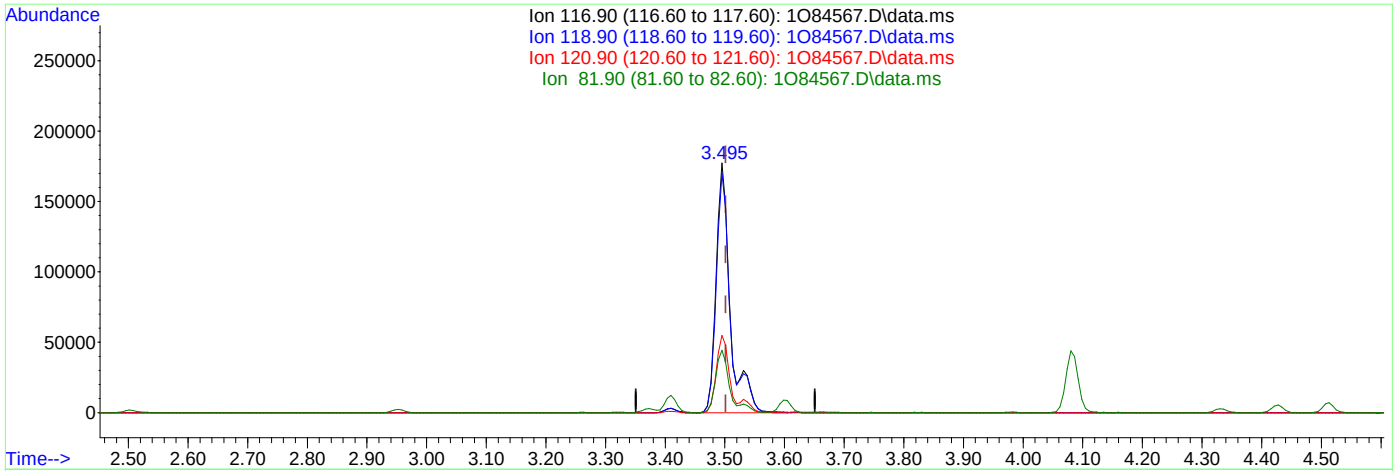
Sample Number: V1O3054-IC3054
Lab FileID: 1O84567.D
Injection Time: 06/02/24 13:26
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

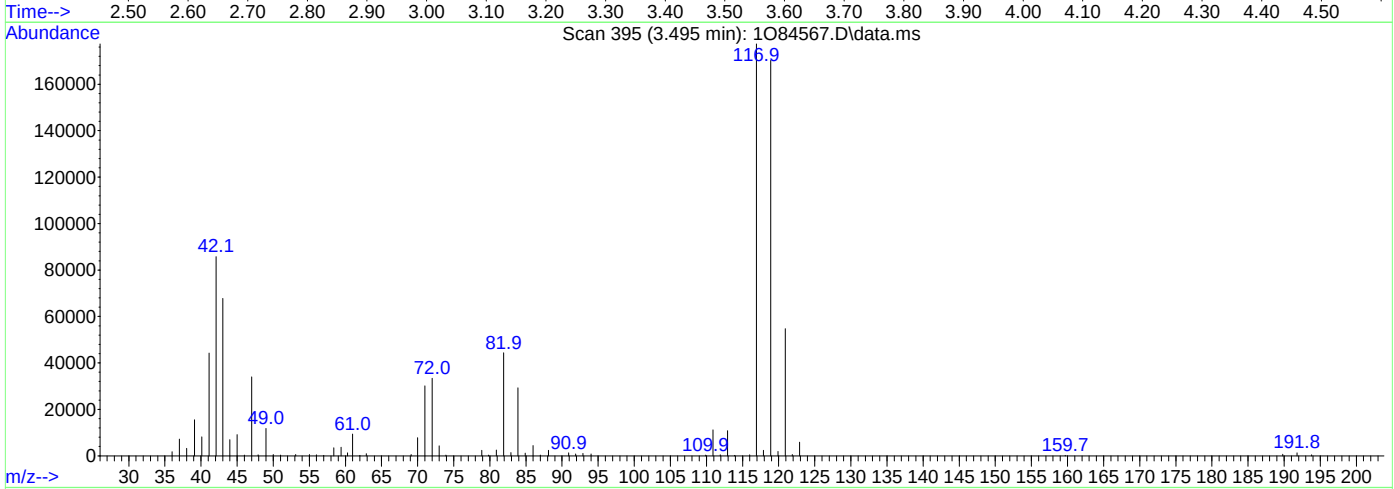
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.85	Poorly defined baseline
1-Chlorohexane	544-10-5		5.97	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 155.09ug/L

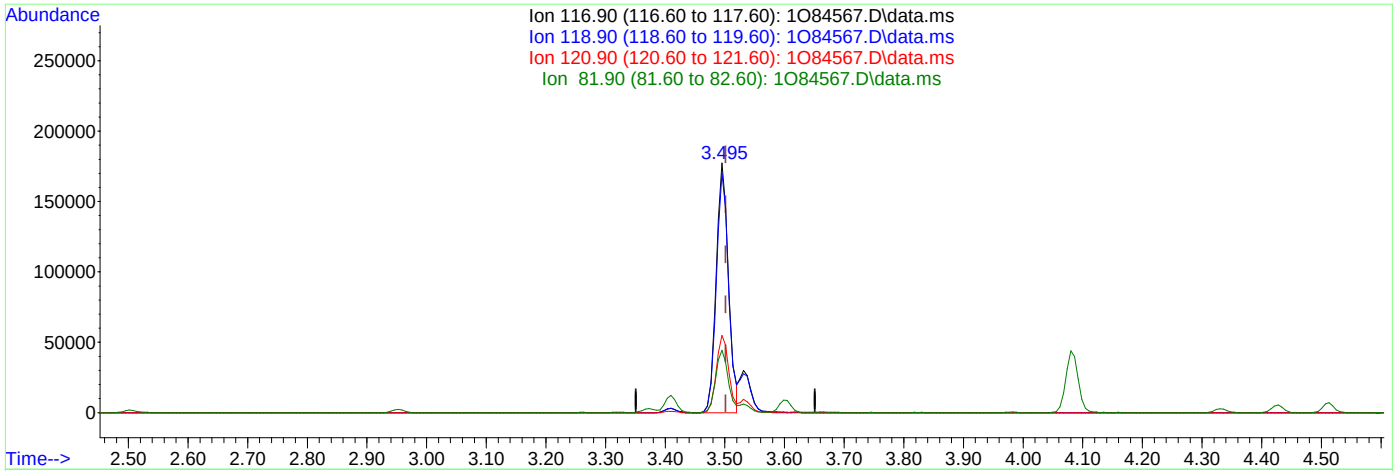
response 294113

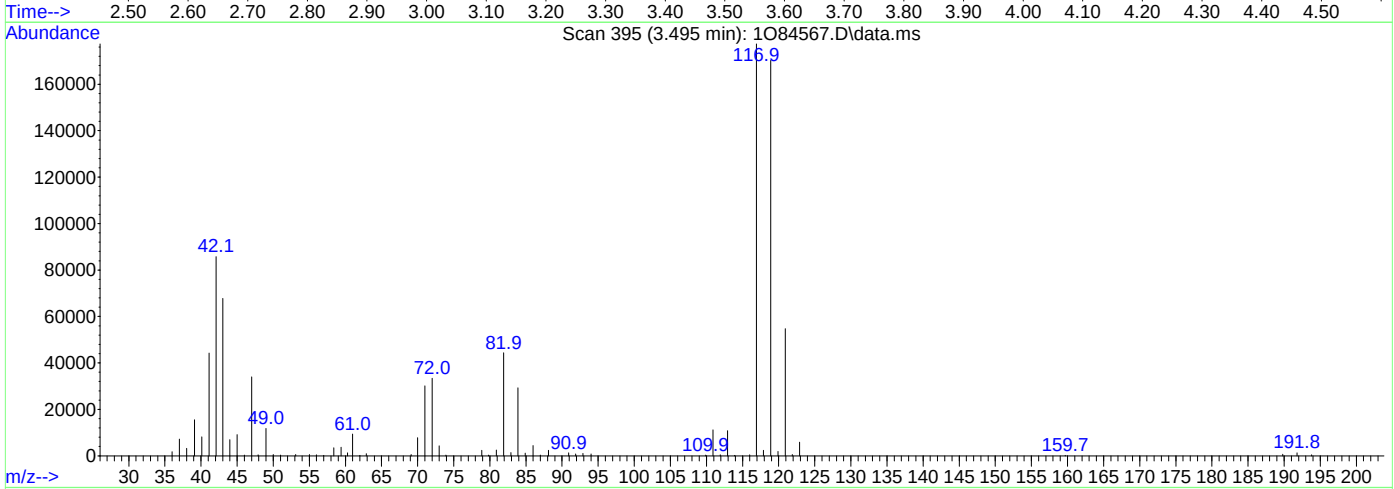
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.92
120.90	32.60	30.88
81.90	27.90	25.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.006) 133.71ug/L m

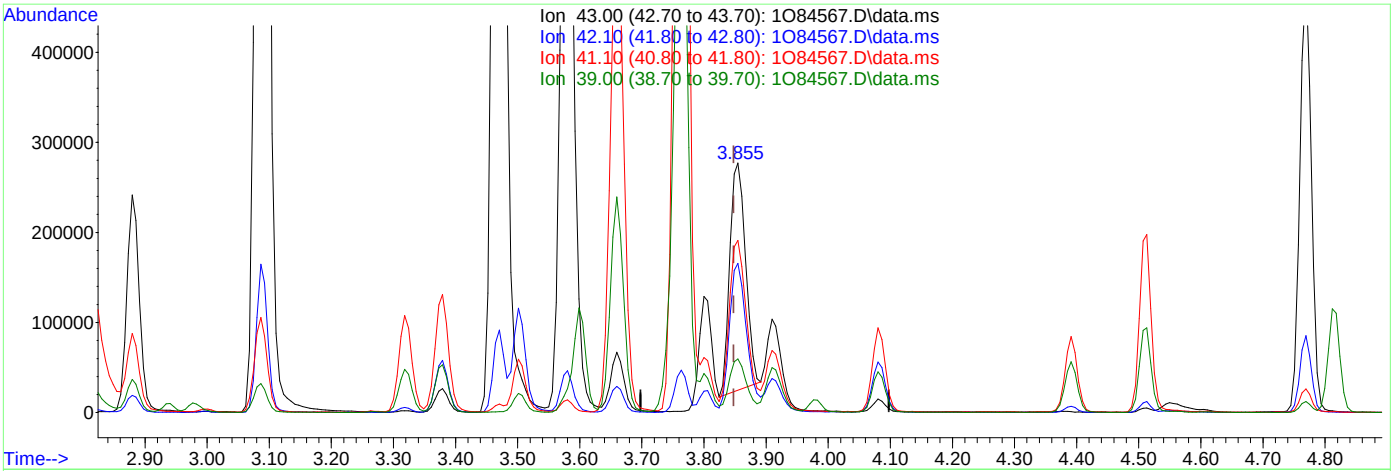
response 253563

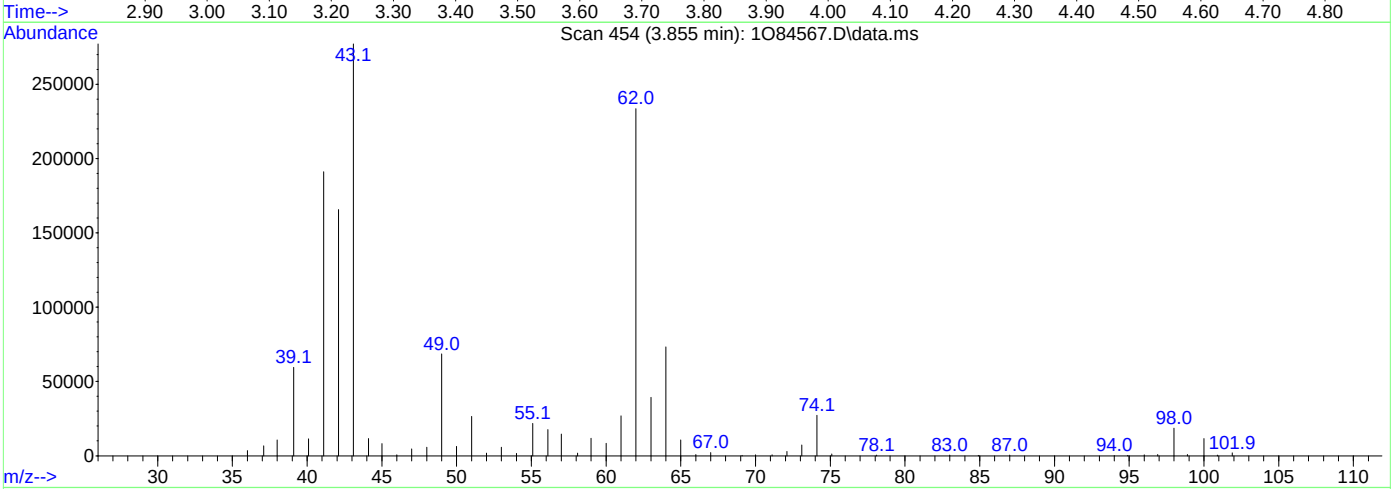
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	95.92
120.90	32.60	30.88
81.90	27.90	25.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(49) Isobutyl alcohol

3.855min (+0.007) 1727.33ug/L

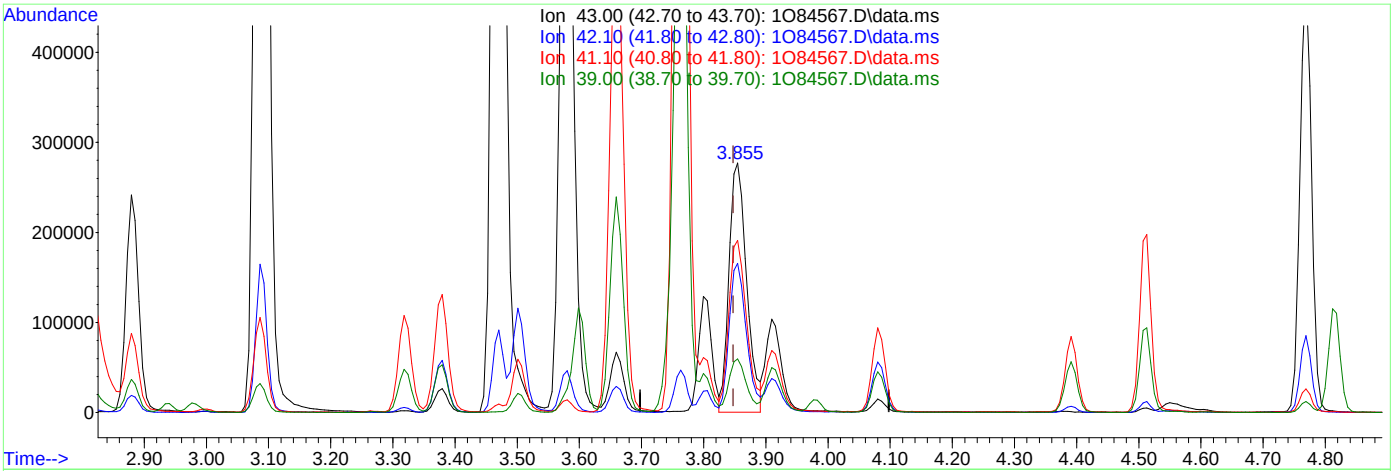
response 447282

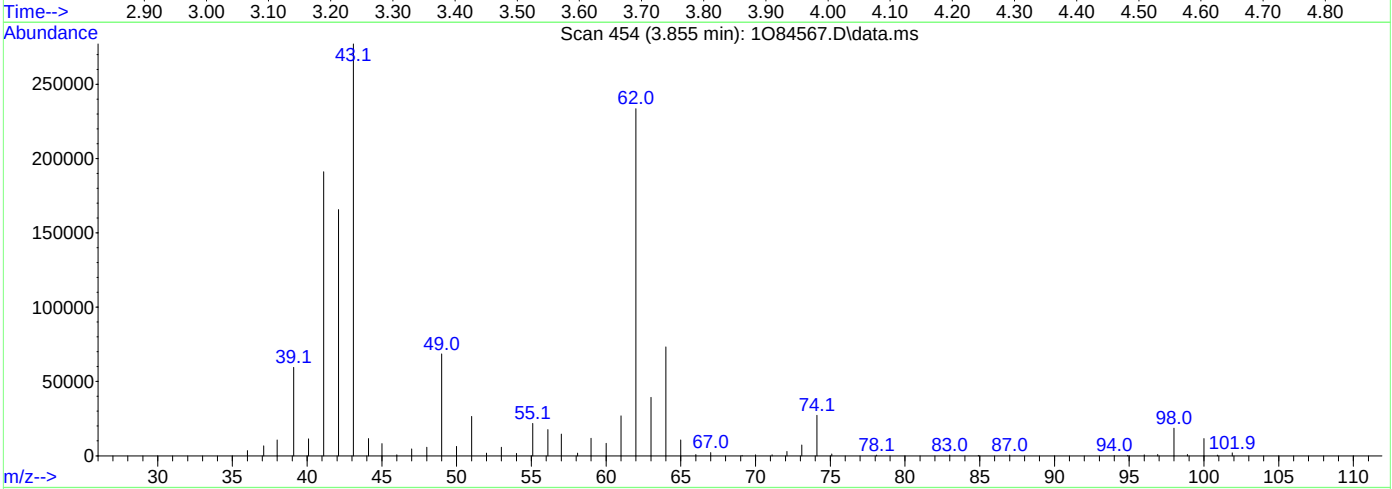
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	61.73
41.10	75.50	68.83
39.00	27.60	20.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(49) Isobutyl alcohol

3.855min (+0.007) 2046.50ug/L m

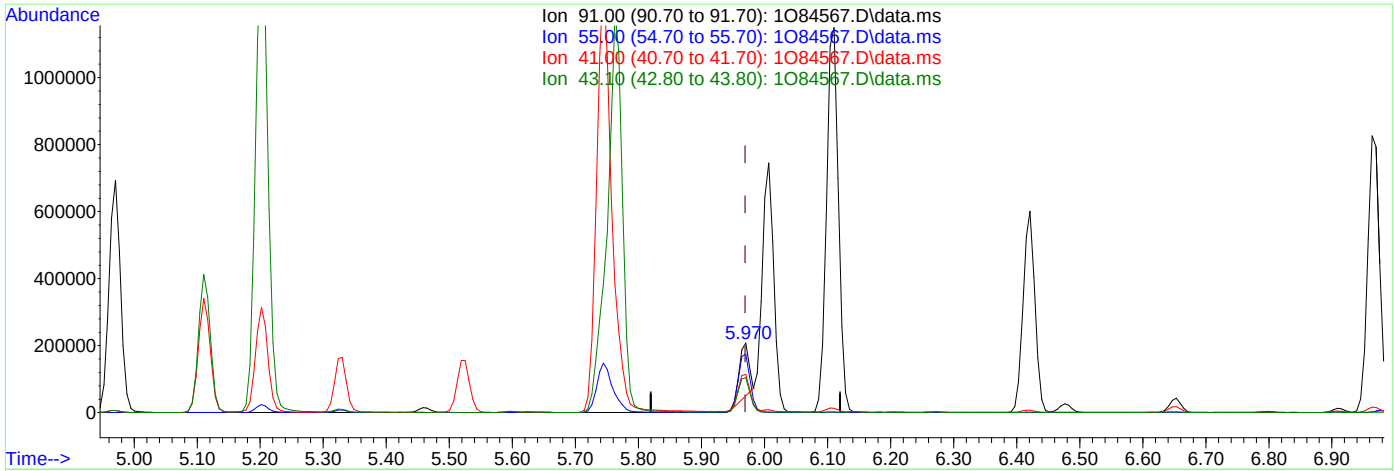
response 548936

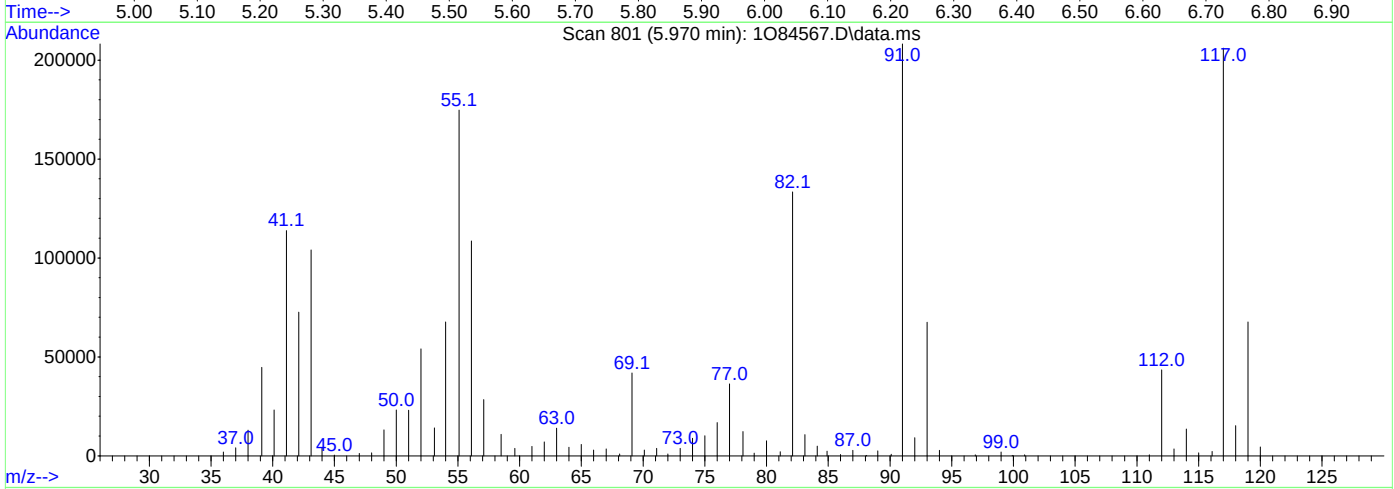
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.78
41.10	75.50	68.97
39.00	27.60	21.50

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(76) 1-Chlorohexane

5.970min (+0.000) 71.82ug/L

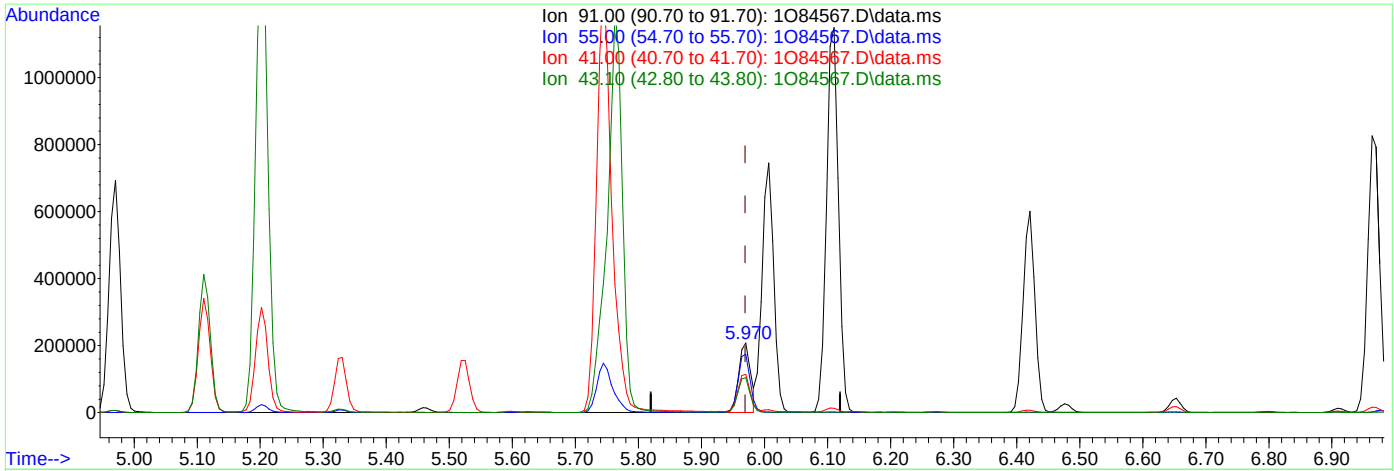
response 185239

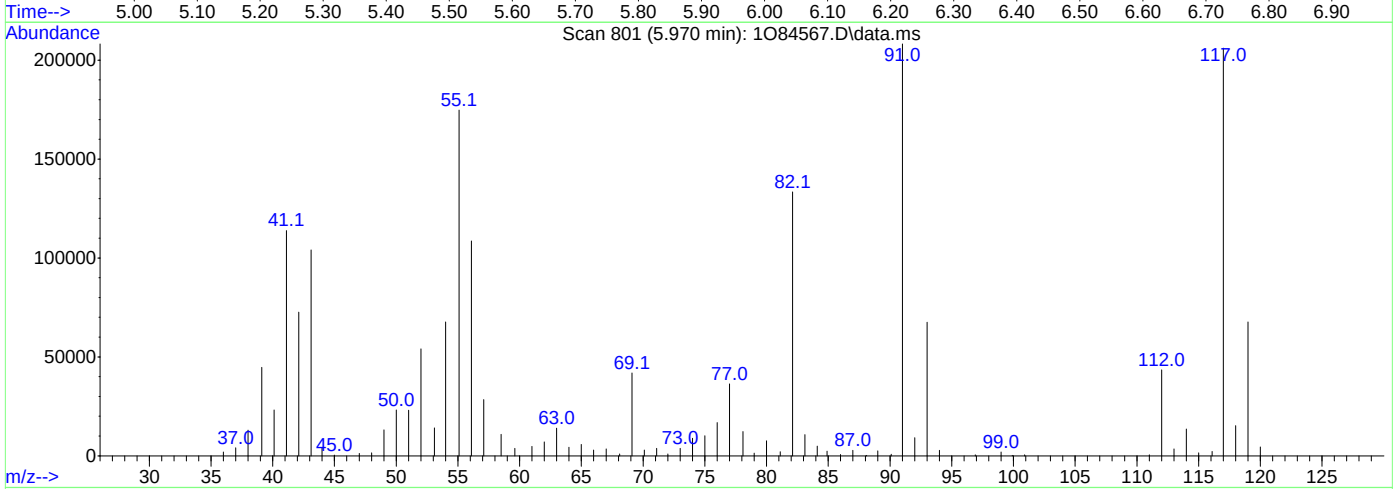
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	82.62
41.00	70.80	52.44
43.10	55.10	48.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84567.D
Acq On : 2 Jun 2024 1:26 pm
Operator : jeniferw
Sample : IC3054-7 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 14:07:29 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 09 12:12:10 2024
Response via : Initial Calibration





TIC: 1O84567.D\data.ms

(76) 1-Chlorohexane

5.970min (+0.000) 104.99ug/L m

response 270777

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	83.93
41.00	70.80	54.66
43.10	55.10	49.97

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/03/24 08:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:45:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.983	96	559761	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	382396	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	210740	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	147151	51.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.30%			
50) 1,2-Dichloroethane-d4	3.818	65	186639	49.70	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.40%			
63) Toluene-d8	4.934	98	562268	50.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.64%			
86) 4-Bromofluorobenzene	6.866	174	147382	50.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.203	85	116638	59.19	ug/L	100
3) Chloromethane	1.349	50	136745	47.99	ug/L	96
4) 1,3-butadiene	1.422	39	73332	44.21	ug/L	86
5) Vinyl Chloride	1.410	62	121041	46.38	ug/L	99
6) Bromomethane	1.642	94	27635	45.45	ug/L	99
7) Chloroethane	1.721	64	28953	44.55	ug/L	98
8) Trichlorofluoromethane	1.818	101	122477	46.45	ug/L	99
9) Ethyl Ether	2.032	59	84739	35.58	ug/L	99
10) Ethanol	2.135	45	52727	872.06	ug/L	96
11) 1,2-Dichlorotrifluoroe...	2.148	67	109052	56.28	ug/L	98
12) 1,1-Dichloroethene	2.148	61	146089	40.54	ug/L	97
13) Freon 113	2.178	101	84866	40.37	ug/L	98
14) Carbon Disulfide	2.166	76	248737	40.58	ug/L	92
15) Iodomethane	2.239	142	38473	35.84	ug/L	97
16) Acrolein	2.355	56	190532	237.26	ug/L	98
17) Allyl chloride	2.440	41	142676	45.14	ug/L	89
18) Methylene Chloride	2.501	49	141945	38.30	ug/L	96
19) Acetone	2.525	43	320701	218.49	ug/L	93
20) Methyl acetate	2.599	43	644449	180.98	ug/L	97
21) trans-1,2-Dichloroethene	2.599	61	151788	40.49	ug/L	96
22) Hexane	2.647	56	90327	39.72	ug/L	91
23) Methyl Tert Butyl Ether	2.660	73	234447	38.75	ug/L	94
24) Tert Butyl Alcohol	2.708	59	252673	417.63	ug/L	88
25) Acetonitrile	2.800	41	252384	418.03	ug/L	98
26) Di-isopropyl ether	2.879	45	309005	37.48	ug/L	94
27) Chloroprene	2.940	53	145315	42.42	ug/L	92
28) 1,1-Dichloroethane	2.952	63	183426	39.30	ug/L	99
29) Acrylonitrile	2.977	52	312774	199.33	ug/L	99
30) ETBE	3.086	59	281051	38.27	ug/L	99
31) Vinyl acetate	3.086	43	1267122	239.53	ug/L	97
32) cis-1,2-Dichloroethene	3.257	96	94036	39.30	ug/L	98
33) 2,2-Dichloropropane	3.318	77	114239	46.10	ug/L	97
34) Bromochloromethane	3.367	128	42464	38.69	ug/L	95
35) Cyclohexane	3.379	56	178333	37.77	ug/L	97
36) Chloroform	3.409	83	172376	41.51	ug/L	95
37) Ethyl acetate	3.464	43	886506	213.19	ug/L	98
38) Tetrahydrofuran	3.501	42	60540	34.60	ug/L	98
40) Carbon Tetrachloride	3.495	117	102975m	39.16	ug/L	
41) 1,1,1-Trichloroethane	3.531	97	133104	42.74	ug/L	98
42) 2-Butanone	3.574	43	503860	195.10	ug/L	99
43) 1,1-Dichloropropene	3.598	75	127786	42.75	ug/L	96
44) tert-Butyl formate	3.659	59	290627	222.08	ug/L #	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:45:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	371505	439.11	ug/L		87
46) Methacrylonitrile	3.763	41	1002409	427.96	ug/L		97
47) Benzene	3.745	78	361369	40.03	ug/L		90
48) TAME	3.800	73	211801	38.81	ug/L		97
49) Isobutyl alcohol	3.842	43	239286m	946.46	ug/L		
51) 1,2-Dichloroethane	3.854	62	140217	39.59	ug/L		98
52) Tert Amyl Alcohol	3.903	59	213572	419.49	ug/L		94
53) Trichloroethene	4.080	95	99732	41.17	ug/L		96
54) Methylcyclohexane	4.080	83	138226	39.92	ug/L		96
55) Dibromomethane	4.330	93	63064	41.90	ug/L		99
56) 1,2-Dichloropropane	4.391	63	116133	44.21	ug/L		91
57) Bromodichloromethane	4.428	83	118807	43.36	ug/L		98
58) Methyl methacrylate	4.507	41	121529	45.61	ug/L		92
59) 1,4-Dioxane	4.543	88	43209	844.74	ug/L		97
60) 2-Chloroethyl vinyl ether	4.769	63	447583	221.70	ug/L		97
61) cis-1,3-Dichloropropene	4.812	75	145686	46.39	ug/L		92
64) Toluene	4.970	91	388430	42.01	ug/L		96
65) 2-Nitropropane	5.110	41	174466	210.84	ug/L		92
66) 4-Methyl-2-pentanone	5.202	43	913446	220.69	ug/L		96
67) trans-1,3-Dichloropropene	5.232	75	131450	44.43	ug/L		90
68) Tetrachloroethene	5.226	166	89923	43.71	ug/L		95
69) Ethyl methacrylate	5.324	69	149000	45.55	ug/L		92
70) 1,1,2-Trichloroethane	5.336	83	82556	42.11	ug/L		93
71) Dibromochloromethane	5.464	129	91642	44.95	ug/L		96
72) 1,3-Dichloropropane	5.525	76	167767	44.63	ug/L		91
73) 1,2-Dibromoethane	5.622	107	98367	44.11	ug/L		99
74) 3,3-dimethyl-1-butanol	5.738	57	1498188	2083.33	ug/L		98
75) 2-hexanone	5.763	43	932464	217.09	ug/L		95
76) 1-Chlorohexane	5.970	91	117848m	40.83	ug/L		
77) Ethylbenzene	6.007	91	426839	42.64	ug/L		99
78) Chlorobenzene	5.988	112	248125	41.42	ug/L		99
79) 1,1,1,2-Tetrachloroethane	6.031	131	81372	46.13	ug/L		97
80) m,p-Xylene	6.104	91	671914	86.05	ug/L		98
81) o-Xylene	6.421	91	338067	42.91	ug/L		98
82) Styrene	6.458	104	268034	47.10	ug/L		97
83) Bromoform	6.476	173	51328	42.13	ug/L		98
84) Isopropylbenzene	6.653	105	392337	45.04	ug/L		98
87) cis-1,4-Dichloro-2-butene	6.909	53	60165	44.78	ug/L	#	79
88) n-Propylbenzene	6.964	91	488733	43.14	ug/L		94
89) Bromobenzene	6.945	156	97543	44.04	ug/L		94
90) 1,1,2,2-Tetrachloroethane	7.012	83	161875	43.44	ug/L		98
91) 1,3,5-Trimethylbenzene	7.116	105	340319	44.85	ug/L		99
92) 2-Chlorotoluene	7.086	91	331869	42.30	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.153	53	46805	41.93	ug/L	#	77
94) 1,2,3-Trichloropropane	7.122	110	47592	45.21	ug/L		95
95) Cyclohexanone	7.153	55	55302	215.88	ug/L		96
96) 4-Chlorotoluene	7.214	91	311975	42.21	ug/L		96
97) tert-Butylbenzene	7.366	91	188581	45.12	ug/L		98
99) 1,2,4-Trimethylbenzene	7.421	105	348544	46.28	ug/L		98
100) Pentachloroethane	7.384	167	49829	46.40	ug/L		98
101) sec-Butylbenzene	7.500	105	385997	44.02	ug/L		98
102) 4-Isopropyltoluene	7.610	119	341084	47.68	ug/L		99
103) 1,3-Dichlorobenzene	7.665	146	183622	41.27	ug/L		97
104) 1,2,3-Trimethylbenzene	7.750	105	363287	44.36	ug/L		97
105) 1,4-Dichlorobenzene	7.732	146	190001	40.79	ug/L		96
106) n-Butylbenzene	7.927	92	195404	43.46	ug/L		98
107) Benzyl Chloride	7.915	126	38455	43.06	ug/L	#	93
108) 1,2-Dichlorobenzene	8.043	146	176299	41.15	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:45:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

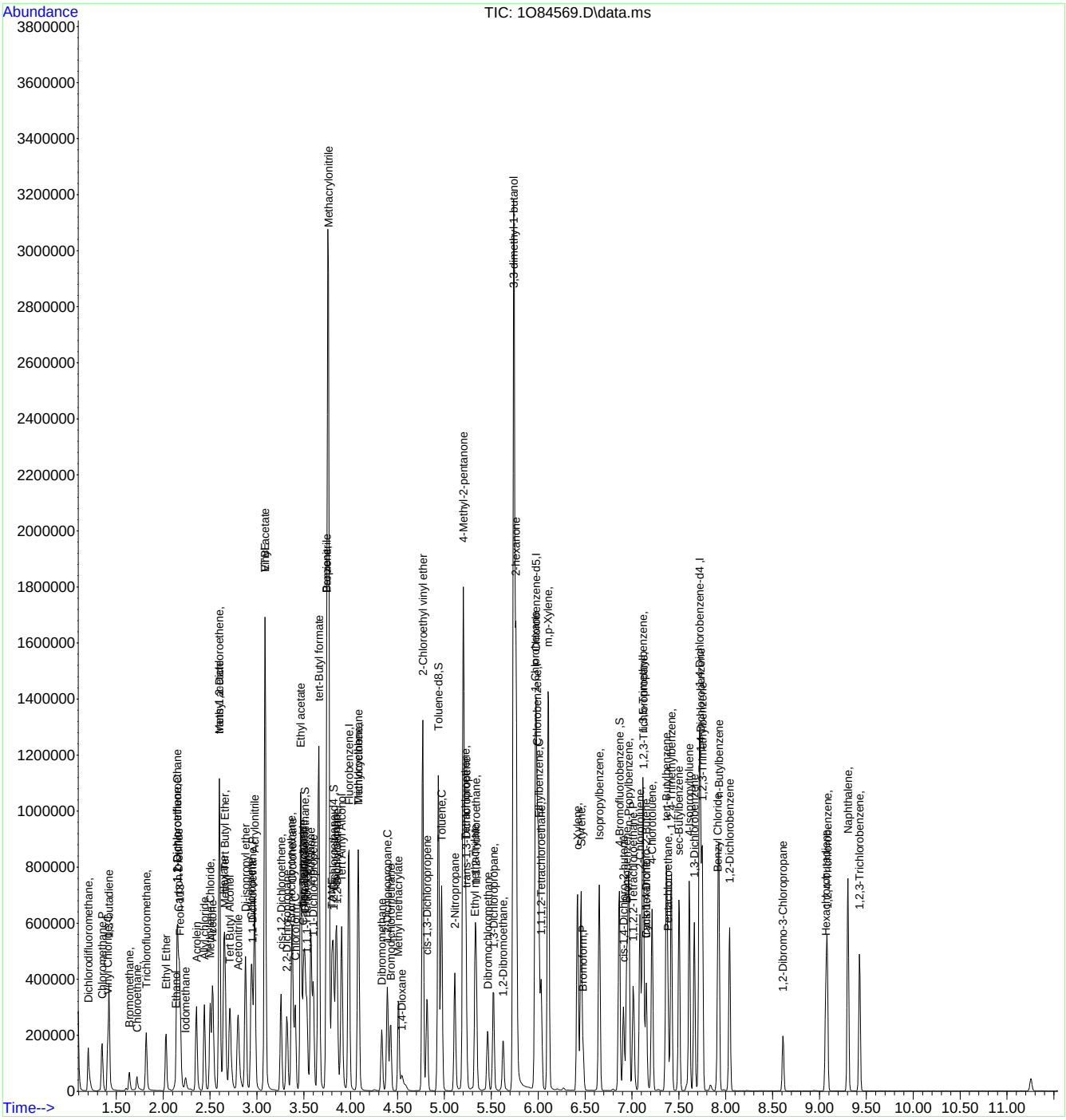
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	36828	44.15	ug/L	93
110) Hexachlorobutadiene	9.067	225	40470	44.21	ug/L	97
111) 1,2,4-Trichlorobenzene	9.085	180	109981	44.84	ug/L	98
112) Naphthalene	9.305	128	422450	43.82	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	104254	43.45	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:45:21 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

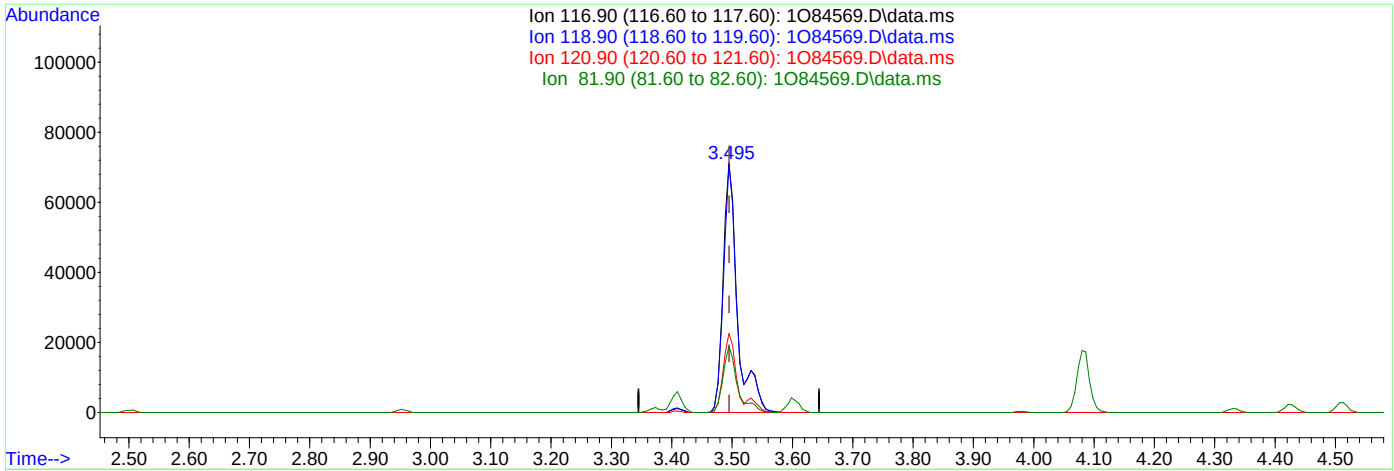
Sample Number: V1O3054-ICV3054
Lab FileID: 1O84569.D
Injection Time: 06/02/24 14:26
Method: SW846 8260D
Analyst approved: 06/02/24 14:52 Jenifer Willis
Supervisor approved: 06/03/24 08:07 Karen Watson

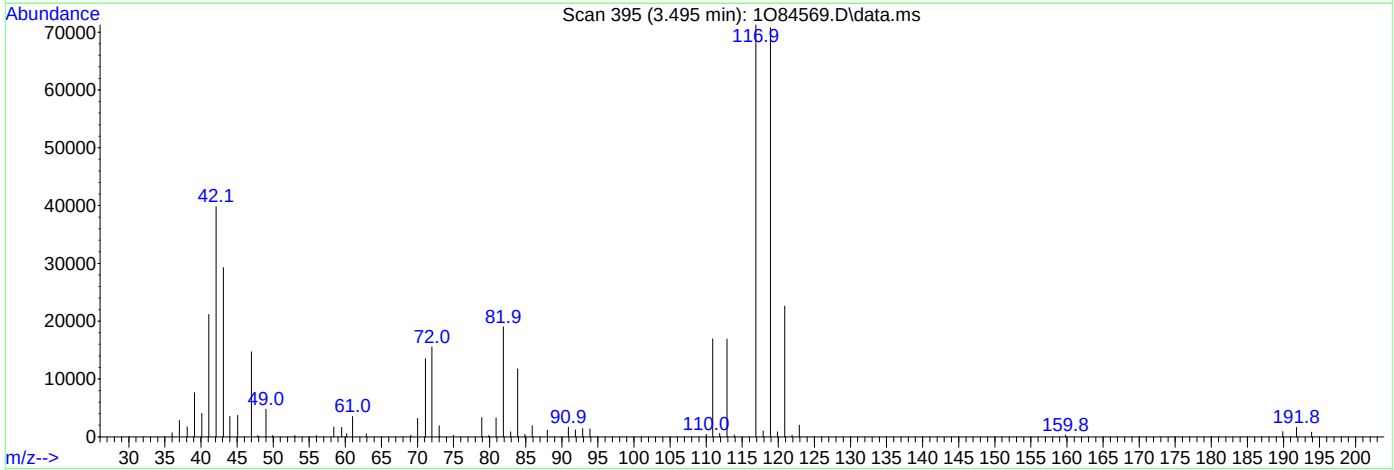
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.97	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:44:11 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O84569.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 45.18ug/L

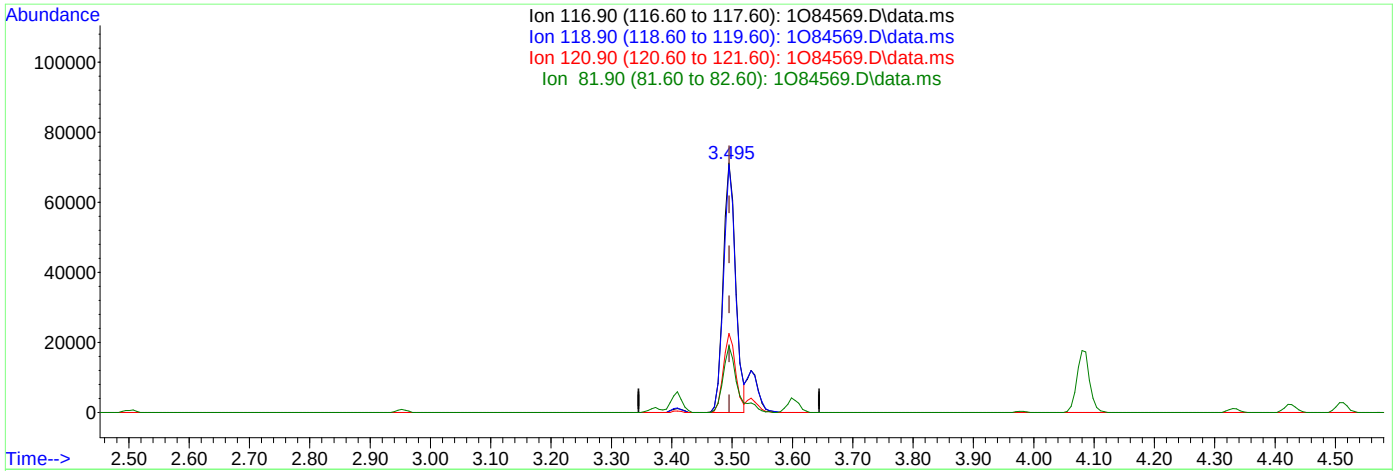
response 118780

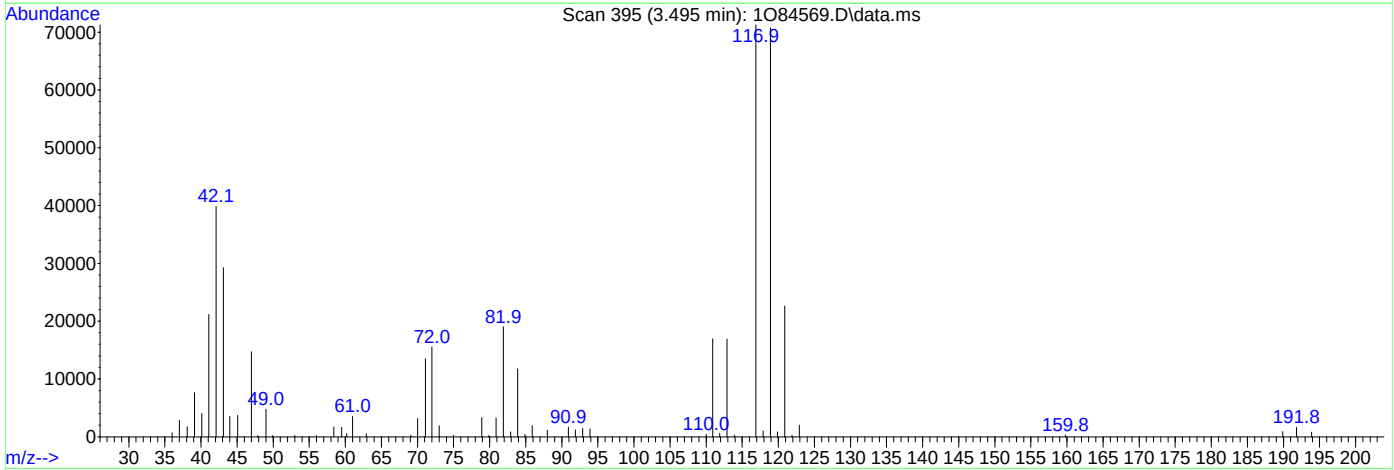
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	99.30
120.90	32.60	31.76
81.90	27.90	26.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:44:11 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O84569.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 39.16ug/L m

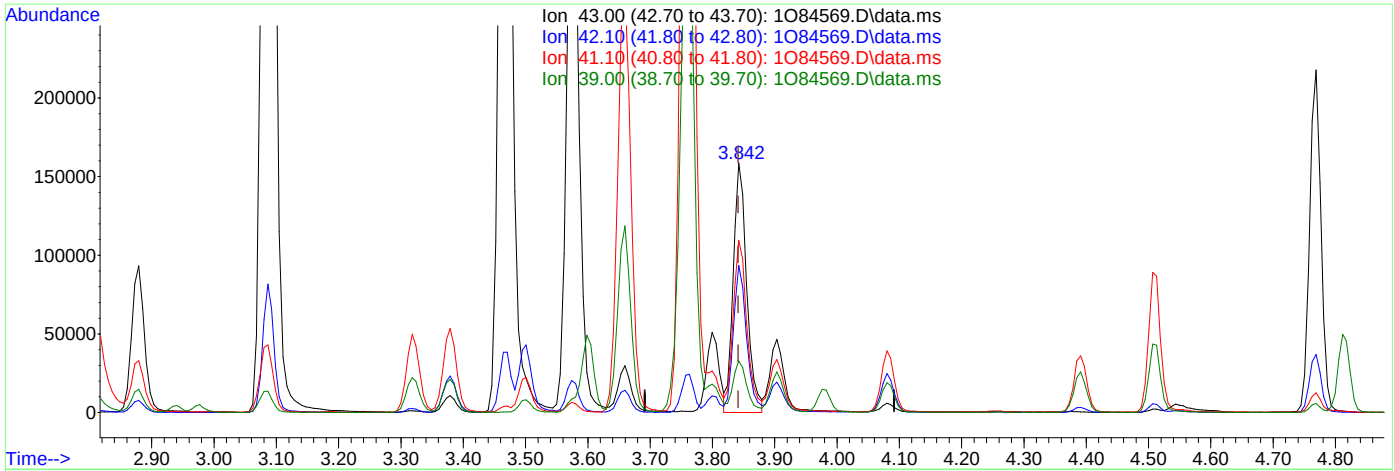
response 102975

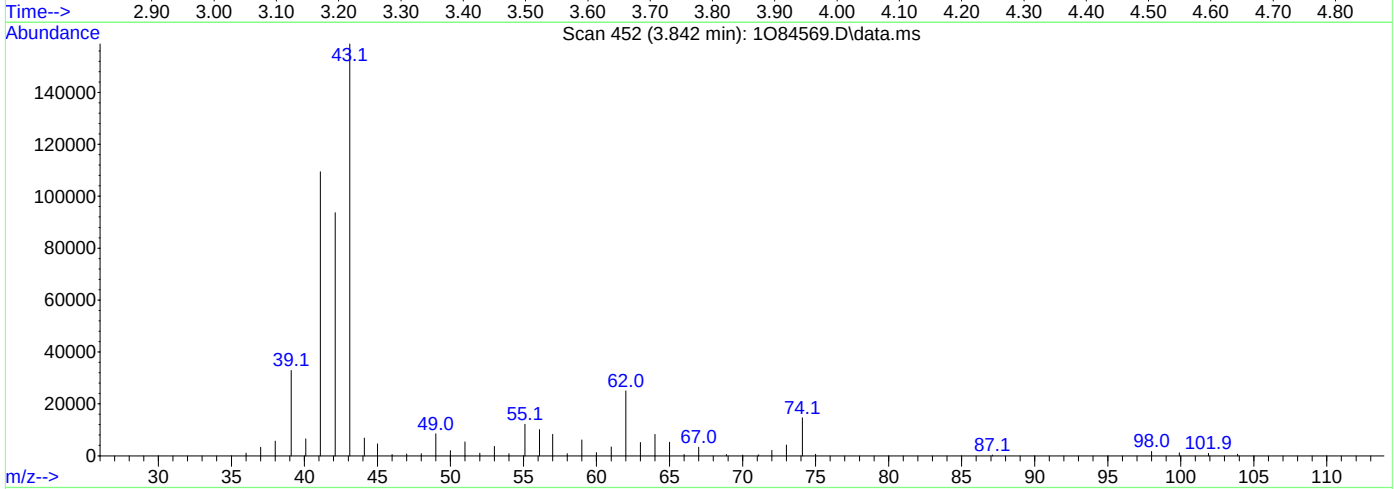
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	99.30
120.90	32.60	31.76
81.90	27.90	26.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:44:11 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O84569.D\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 946.46ug/L m

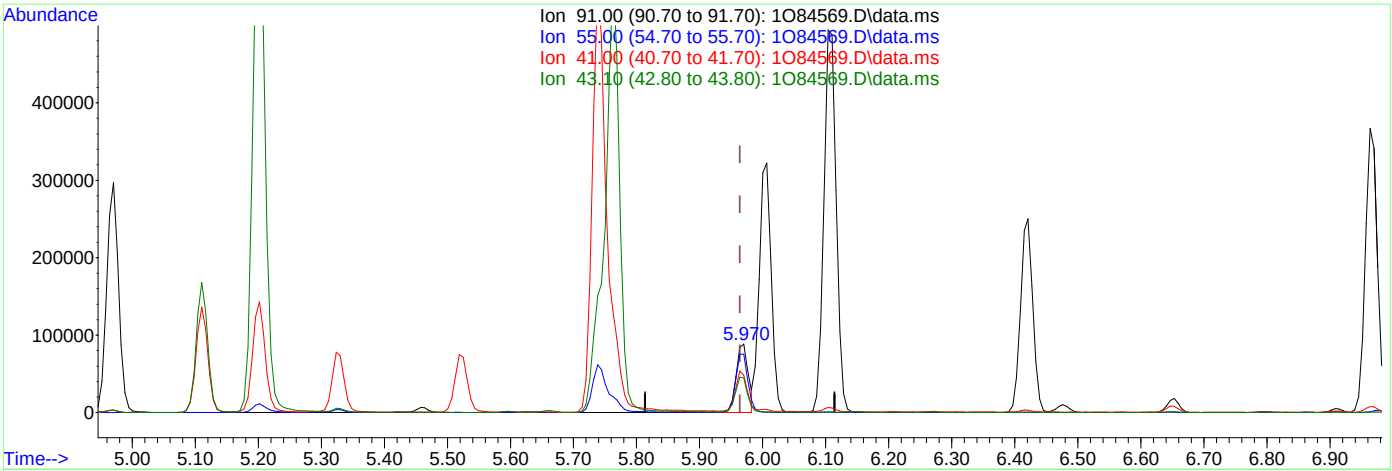
response 239286

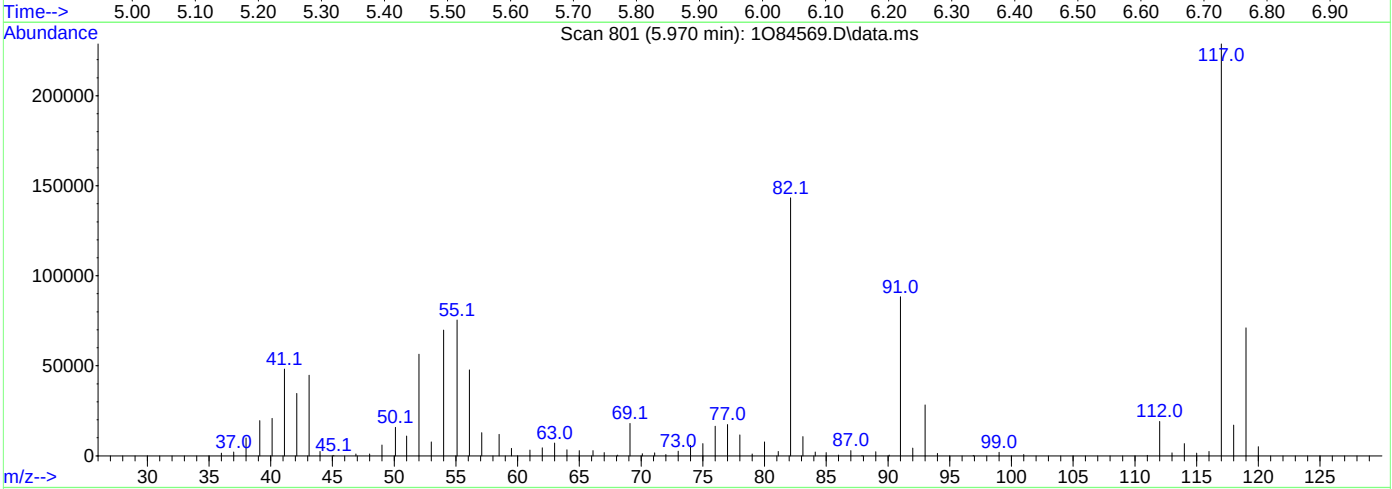
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.00
41.10	75.50	68.92
39.00	27.60	20.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\060224\
Data File : 1O84569.D
Acq On : 2 Jun 2024 2:26 pm
Operator : jeniferw
Sample : ICV3054-5 Inst : MSVOA12-O
Misc : MS56710,V1O3054,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 14:44:11 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O84569.D\data.ms

(76) 1-Chlorohexane

5.970min (+0.006) 40.83ug/L m

response 117848

Ion	Exp%	Act%
91.00	100	100
55.00	90.70	85.30
41.00	70.80	54.49
43.10	55.10	50.63

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 08:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 09:00:02 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	381627	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.970	117	259365	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.714	152	140976	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.507	113	105655	53.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.74%			
50) 1,2-Dichloroethane-d4	3.812	65	145968	57.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.04%			
63) Toluene-d8	4.934	98	379633	50.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.18%			
86) 4-Bromofluorobenzene	6.860	174	98186	49.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	44434	33.07	ug/L	98
3) Chloromethane	1.343	50	55563	28.60	ug/L	96
4) 1,3-butadiene	1.416	39	33486	29.61	ug/L	94
5) Vinyl Chloride	1.404	62	48516	27.26	ug/L	97
6) Bromomethane	1.636	94	11557	27.88	ug/L	96
7) Chloroethane	1.715	64	13670	30.86	ug/L	95
8) Trichlorofluoromethane	1.812	101	62111	34.55	ug/L	99
9) Ethyl Ether	2.026	59	41021	25.27	ug/L	97
10) Ethanol	2.135	45	24500	594.35	ug/L	98
11) 1,2-Dichlorotrifluoroe...	2.148	67	50699	38.37	ug/L	97
12) 1,1-Dichloroethene	2.148	61	66908	27.23	ug/L	99
13) Freon 113	2.172	101	35755	24.95	ug/L	95
14) Carbon Disulfide	2.166	76	105388	25.22	ug/L	93
15) Iodomethane	2.233	142	18631	29.26	ug/L	98
16) Acrolein	2.349	56	72558	132.53	ug/L	98
17) Allyl chloride	2.434	41	58705	27.24	ug/L	90
18) Methylene Chloride	2.495	49	62781	24.85	ug/L	97
19) Acetone	2.526	43	137322	137.23	ug/L	96
20) Methyl acetate	2.599	43	296611	122.18	ug/L	98
21) trans-1,2-Dichloroethene	2.593	61	67043	26.23	ug/L	96
22) Hexane	2.648	56	40017	25.81	ug/L	96
23) Methyl Tert Butyl Ether	2.660	73	105840	25.66	ug/L	85
24) Tert Butyl Alcohol	2.709	59	125667	304.67	ug/L	93
25) Acetonitrile	2.794	41	101639	246.93	ug/L	98
26) Di-isopropyl ether	2.873	45	136642	24.31	ug/L	97
27) Chloroprene	2.934	53	64165	27.47	ug/L	94
28) 1,1-Dichloroethane	2.946	63	83132	26.13	ug/L	98
29) Acrylonitrile	2.971	52	150080	140.29	ug/L	99
30) ETBE	3.080	59	130945	26.15	ug/L	97
31) Vinyl acetate	3.087	43	536742	148.82	ug/L	98
32) cis-1,2-Dichloroethene	3.251	96	39835	24.42	ug/L	94
33) 2,2-Dichloropropane	3.318	77	50114	29.66	ug/L	97
34) Bromochloromethane	3.367	128	18622	24.89	ug/L	99
35) Cyclohexane	3.373	56	74620	23.18	ug/L	95
36) Chloroform	3.404	83	76564	27.04	ug/L	97
37) Ethyl acetate	3.464	43	385917	136.13	ug/L	99
38) Tetrahydrofuran	3.495	42	27404	22.98	ug/L	98
40) Carbon Tetrachloride	3.495	117	50605m	28.23	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	61411	28.93	ug/L	98
42) 2-Butanone	3.574	43	230924	131.15	ug/L	98
43) 1,1-Dichloropropene	3.599	75	52234	25.63	ug/L	97
44) tert-Butyl formate	3.653	59	138413	160.59	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 09:00:02 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	3.745	54	154898	268.54	ug/L		98
46) Methacrylonitrile	3.757	41	416926	261.08	ug/L		98
47) Benzene	3.739	78	148991	24.21	ug/L		99
48) TAME	3.800	73	95161	25.58	ug/L		99
49) Isobutyl alcohol	3.842	43	99000m	574.36	ug/L		
51) 1,2-Dichloroethane	3.855	62	66304	27.46	ug/L		97
52) Tert Amyl Alcohol	3.903	59	98002	293.42	ug/L		94
53) Trichloroethene	4.080	95	40602	24.58	ug/L		97
54) Methylcyclohexane	4.080	83	54191	23.35	ug/L		90
55) Dibromomethane	4.330	93	25714	25.06	ug/L		95
56) 1,2-Dichloropropane	4.391	63	44380	24.78	ug/L		96
57) Bromodichloromethane	4.422	83	52757	28.24	ug/L		96
58) Methyl methacrylate	4.507	41	43508	23.95	ug/L		93
59) 1,4-Dioxane	4.544	88	17798	510.37	ug/L		96
60) 2-Chloroethyl vinyl ether	4.763	63	185671	134.90	ug/L		98
61) cis-1,3-Dichloropropene	4.812	75	57880	27.03	ug/L		95
64) Toluene	4.964	91	153502	24.47	ug/L		99
65) 2-Nitropropane	5.104	41	84232	155.05	ug/L		96
66) 4-Methyl-2-pentanone	5.196	43	369258	131.53	ug/L		98
67) trans-1,3-Dichloropropene	5.226	75	57854	28.83	ug/L		95
68) Tetrachloroethene	5.220	166	35426	25.39	ug/L		97
69) Ethyl methacrylate	5.324	69	49222	22.19	ug/L		93
70) 1,1,2-Trichloroethane	5.336	83	32496	24.44	ug/L		96
71) Dibromochloromethane	5.458	129	36784	27.71	ug/L		96
72) 1,3-Dichloropropane	5.519	76	63176	24.78	ug/L		99
73) 1,2-Dibromoethane	5.623	107	39038	25.81	ug/L		97
74) 3,3-dimethyl-1-butanol	5.738	57	692957	1451.48	ug/L		98
75) 2-hexanone	5.763	43	409774	140.65	ug/L		95
76) 1-Chlorohexane	5.964	91	43223m	22.08	ug/L		
77) Ethylbenzene	6.001	91	173520	25.56	ug/L		98
78) Chlorobenzene	5.982	112	99340	24.45	ug/L		97
79) 1,1,1,2-Tetrachloroethane	6.031	131	33706	28.17	ug/L		97
80) m,p-Xylene	6.104	91	272079	51.37	ug/L		100
81) o-Xylene	6.415	91	134360	25.14	ug/L		98
82) Styrene	6.452	104	99508	25.78	ug/L		97
83) Bromoform	6.476	173	22258	28.18	ug/L		96
84) Isopropylbenzene	6.647	105	152039	25.73	ug/L		100
87) cis-1,4-Dichloro-2-butene	6.903	53	24274	27.01	ug/L		88
88) n-Propylbenzene	6.964	91	196557	25.94	ug/L		95
89) Bromobenzene	6.946	156	37897	25.58	ug/L		91
90) 1,1,2,2-Tetrachloroethane	7.013	83	64918	26.04	ug/L		99
91) 1,3,5-Trimethylbenzene	7.116	105	134615	26.52	ug/L		100
92) 2-Chlorotoluene	7.080	91	133624	25.46	ug/L		98
93) trans-1,4-Dichloro-2-B...	7.147	53	19728	26.42	ug/L		90
94) 1,2,3-Trichloropropane	7.116	110	19016	27.01	ug/L		97
95) Cyclohexanone	7.147	55	21899	127.79	ug/L		98
96) 4-Chlorotoluene	7.214	91	127619	25.81	ug/L		96
97) tert-Butylbenzene	7.360	91	75643	27.05	ug/L		98
99) 1,2,4-Trimethylbenzene	7.415	105	133388	26.48	ug/L		97
100) Pentachloroethane	7.378	167	20487	28.52	ug/L		90
101) sec-Butylbenzene	7.500	105	156578	26.69	ug/L		99
102) 4-Isopropyltoluene	7.610	119	129245	27.01	ug/L		100
103) 1,3-Dichlorobenzene	7.665	146	75924	25.51	ug/L		97
104) 1,2,3-Trimethylbenzene	7.744	105	145891	26.63	ug/L		98
105) 1,4-Dichlorobenzene	7.726	146	77316	24.81	ug/L		95
106) n-Butylbenzene	7.921	92	73978	24.59	ug/L		90
107) Benzyl Chloride	7.909	126	16459	29.84	ug/L	#	70
108) 1,2-Dichlorobenzene	8.037	146	72643	25.35	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 09:00:02 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

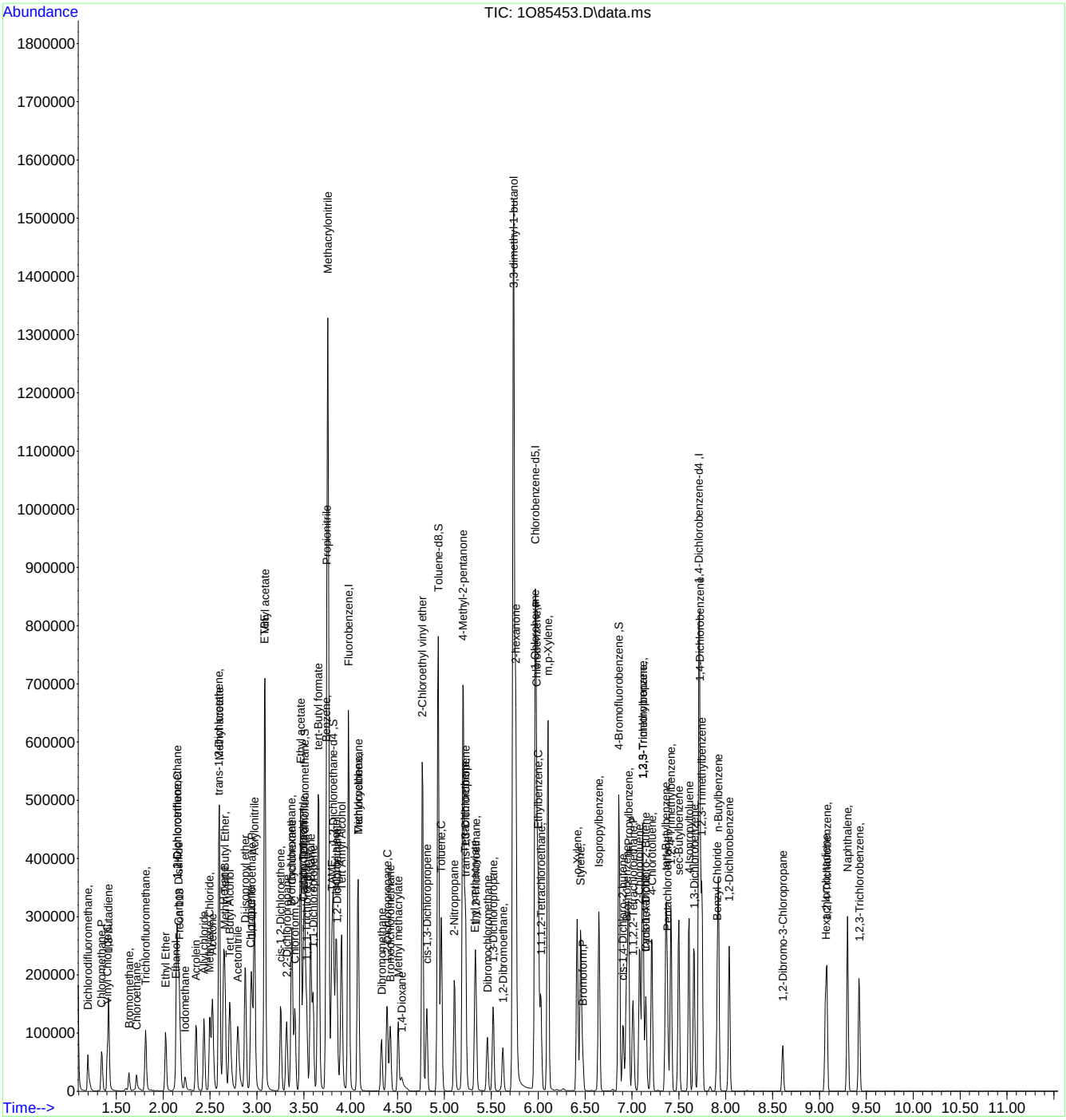
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	15485	29.10	ug/L	94
110) Hexachlorobutadiene	9.067	225	17117	27.95	ug/L	91
111) 1,2,4-Trichlorobenzene	9.079	180	42314	25.79	ug/L	99
112) Naphthalene	9.299	128	154131	23.90	ug/L	98
113) 1,2,3-Trichlorobenzene	9.427	180	41481	25.84	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 09:00:02 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

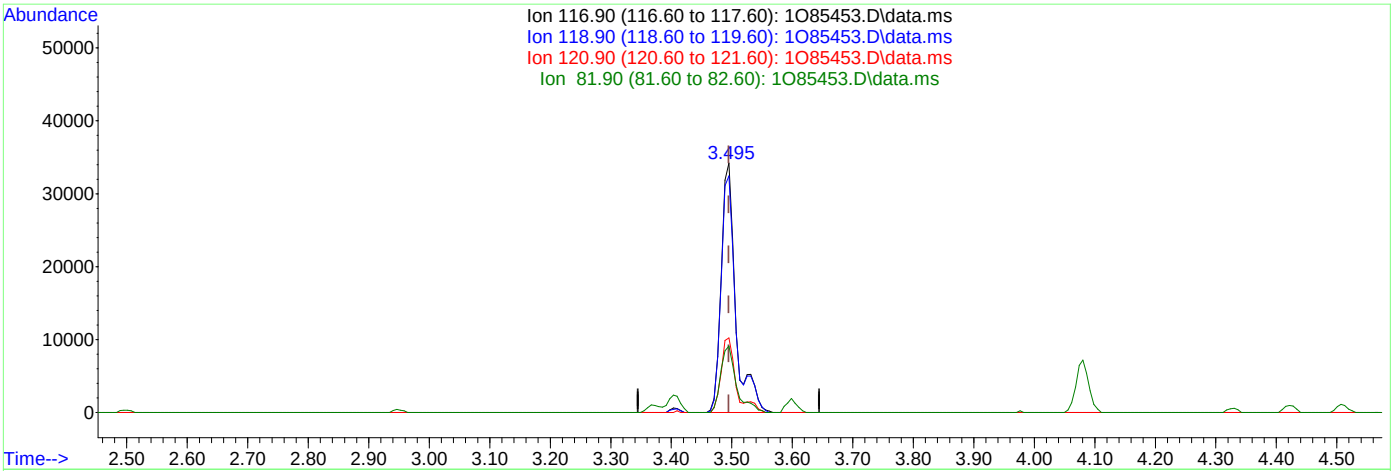
Sample Number: V1O3089-CC3054
Lab FileID: 1O85453.D
Injection Time: 07/01/24 08:44
Method: SW846 8260D
Analyst approved: 07/01/24 09:31 Jenifer Willis
Supervisor approved: 07/02/24 08:17 Karen Watson

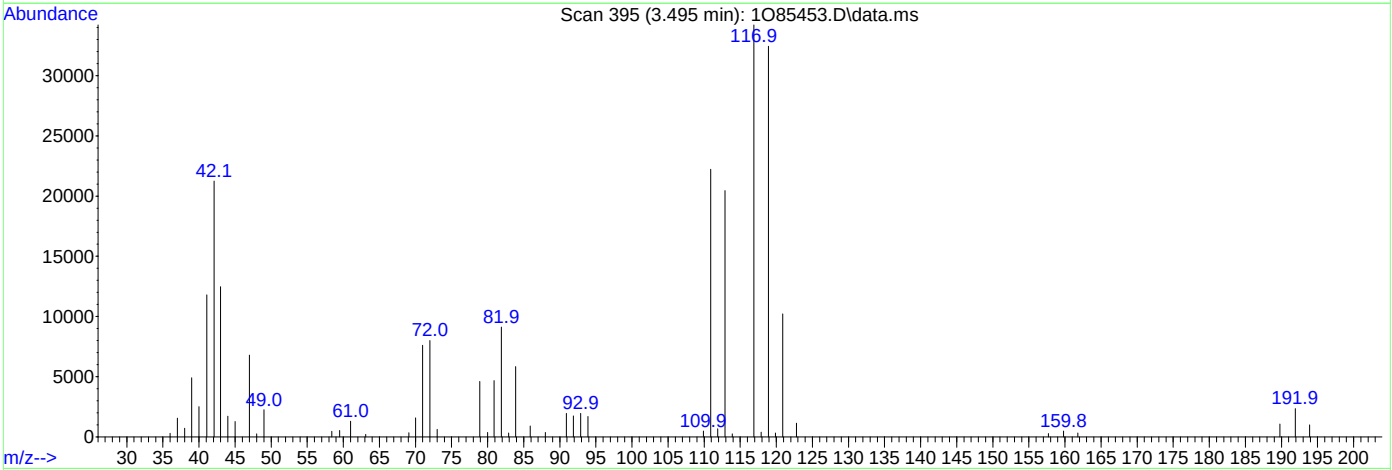
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.49	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Poorly defined baseline
1-Chlorohexane	544-10-5		5.96	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 08:59:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 31.75ug/L

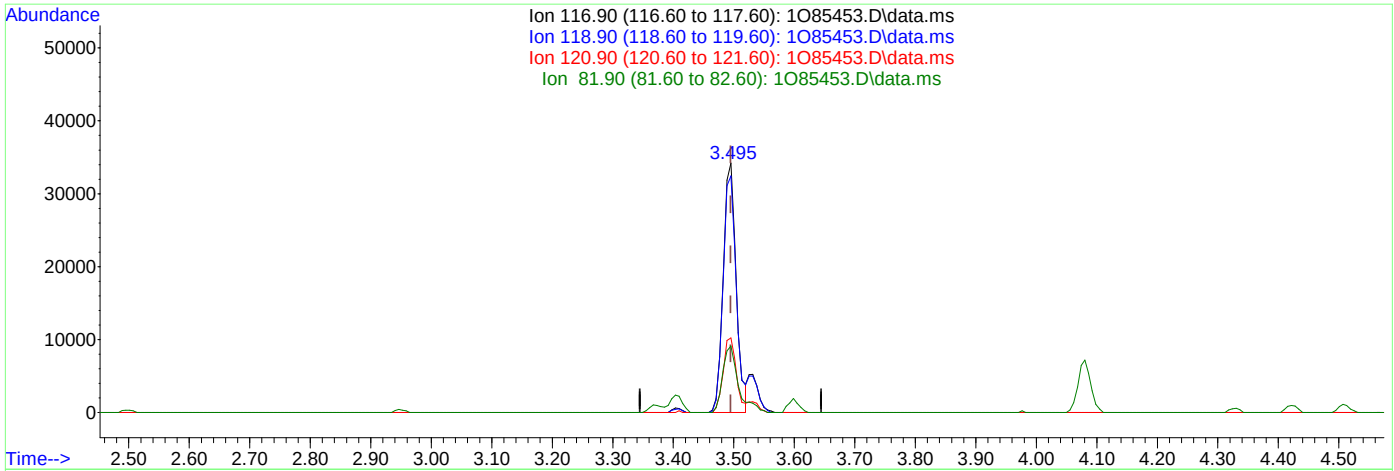
response 56919

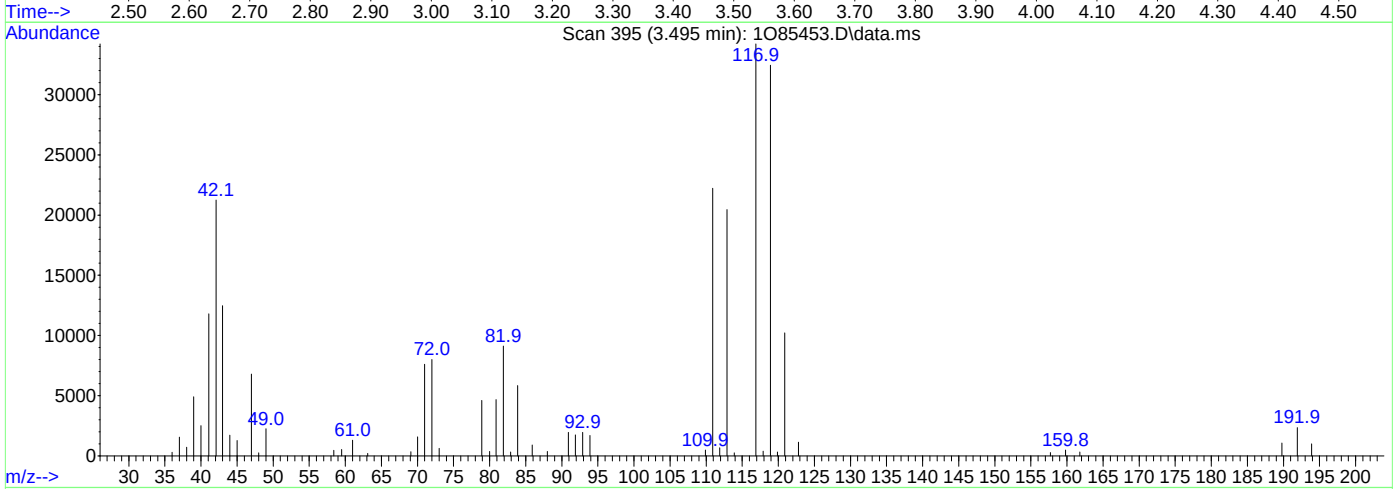
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	94.79
120.90	32.60	29.85
81.90	27.90	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 08:59:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(40) Carbon Tetrachloride ( )

3.495min (-0.000) 28.23ug/L m

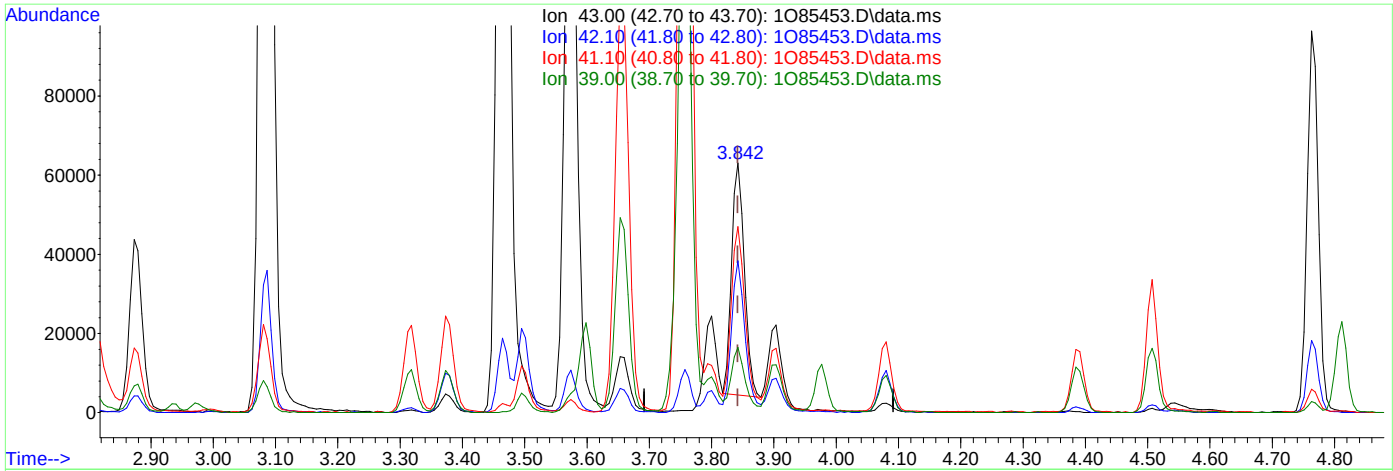
response 50605

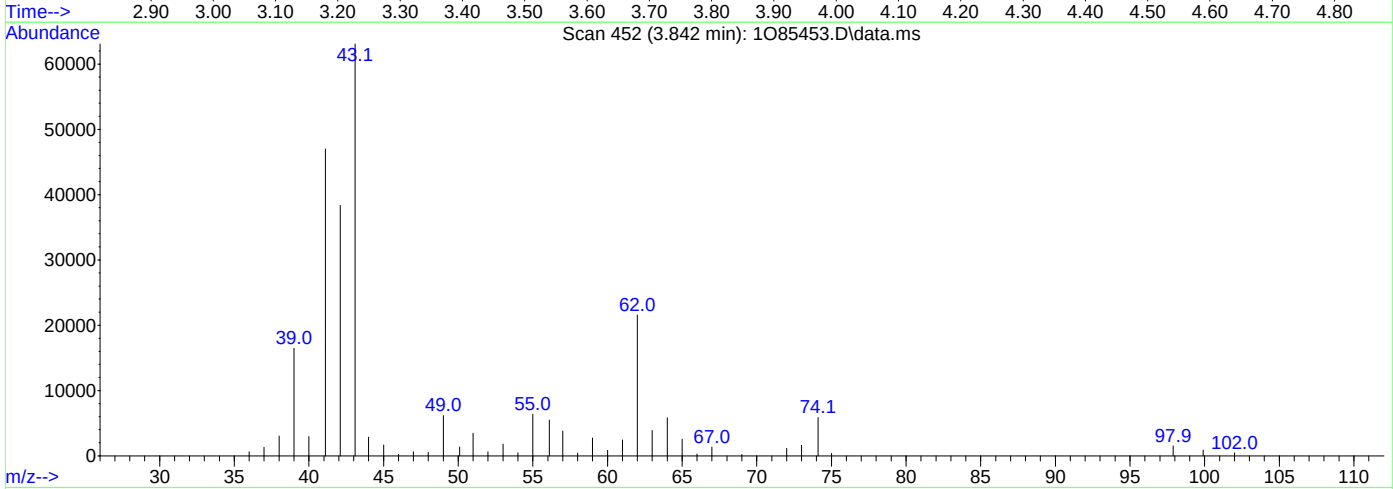
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	94.79
120.90	32.60	29.85
81.90	27.90	26.67

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 08:59:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 481.93ug/L

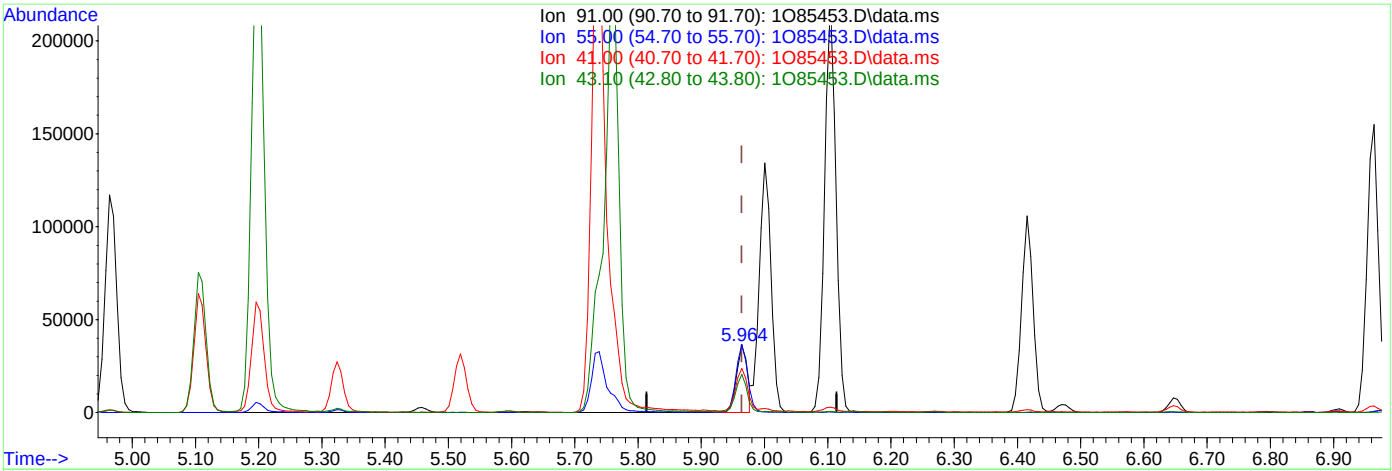
response 83068

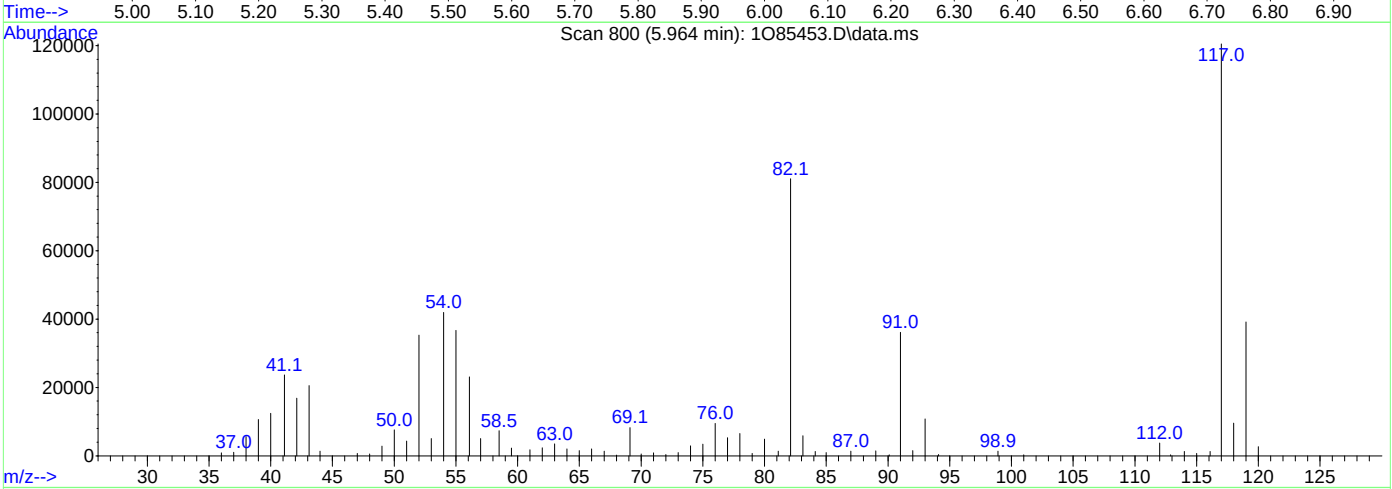
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	61.33
41.10	75.50	73.94
39.00	27.60	25.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 08:59:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(76) 1-Chlorohexane

5.964min (0.000) 22.08ug/L m

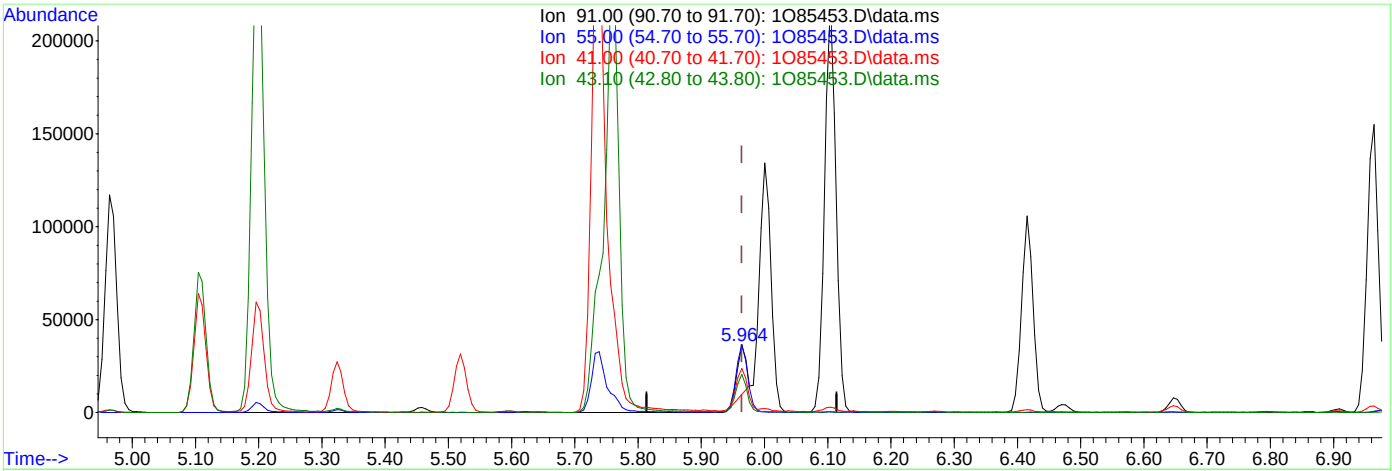
response 43223

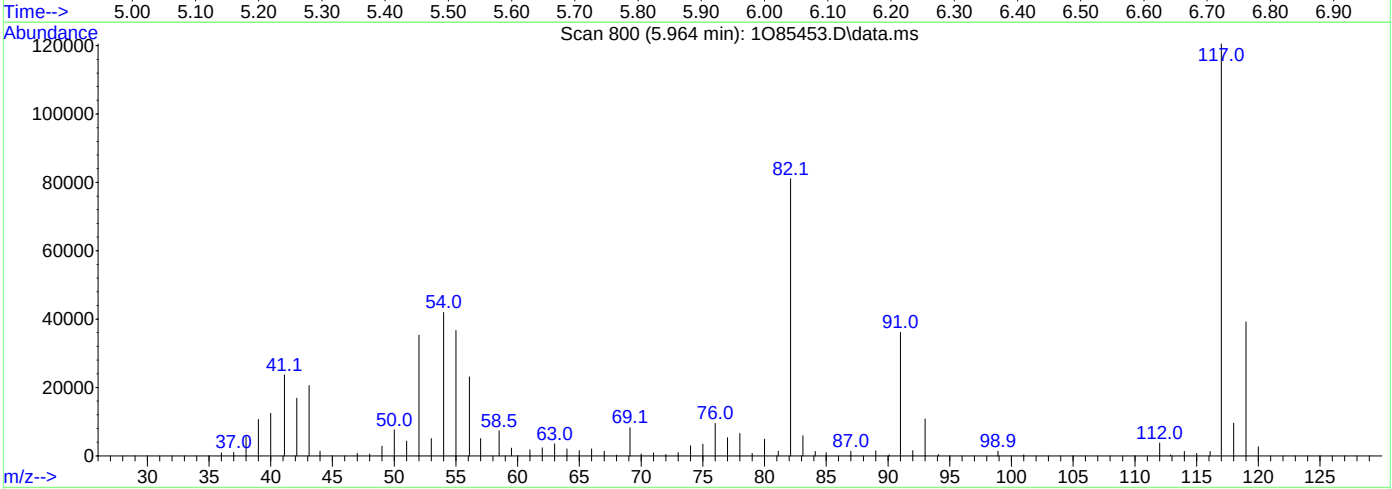
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	101.62
41.00	70.80	65.65
43.10	55.10	56.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 08:59:28 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(76) 1-Chlorohexane

5.964min (0.000) 13.98ug/L

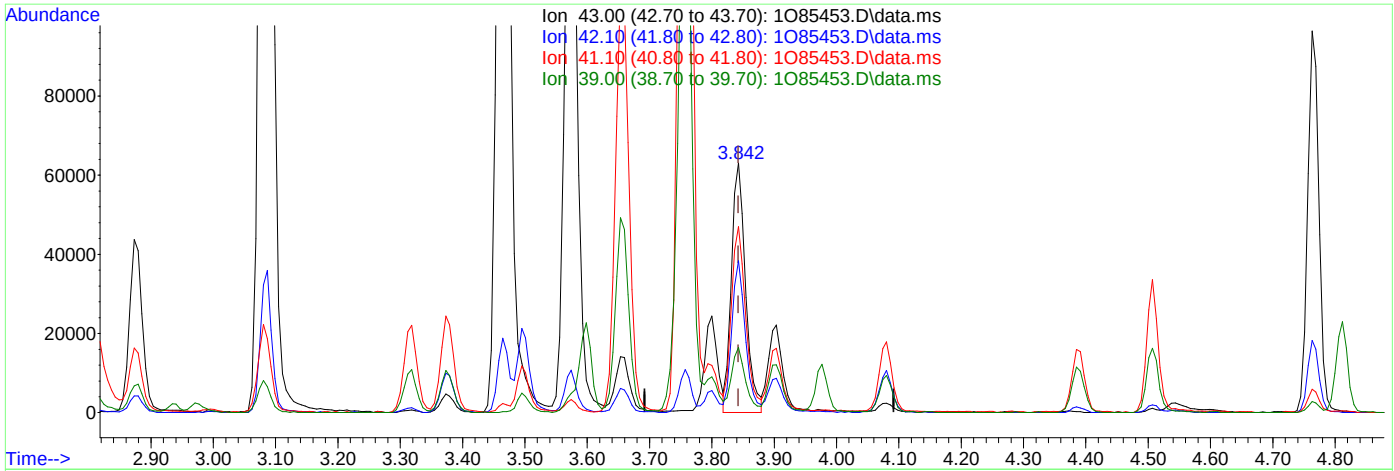
response 27370

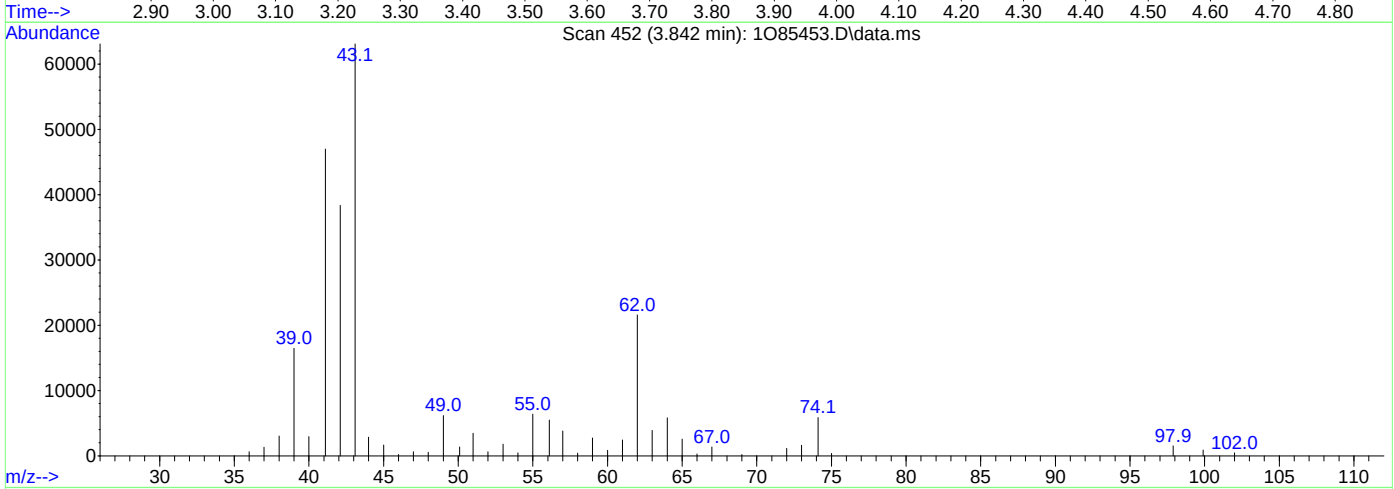
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	98.30
41.00	70.80	60.39
43.10	55.10	54.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070124\
Data File : 1O85453.D
Acq On : 1 Jul 2024 8:44 am
Operator : jeniferw
Sample : CC3054-4 Inst : MSVOA12-O
Misc : MS56941,V1O3089,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 09:00:02 2024
Quant Method : C:\msdchem\1\methods\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration





TIC: 1O85453.D\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 574.36ug/L m

response 99000

Ion	Exp%	Act%
43.00	100	100
42.10	59.20	60.76
41.10	75.50	74.49
39.00	27.60	26.08

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 08:17

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 10:39:30 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.977	96	442098	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.976	117	297893	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.720	152	162953	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	3.513	113	117236	51.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.20%			
50) 1,2-Dichloroethane-d4	3.818	65	162260	54.71	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.42%			
63) Toluene-d8	4.934	98	436371	50.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.26%			
86) 4-Bromofluorobenzene	6.866	174	114022	50.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.197	85	48406	31.1013	ug/L	99
3) Chloromethane	1.349	50	63571	28.2451	ug/L	93
4) 1,3-butadiene	1.422	39	39966	30.5090	ug/L	90
5) Vinyl Chloride	1.404	62	55506	26.9266	ug/L	97
6) Bromomethane	1.636	94	13956	29.0589	ug/L	95
7) Chloroethane	1.715	64	15021	29.2671	ug/L	97
8) Trichlorofluoromethane	1.812	101	65864	31.6278	ug/L	99
9) Ethyl Ether	2.026	59	46778	24.8711	ug/L	94
10) Ethanol	2.129	45	28461	596.0019	ug/L	94
11) 1,2-Dichlorotrifluoroe...	2.148	67	56813	37.1208	ug/L	98
12) 1,1-Dichloroethene	2.148	61	74194	26.0673	ug/L	98
13) Freon 113	2.178	101	39474	23.7769	ug/L	97
14) Carbon Disulfide	2.166	76	116668	24.1013	ug/L	93
15) Iodomethane	2.239	142	30114	35.6518	ug/L	96
16) Acrolein	2.355	56	76499	120.6135	ug/L	98
17) Allyl chloride	2.440	41	65401	26.2007	ug/L	89
18) Methylene Chloride	2.501	49	72090	24.6308	ug/L	97
19) Acetone	2.526	43	149554	129.0078	ug/L	93
20) Methyl acetate	2.599	43	342180	121.6722	ug/L	98
21) trans-1,2-Dichloroethene	2.599	61	74264	25.0832	ug/L	97
22) Hexane	2.648	56	41824	23.2840	ug/L	94
23) Methyl Tert Butyl Ether	2.660	73	122724	25.6814	ug/L	88
24) Tert Butyl Alcohol	2.709	59	133547	279.4835	ug/L	91
25) Acetonitrile	2.800	41	113448	237.9164	ug/L	97
26) Di-isopropyl ether	2.879	45	160282	24.6125	ug/L	96
27) Chloroprene	2.940	53	70938	26.2181	ug/L	96
28) 1,1-Dichloroethane	2.952	63	92379	25.0627	ug/L	98
29) Acrylonitrile	2.977	52	168990	136.3579	ug/L	99
30) ETBE	3.080	59	150607	25.9636	ug/L	97
31) Vinyl acetate	3.087	43	609252	145.8209	ug/L	96
32) cis-1,2-Dichloroethene	3.257	96	45769	24.2203	ug/L	98
33) 2,2-Dichloropropane	3.318	77	51083	26.0991	ug/L	98
34) Bromochloromethane	3.367	128	21242	24.5043	ug/L	91
35) Cyclohexane	3.379	56	87925	23.5809	ug/L	95
36) Chloroform	3.410	83	83573	25.4820	ug/L	95
37) Ethyl acetate	3.465	43	451732	137.5472	ug/L	99
38) Tetrahydrofuran	3.501	42	31730	22.9641	ug/L	96
40) Carbon Tetrachloride	3.495	117	52508m	25.2854	ug/L	
41) 1,1,1-Trichloroethane	3.532	97	67106	27.2841	ug/L	97
42) 2-Butanone	3.574	43	253989	124.5199	ug/L	99
43) 1,1-Dichloropropene	3.599	75	59603	25.2455	ug/L	93
44) tert-Butyl formate	3.660	59	149501	150.5885	ug/L #	73

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 10:39:30 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	3.745	54	165121	247.1121	ug/L		91
46)	Methacrylonitrile	3.757	41	468433	253.2147	ug/L		98
47)	Benzene	3.745	78	170567	23.9220	ug/L		85
48)	TAME	3.800	73	109818	25.4783	ug/L		99
49)	Isobutyl alcohol	3.842	43	98574m	493.6654	ug/L		
51)	1,2-Dichloroethane	3.855	62	72254	25.8290	ug/L		100
52)	Tert Amyl Alcohol	3.903	59	105772	274.9466	ug/L		91
53)	Trichloroethene	4.080	95	46094	24.0917	ug/L		97
54)	Methylcyclohexane	4.080	83	62977	23.4214	ug/L		93
55)	Dibromomethane	4.330	93	29201	24.5662	ug/L		97
56)	1,2-Dichloropropane	4.391	63	52042	25.0820	ug/L		94
57)	Bromodichloromethane	4.428	83	56554	26.1338	ug/L		99
58)	Methyl methacrylate	4.507	41	51649	24.5418	ug/L		93
59)	1,4-Dioxane	4.544	88	20916	517.7413	ug/L		95
60)	2-Chloroethyl vinyl ether	4.769	63	209312	131.2725	ug/L		99
61)	cis-1,3-Dichloropropene	4.812	75	63798	25.7217	ug/L		93
64)	Toluene	4.970	91	174552	24.2310	ug/L		98
65)	2-Nitropropane	5.111	41	85232	138.0023	ug/L		94
66)	4-Methyl-2-pentanone	5.202	43	432130	134.0176	ug/L		98
67)	trans-1,3-Dichloropropene	5.232	75	63685	27.6291	ug/L		91
68)	Tetrachloroethene	5.226	166	42206	26.3353	ug/L		97
69)	Ethyl methacrylate	5.330	69	59588	23.3836	ug/L		87
70)	1,1,2-Trichloroethane	5.336	83	38458	25.1815	ug/L		97
71)	Dibromochloromethane	5.458	129	40477	26.6183	ug/L		97
72)	1,3-Dichloropropane	5.519	76	73334	25.0443	ug/L		96
73)	1,2-Dibromoethane	5.629	107	44651	25.7042	ug/L		97
74)	3,3-dimethyl-1-butanol	5.738	57	732910	1341.6641	ug/L		97
75)	2-hexanone	5.763	43	455151	136.0229	ug/L		95
76)	1-Chlorohexane	5.964	91	52810m	23.4884	ug/L		
77)	Ethylbenzene	6.001	91	194322	24.9175	ug/L		97
78)	Chlorobenzene	5.988	112	112667	24.1417	ug/L		98
79)	1,1,1,2-Tetrachloroethane	6.031	131	38007	27.6557	ug/L		95
80)	m,p-Xylene	6.104	91	307816	50.6047	ug/L		100
81)	o-Xylene	6.421	91	155250	25.2967	ug/L		97
82)	Styrene	6.458	104	115435	26.0412	ug/L		99
83)	Bromoform	6.476	173	23919	26.5116	ug/L		98
84)	Isopropylbenzene	6.653	105	175014	25.7889	ug/L		99
87)	cis-1,4-Dichloro-2-butene	6.909	53	24528	23.6113	ug/L		85
88)	n-Propylbenzene	6.964	91	220088	25.1263	ug/L		97
89)	Bromobenzene	6.946	156	43692	25.5140	ug/L		93
90)	1,1,2,2-Tetrachloroethane	7.013	83	74207	25.7545	ug/L		99
91)	1,3,5-Trimethylbenzene	7.116	105	152504	25.9907	ug/L		96
92)	2-Chlorotoluene	7.086	91	151726	25.0104	ug/L		99
93)	trans-1,4-Dichloro-2-B...	7.153	53	20330	23.5545	ug/L		85
94)	1,2,3-Trichloropropane	7.122	110	21596	26.5336	ug/L		91
95)	Cyclohexanone	7.153	55	24520	123.7847	ug/L		98
96)	4-Chlorotoluene	7.214	91	143634	25.1316	ug/L		97
97)	tert-Butylbenzene	7.366	91	86521	26.7700	ug/L		98
99)	1,2,4-Trimethylbenzene	7.421	105	151981	26.0986	ug/L		98
100)	Pentachloroethane	7.378	167	19984	24.0666	ug/L	#	65
101)	sec-Butylbenzene	7.500	105	176281	25.9969	ug/L		98
102)	4-Isopropyltoluene	7.610	119	145050	26.2218	ug/L		99
103)	1,3-Dichlorobenzene	7.665	146	85057	24.7217	ug/L		97
104)	1,2,3-Trimethylbenzene	7.750	105	162661	25.6896	ug/L		97
105)	1,4-Dichlorobenzene	7.732	146	87360	24.2564	ug/L		96
106)	n-Butylbenzene	7.927	92	81818	23.5327	ug/L		95
107)	Benzyl Chloride	7.915	126	15443	24.9878	ug/L		95
108)	1,2-Dichlorobenzene	8.043	146	82001	24.7535	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 10:39:30 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration

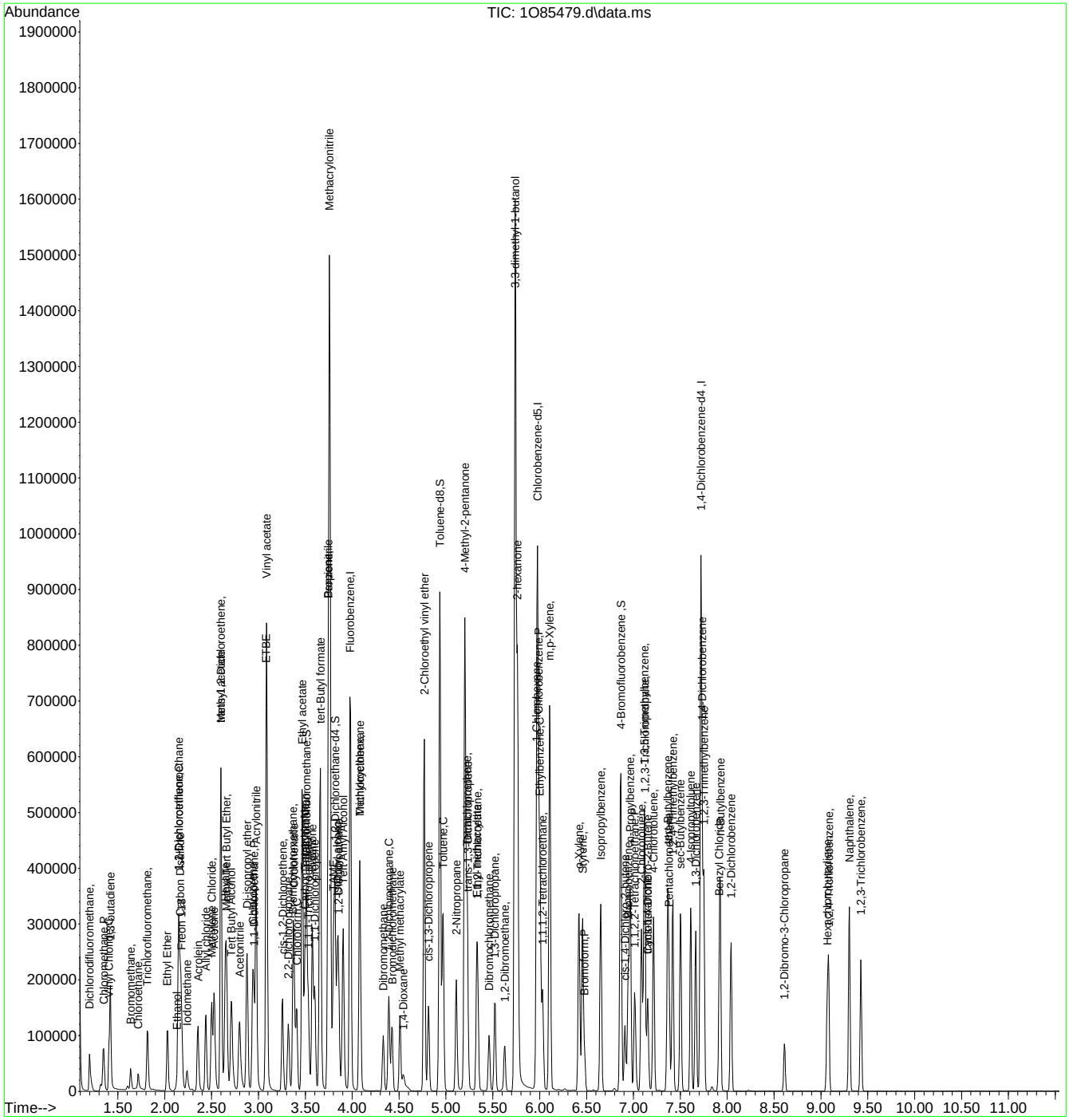
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	8.610	75	16508	27.0150	ug/L	91
110) Hexachlorobutadiene	9.067	225	17602	24.8685	ug/L	97
111) 1,2,4-Trichlorobenzene	9.085	180	47679	25.1379	ug/L	98
112) Naphthalene	9.305	128	179013	24.0138	ug/L	100
113) 1,2,3-Trichlorobenzene	9.427	180	48039	25.8917	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 10:39:30 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

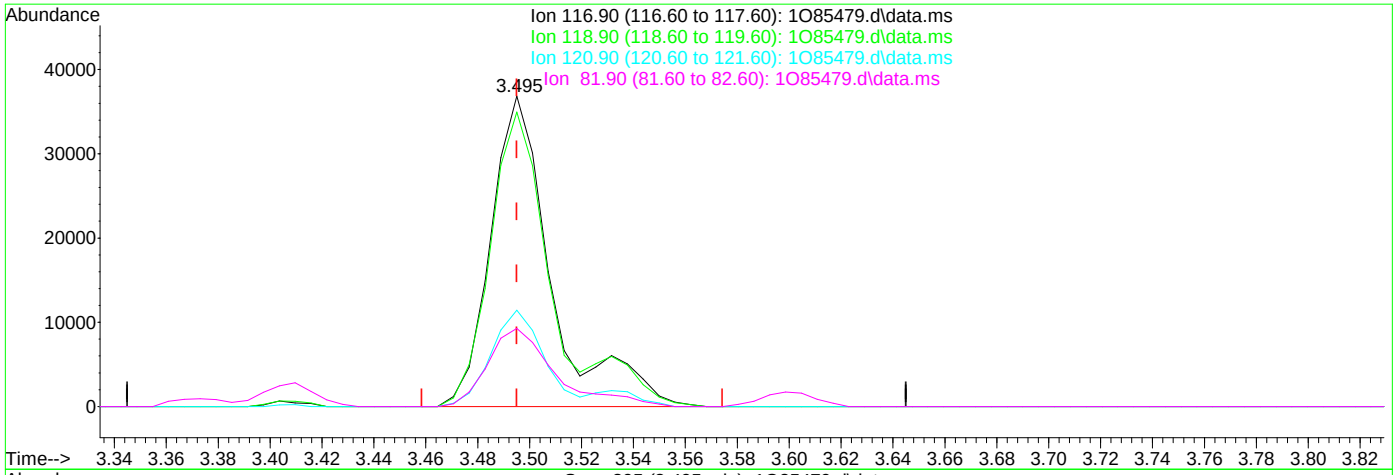
Sample Number: V1O3089-ECC3054 **Method:** SW846 8260D
Lab FileID: 1O85479.D **Analyst approved:** 07/02/24 06:42 Lotus Acosta
Injection Time: 07/01/24 19:47 **Supervisor approved:** 07/02/24 08:17 Karen Watson

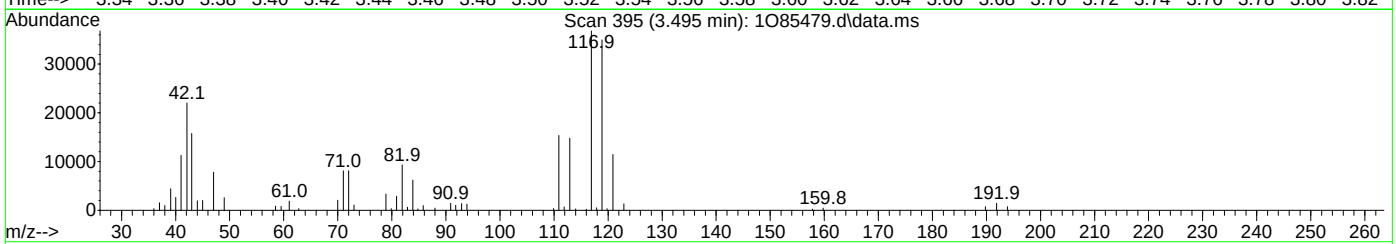
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		3.50	Overlapping peak
Isobutyl Alcohol	78-83-1		3.84	Overlapping peak
1-Chlorohexane	544-10-5		5.96	Overlapping peak

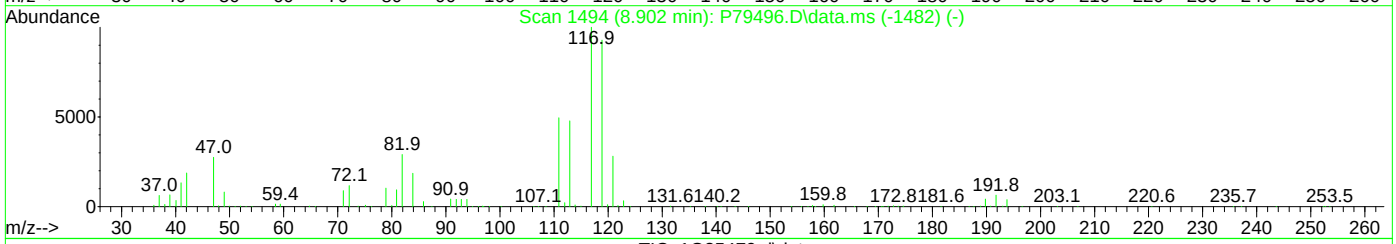
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (+0.000) 28.99ug/L

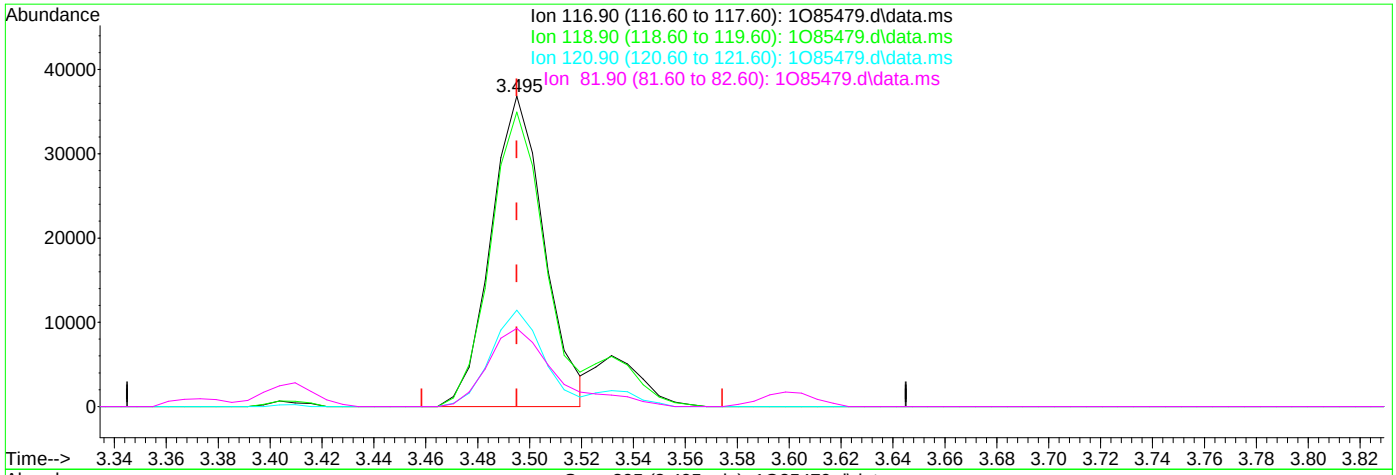
response 60210

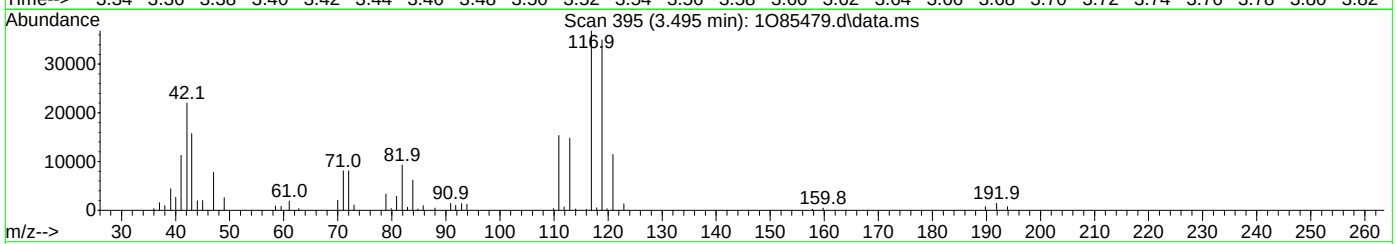
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	94.85
120.90	32.60	31.00
81.90	27.90	25.20

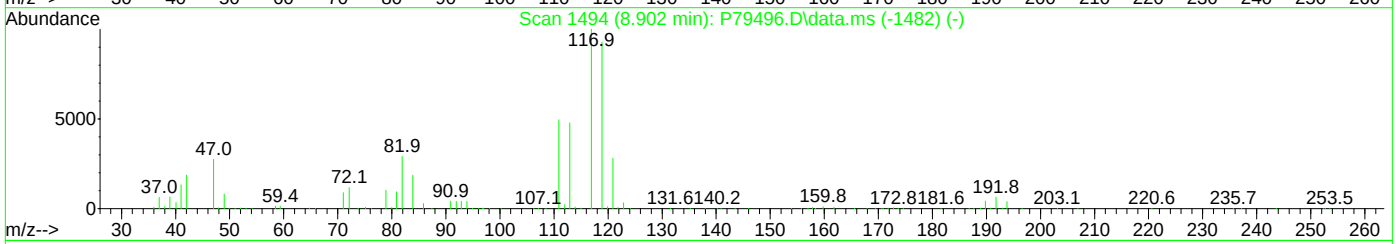
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(40) Carbon Tetrachloride ( )

3.495min (+0.000) 25.29ug/L m

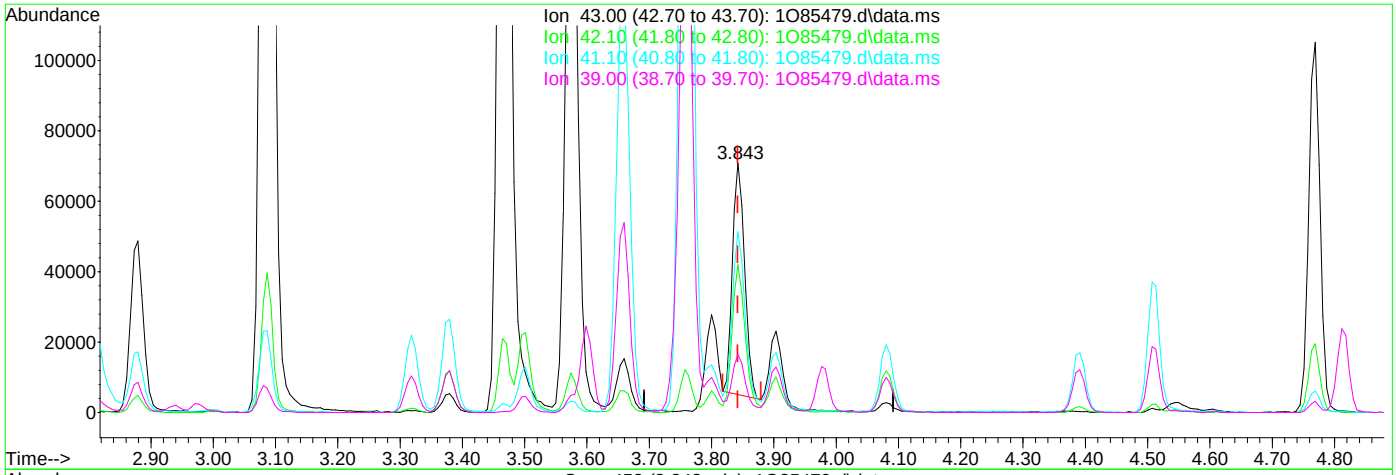
response 52508

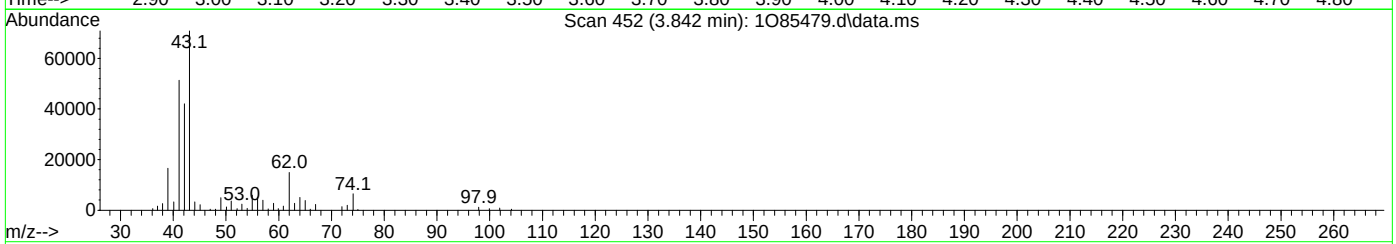
Ion	Exp%	Act%
116.90	100	100
118.90	94.20	94.85
120.90	32.60	31.00
81.90	27.90	25.20

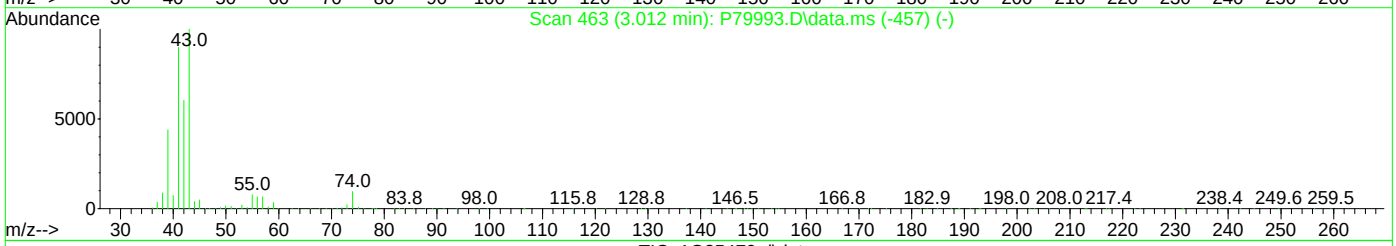
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 442.73ug/L

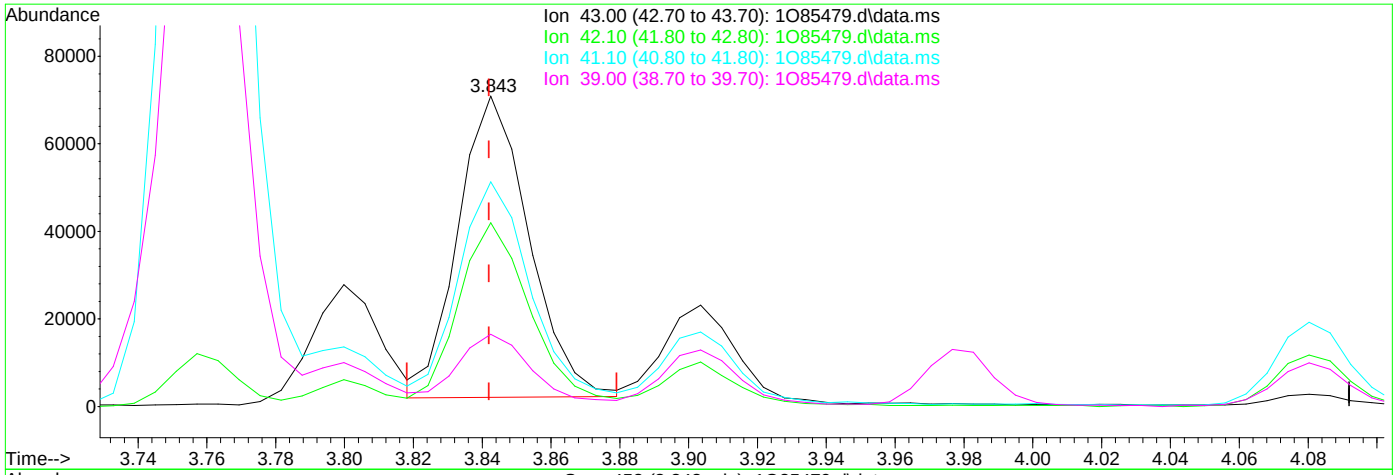
response 88403

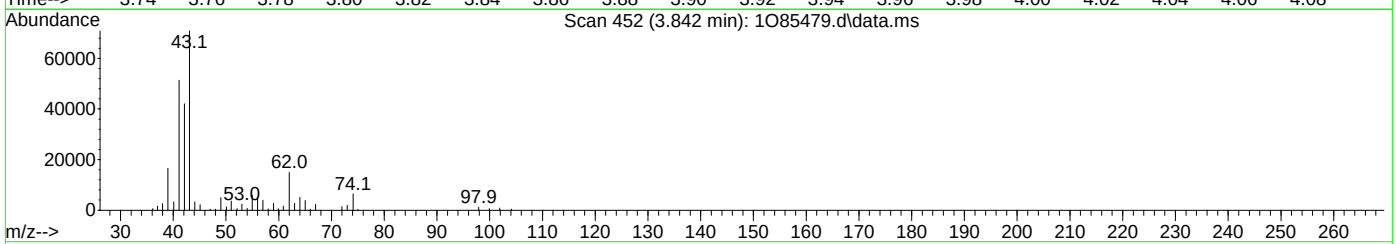
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.79
41.10	75.50	71.75
39.00	27.60	22.56

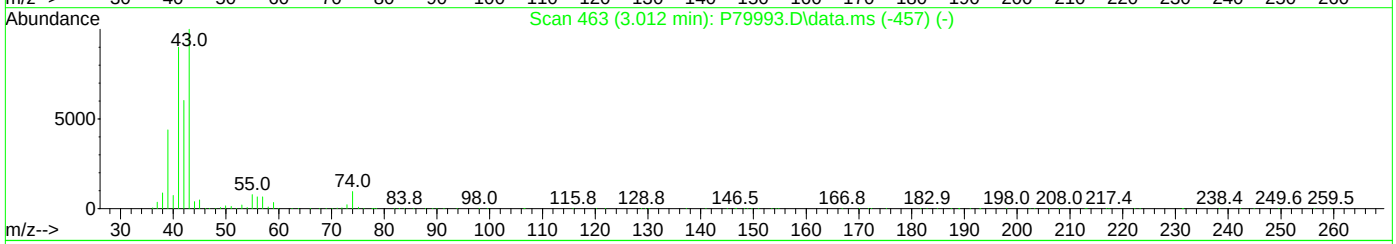
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 493.67ug/L m

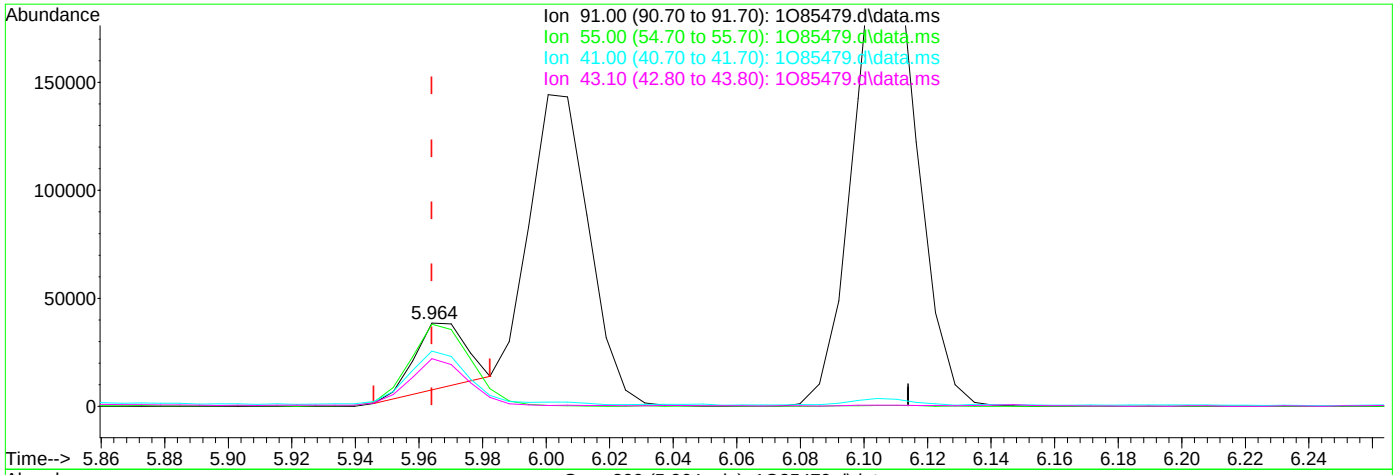
response 98574

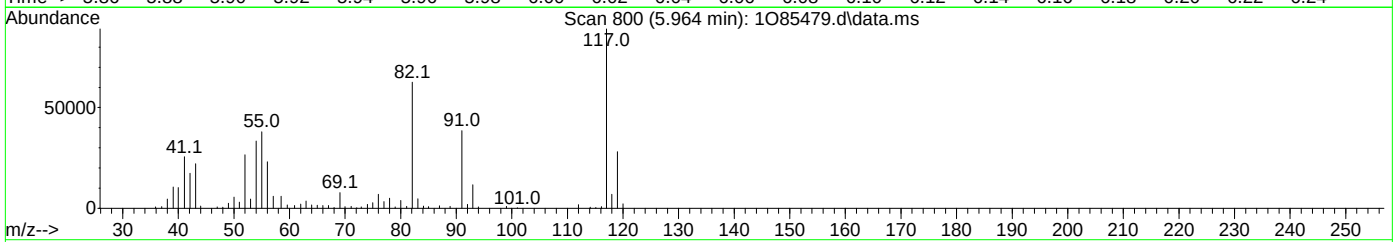
Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.23
41.10	75.50	72.42
39.00	27.60	23.31

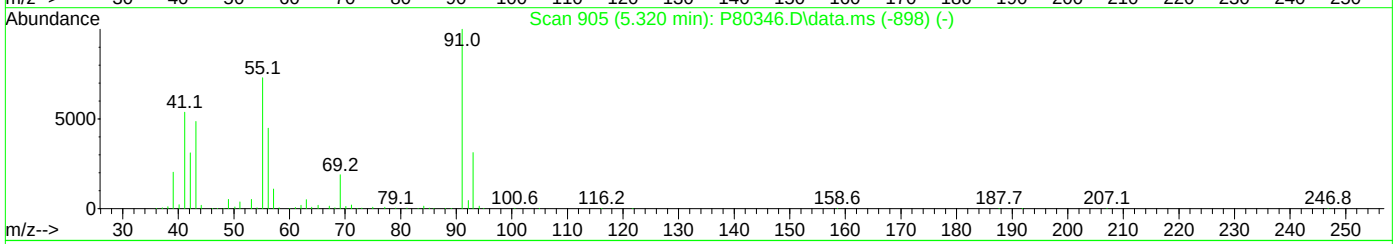
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(76) 1-Chlorohexane

5.964min (+0.000) 16.02ug/L

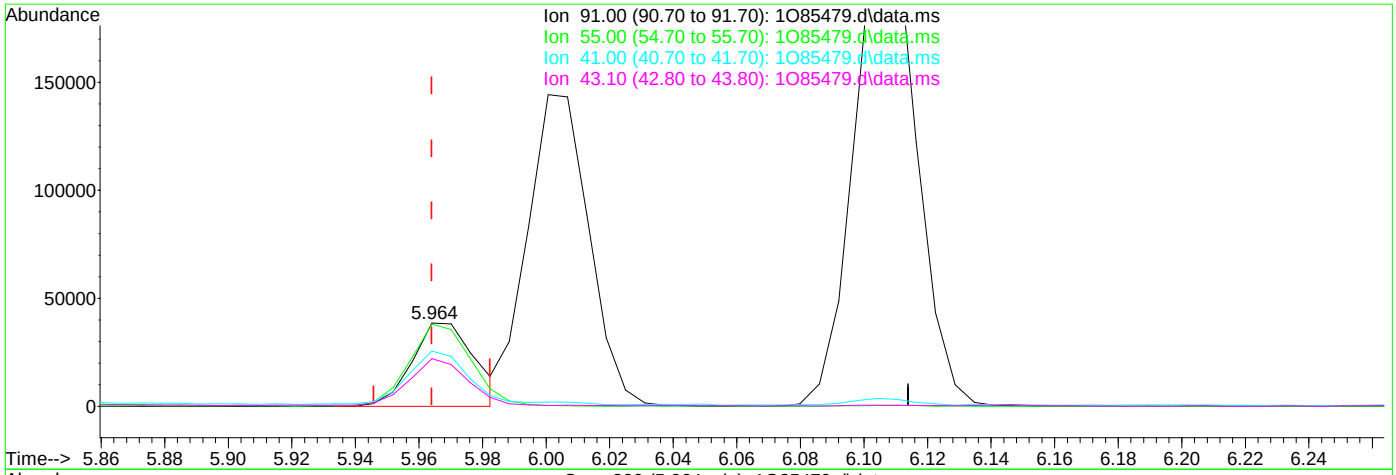
response 36023

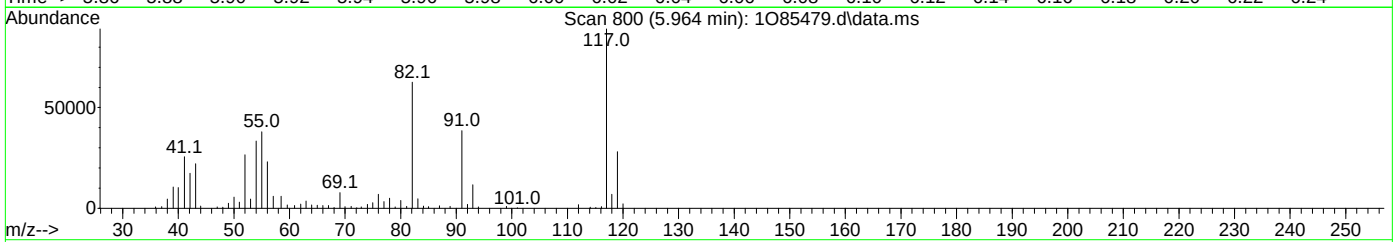
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	97.22
41.00	70.80	62.79
43.10	55.10	55.18

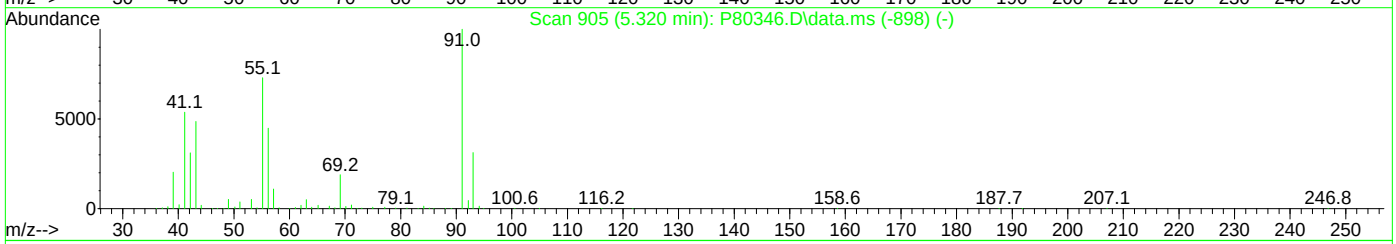
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(76) 1-Chlorohexane

5.964min (+0.000) 23.49ug/L m

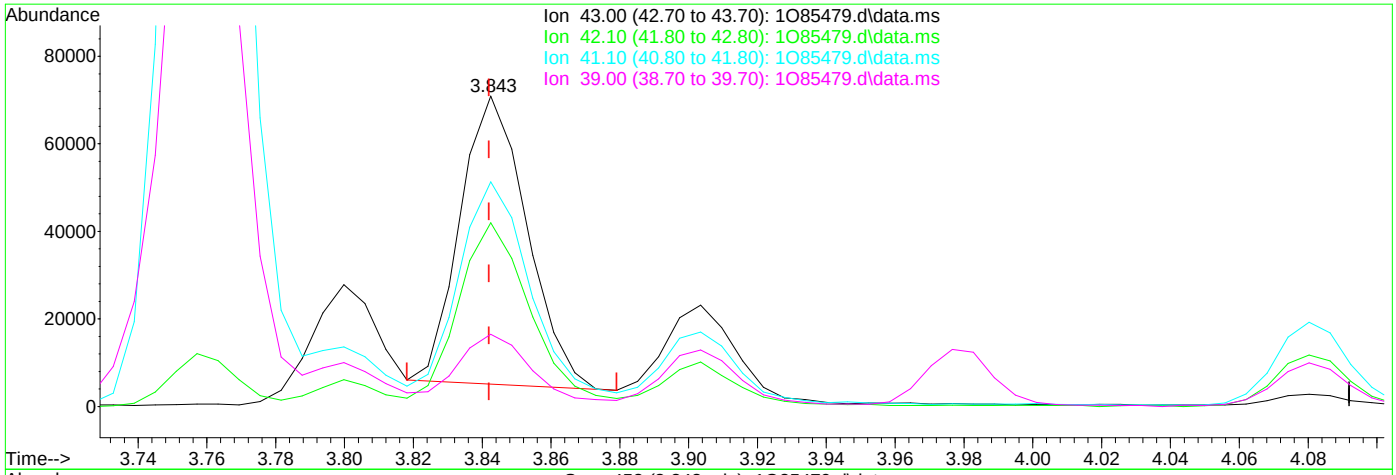
response 52810

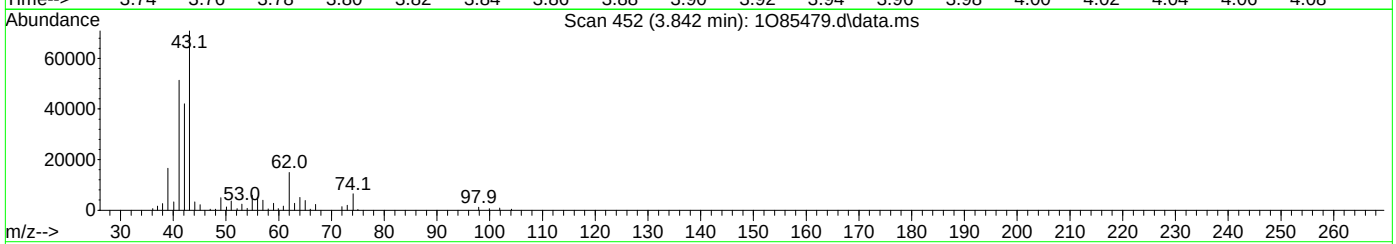
Ion	Exp%	Act%
91.00	100	100
55.00	90.70	98.73
41.00	70.80	66.40
43.10	55.10	57.45

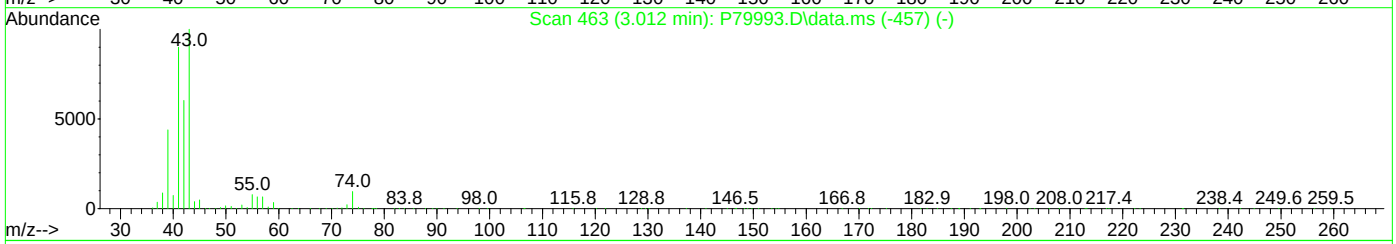
Quantitation Report (Qedit)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\V1O3089\
Data File : 1O85479.d
Acq On : 1 Jul 2024 7:47 pm
Operator : jeniferw
Sample : ECC3054-4 Inst : MSVOA12-O
Misc : MS56946,V1O3089,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 09:32:11 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\7-2\V1O3089\method\V1O3054_06022024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Sun Jun 02 14:43:01 2024
Response via : Initial Calibration







TIC: 1O85479.d\data.ms

(49) Isobutyl alcohol

3.842min (+0.000) 442.73ug/L

response 88403

Ion	Exp%	Act%
43.00	100	100
42.10	59.20	59.79
41.10	75.50	71.75
39.00	27.60	22.56

1O85479.D edits: Isobutyl alcohol

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	297436	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	232430	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	132984	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	88270	49.91	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.82%				
49) 1,2-Dichloroethane-d4	3.235	65	104178	63.53	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 127.06%#				
63) Toluene-d8	4.336	98	309511	53.19	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.38%				
86) 4-Bromofluorobenzene	6.229	174	105196	49.60	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	1640	1.08	ug/L		95
3) Chloromethane	1.134	50	2361	1.74	ug/L		99
4) 1,3-butadiene	1.188	39	3598	4.81	ug/L	#	73
5) Vinyl Chloride	1.180	62	2090	1.90	ug/L		100
6) Bromomethane	1.350	94	1508	3.30	ug/L		87
7) Chloroethane	1.419	64	1669	2.72	ug/L		79
8) Trichlorofluoromethane	1.503	101	2335	1.21	ug/L		95
9) Ethyl Ether	1.657	59	1332	1.54	ug/L		90
11) 1,2-Dichlorotrifluoroe...	1.750	67	1844	2.01	ug/L		88
12) 1,1-Dichloroethene	1.765	61	2657	1.58	ug/L		82
13) Freon 113	1.788	101	1273	0.89	ug/L	#	77
14) Carbon Disulfide	1.788	76	5711	1.50	ug/L		79
15) Iodomethane	1.834	142	526m	0.61	ug/L		
16) Acrolein	1.911	56	1391	5.99	ug/L		91
17) Allyl chloride	1.996	41	3161	2.42	ug/L		80
18) Methylene Chloride	2.050	49	4632	3.37	ug/L	#	72
19) Acetone	2.058	43	3277	9.10	ug/L		82
20) Methyl acetate	2.127	43	8080	8.54	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	2870	1.73	ug/L		82
22) Hexane	2.204	56	1341	1.19	ug/L	#	81
23) Methyl Tert Butyl Ether	2.196	73	4066	1.22	ug/L		90
24) Acetonitrile	2.273	41	2643	18.89	ug/L		95
25) Tert Butyl Alcohol	2.212	59	2490	14.08	ug/L		59
26) Di-isopropyl ether	2.396	45	5274	1.99	ug/L		91
27) Chloroprene	2.442	53	6727	1.61	ug/L		94
28) 1,1-Dichloroethane	2.442	63	3614	1.65	ug/L		93
29) Acrylonitrile	2.442	52	3921	7.91	ug/L		95
30) ETBE	2.581	59	4358	1.36	ug/L		89
31) Vinyl acetate	2.566	43	15264	8.17	ug/L		99
32) cis-1,2-Dichloroethene	2.719	96	2490	1.54	ug/L	#	78
33) 2,2-Dichloropropane	2.781	77	3025	1.75	ug/L		95
34) Bromochloromethane	2.827	128	893	0.96	ug/L	#	69
35) Cyclohexane	2.858	56	2686	1.37	ug/L	#	73
36) Chloroform	2.858	83	3966	1.58	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	2.920	43	9386	8.66	ug/L		90
40) Carbon Tetrachloride	2.966	117	2583m	1.12	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	3287	1.44	ug/L		91
42) 2-Butanone	3.004	43	4685	8.04	ug/L		83
43) 1,1-Dichloropropene	3.058	75	2350	1.44	ug/L		83
44) tert-Butyl formate	3.097	59	5213	5.52	ug/L		94
45) Propionitrile	3.143	54	3105	14.01	ug/L		91
46) Methacrylonitrile	3.166	41	10528	15.73	ug/L		89
47) Benzene	3.181	78	7458	1.44	ug/L		94
48) TAME	3.251	73	4033	1.30	ug/L		95
50) 1,2-Dichloroethane	3.274	62	2448	1.47	ug/L		98
51) Isobutyl Alcohol	3.251	43	3183	33.86	ug/L		68
52) Tert Amyl Alcohol	3.320	59	1813	12.89	ug/L		82
53) Trichloroethene	3.512	95	1911	1.26	ug/L		90
54) Methylcyclohexane	3.528	83	2627	1.09	ug/L	#	73
55) Dibromomethane	3.735	93	1087	1.20	ug/L		88
56) 1,2-Dichloropropane	3.789	63	1767	1.54	ug/L		88
57) Bromodichloromethane	3.828	83	2480	1.40	ug/L	#	97
58) Methyl methacrylate	3.920	41	1438	1.77	ug/L	#	69
59) 1,4-Dioxane	3.943	88	116m	7.43	ug/L		
60) 2-Chloroethyl vinyl ether	4.166	63	5113	7.04	ug/L		85
61) cis-1,3-Dichloropropene	4.205	75	2368	1.26	ug/L		75
64) Toluene	4.367	91	8453	1.49	ug/L		99
65) 2-Nitropropane	4.467	41	2839	9.98	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	10387	9.77	ug/L		84
67) trans-1,3-Dichloropropene	4.613	75	2316	1.39	ug/L		81
68) Tetrachloroethene	4.628	166	1941	0.94	ug/L		85
69) Ethyl methacrylate	4.728	69	2089	1.47	ug/L		78
70) 1,1,2-Trichloroethane	4.713	83	1588	1.66	ug/L		93
71) Dibromochloromethane	4.836	129	1550	0.97	ug/L		85
72) 1,3-Dichloropropane	4.890	76	2082	1.18	ug/L		83
73) 1,2-Dibromoethane	4.990	107	1471	1.06	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	13057	80.58	ug/L		92
75) 2-hexanone	5.136	43	9719	9.31	ug/L		78
76) 1-Chlorohexane	5.359	91	3228m	1.58	ug/L		
77) Ethylbenzene	5.390	91	9767m	1.54	ug/L		
78) Chlorobenzene	5.359	112	5206	1.27	ug/L		74
79) 1,1,1,2-Tetrachloroethane	5.406	131	1574	1.05	ug/L		82
80) m,p-Xylene	5.498	91	15825	3.05	ug/L		91
81) o-Xylene	5.798	91	8011	1.51	ug/L		90
82) Styrene	5.829	104	5502	1.35	ug/L		86
83) Bromoform	5.837	173	1103	0.86	ug/L		93
84) Isopropylbenzene	6.037	105	9505	1.40	ug/L		94
87) cis-1,4-Dichloro-2-butene	6.260	53	677m	1.75	ug/L		
88) n-Propylbenzene	6.344	91	12193	1.89	ug/L		90
89) Bromobenzene	6.298	156	2131	1.24	ug/L	#	61
90) 1,1,2,2-Tetrachloroethane	6.368	83	2595	1.79	ug/L		93
91) 1,3,5-Trimethylbenzene	6.498	105	7953	1.63	ug/L		95
92) 2-Chlorotoluene	6.452	91	6478	1.73	ug/L		92
93) trans-1,4-Dichloro-2-B...	6.506	53	981	2.15	ug/L	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

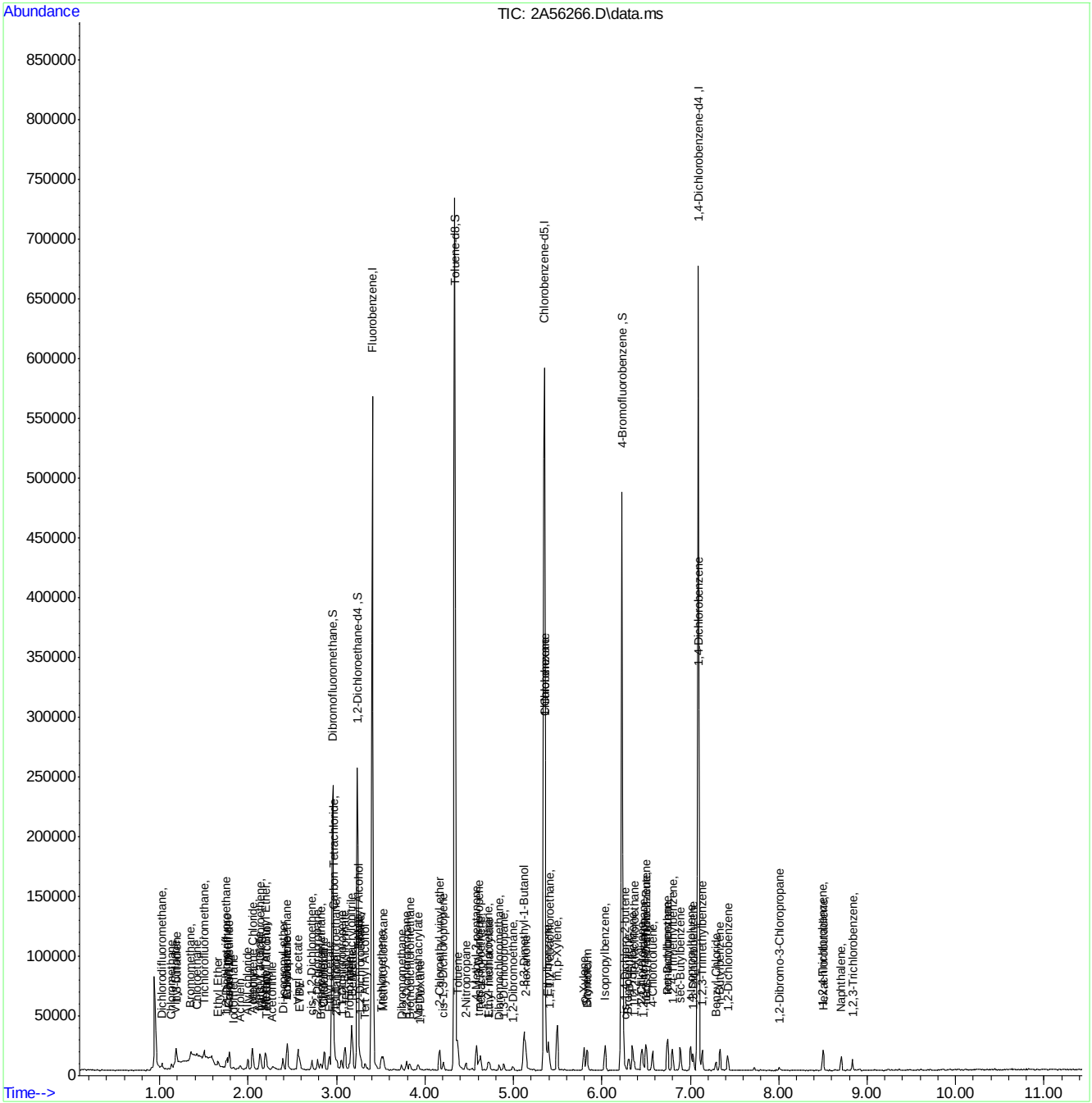
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	1,2,3-Trichloropropane	6.468	110	567m	1.18	ug/L		
96)	4-Chlorotoluene	6.575	91	6893	1.73	ug/L		88
97)	tert-Butylbenzene	6.745	91	4910	1.86	ug/L		83
98)	1,2,4-Trimethylbenzene	6.799	105	7296	1.42	ug/L		97
99)	Pentachloroethane	6.745	167	1018	0.99	ug/L	#	25
100)	sec-Butylbenzene	6.883	105	10341	1.64	ug/L		94
101)	4-Isopropyltoluene	7.006	119	8890	1.64	ug/L		94
102)	1,3-Dichlorobenzene	7.029	146	4125	1.22	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	6702	1.41	ug/L		99
104)	1,4-Dichlorobenzene	7.099	146	4179m	1.23	ug/L		
105)	n-Butylbenzene	7.337	92	3861	1.59	ug/L		91
106)	Benzyl Chloride	7.291	126	719m	1.05	ug/L		
107)	1,2-Dichlorobenzene	7.422	146	3415	1.14	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	8.007	75	421m	1.44	ug/L		
109)	Hexachlorobutadiene	8.507	225	1156	1.09	ug/L		88
110)	1,2,4-Trichlorobenzene	8.499	180	2195	1.10	ug/L		87
111)	Naphthalene	8.707	128	5670	1.29	ug/L		98
112)	1,2,3-Trichlorobenzene	8.838	180	1947	1.06	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:46 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

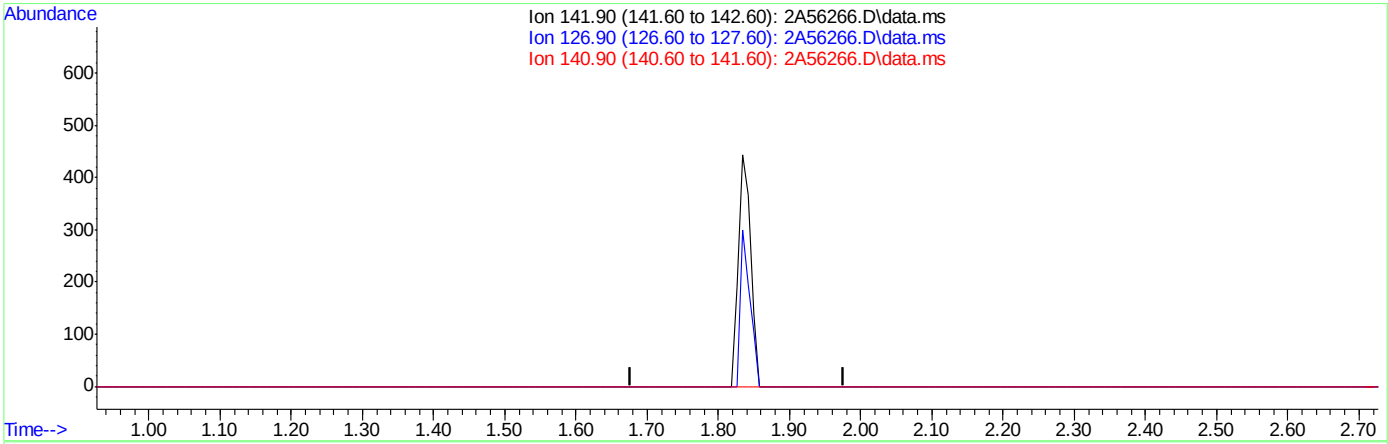
Sample Number: V2A1910-IC1910
Lab FileID: 2A56266.D
Injection Time: 06/25/24 08:07
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

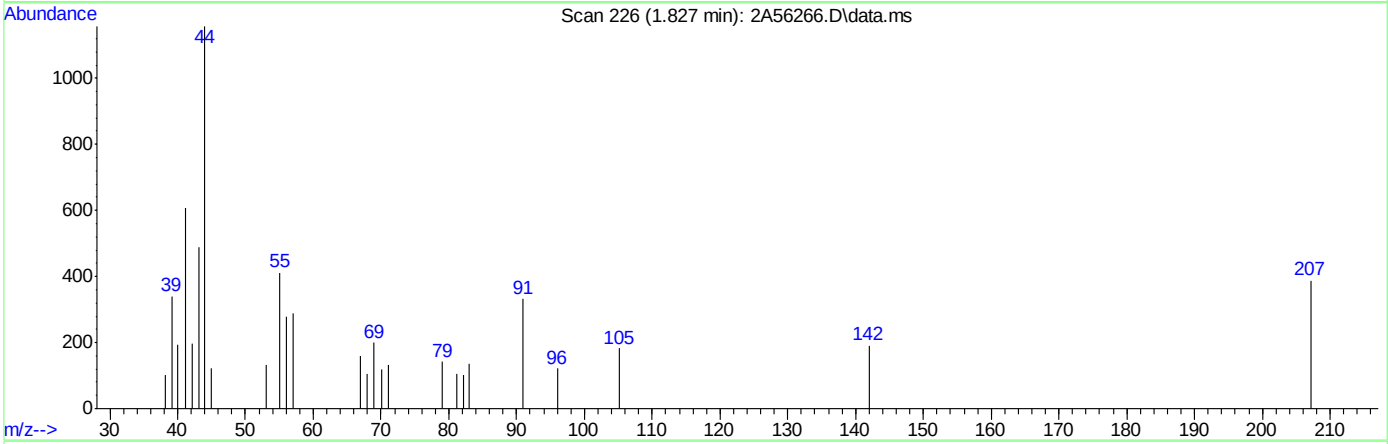
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Iodide	74-88-4		1.83	Missed peak
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1,4-Dioxane	123-91-1		3.94	Missed peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline
cis-1,4-Dichloro-2-Butene	1476-11-5		6.26	Missed peak
1,2,3-Trichloropropane	96-18-4		6.47	Missed peak
1,4-Dichlorobenzene	106-46-7		7.10	Missed peak
Benzyl Chloride	100-44-7		7.29	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.01	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(15) Iodomethane

1.827min (-1.827) 0.00ug/L

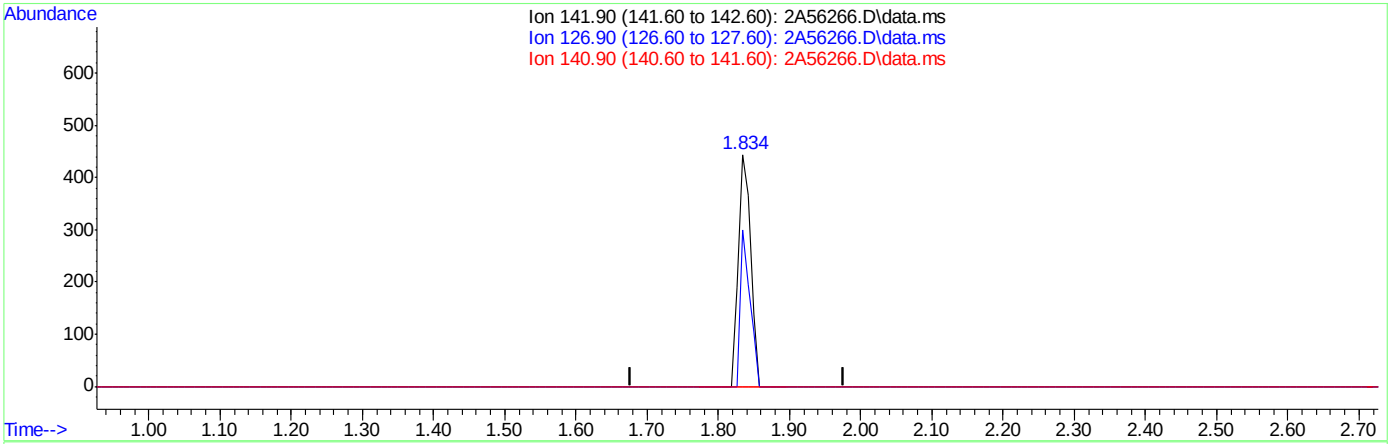
response 0

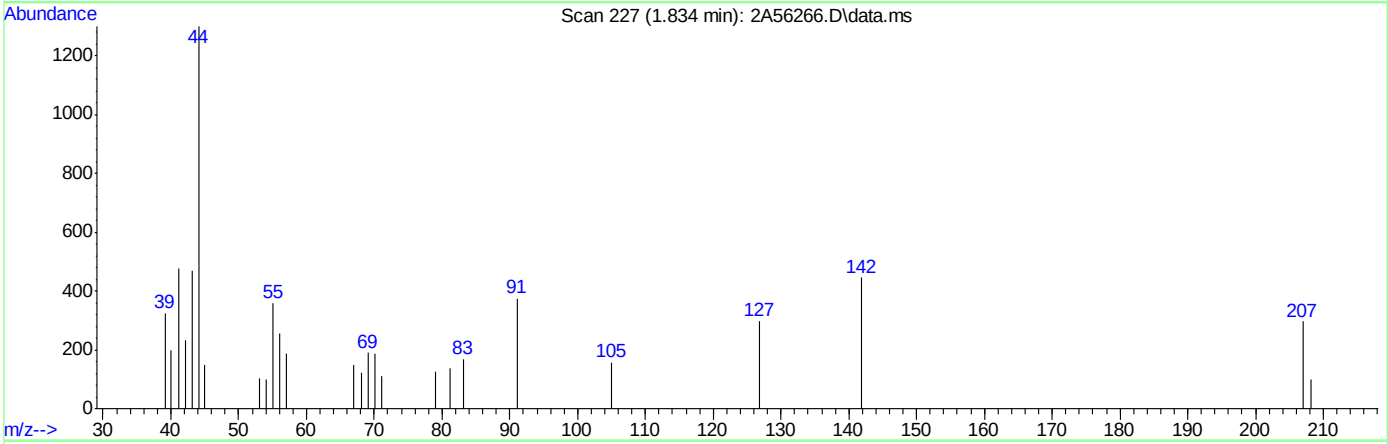
Ion	Exp%	Act%
141.90	100	0.00
126.90	37.10	0.00#
140.90	14.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(15) Iodomethane

1.834min (+0.007) 0.61ug/L m

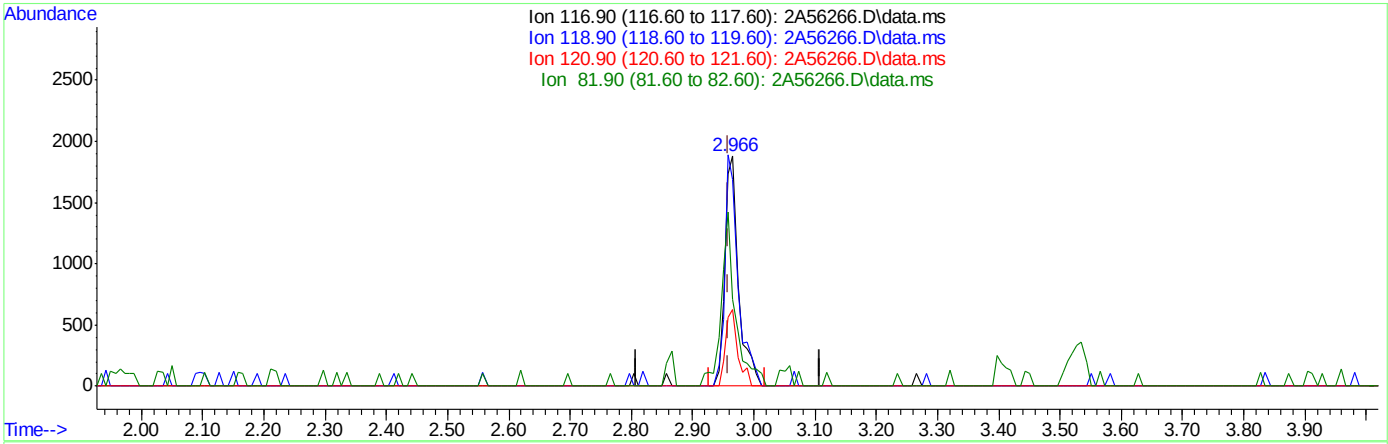
response 526

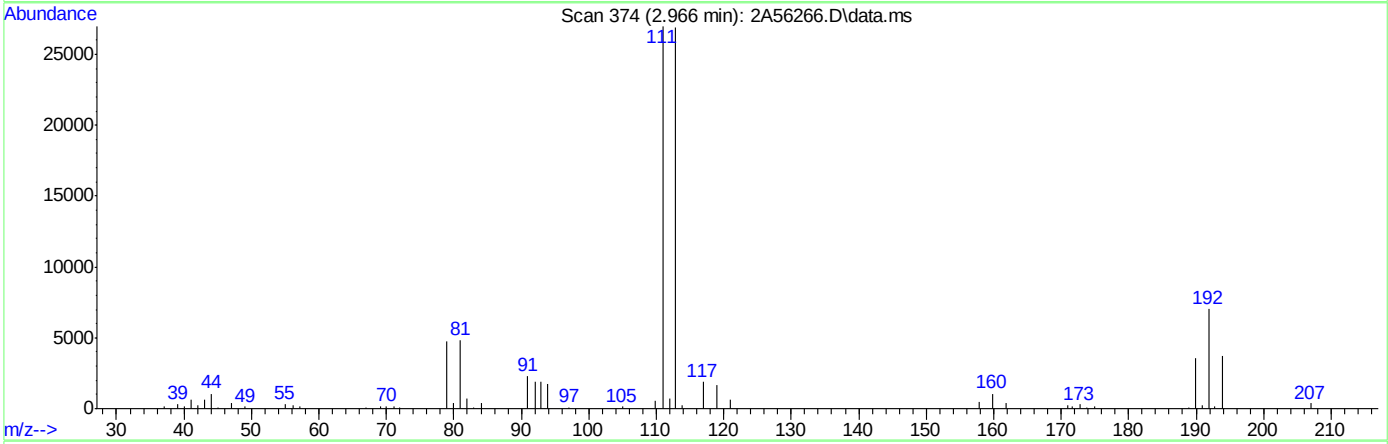
Ion	Exp%	Act%
141.90	100	100
126.90	37.10	67.34#
140.90	14.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 1.25ug/L

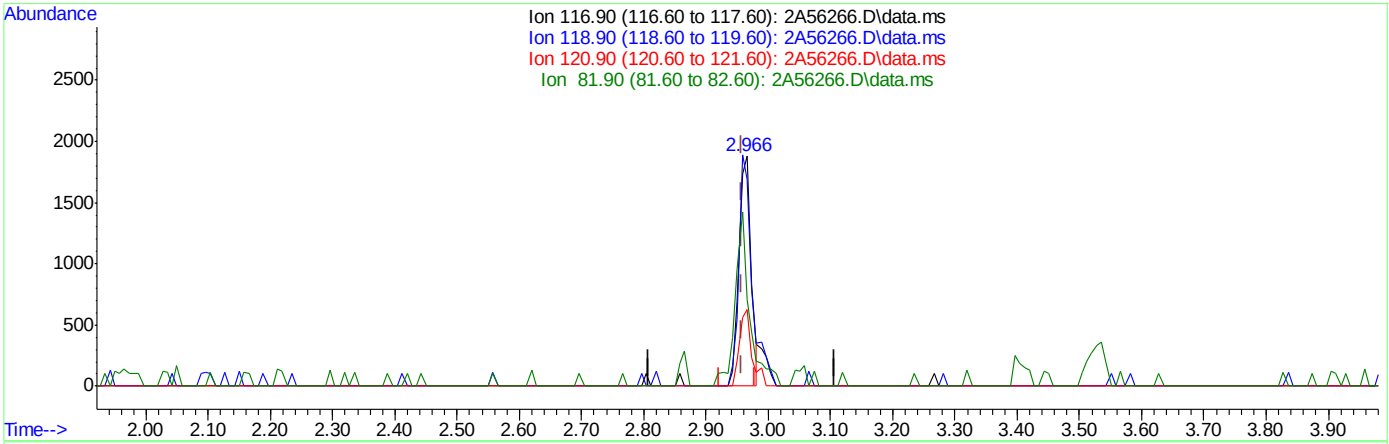
response 2884

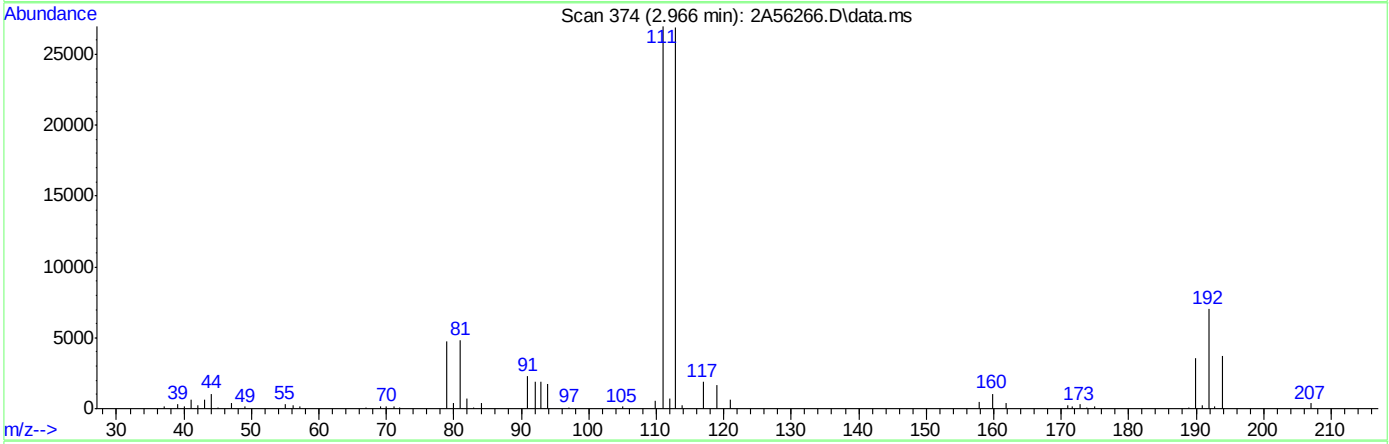
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	89.89
120.90	31.00	33.14
81.90	19.00	37.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 1.12ug/L m

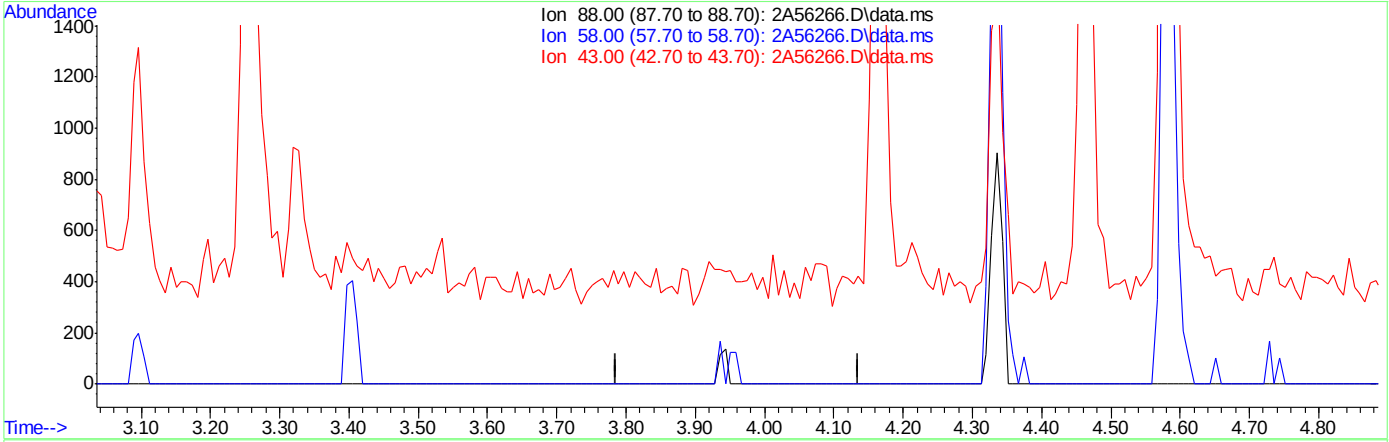
response 2583

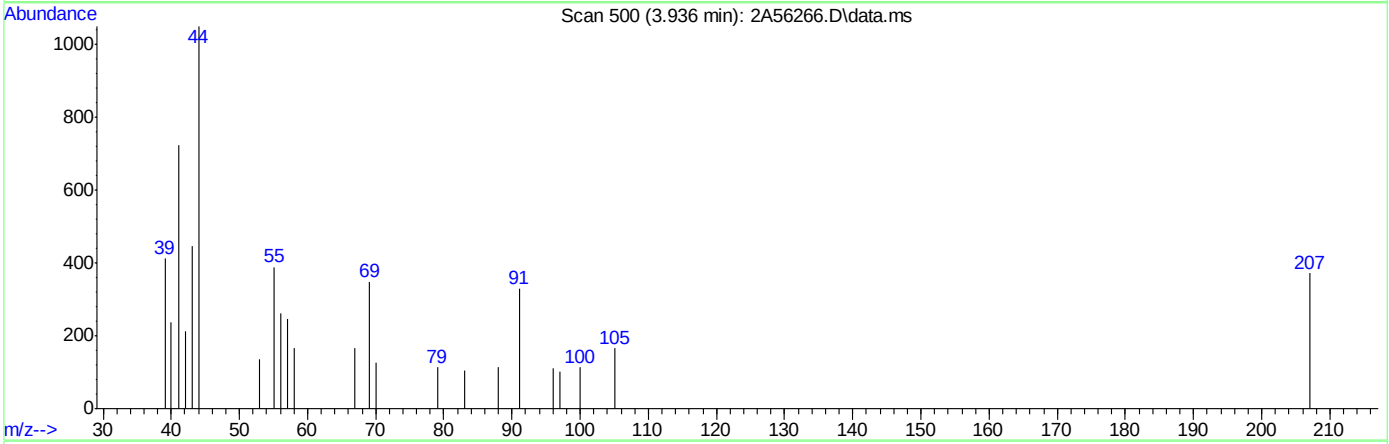
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	89.89
120.90	31.00	33.14
81.90	19.00	37.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(59) 1,4-Dioxane

3.936min (-3.936) 0.00ug/L

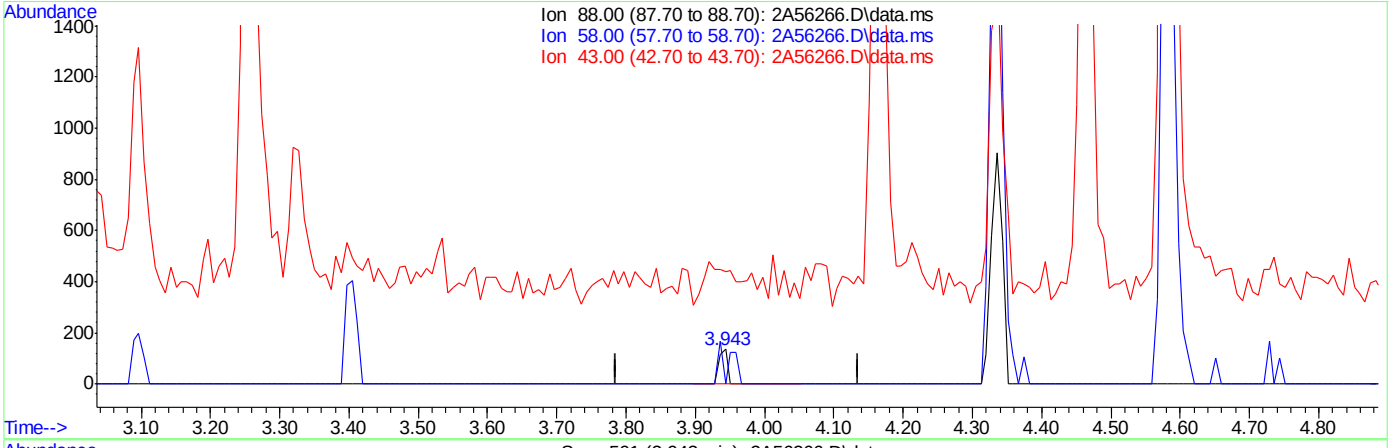
response 0

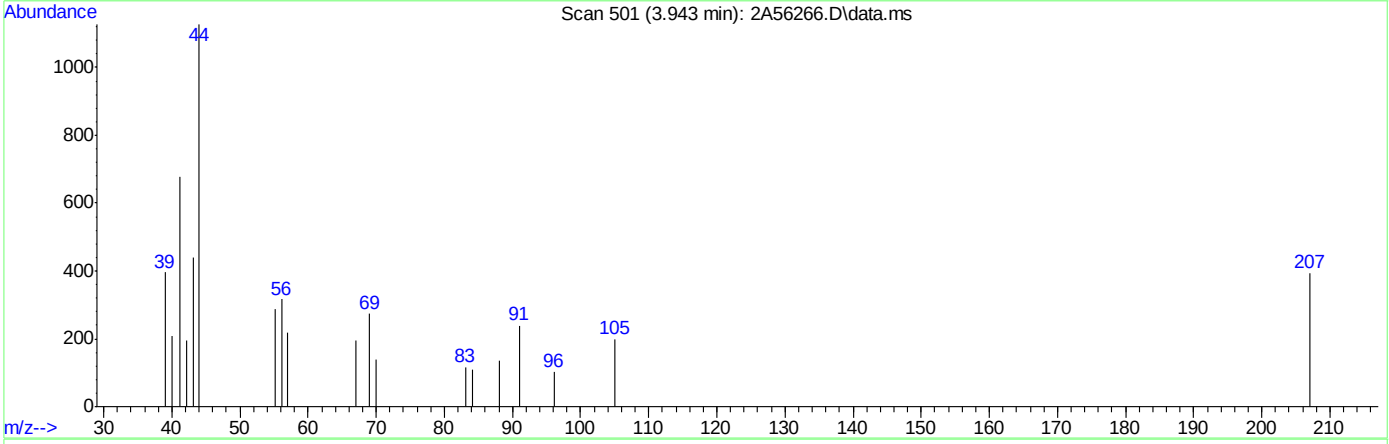
Ion	Exp%	Act%
88.00	100	0.00
58.00	63.50	0.00#
43.00	19.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(59) 1,4-Dioxane

3.943min (+0.007) 7.43ug/L m

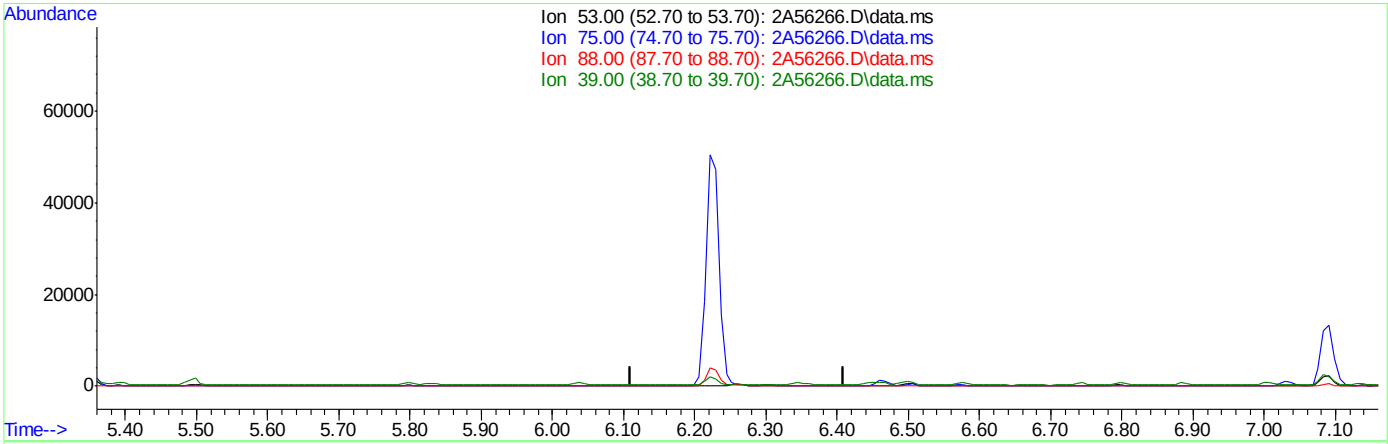
response 116

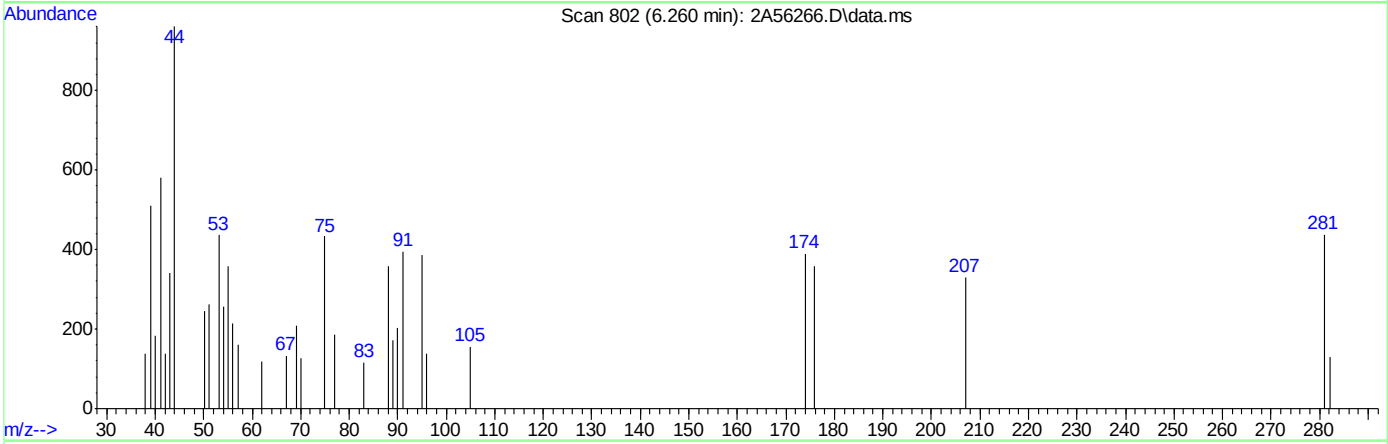
Ion	Exp%	Act%
88.00	100	100
58.00	63.50	0.00#
43.00	19.40	324.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.260min (-6.260) 0.00ug/L

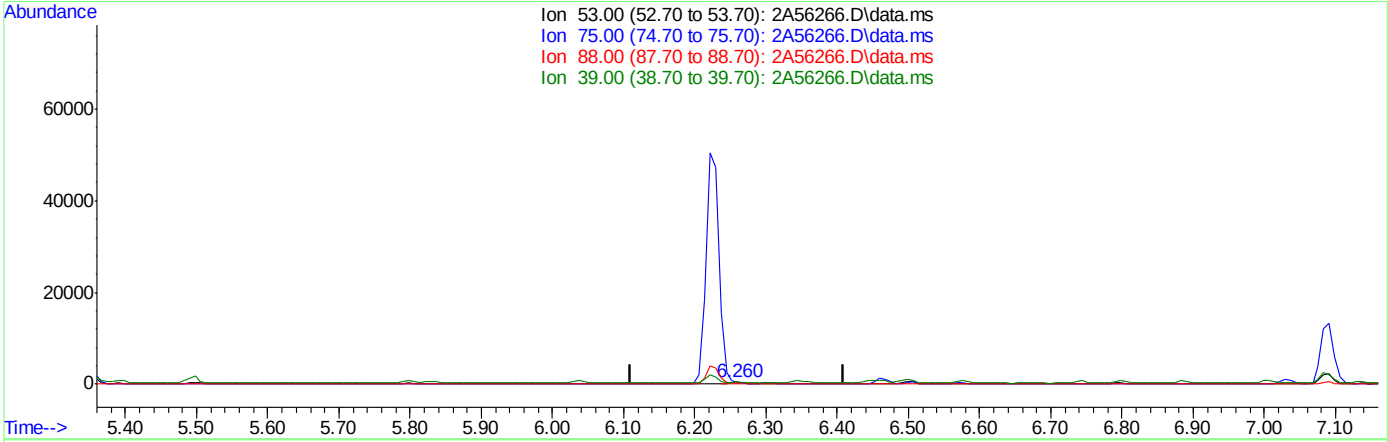
response 0

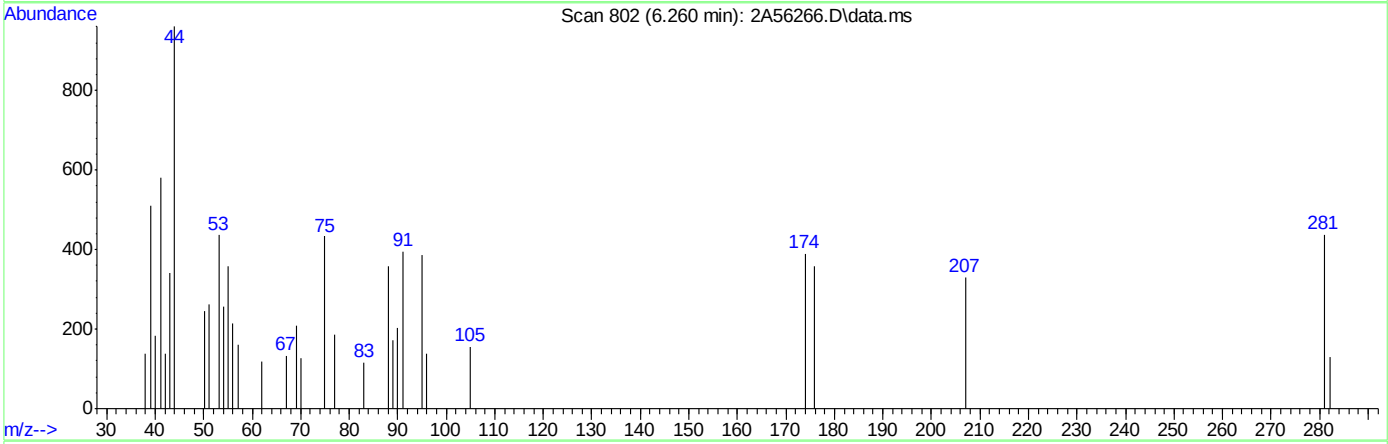
Ion	Exp%	Act%
53.00	100	0.00
75.00	92.30	0.00#
88.00	133.60	0.00#
39.00	36.50	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(87) cis-1,4-Dichloro-2-butene

6.260min (-0.000) 1.75ug/L m

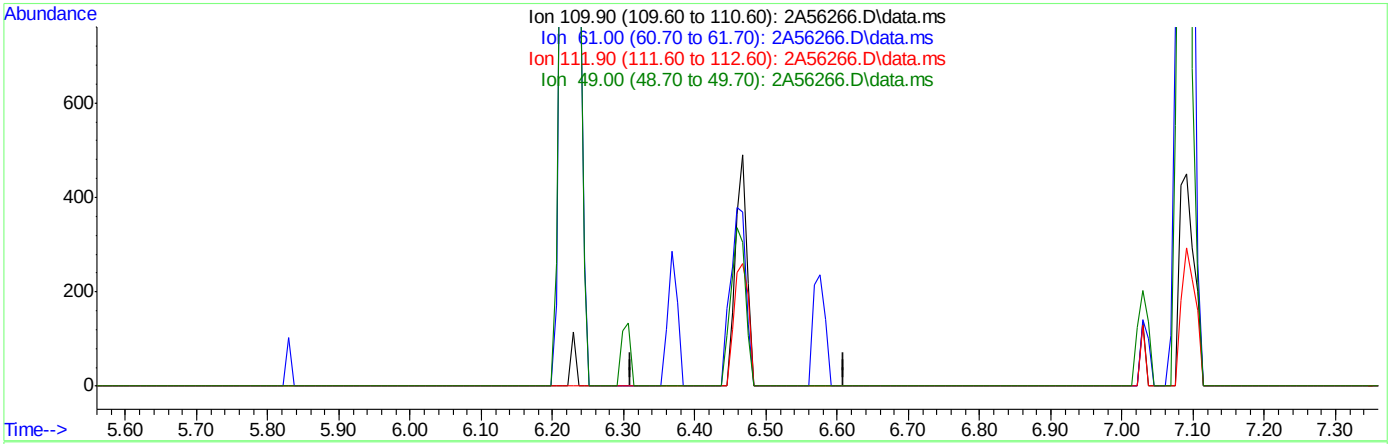
response 677

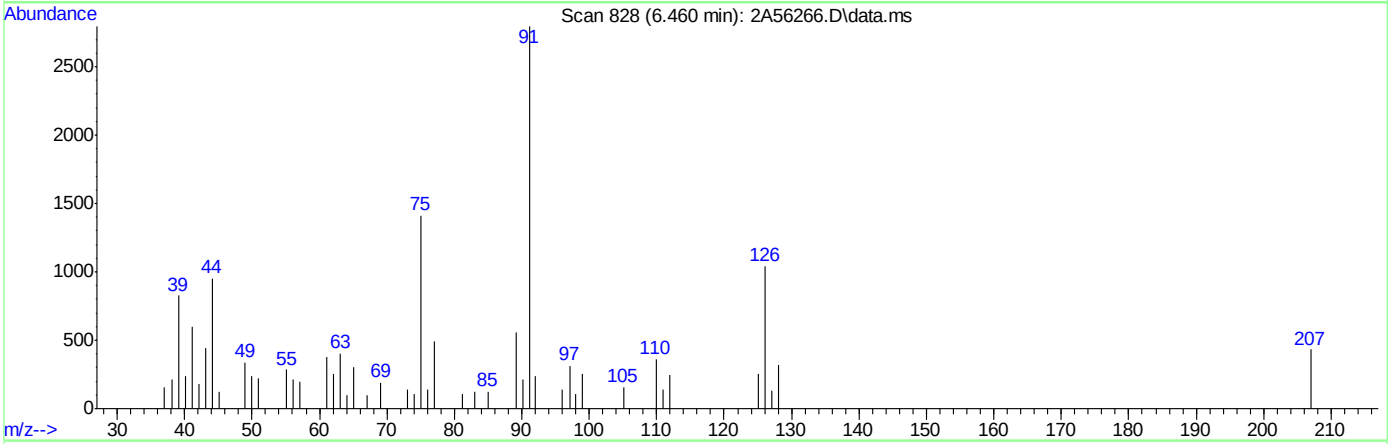
Ion	Exp%	Act%
53.00	100	100
75.00	92.30	99.31
88.00	133.60	82.34#
39.00	36.50	116.74#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-6.460) 0.00ug/L

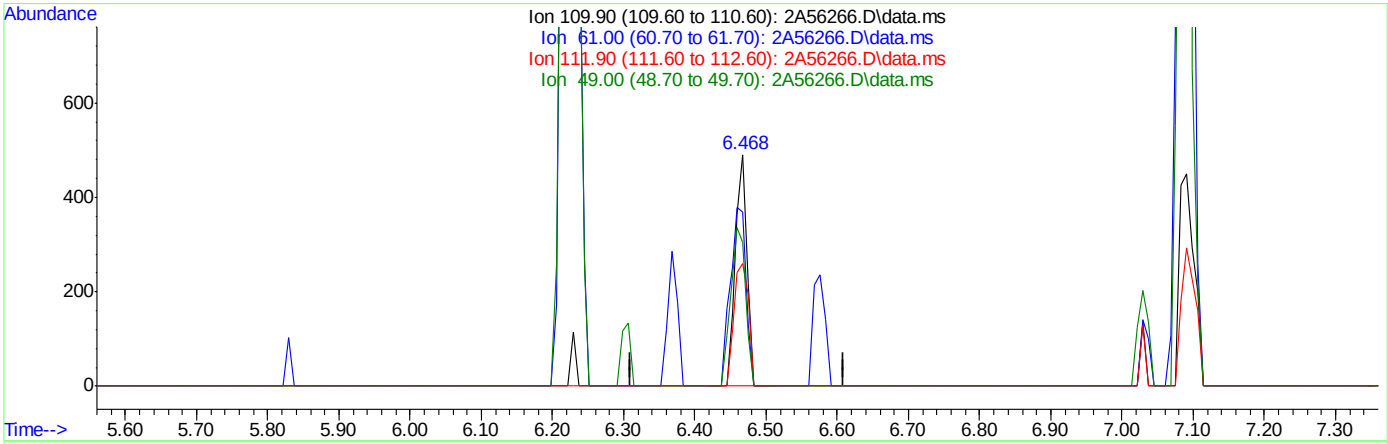
response 0

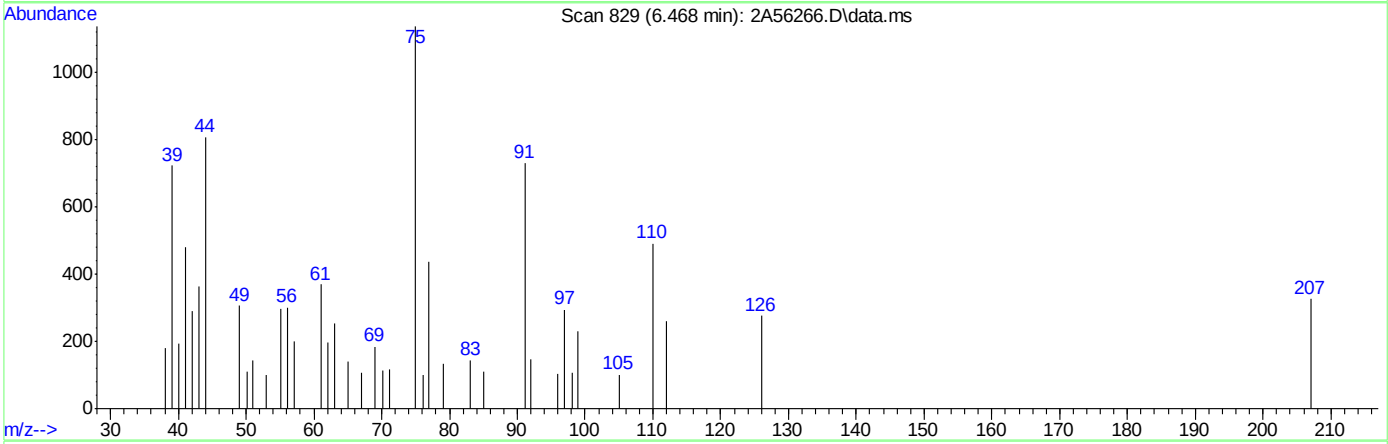
Ion	Exp%	Act%
109.90	100	0.00
61.00	51.70	0.00#
111.90	63.90	0.00#
49.00	36.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.468min (+0.008) 1.18ug/L m

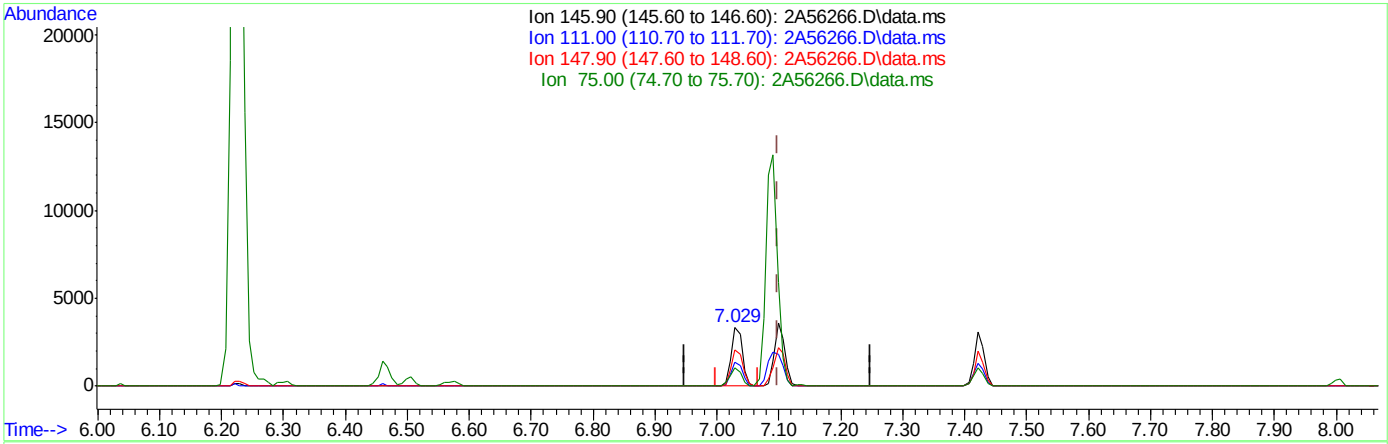
response 567

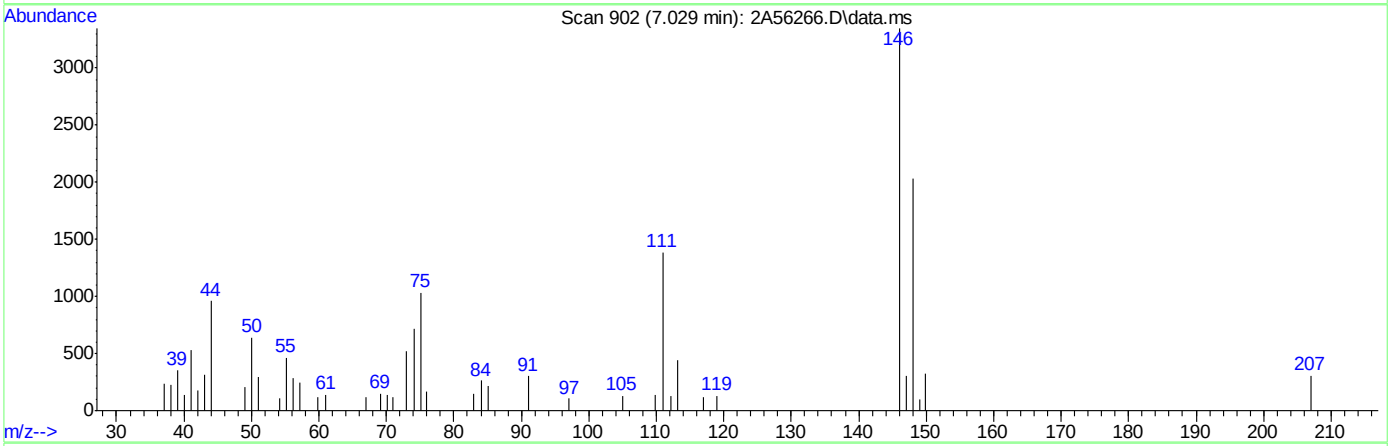
Ion	Exp%	Act%
109.90	100	100
61.00	51.70	75.15
111.90	63.90	53.16
49.00	36.30	62.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(104) 1,4-Dichlorobenzene

7.029min (-0.070) 1.21ug/L

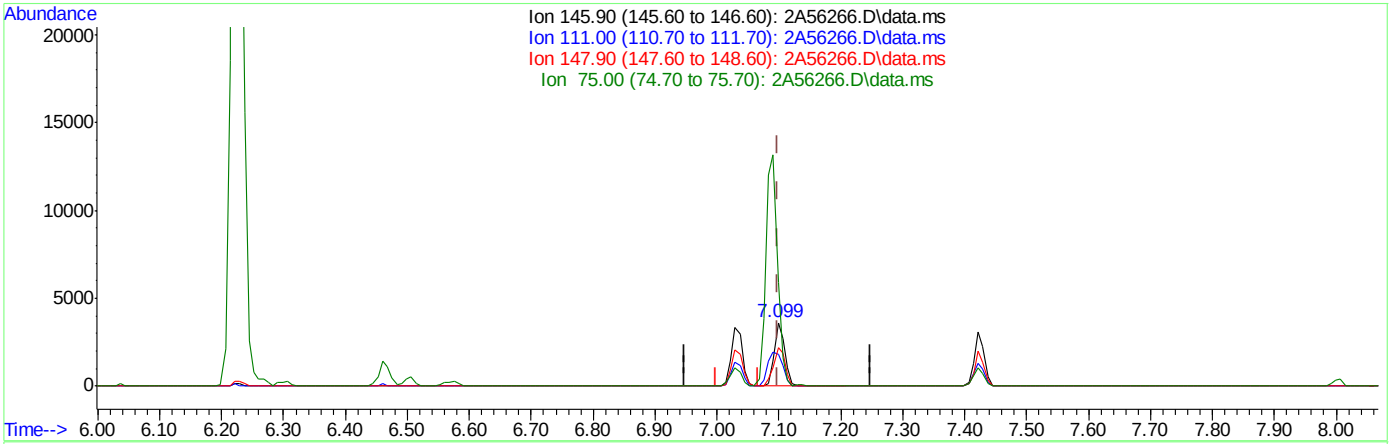
response 4125

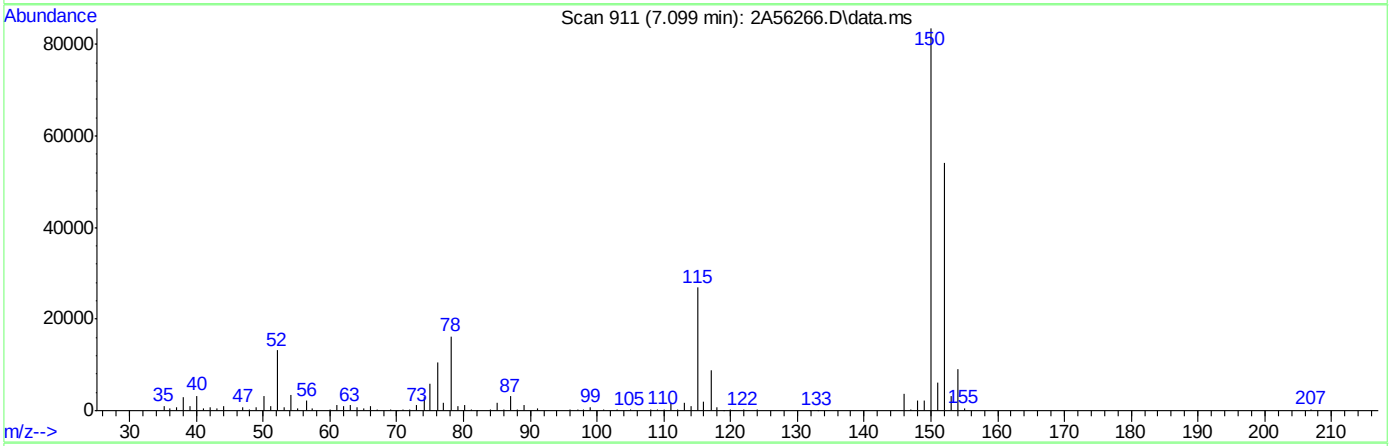
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	41.44
147.90	64.70	60.83
75.00	20.10	30.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(104) 1,4-Dichlorobenzene

7.099min (-0.000) 1.23ug/L m

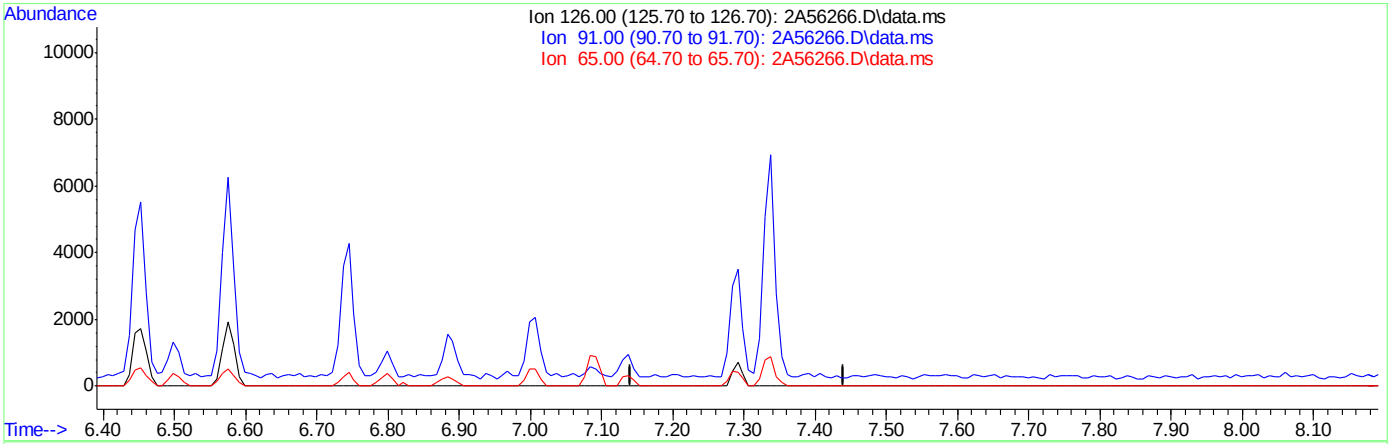
response 4179

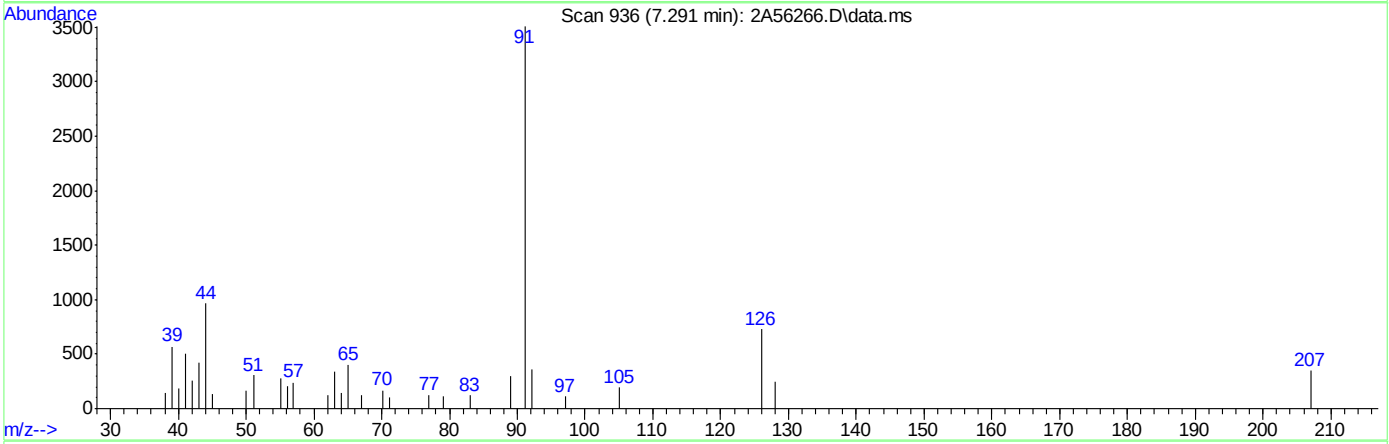
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	50.43
147.90	64.70	60.81
75.00	20.10	162.75#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(106) Benzyl Chloride

7.291min (-7.291) 0.00ug/L

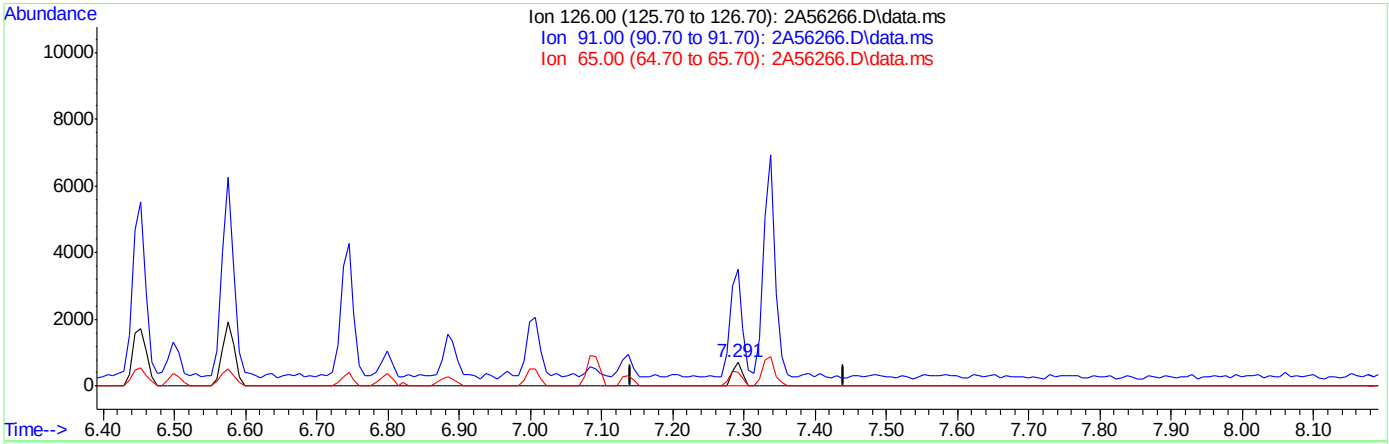
response 0

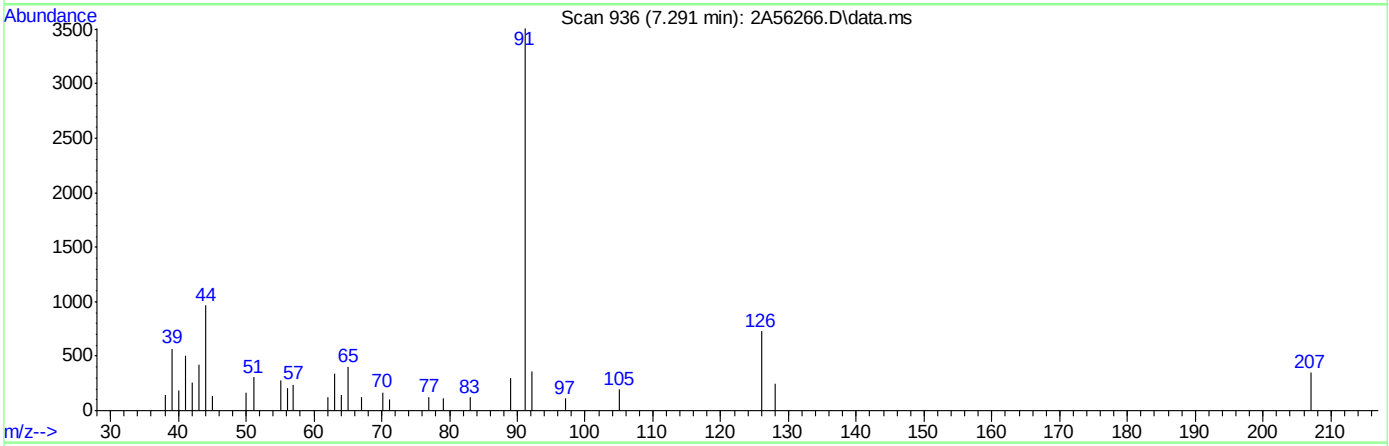
Ion	Exp%	Act%
126.00	100	0.00
91.00	412.40	0.00#
65.00	43.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(106) Benzyl Chloride

7.291min (+0.000) 1.05ug/L m

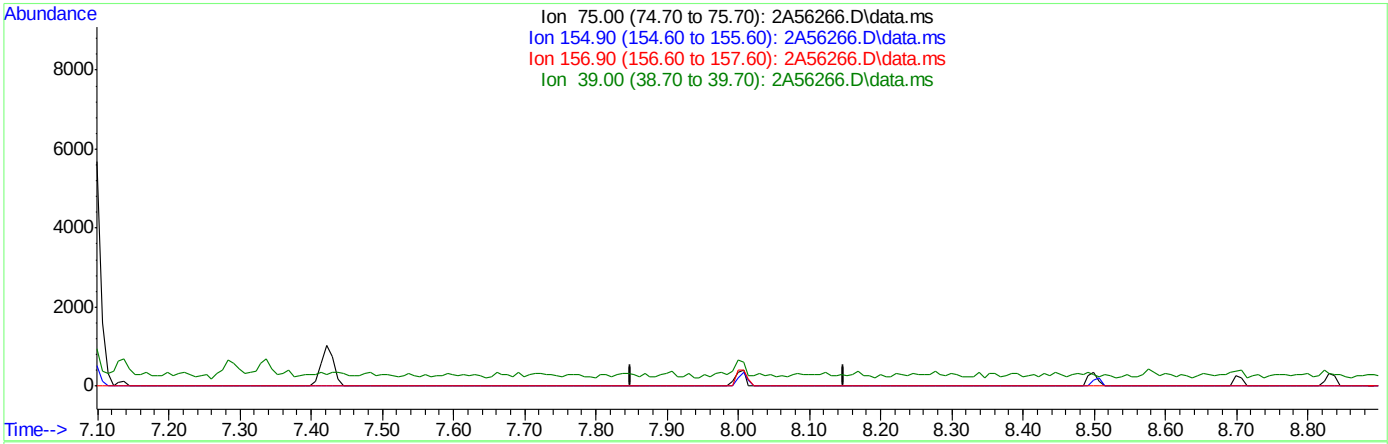
response 719

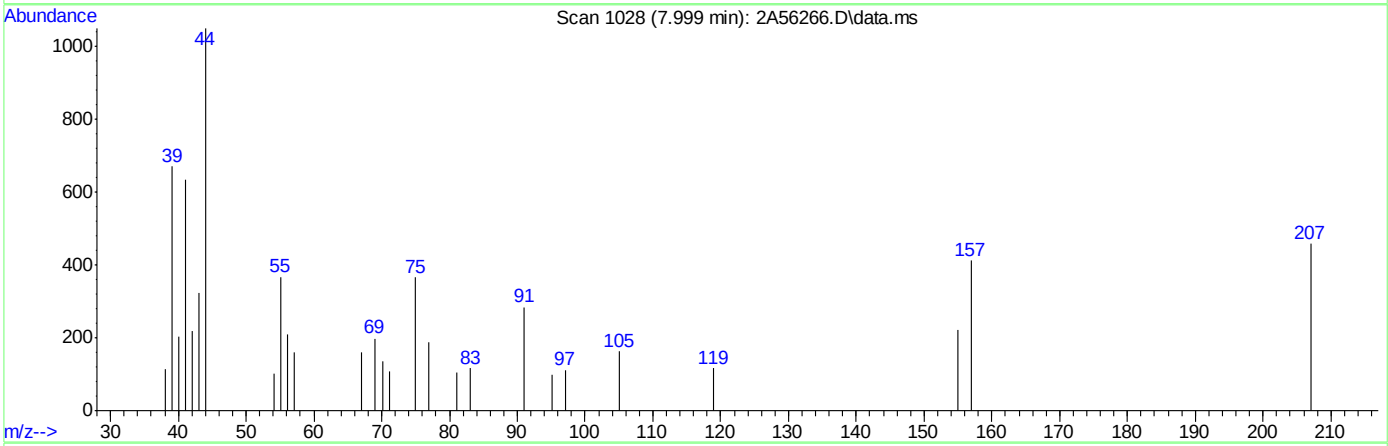
Ion	Exp%	Act%
126.00	100	100
91.00	412.40	480.55#
65.00	43.90	54.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (-7.999) 0.00ug/L

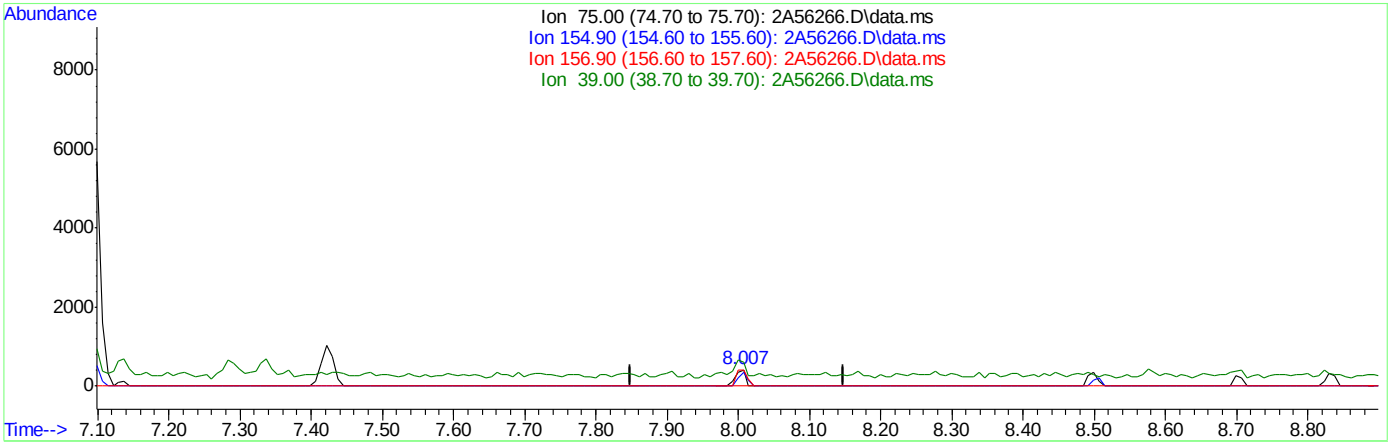
response 0

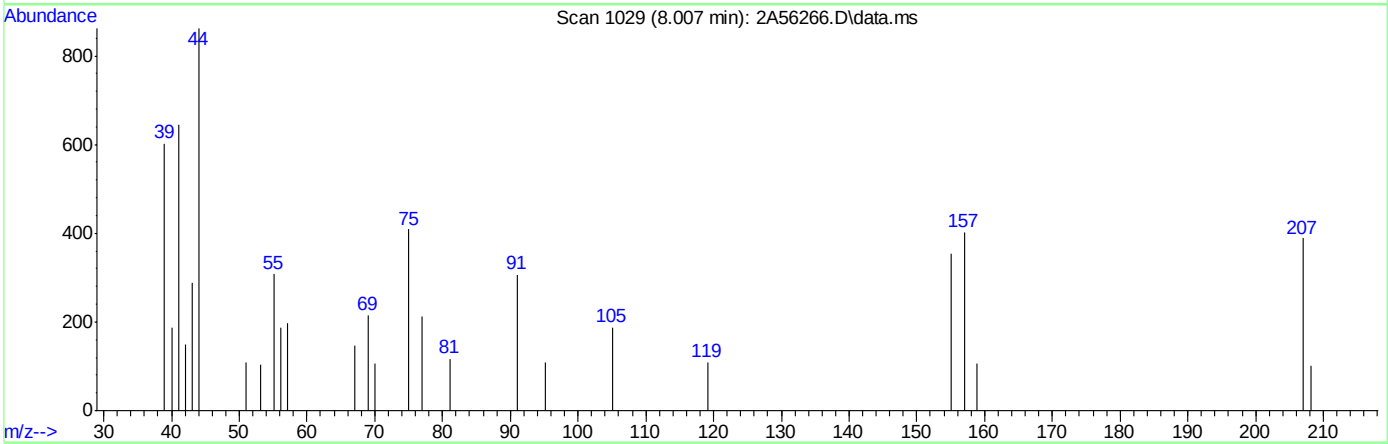
Ion	Exp%	Act%
75.00	100	0.00
154.90	144.40	0.00#
156.90	178.80	0.00#
39.00	47.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:23:15 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

8.007min (+0.008) 1.44ug/L m

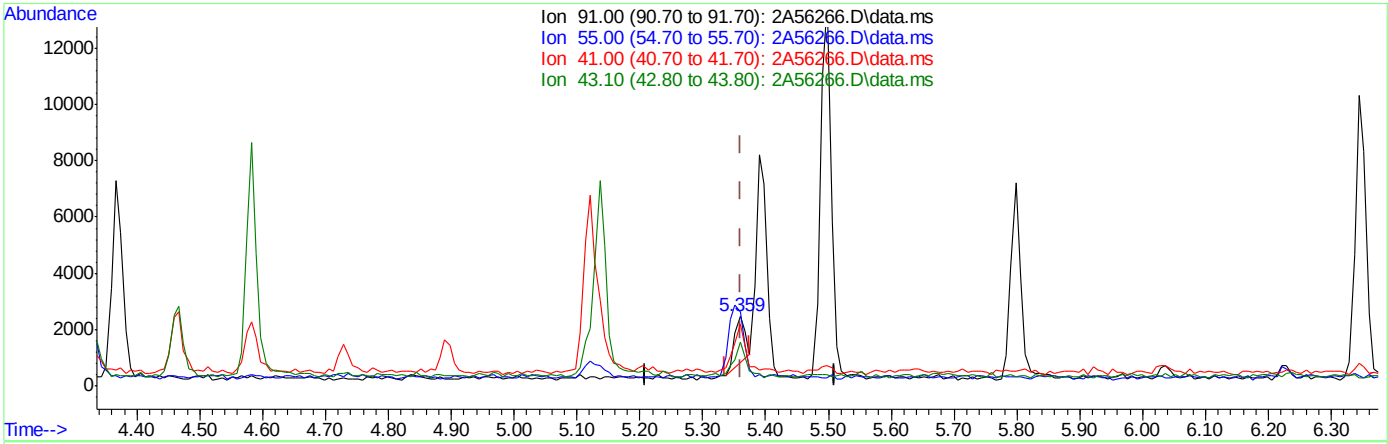
response 421

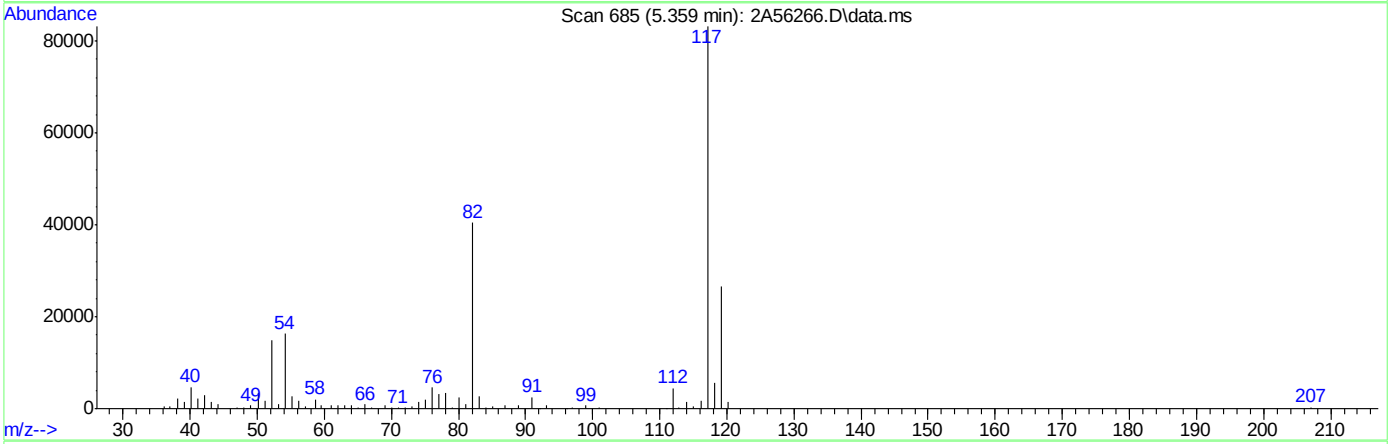
Ion	Exp%	Act%
75.00	100	100
154.90	144.40	86.55#
156.90	178.80	98.29#
39.00	47.20	147.19#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.01ug/L

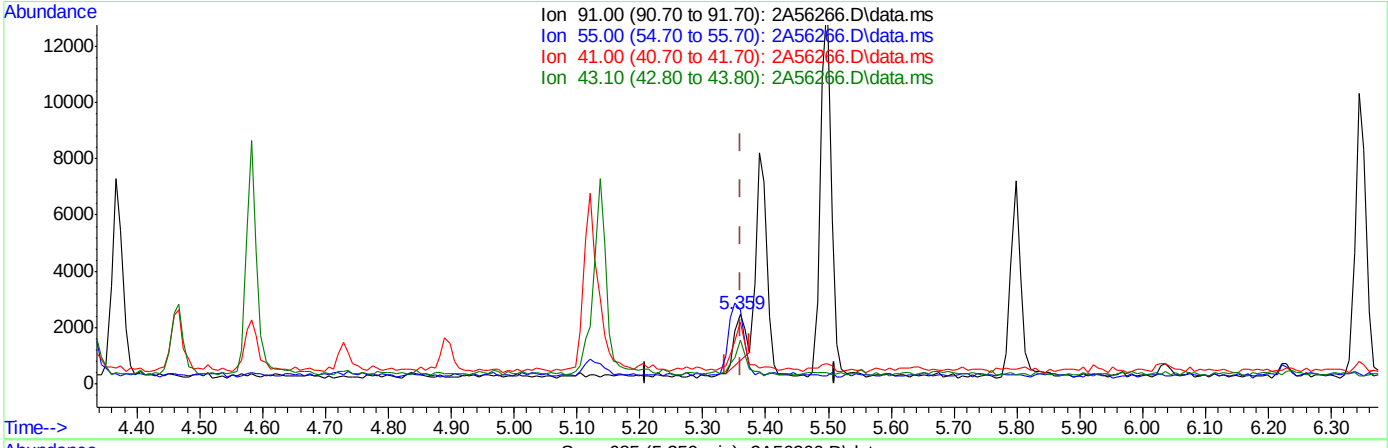
response 2074

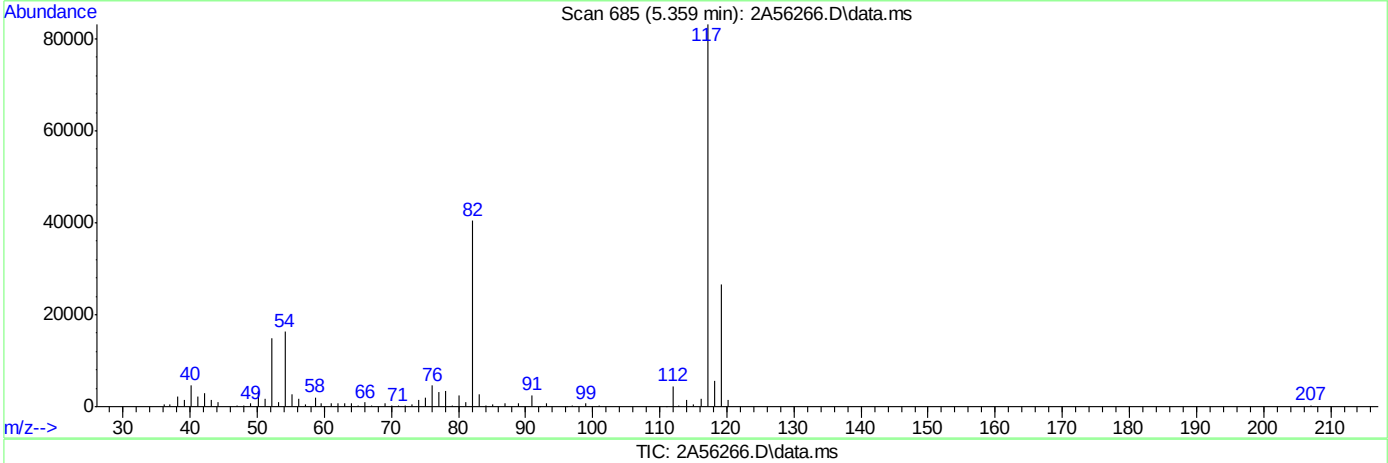
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	96.25#
41.00	39.20	72.27#
43.10	33.20	53.51#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.01ug/L

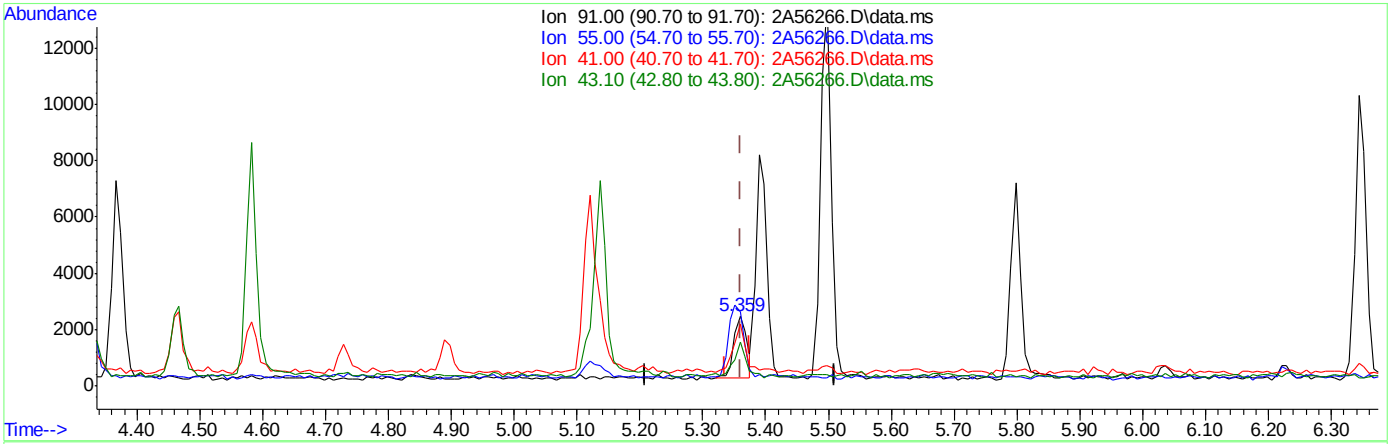
response 2074

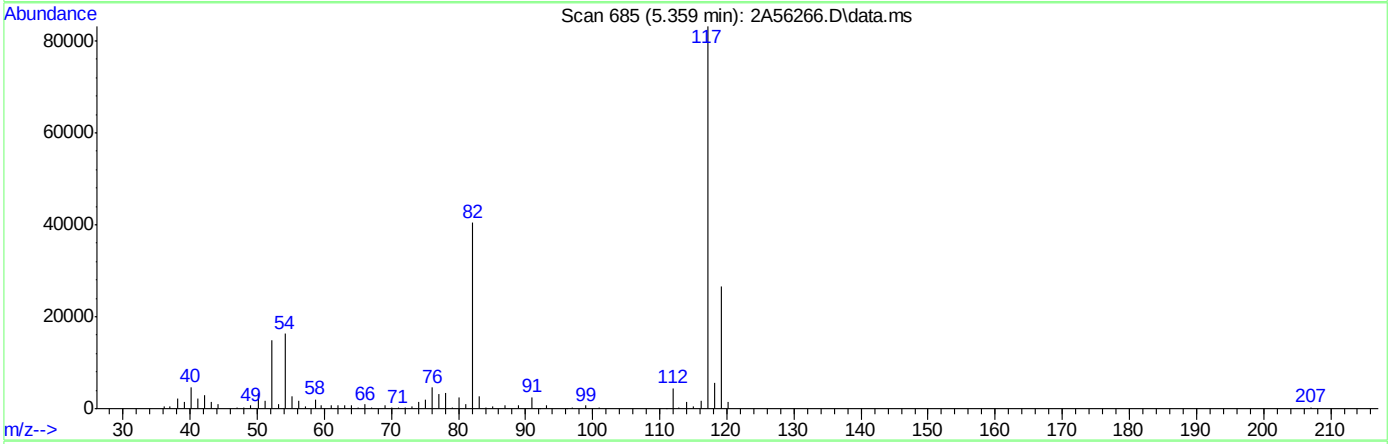
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	96.25#
41.00	39.20	72.27#
43.10	33.20	53.51#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.58ug/L m

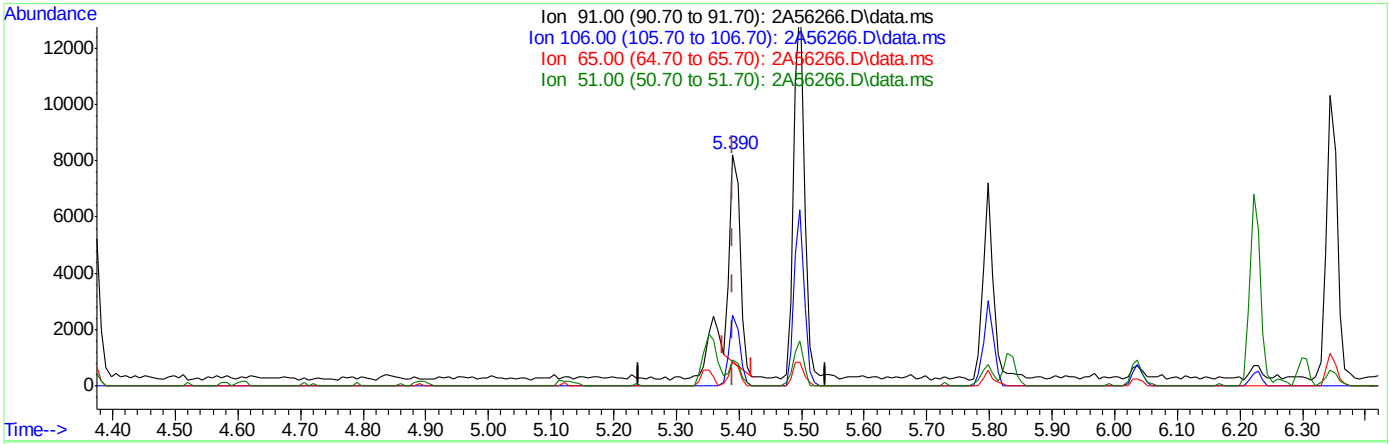
response 3228

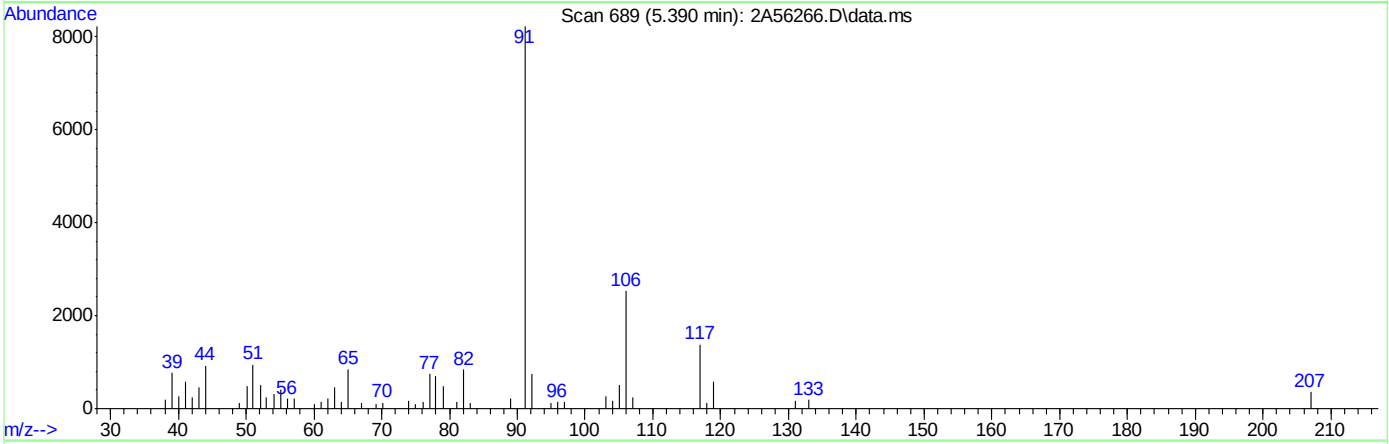
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	105.46#
41.00	39.20	87.64#
43.10	33.20	63.16#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 1.31ug/L

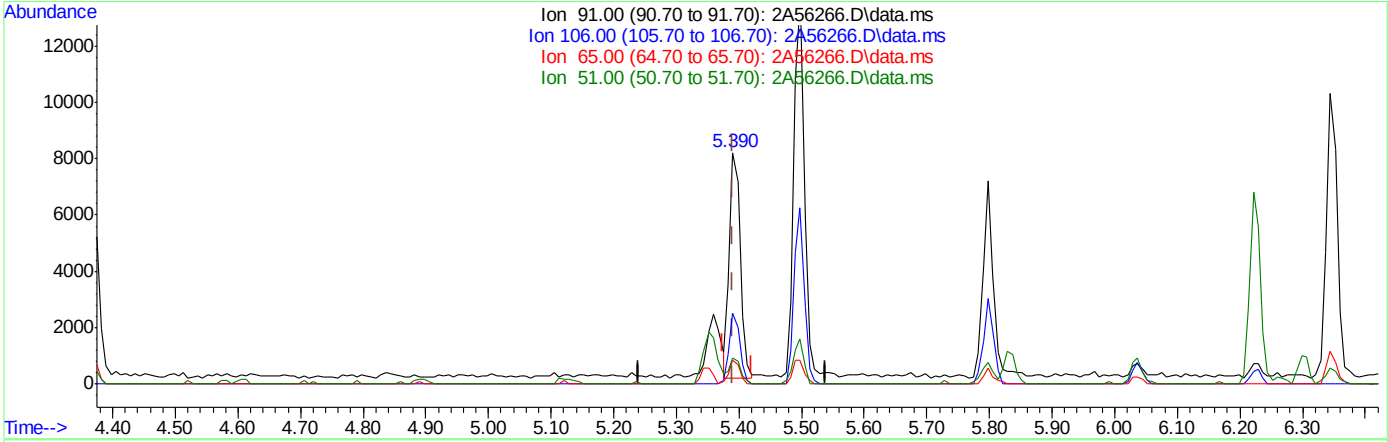
response 8271

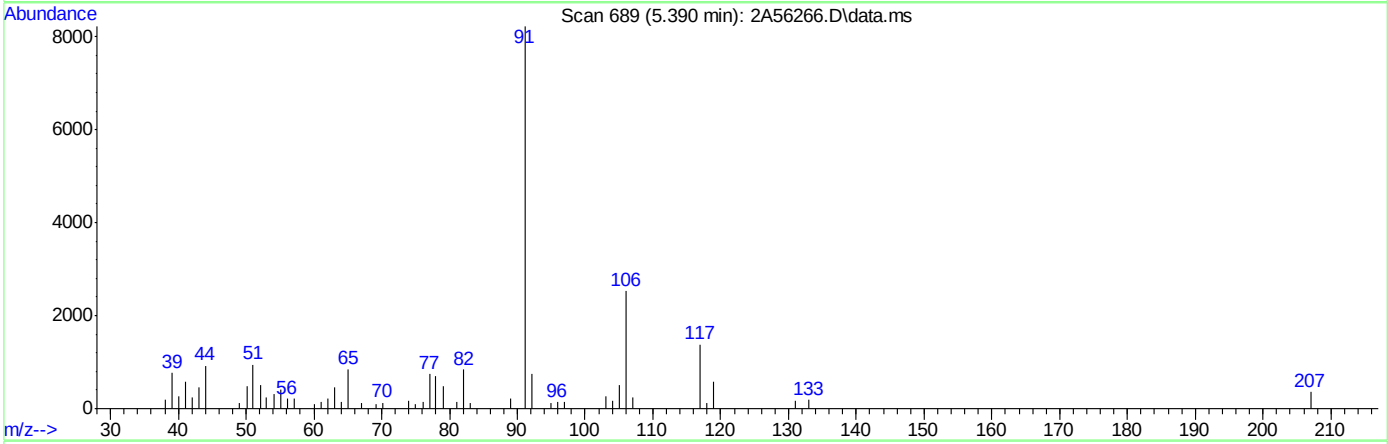
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	32.06
65.00	7.10	10.82
51.00	7.10	12.03

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56266.D
Acq On : 25 Jun 2024 8:07 am
Operator : jeniferw
Sample : IC1910-1
Misc : MS56892,V2A1910,,,,,
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Jun 25 11:42:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56266.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 1.54ug/L m

response 9767

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.72
65.00	7.10	10.37
51.00	7.10	11.52

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	287478	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	222801	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	128724	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	85294	49.90	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.80%				
49) 1,2-Dichloroethane-d4	3.235	65	99965	63.08	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 126.16%#				
63) Toluene-d8	4.336	98	298540	53.52	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.04%				
86) 4-Bromofluorobenzene	6.229	174	102033	49.70	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	2902	1.98	ug/L		97
3) Chloromethane	1.134	50	3919	2.98	ug/L		99
4) 1,3-butadiene	1.188	39	6289	8.71	ug/L	#	73
5) Vinyl Chloride	1.180	62	3678	3.45	ug/L		99
6) Bromomethane	1.349	94	1858	4.21	ug/L		89
7) Chloroethane	1.419	64	2415	4.09	ug/L		95
8) Trichlorofluoromethane	1.503	101	4459	2.39	ug/L		100
9) Ethyl Ether	1.657	59	2436	2.92	ug/L		91
11) 1,2-Dichlorotrifluoroe...	1.750	67	3507	3.96	ug/L		92
12) 1,1-Dichloroethene	1.765	61	4760	2.93	ug/L		89
13) Freon 113	1.788	101	2553	1.85	ug/L	#	82
14) Carbon Disulfide	1.788	76	9757	2.65	ug/L		89
15) Iodomethane	1.834	142	1075	1.28	ug/L		81
16) Acrolein	1.911	56	2826	12.60	ug/L		100
17) Allyl chloride	1.996	41	5065	4.01	ug/L		84
18) Methylene Chloride	2.050	49	6447	4.86	ug/L	#	74
19) Acetone	2.050	43	6031	17.32	ug/L		78
20) Methyl acetate	2.127	43	14007	15.32	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	4929	3.08	ug/L		80
22) Hexane	2.196	56	2547	2.33	ug/L	#	81
23) Methyl Tert Butyl Ether	2.196	73	8018	2.48	ug/L		86
24) Acetonitrile	2.273	41	4726	35.05	ug/L		93
25) Tert Butyl Alcohol	2.211	59	4579	26.79	ug/L	#	40
26) Di-isopropyl ether	2.396	45	9546	3.72	ug/L		85
27) Chloroprene	2.442	53	12348	3.06	ug/L		93
28) 1,1-Dichloroethane	2.442	63	6335	2.99	ug/L		96
29) Acrylonitrile	2.442	52	7140	14.91	ug/L		96
30) ETBE	2.581	59	8483	2.74	ug/L		92
31) Vinyl acetate	2.565	43	33225	18.40	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	3773	2.42	ug/L	#	80
33) 2,2-Dichloropropane	2.781	77	5245	3.14	ug/L		97
34) Bromochloromethane	2.819	128	1762	1.96	ug/L	#	55
35) Cyclohexane	2.858	56	5289	2.79	ug/L	#	80
36) Chloroform	2.858	83	6538	2.69	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Ethyl acetate	2.912	43	18029	17.20	ug/L		89
38) Tetrahydrofuran	2.950	42	1278m	3.08	ug/L		
40) Carbon Tetrachloride	2.958	117	4617m	2.07	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	5600	2.54	ug/L		89
42) 2-Butanone	3.004	43	8888	15.78	ug/L		83
43) 1,1-Dichloropropene	3.050	75	4107	2.61	ug/L		80
44) tert-Butyl formate	3.097	59	10750	11.78	ug/L		94
45) Propionitrile	3.143	54	5700	26.60	ug/L		90
46) Methacrylonitrile	3.166	41	21629	33.43	ug/L		93
47) Benzene	3.181	78	12398	2.48	ug/L		90
48) TAME	3.250	73	7479	2.50	ug/L		86
50) 1,2-Dichloroethane	3.274	62	4441	2.76	ug/L		93
51) Isobutyl Alcohol	3.258	43	6136	67.53	ug/L		92
52) Tert Amyl Alcohol	3.320	59	3567	26.24	ug/L		93
53) Trichloroethene	3.512	95	3753	2.56	ug/L		95
54) Methylcyclohexane	3.528	83	5116	2.20	ug/L		85
55) Dibromomethane	3.735	93	2116	2.41	ug/L		86
56) 1,2-Dichloropropane	3.789	63	3241	2.92	ug/L		84
57) Bromodichloromethane	3.828	83	4514	2.64	ug/L	#	94
58) Methyl methacrylate	3.920	41	2958	3.77	ug/L	#	66
59) 1,4-Dioxane	3.935	88	492m	32.60	ug/L		
60) 2-Chloroethyl vinyl ether	4.166	63	10342	14.74	ug/L		81
61) cis-1,3-Dichloropropene	4.205	75	4725	2.60	ug/L		83
64) Toluene	4.366	91	14135	2.60	ug/L		99
65) 2-Nitropropane	4.466	41	5388	19.67	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	19672	19.31	ug/L		85
67) trans-1,3-Dichloropropene	4.613	75	4076	2.55	ug/L		80
68) Tetrachloroethene	4.628	166	3468	1.76	ug/L		90
69) Ethyl methacrylate	4.728	69	3997	2.94	ug/L	#	74
70) 1,1,2-Trichloroethane	4.713	83	2490	2.72	ug/L		87
71) Dibromochloromethane	4.836	129	2890	1.89	ug/L		97
72) 1,3-Dichloropropane	4.890	76	4161	2.47	ug/L		70
73) 1,2-Dibromoethane	4.990	107	2919	2.19	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.121	57	24586	158.28	ug/L		91
75) 2-hexanone	5.136	43	19244	19.23	ug/L		73
76) 1-Chlorohexane	5.359	91	5441m	2.77	ug/L		
77) Ethylbenzene	5.390	91	16509m	2.72	ug/L		
78) Chlorobenzene	5.359	112	9037	2.31	ug/L		78
79) 1,1,1,2-Tetrachloroethane	5.405	131	2996	2.09	ug/L		96
80) m,p-Xylene	5.498	91	26698	5.37	ug/L		93
81) o-Xylene	5.798	91	14141	2.79	ug/L		94
82) Styrene	5.829	104	9899	2.54	ug/L		84
83) Bromoform	5.836	173	1993	1.61	ug/L		94
84) Isopropylbenzene	6.037	105	17211	2.65	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.260	53	1177	3.14	ug/L	#	70
88) n-Propylbenzene	6.344	91	20308	3.26	ug/L		86
89) Bromobenzene	6.298	156	3834	2.31	ug/L	#	65
90) 1,1,2,2-Tetrachloroethane	6.367	83	4366	3.10	ug/L		91
91) 1,3,5-Trimethylbenzene	6.498	105	14211	3.01	ug/L		95
92) 2-Chlorotoluene	6.452	91	11384	3.15	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

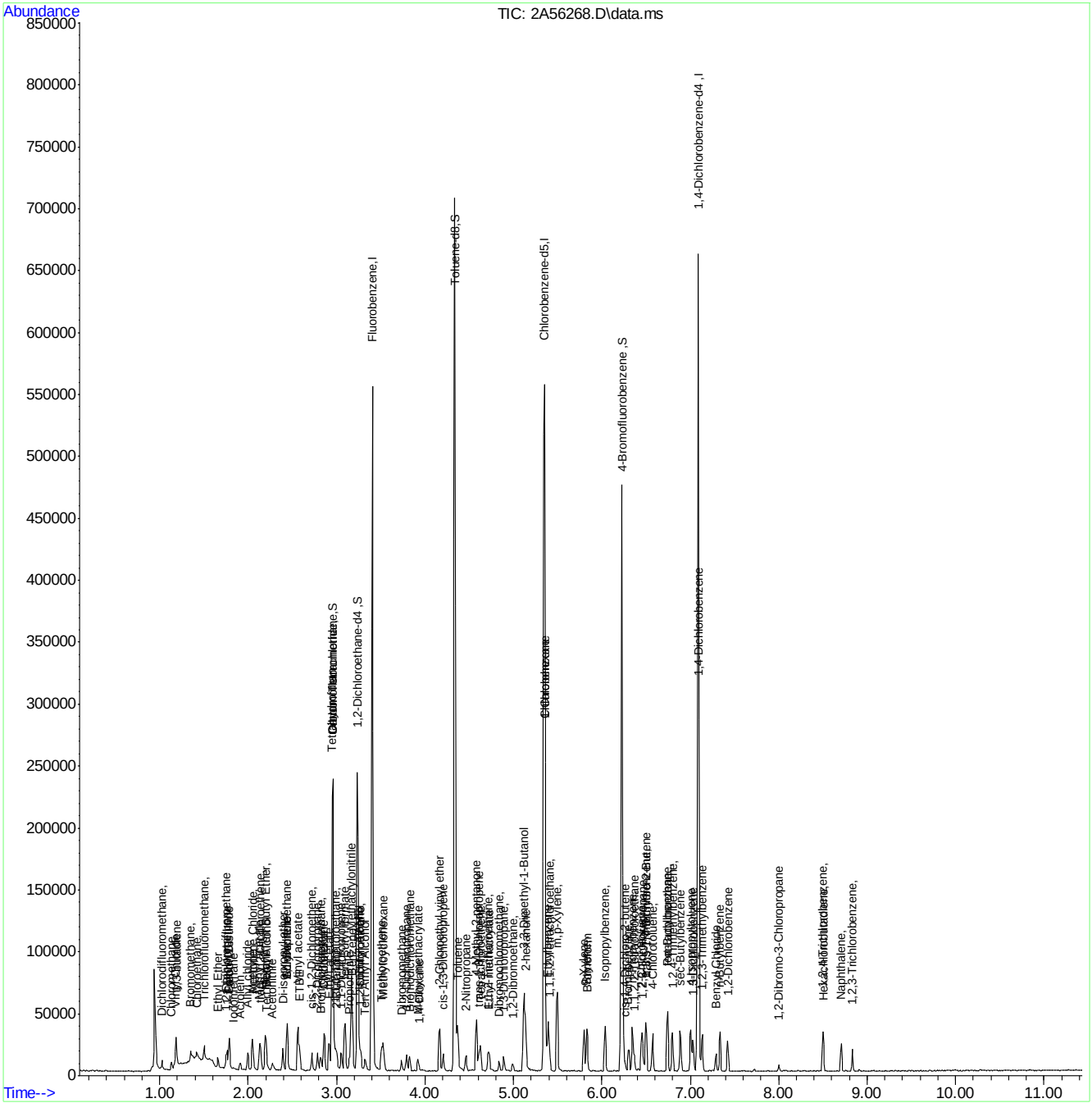
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	trans-1,4-Dichloro-2-B...	6.498	53	1400	3.17	ug/L	#	53
94)	1,2,3-Trichloropropane	6.460	110	1084m	2.33	ug/L		
96)	4-Chlorotoluene	6.575	91	12262	3.19	ug/L		89
97)	tert-Butylbenzene	6.745	91	8454	3.31	ug/L		85
98)	1,2,4-Trimethylbenzene	6.798	105	12528	2.51	ug/L		94
99)	Pentachloroethane	6.745	167	1874	1.89	ug/L	#	44
100)	sec-Butylbenzene	6.883	105	17057	2.80	ug/L		94
101)	4-Isopropyltoluene	7.006	119	14794	2.83	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	7410	2.26	ug/L		86
103)	1,2,3-Trimethylbenzene	7.137	105	12516	2.72	ug/L		98
104)	1,4-Dichlorobenzene	7.099	146	7262m	2.20	ug/L		
105)	n-Butylbenzene	7.337	92	7013	2.98	ug/L		92
106)	Benzyl Chloride	7.291	126	1473m	2.22	ug/L		
107)	1,2-Dichlorobenzene	7.422	146	6556	2.26	ug/L		89
108)	1,2-Dibromo-3-Chloropr...	7.999	75	920m	3.25	ug/L		
109)	Hexachlorobutadiene	8.507	225	1982	1.93	ug/L		88
110)	1,2,4-Trichlorobenzene	8.499	180	3883	2.02	ug/L		95
111)	Naphthalene	8.707	128	10638	2.51	ug/L		98
112)	1,2,3-Trichlorobenzene	8.830	180	3637	2.04	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:45:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

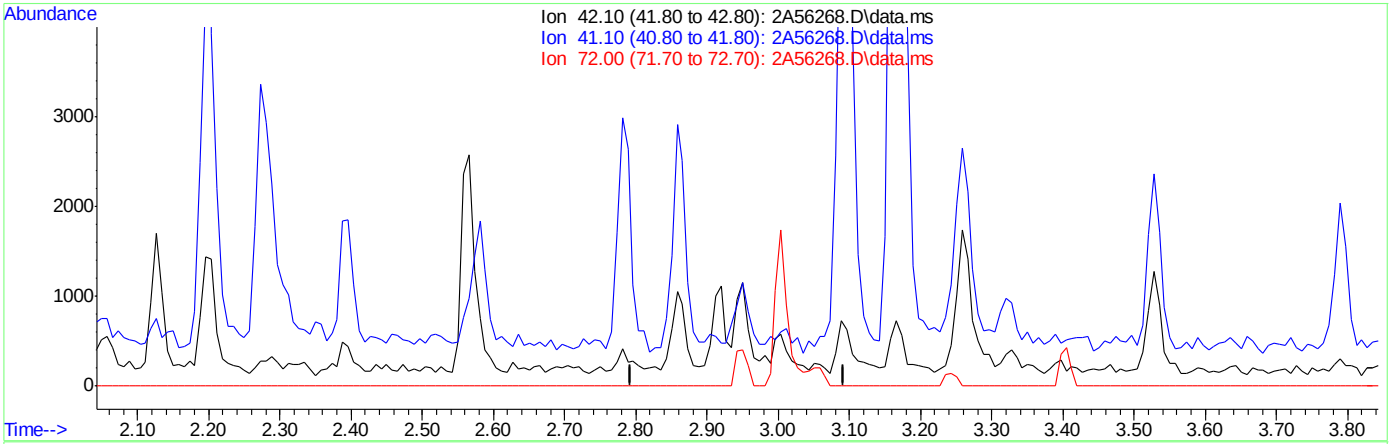
Sample Number: V2A1910-IC1910
Lab FileID: 2A56268.D
Injection Time: 06/25/24 08:39
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

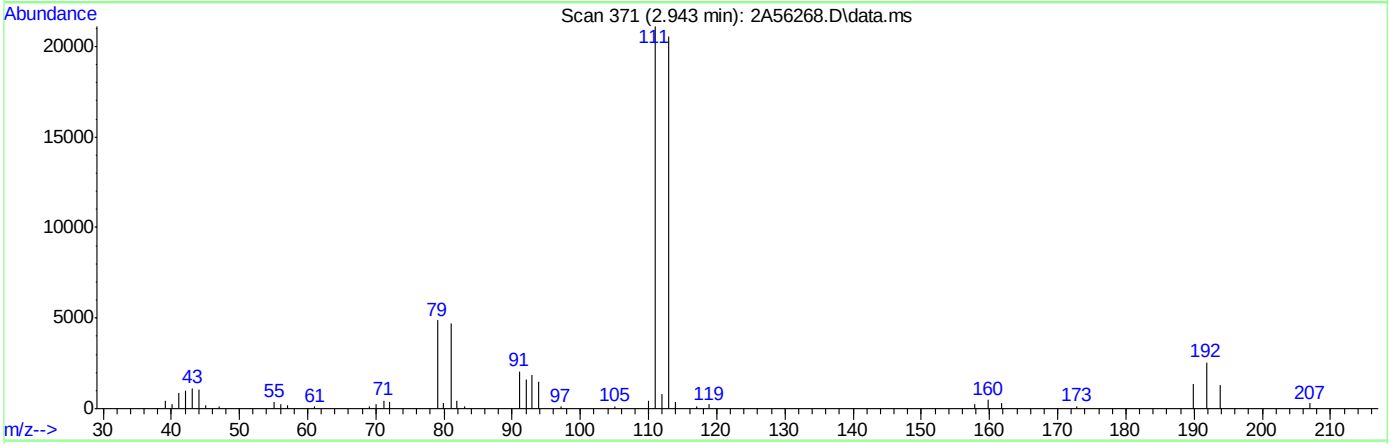
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		2.95	Missed peak
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1,4-Dioxane	123-91-1		3.94	Missed peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline
1,2,3-Trichloropropane	96-18-4		6.46	Missed peak
1,4-Dichlorobenzene	106-46-7		7.10	Missed peak
Benzyl Chloride	100-44-7		7.29	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		8.00	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(38) Tetrahydrofuran

2.943min (-2.943) 0.00ug/L

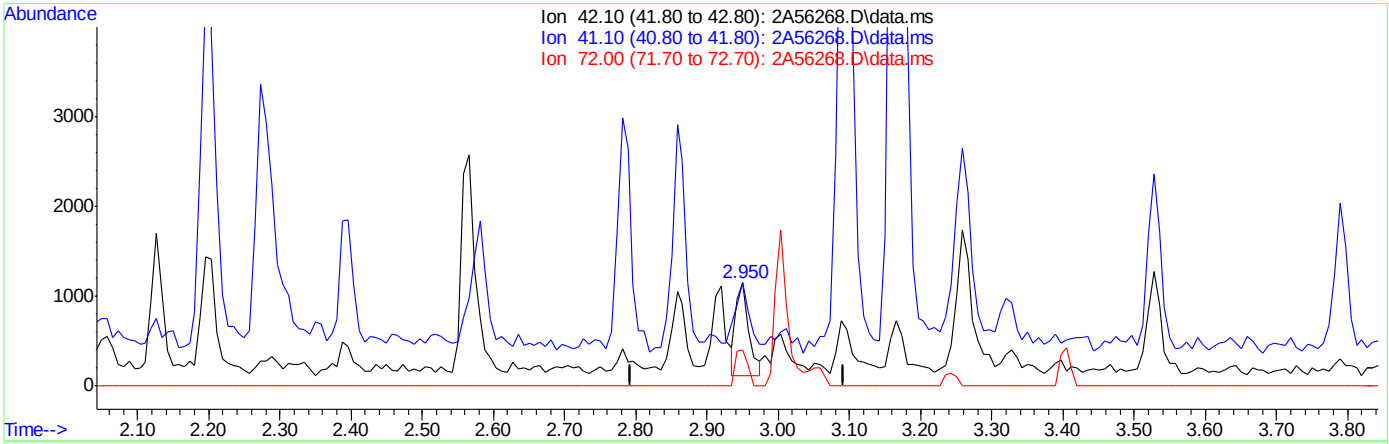
response 0

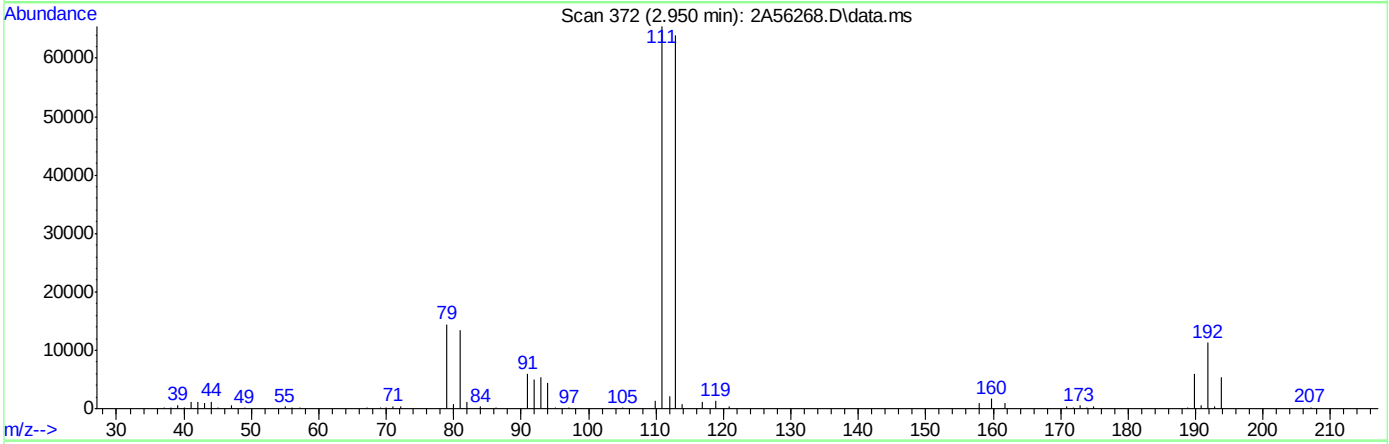
Ion	Exp%	Act%
42.10	100	0.00
41.10	52.50	0.00#
72.00	58.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(38) Tetrahydrofuran

2.950min (+0.007) 3.08ug/L m

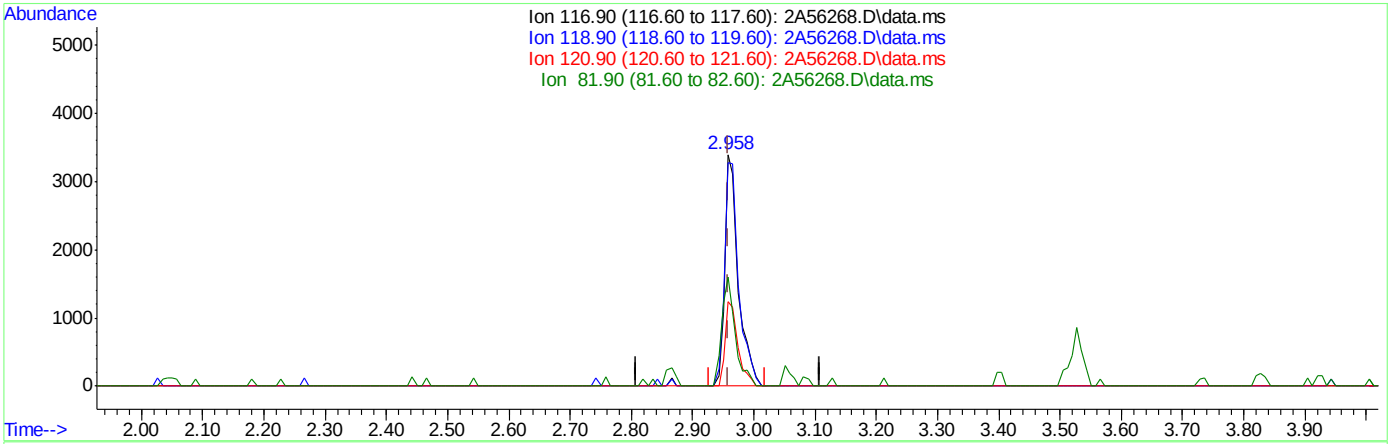
response 1278

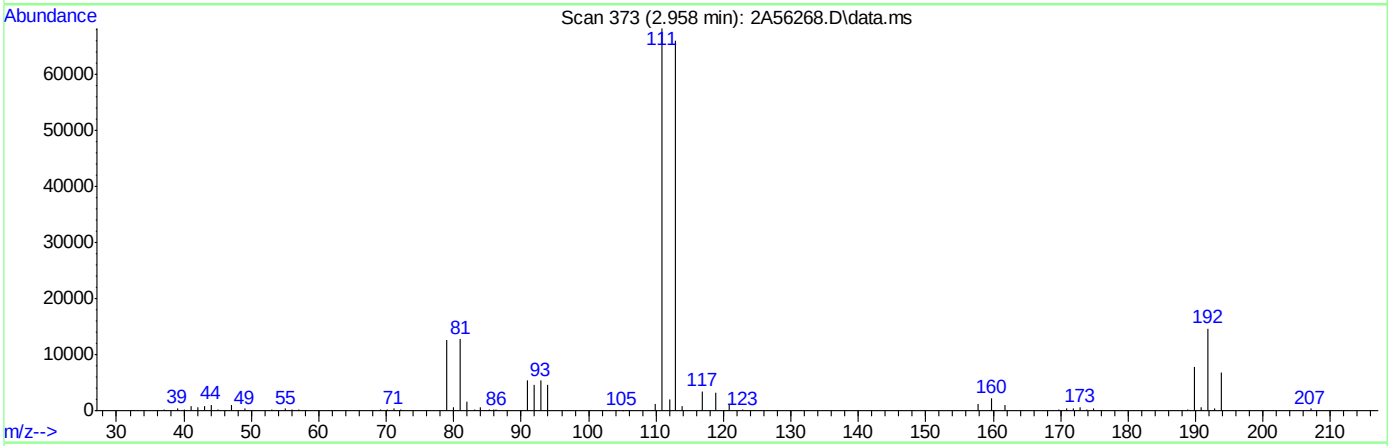
Ion	Exp%	Act%
42.10	100	100
41.10	52.50	100.00#
72.00	58.30	34.87#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (0.000) 2.31ug/L

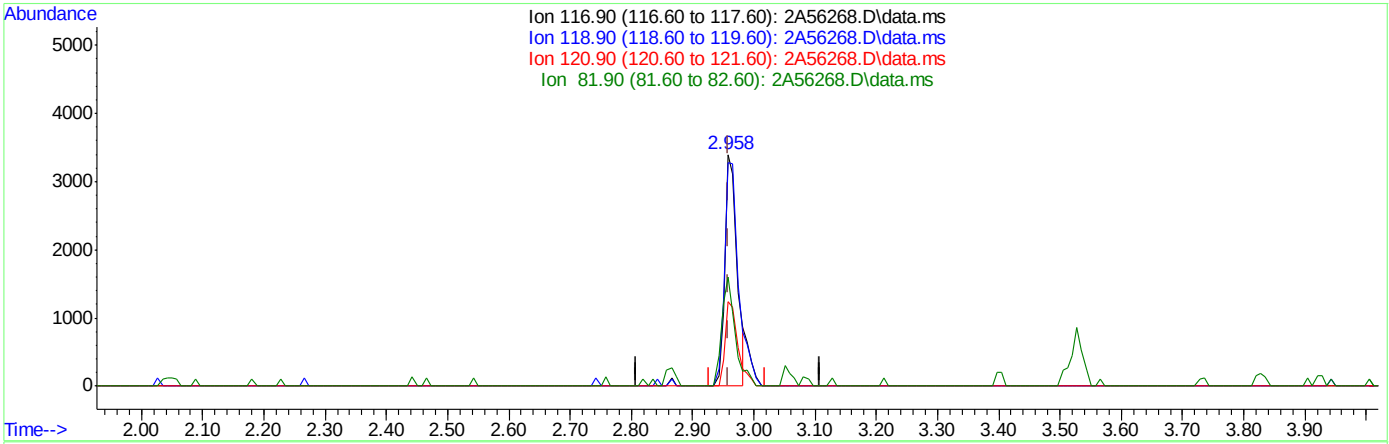
response 5139

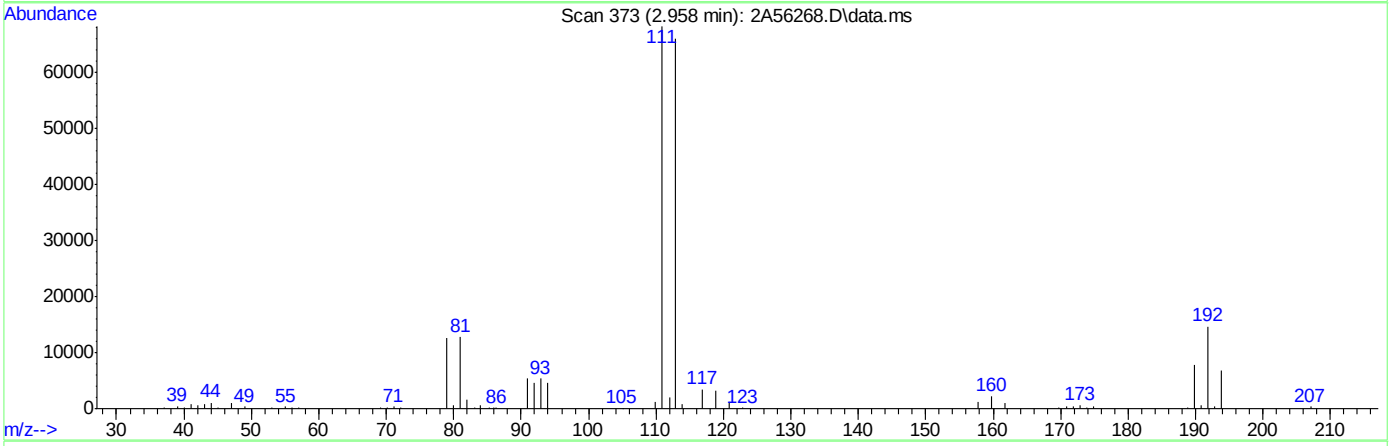
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.65
120.90	31.00	36.29
81.90	19.00	46.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (0.000) 2.07ug/L m

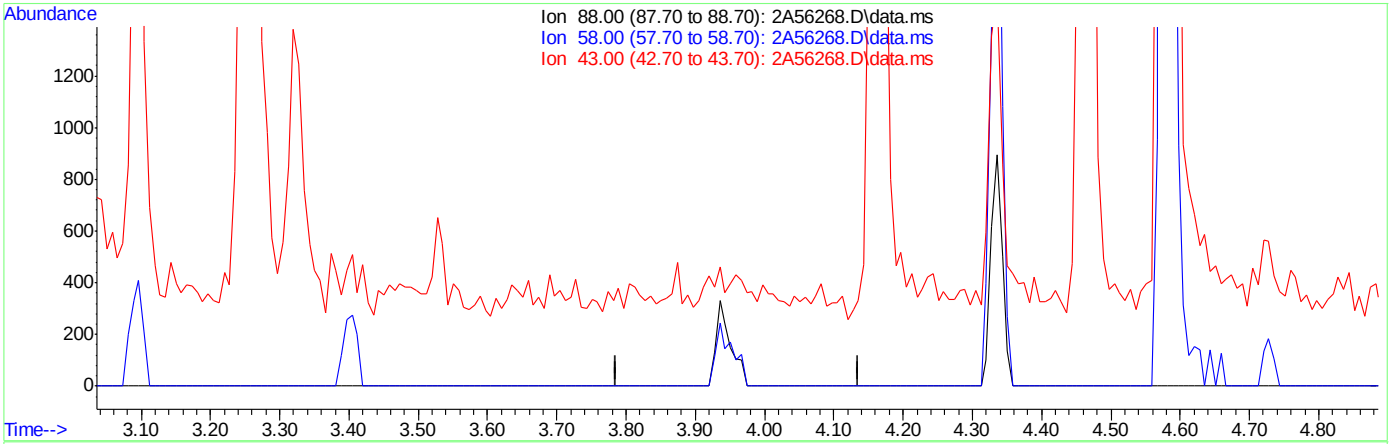
response 4617

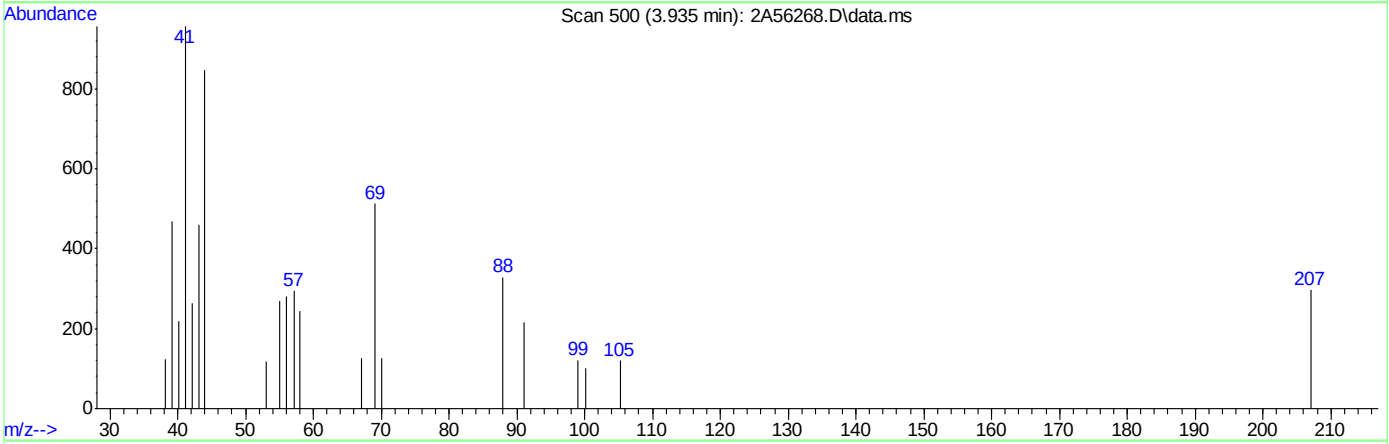
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.65
120.90	31.00	36.29
81.90	19.00	46.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(59) 1,4-Dioxane

3.936min (-3.936) 0.00ug/L

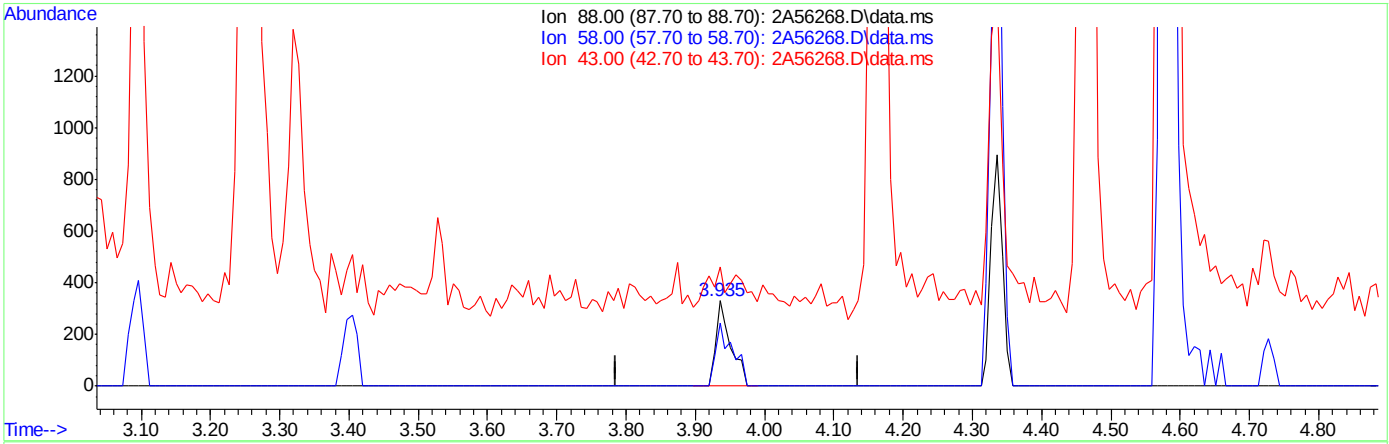
response 0

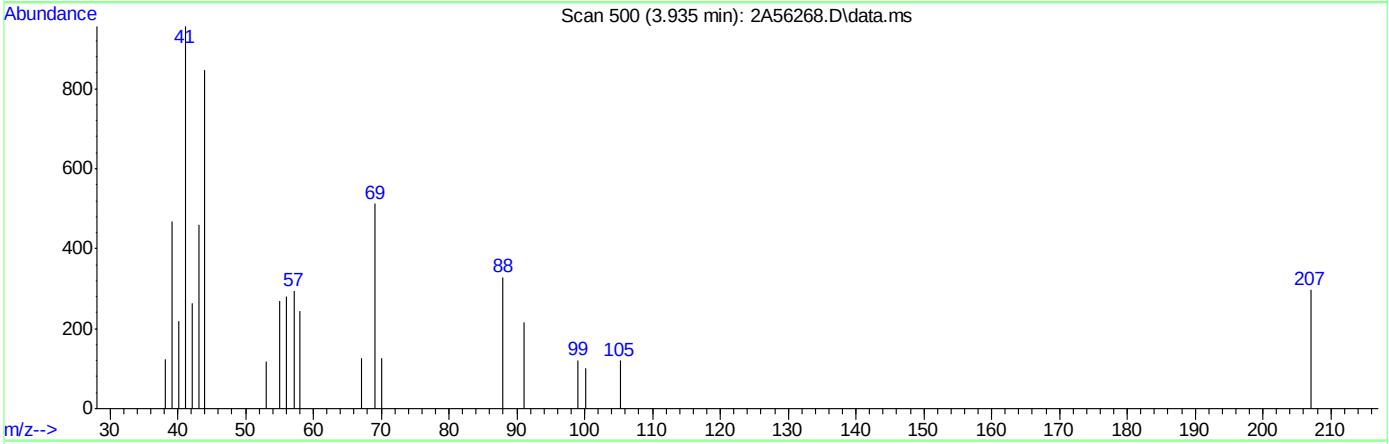
Ion	Exp%	Act%
88.00	100	0.00
58.00	63.50	0.00#
43.00	19.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(59) 1,4-Dioxane

3.935min (-0.001) 32.60ug/L m

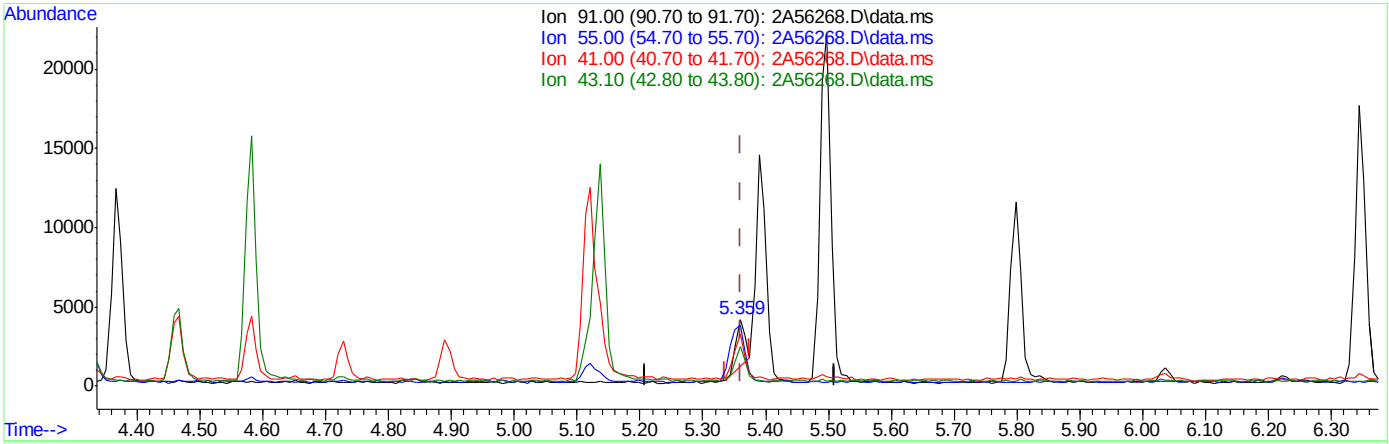
response 492

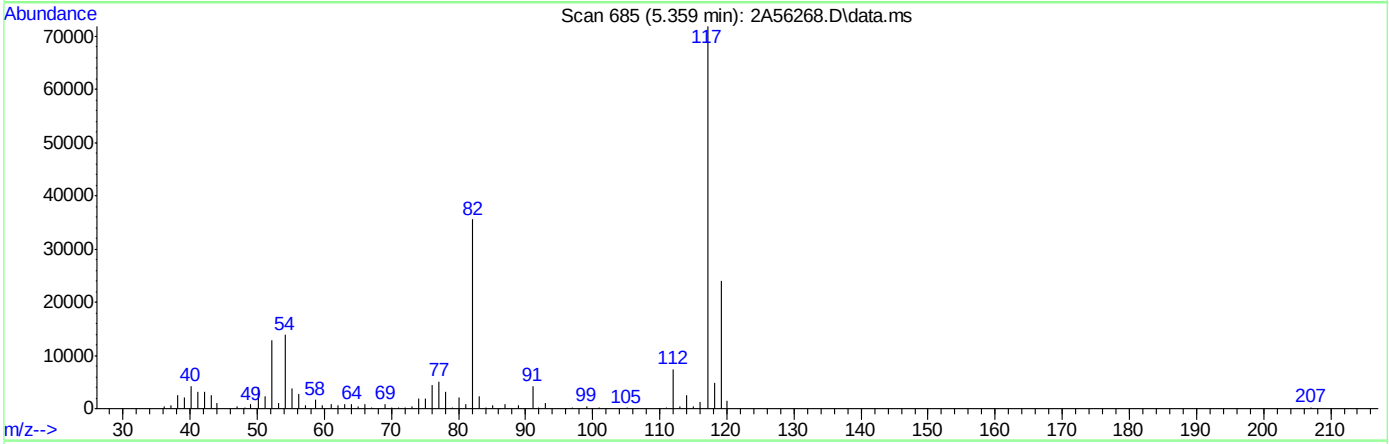
Ion	Exp%	Act%
88.00	100	100
58.00	63.50	73.86
43.00	19.40	139.82#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 1.68ug/L

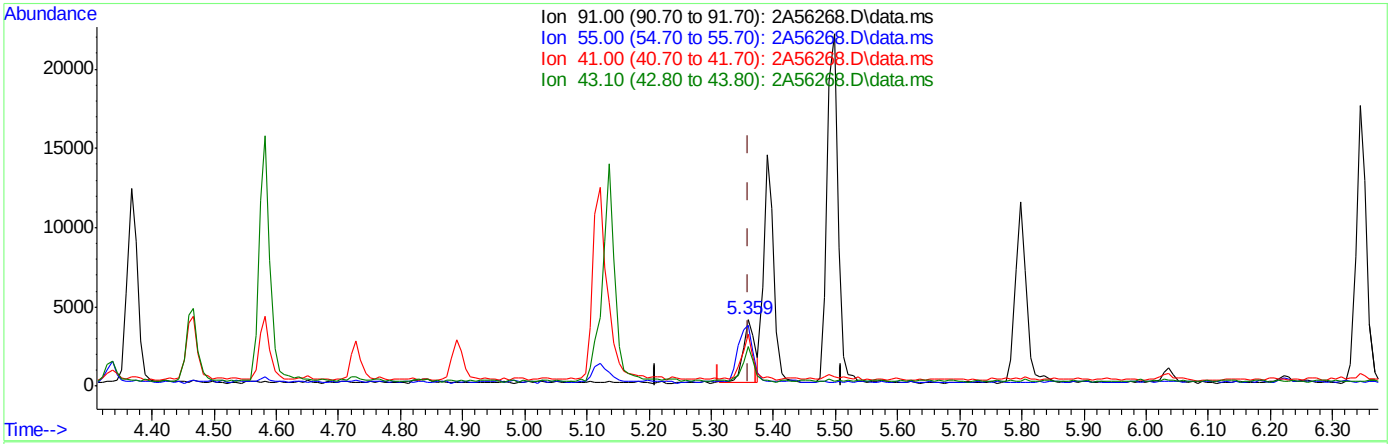
response 3296

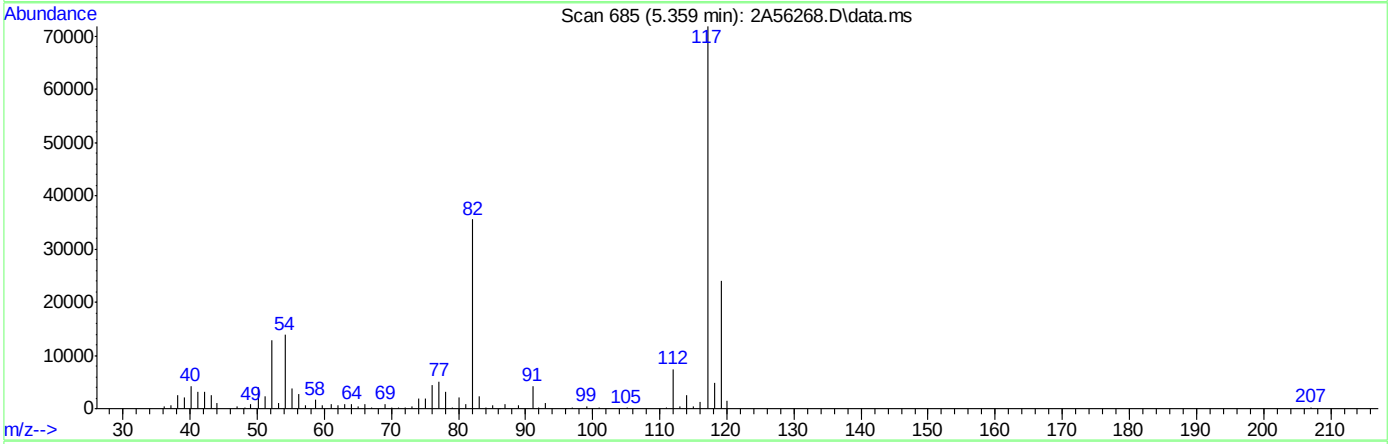
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.59
41.00	39.20	69.57#
43.10	33.20	52.66

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 2.77ug/L m

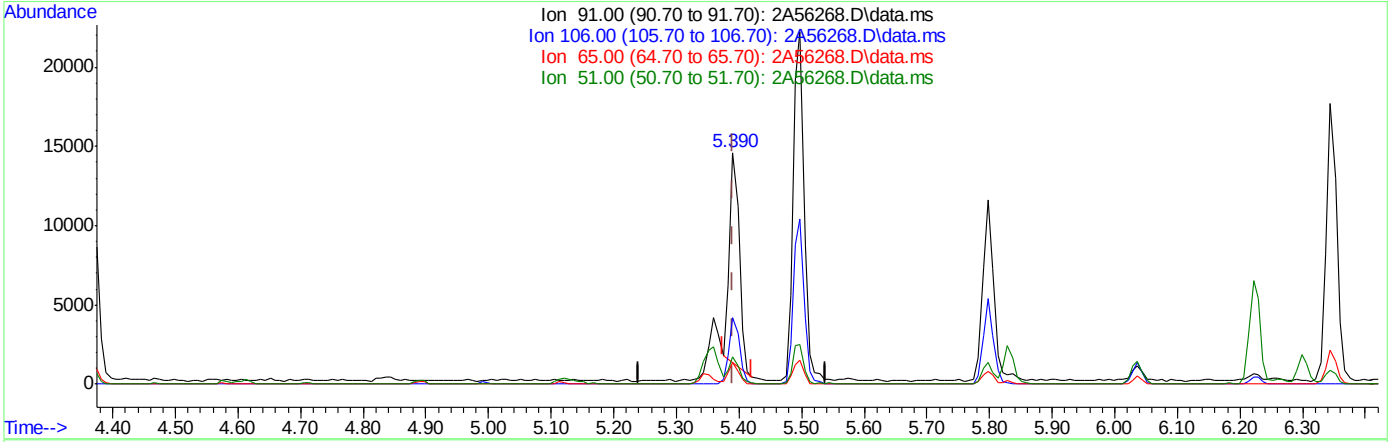
response 5441

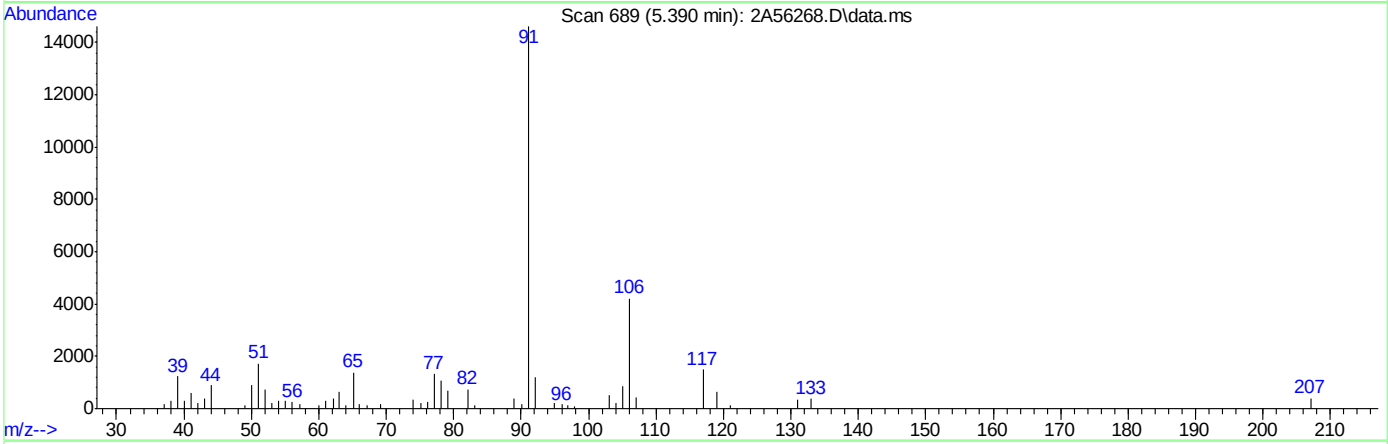
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	90.33#
41.00	39.20	77.46#
43.10	33.20	59.49#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 2.29ug/L

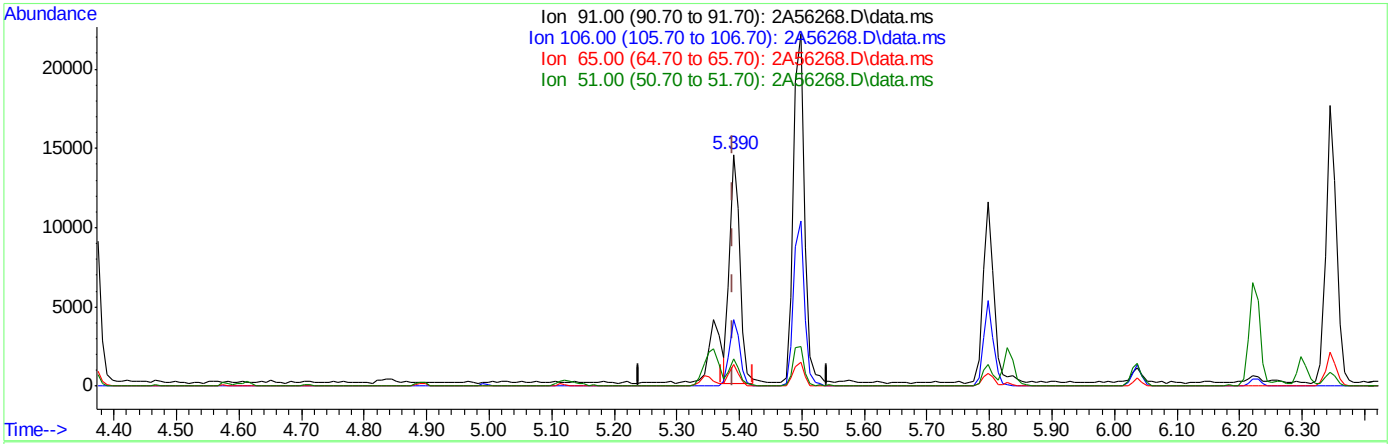
response 13885

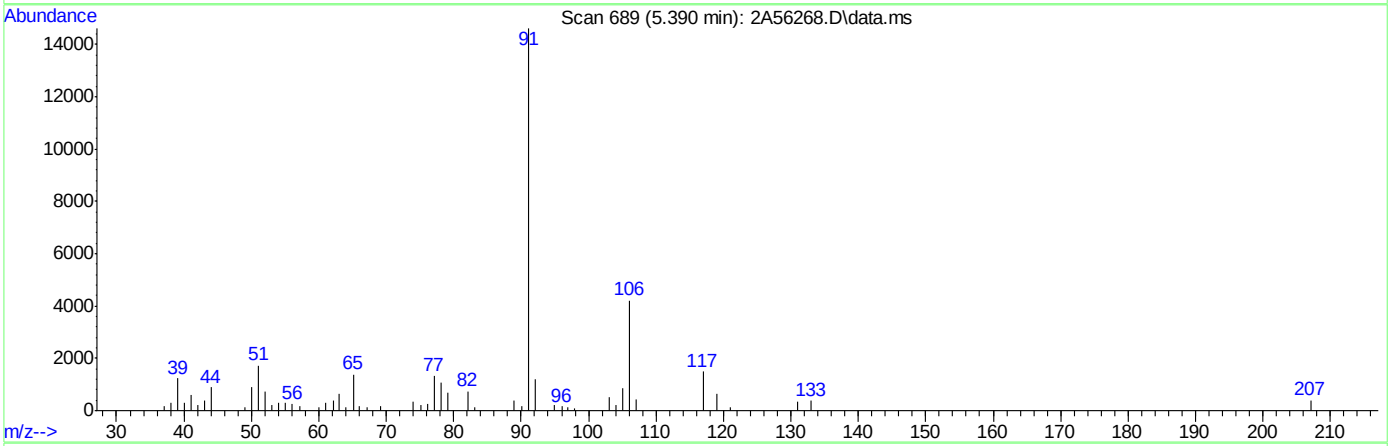
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.65
65.00	7.10	9.69
51.00	7.10	11.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 2.72ug/L m

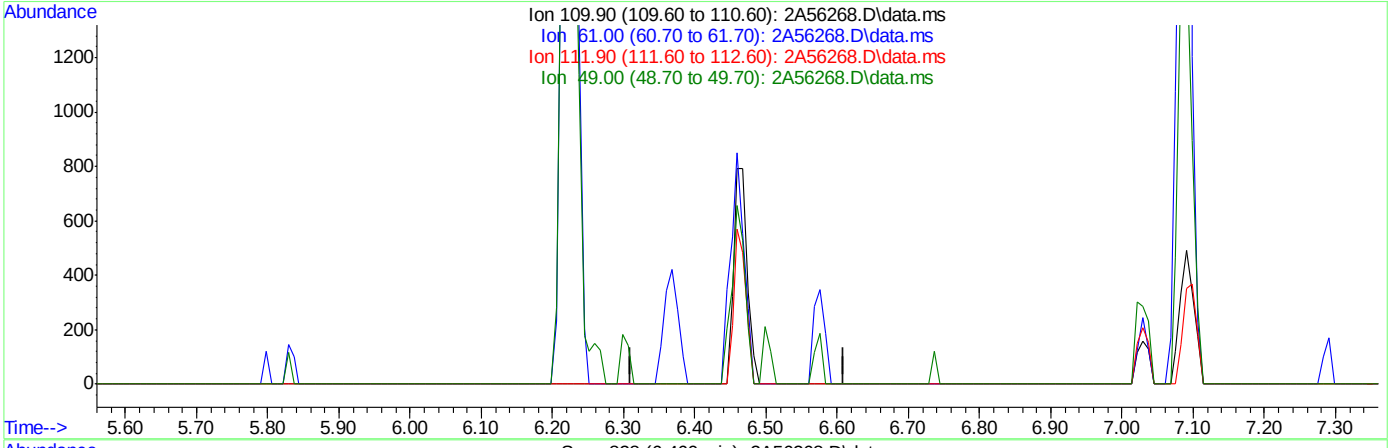
response 16509

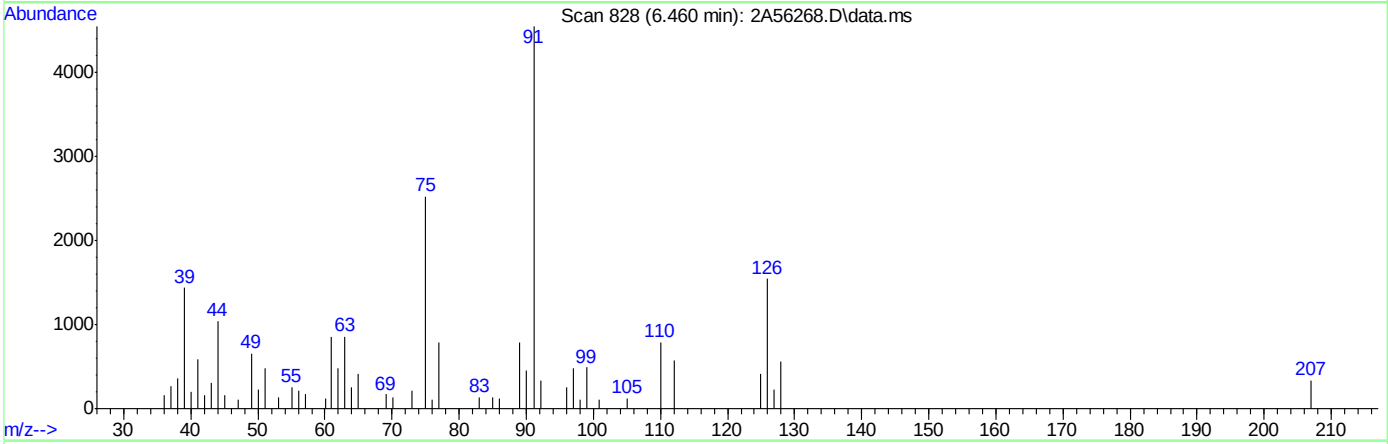
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	28.80
65.00	7.10	9.42
51.00	7.10	11.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-6.460) 0.00ug/L

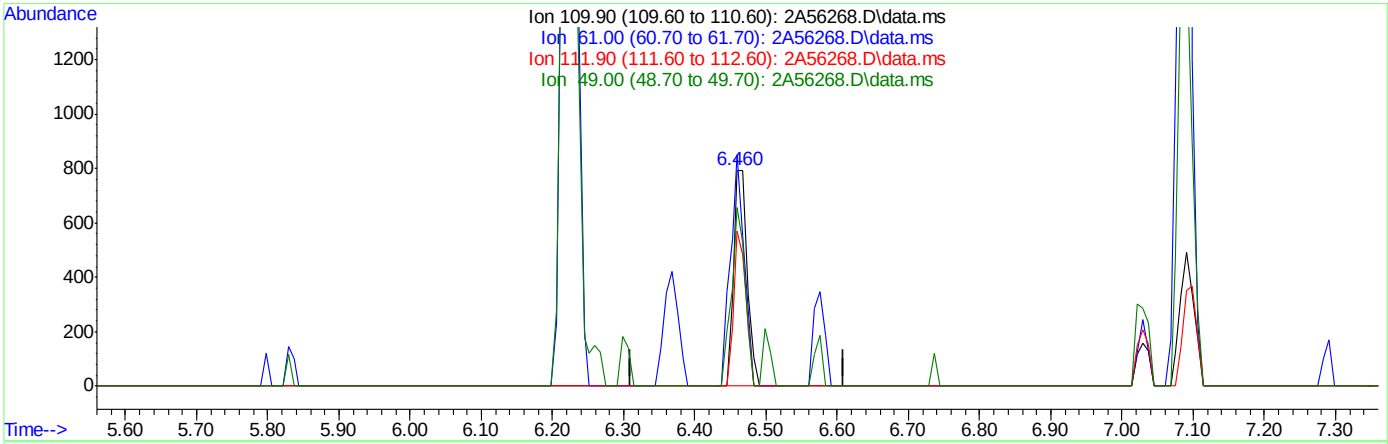
response 0

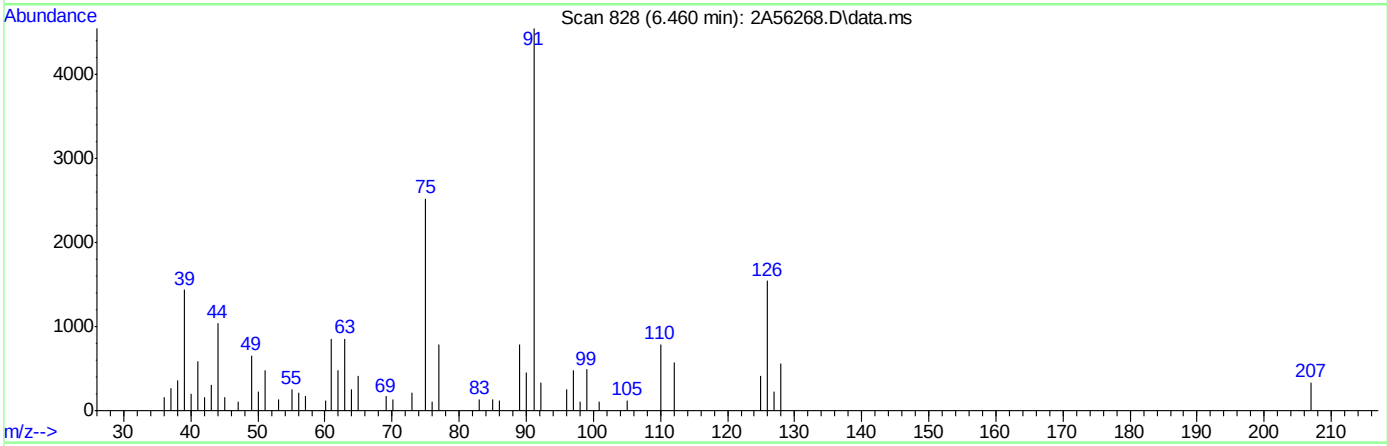
Ion	Exp%	Act%
109.90	100	0.00
61.00	51.70	0.00#
111.90	63.90	0.00#
49.00	36.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(94) 1,2,3-Trichloropropane ( )

6.460min (-0.000) 2.33ug/L m

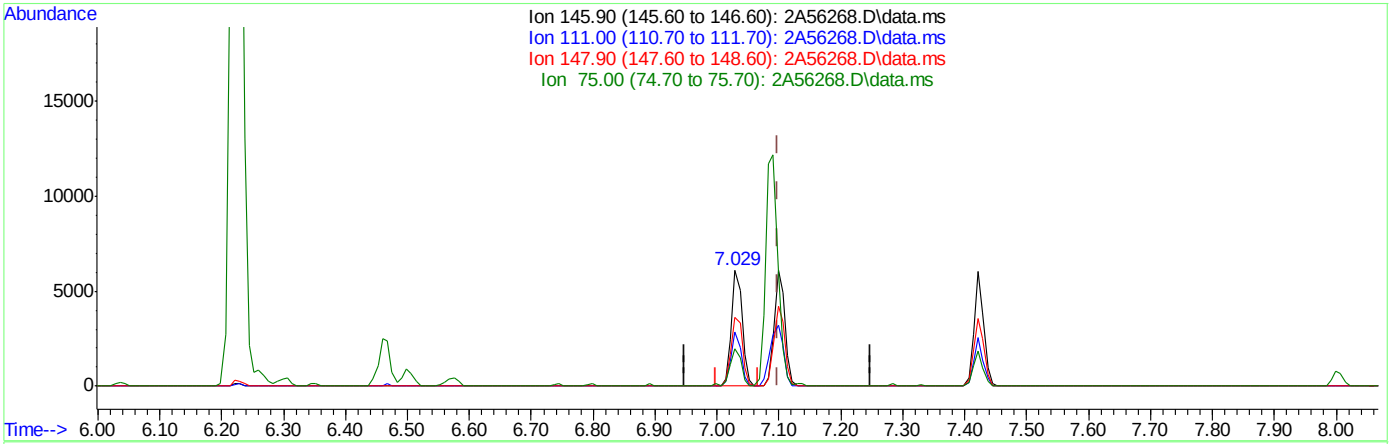
response 1084

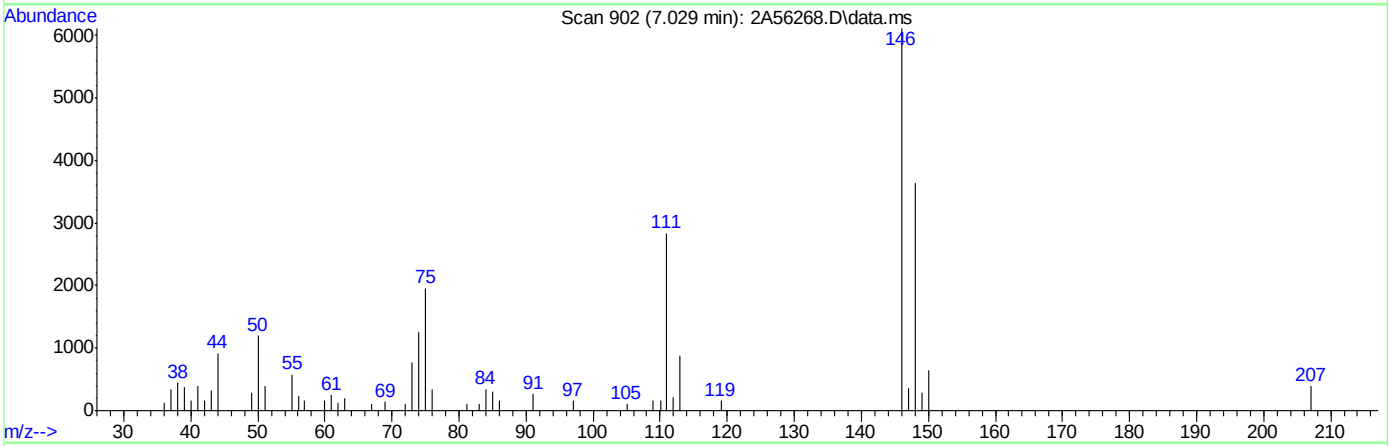
Ion	Exp%	Act%
109.90	100	100
61.00	51.70	107.31#
111.90	63.90	71.88
49.00	36.30	82.72#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(104) 1,4-Dichlorobenzene

7.029min (-0.070) 2.25ug/L

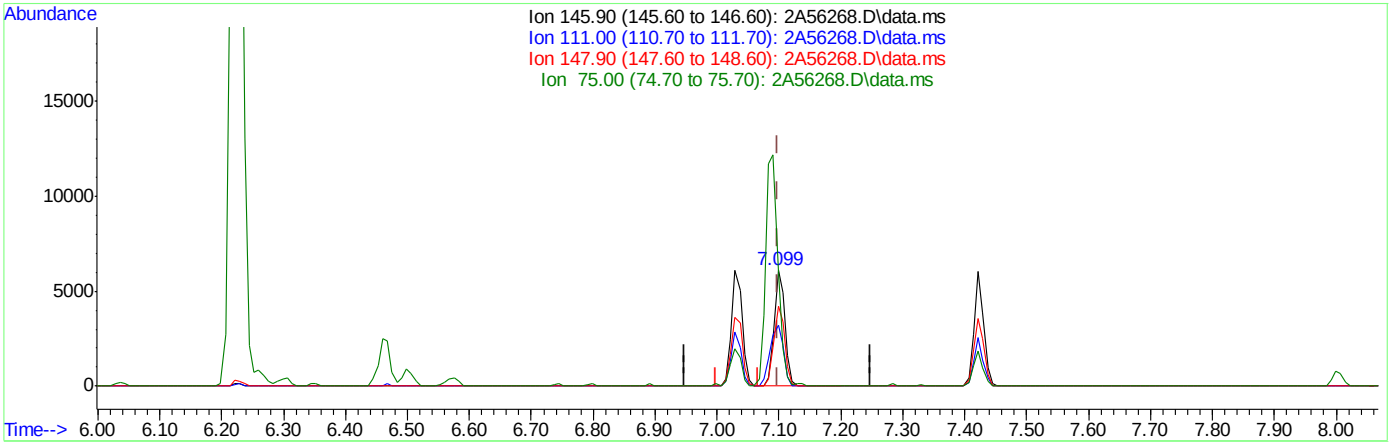
response 7410

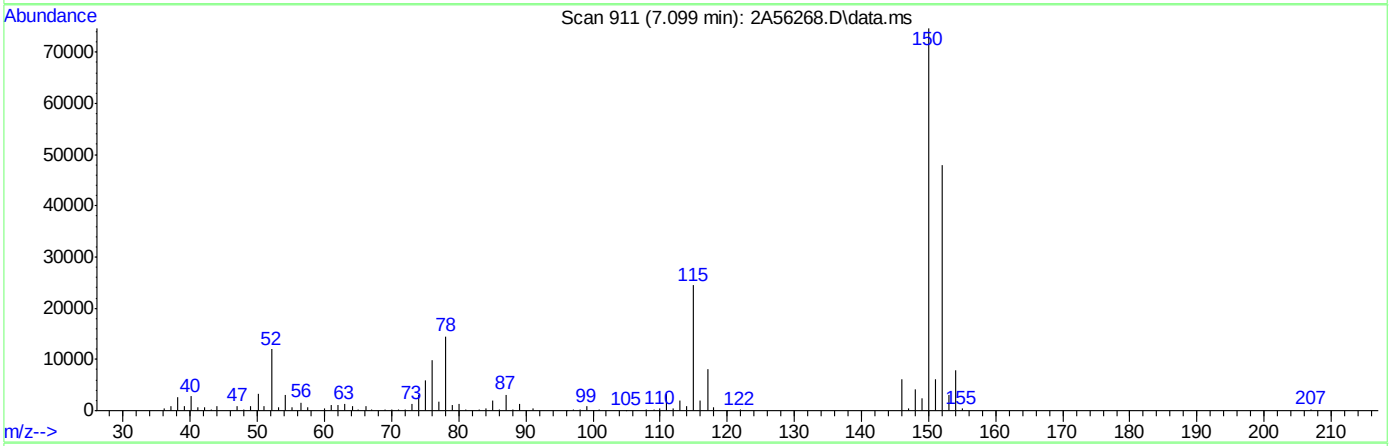
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	46.40
147.90	64.70	59.47
75.00	20.10	30.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(104) 1,4-Dichlorobenzene

7.099min (-0.000) 2.20ug/L m

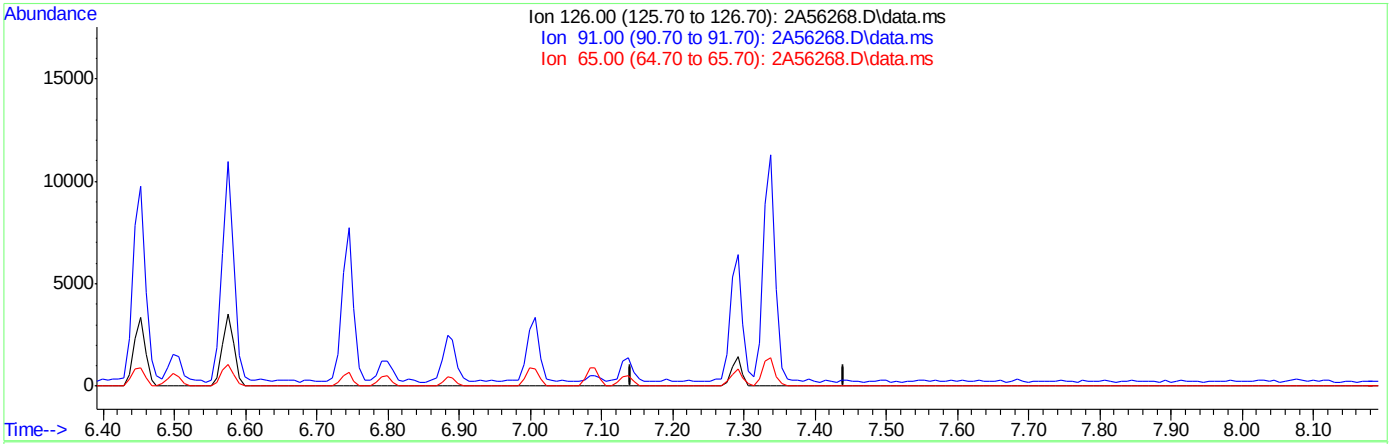
response 7262

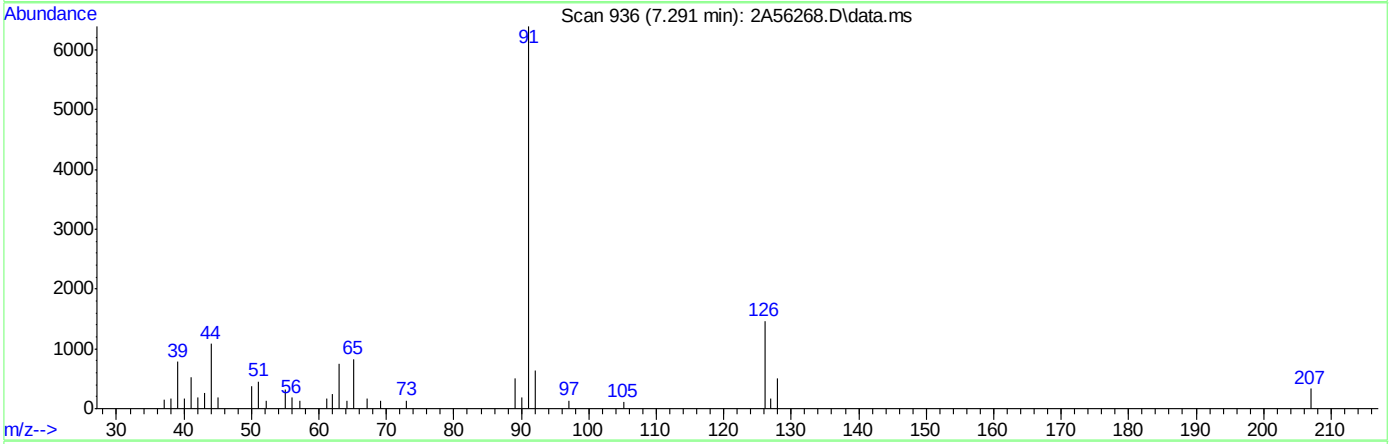
Ion	Exp%	Act%
145.90	100	100
111.00	34.60	52.26
147.90	64.70	68.76
75.00	20.10	97.47#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(106) Benzyl Chloride

7.291min (-7.291) 0.00ug/L

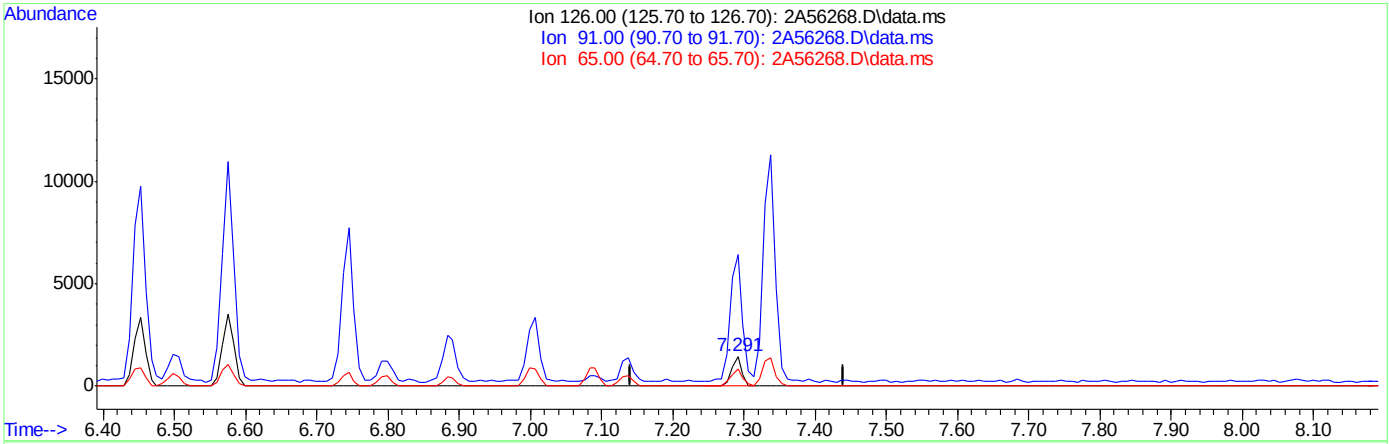
response 0

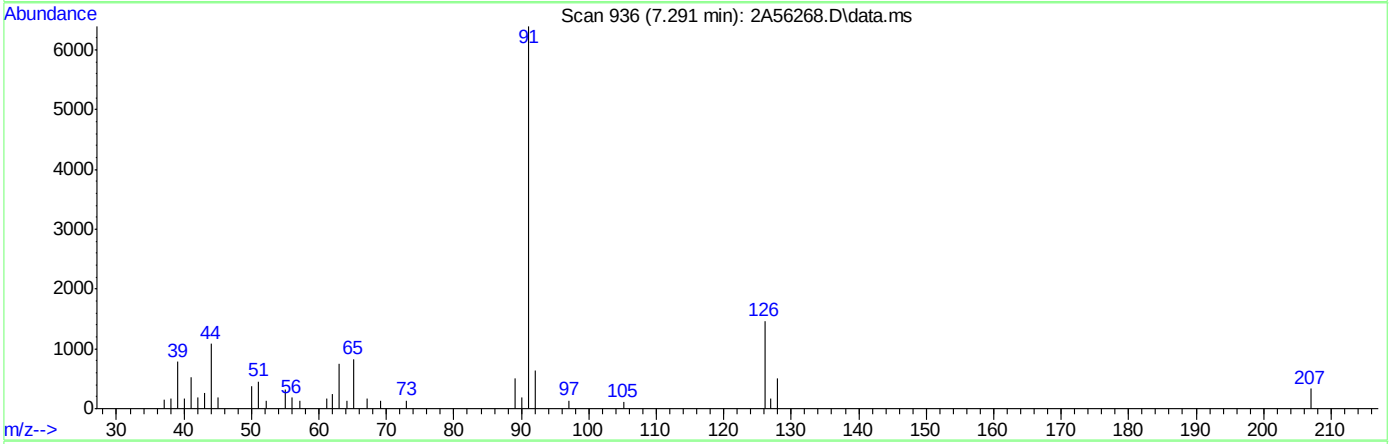
Ion	Exp%	Act%
126.00	100	0.00
91.00	412.40	0.00#
65.00	43.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(106) Benzyl Chloride

7.291min (+0.000) 2.22ug/L m

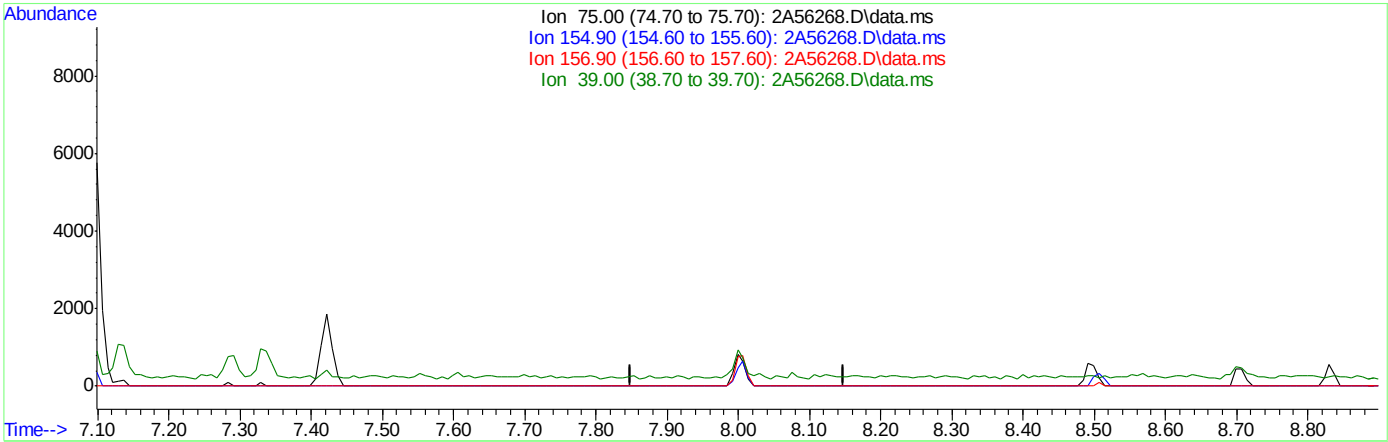
response 1473

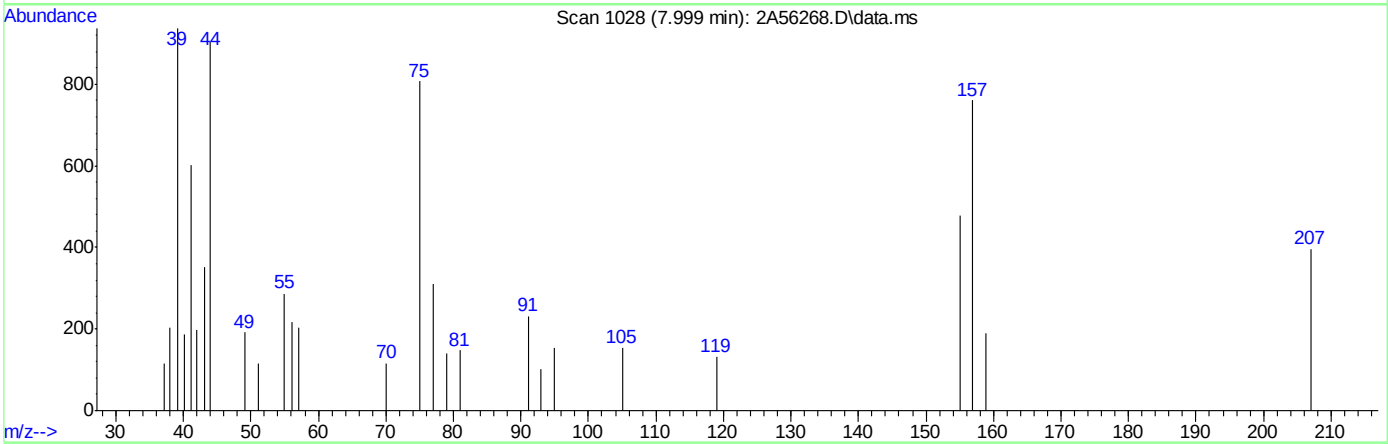
Ion	Exp%	Act%
126.00	100	100
91.00	412.40	435.56#
65.00	43.90	56.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (-7.999) 0.00ug/L

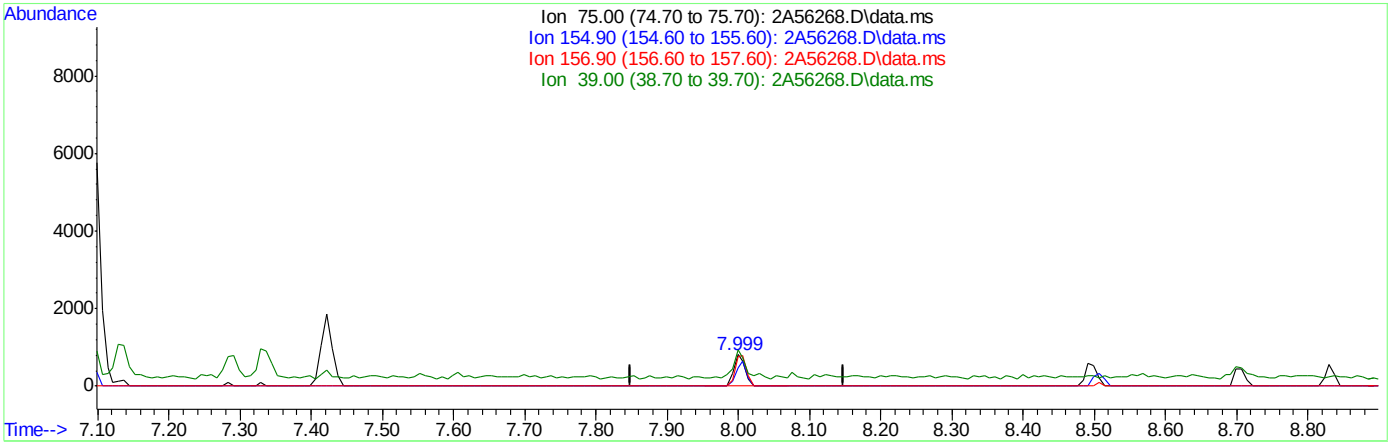
response 0

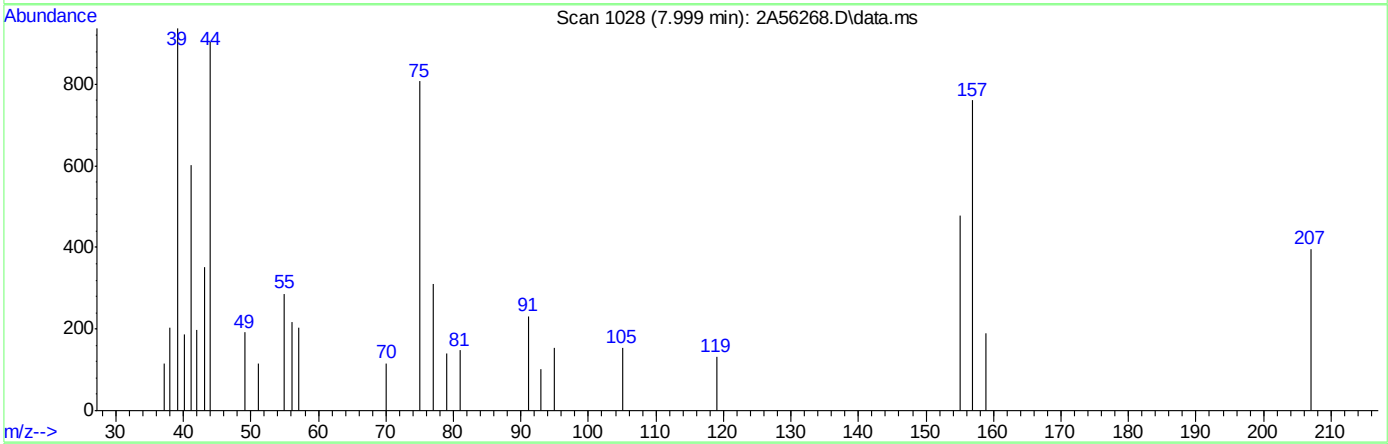
Ion	Exp%	Act%
75.00	100	0.00
154.90	144.40	0.00#
156.90	178.80	0.00#
39.00	47.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56268.D
Acq On : 25 Jun 2024 8:39 am
Operator : jeniferw
Sample : IC1910-8
Misc : MS56892,V2A1910,,,,,
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Jun 25 11:23:18 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56268.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

7.999min (+0.000) 3.25ug/L m

response 920

Ion	Exp%	Act%
75.00	100	100
154.90	144.40	59.36#
156.90	178.80	94.18#
39.00	47.20	116.11#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	284887	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	215661	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	129118	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	85533	50.50	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%				
49) 1,2-Dichloroethane-d4	3.235	65	101342	64.53	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 129.06%#				
63) Toluene-d8	4.336	98	295191	54.67	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.34%				
86) 4-Bromofluorobenzene	6.229	174	101180	49.13	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.26%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	7439	5.11	ug/L		100
3) Chloromethane	1.134	50	9182	7.05	ug/L		96
4) 1,3-butadiene	1.188	39	11353	15.86	ug/L		79
5) Vinyl Chloride	1.173	62	8662	8.20	ug/L		95
6) Bromomethane	1.350	94	4242	9.70	ug/L		88
7) Chloroethane	1.419	64	5242	9.15	ug/L		93
8) Trichlorofluoromethane	1.503	101	12079	6.54	ug/L		97
9) Ethyl Ether	1.657	59	6015	7.28	ug/L		88
10) Ethanol	1.704	45	1873m	175.40	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	6300	7.17	ug/L		95
12) 1,1-Dichloroethene	1.765	61	11498	7.15	ug/L		89
13) Freon 113	1.788	101	6597	4.83	ug/L		87
14) Carbon Disulfide	1.781	76	22447	6.16	ug/L		79
15) Iodomethane	1.834	142	3113	3.68	ug/L		87
16) Acrolein	1.904	56	6271	28.22	ug/L		94
17) Allyl chloride	1.996	41	10951	8.75	ug/L		81
18) Methylene Chloride	2.042	49	12917	9.82	ug/L	#	69
19) Acetone	2.050	43	13785	39.95	ug/L		79
20) Methyl acetate	2.127	43	35487	39.17	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	11319	7.14	ug/L	#	73
22) Hexane	2.196	56	6827	6.30	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	20186	6.30	ug/L		66
24) Acetonitrile	2.273	41	9865	74.37	ug/L		96
25) Tert Butyl Alcohol	2.212	59	11286	66.64	ug/L		64
26) Di-isopropyl ether	2.389	45	22097	8.69	ug/L		86
27) Chloroprene	2.435	53	28489	7.11	ug/L		88
28) 1,1-Dichloroethane	2.442	63	14484	6.89	ug/L		96
29) Acrylonitrile	2.435	52	17633	37.15	ug/L		90
30) ETBE	2.581	59	21107	6.88	ug/L		92
31) Vinyl acetate	2.558	43	78557	43.89	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	8310	5.37	ug/L	#	74
33) 2,2-Dichloropropane	2.781	77	11810	7.13	ug/L		95
34) Bromochloromethane	2.820	128	4149	4.65	ug/L	#	63
35) Cyclohexane	2.858	56	13806	7.34	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	15007	6.23	ug/L		94
37) Ethyl acetate	2.912	43	42049	40.48	ug/L		91
38) Tetrahydrofuran	2.943	42	3510	8.54	ug/L		86
40) Carbon Tetrachloride	2.958	117	10794m	4.89	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	12427	5.70	ug/L		93
42) 2-Butanone	2.997	43	22089	39.57	ug/L		80
43) 1,1-Dichloropropene	3.050	75	9721	6.24	ug/L	#	73
44) tert-Butyl formate	3.097	59	27197	30.07	ug/L		96
45) Propionitrile	3.143	54	12555	59.13	ug/L		98
46) Methacrylonitrile	3.166	41	49160	76.67	ug/L		94
47) Benzene	3.181	78	28498	5.75	ug/L		94
48) TAME	3.251	73	18582	6.27	ug/L		85
50) 1,2-Dichloroethane	3.274	62	10546	6.61	ug/L		94
51) Isobutyl Alcohol	3.251	43	14054	156.08	ug/L		78
52) Tert Amyl Alcohol	3.320	59	9136	67.82	ug/L		97
53) Trichloroethene	3.505	95	8298	5.71	ug/L		84
54) Methylcyclohexane	3.528	83	13195	5.72	ug/L		86
55) Dibromomethane	3.728	93	5098	5.86	ug/L	#	71
56) 1,2-Dichloropropane	3.789	63	7395	6.72	ug/L		90
57) Bromodichloromethane	3.828	83	10408	6.13	ug/L	#	97
58) Methyl methacrylate	3.920	41	6561	8.43	ug/L	#	68
59) 1,4-Dioxane	3.935	88	1375	91.93	ug/L	#	60
60) 2-Chloroethyl vinyl ether	4.159	63	25420	36.57	ug/L		79
61) cis-1,3-Dichloropropene	4.205	75	11259	6.25	ug/L		76
64) Toluene	4.366	91	32499	6.18	ug/L		97
65) 2-Nitropropane	4.459	41	13120	48.83	ug/L		88
66) 4-Methyl-2-pentanone	4.582	43	45812	46.45	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	10057	6.50	ug/L		81
68) Tetrachloroethene	4.628	166	8390	4.40	ug/L		96
69) Ethyl methacrylate	4.728	69	8947	6.79	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	5836	6.58	ug/L		86
71) Dibromochloromethane	4.836	129	7212	4.87	ug/L		98
72) 1,3-Dichloropropane	4.890	76	10618	6.51	ug/L		78
73) 1,2-Dibromoethane	4.990	107	6775	5.24	ug/L		98
74) 3,3-Dimethyl-1-Butanol	5.121	57	58518	389.21	ug/L		95
75) 2-hexanone	5.136	43	46302	47.81	ug/L		74
76) 1-Chlorohexane	5.359	91	12879m	6.78	ug/L		
77) Ethylbenzene	5.390	91	37564m	6.40	ug/L		
78) Chlorobenzene	5.359	112	21430	5.65	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	6866	4.95	ug/L		95
80) m,p-Xylene	5.498	91	61229	12.72	ug/L		94
81) o-Xylene	5.798	91	32576	6.64	ug/L		94
82) Styrene	5.829	104	23450	6.21	ug/L		90
83) Bromoform	5.837	173	4981	4.16	ug/L		89
84) Isopropylbenzene	6.037	105	38562	6.13	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	2286	6.08	ug/L	#	57
88) n-Propylbenzene	6.344	91	46628	7.45	ug/L		89
89) Bromobenzene	6.306	156	8968	5.39	ug/L		82
90) 1,1,2,2-Tetrachloroethane	6.368	83	10450	7.40	ug/L		99
91) 1,3,5-Trimethylbenzene	6.498	105	31634	6.69	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

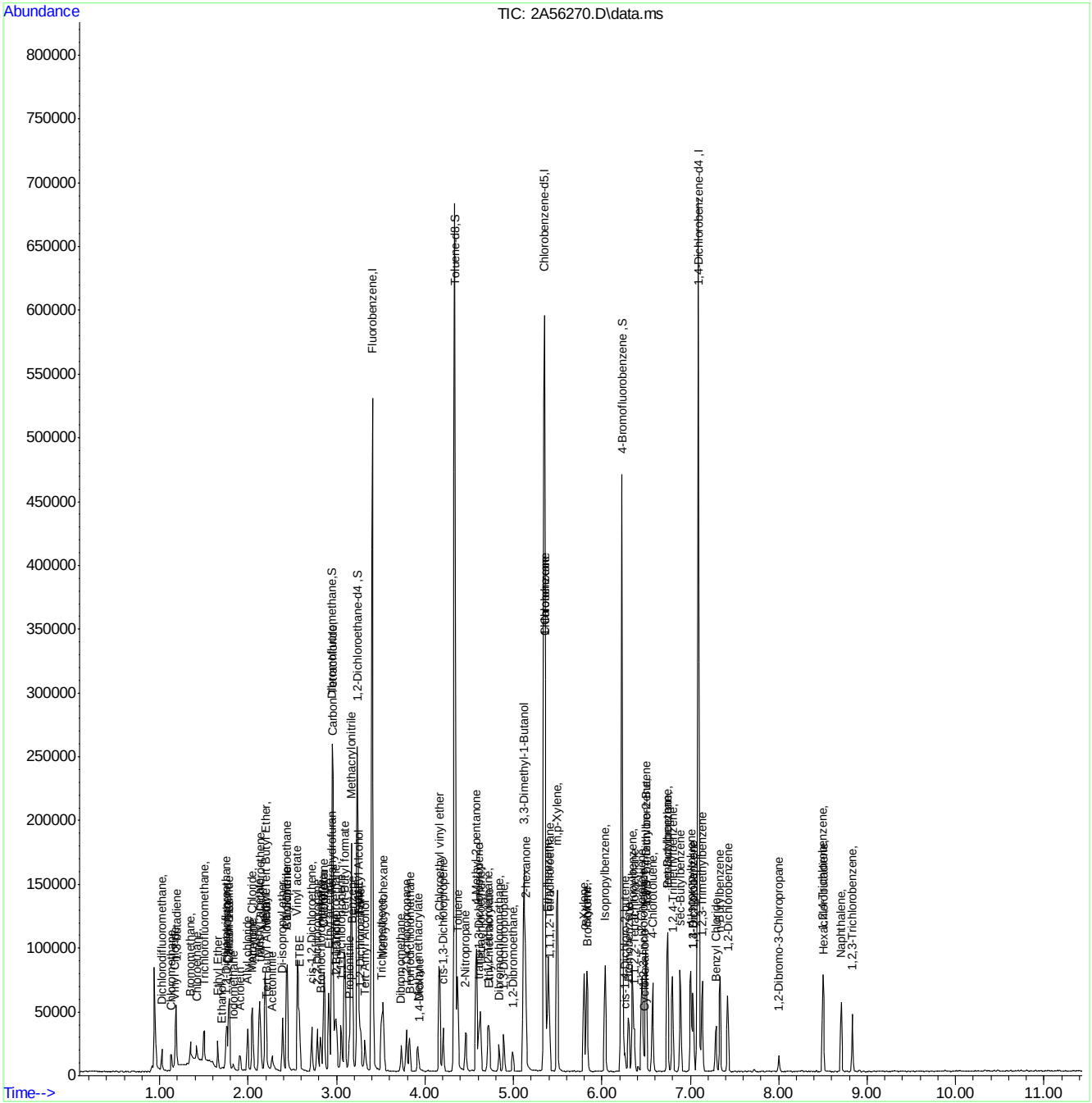
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	25771	7.10	ug/L		95
93)	trans-1,4-Dichloro-2-B...	6.498	53	3193	7.22	ug/L	#	62
94)	1,2,3-Trichloropropane	6.468	110	2713	5.81	ug/L		78
95)	Cyclohexanone	6.475	55	1609	41.56	ug/L		79
96)	4-Chlorotoluene	6.575	91	27802	7.21	ug/L		89
97)	tert-Butylbenzene	6.745	91	19259	7.52	ug/L		83
98)	1,2,4-Trimethylbenzene	6.799	105	30216	6.05	ug/L		97
99)	Pentachloroethane	6.745	167	4415	4.44	ug/L	#	34
100)	sec-Butylbenzene	6.883	105	40998	6.71	ug/L		92
101)	4-Isopropyltoluene	7.006	119	34277	6.53	ug/L		96
102)	1,3-Dichlorobenzene	7.029	146	17725	5.40	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	29691	6.44	ug/L		98
104)	1,4-Dichlorobenzene	7.029	146	17725	5.36	ug/L		92
105)	n-Butylbenzene	7.337	92	15502	6.57	ug/L		93
106)	Benzyl Chloride	7.291	126	3671	5.51	ug/L	#	63
107)	1,2-Dichlorobenzene	7.422	146	16452	5.65	ug/L		90
108)	1,2-Dibromo-3-Chloropr...	7.999	75	2113	7.45	ug/L	#	41
109)	Hexachlorobutadiene	8.507	225	4613	4.48	ug/L		95
110)	1,2,4-Trichlorobenzene	8.499	180	9919	5.13	ug/L		97
111)	Naphthalene	8.707	128	26536	6.23	ug/L		99
112)	1,2,3-Trichlorobenzene	8.830	180	8673	4.85	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:47:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V2A1910-IC1910
Lab FileID: 2A56270.D
Injection Time: 06/25/24 09:11

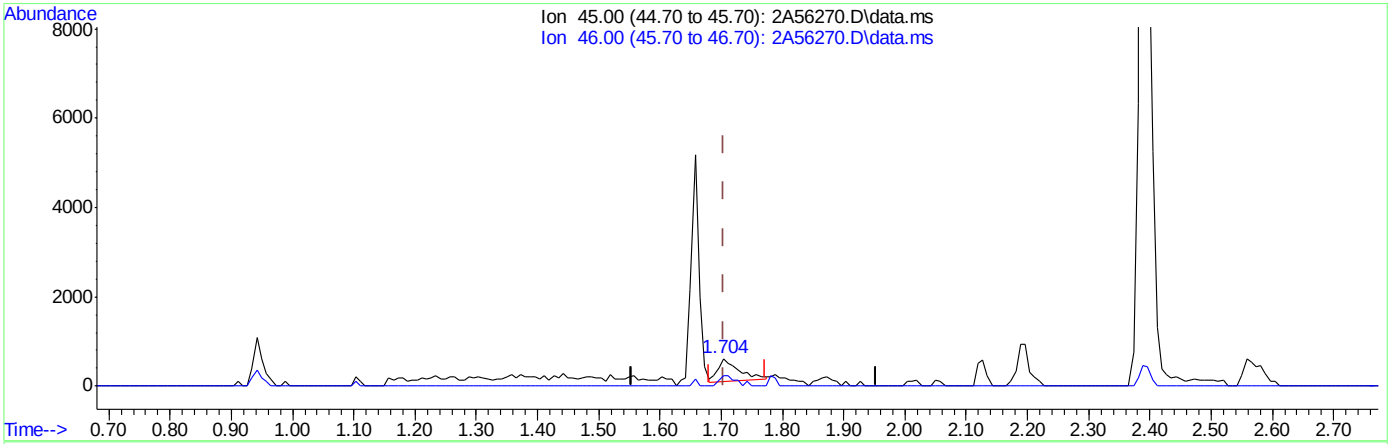
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

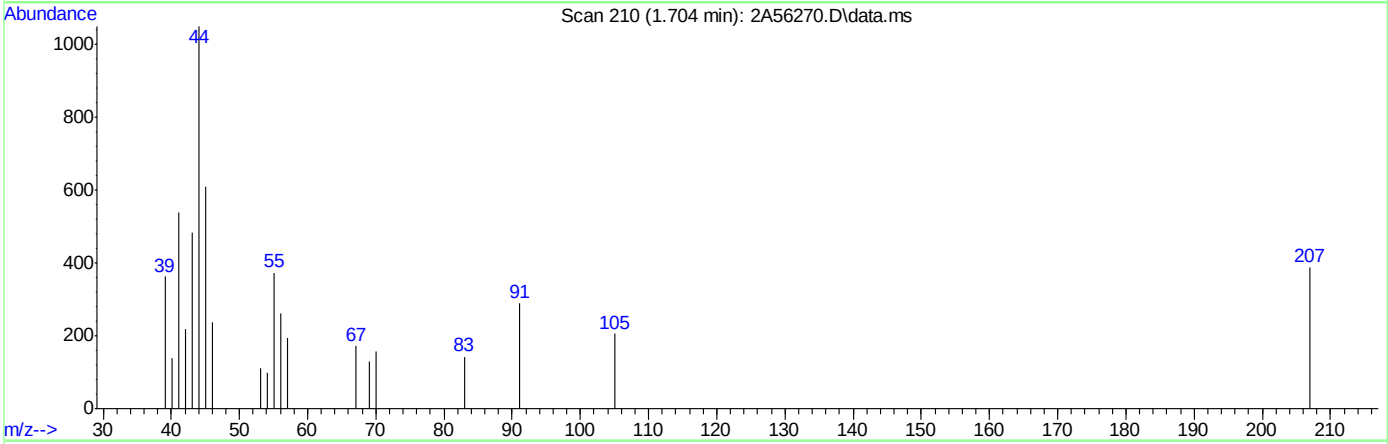
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.70	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(10) Ethanol

1.704min (-0.000) 113.87ug/L

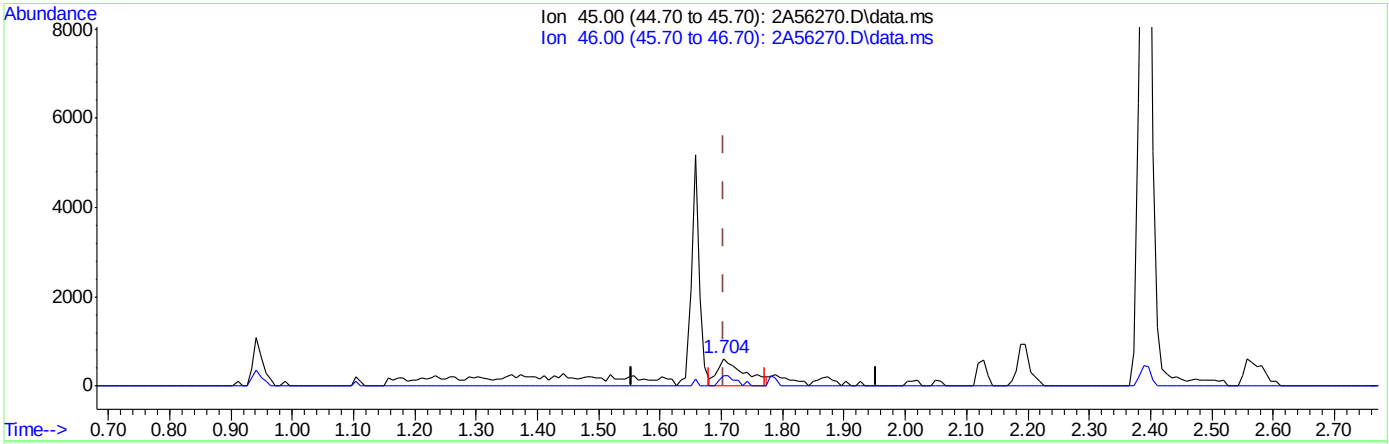
response 1216

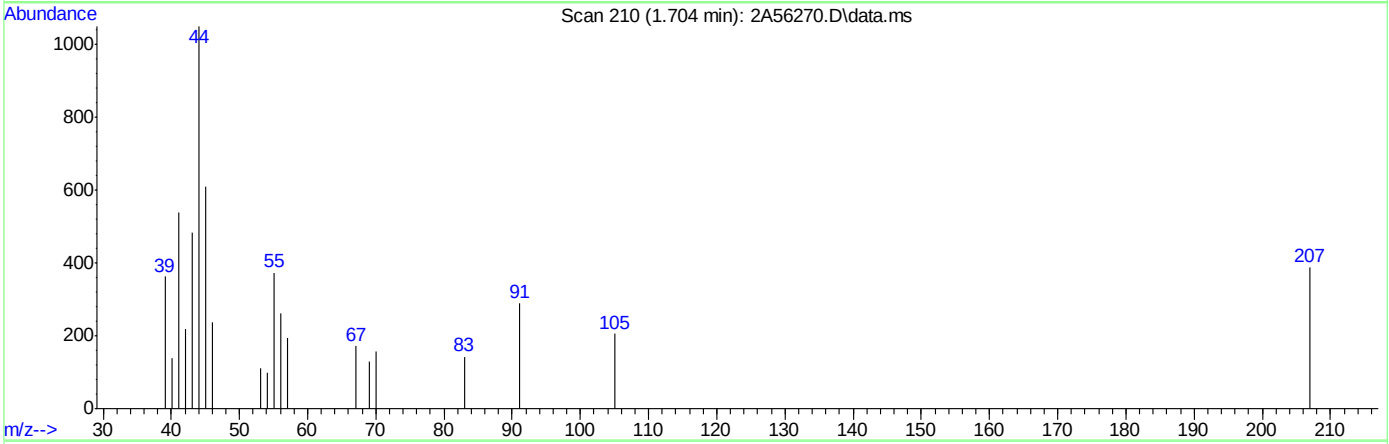
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	53.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(10) Ethanol

1.704min (-0.000) 175.40ug/L m

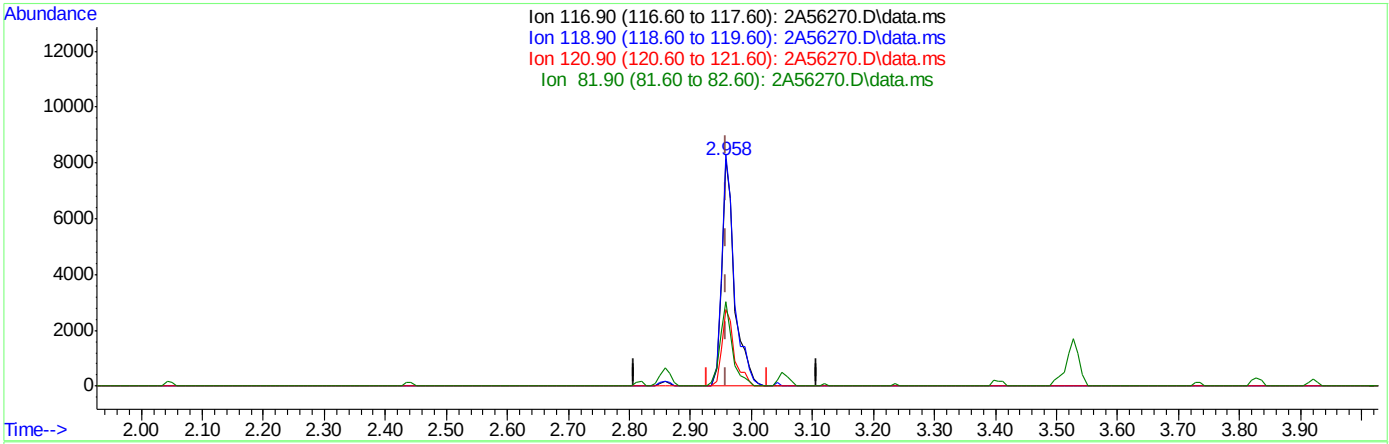
response 1873

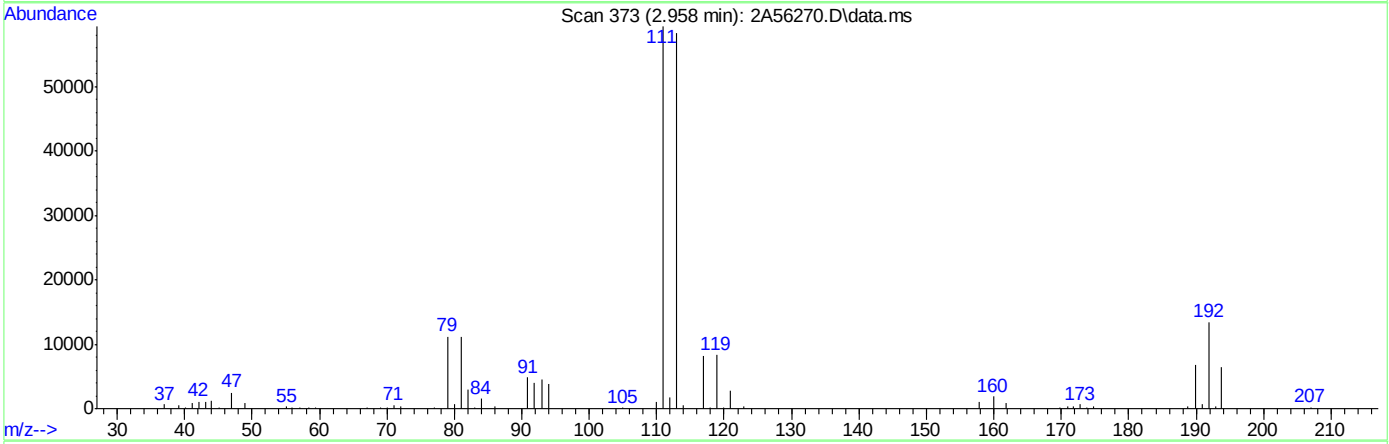
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 5.38ug/L

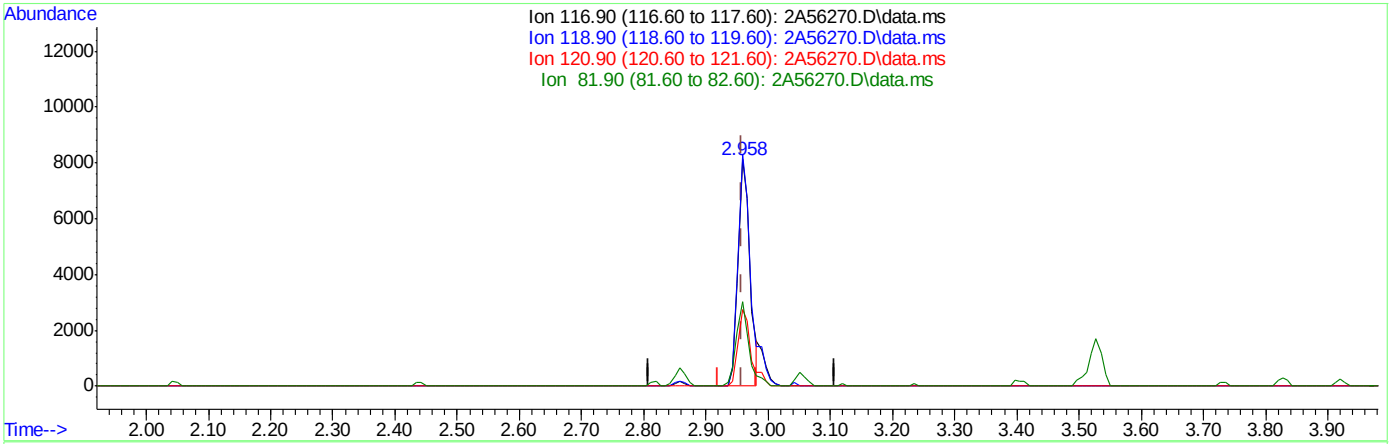
response 11886

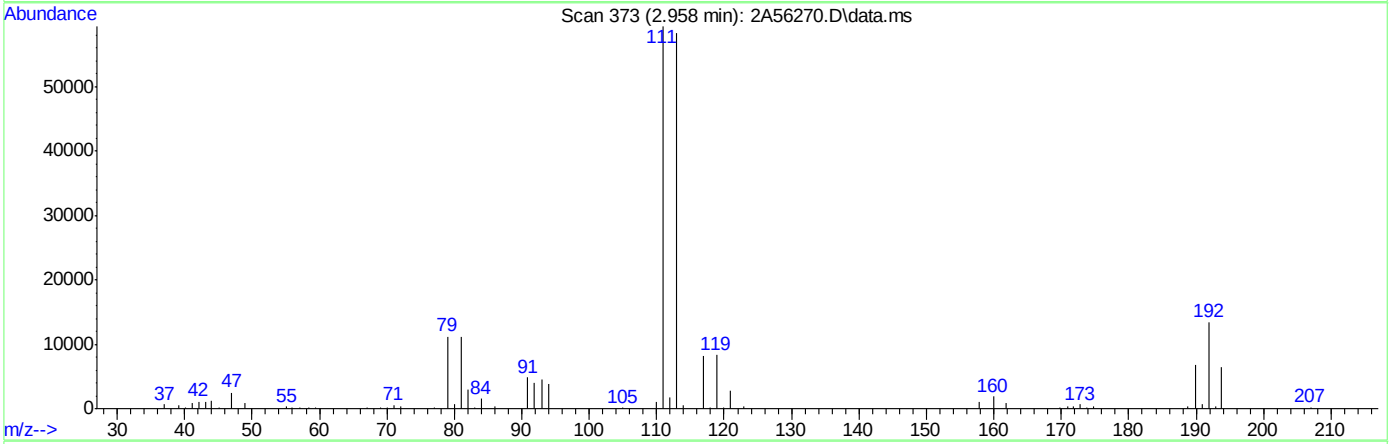
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	102.37
120.90	31.00	33.84
81.90	19.00	37.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 4.89ug/L m

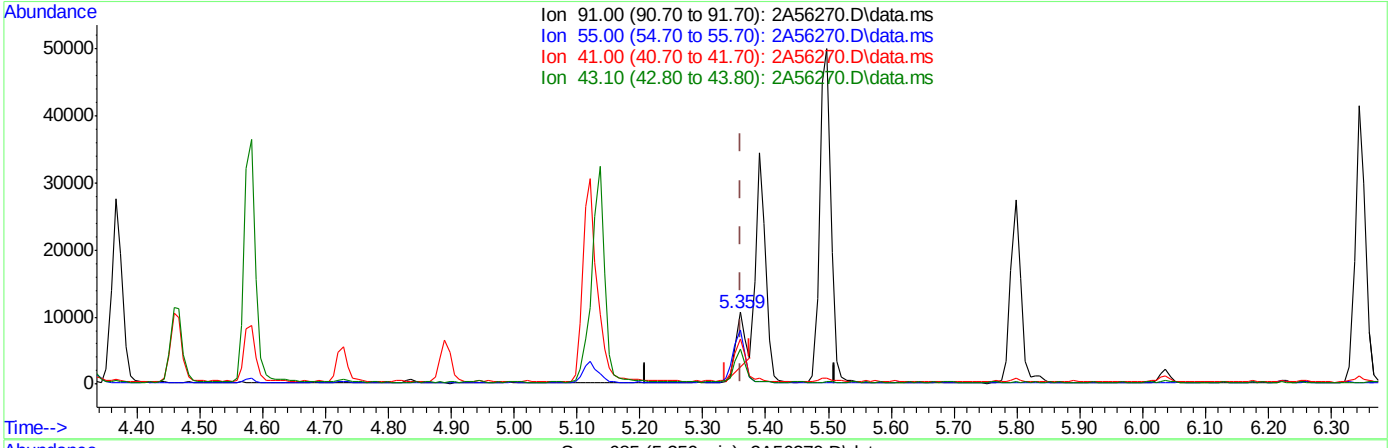
response 10794

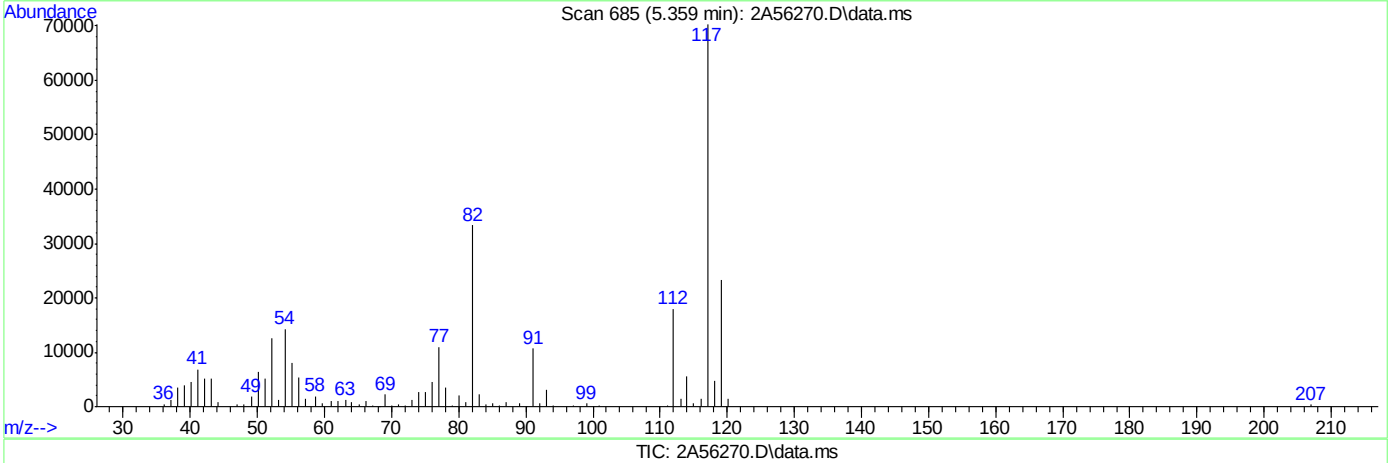
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	102.37
120.90	31.00	33.84
81.90	19.00	37.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 4.25ug/L

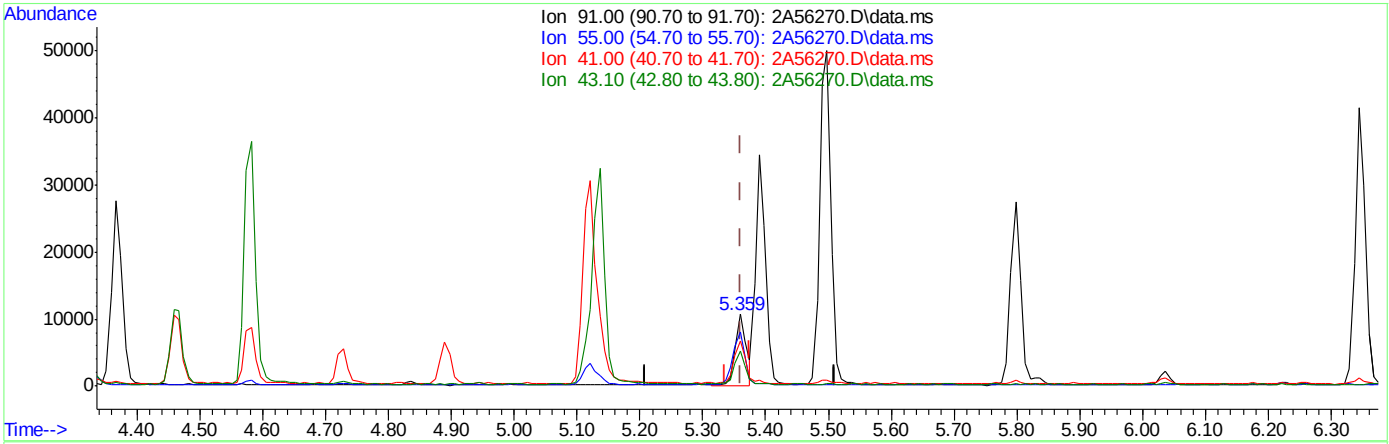
response 8066

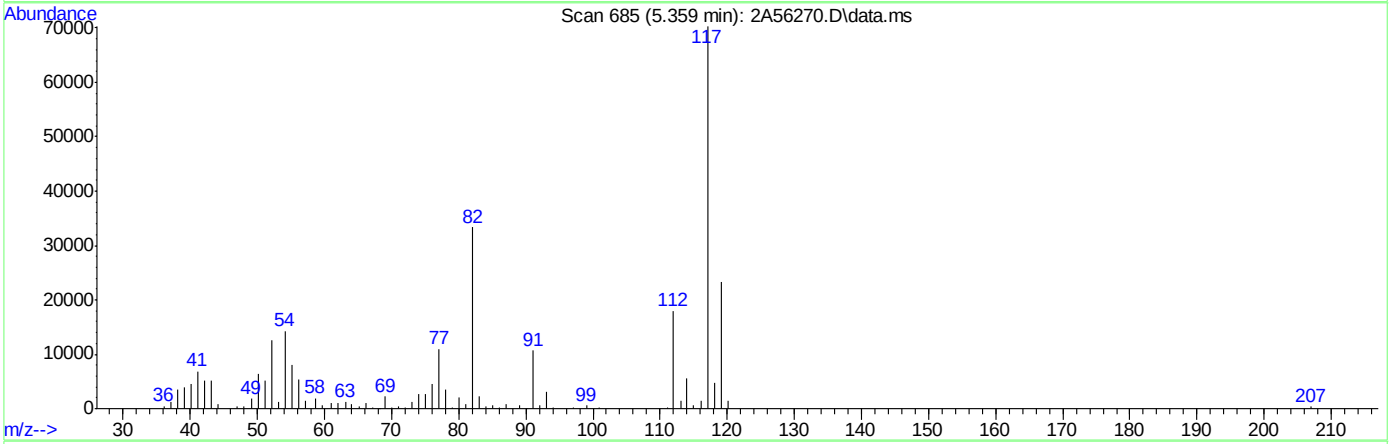
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	70.00
41.00	39.20	60.21#
43.10	33.20	45.83

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 6.78ug/L m

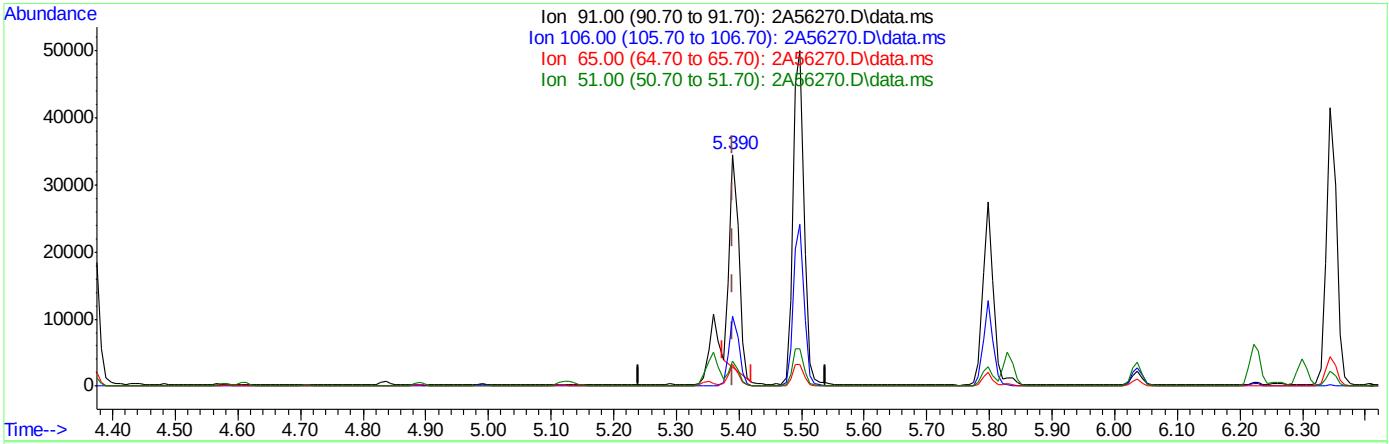
response 12879

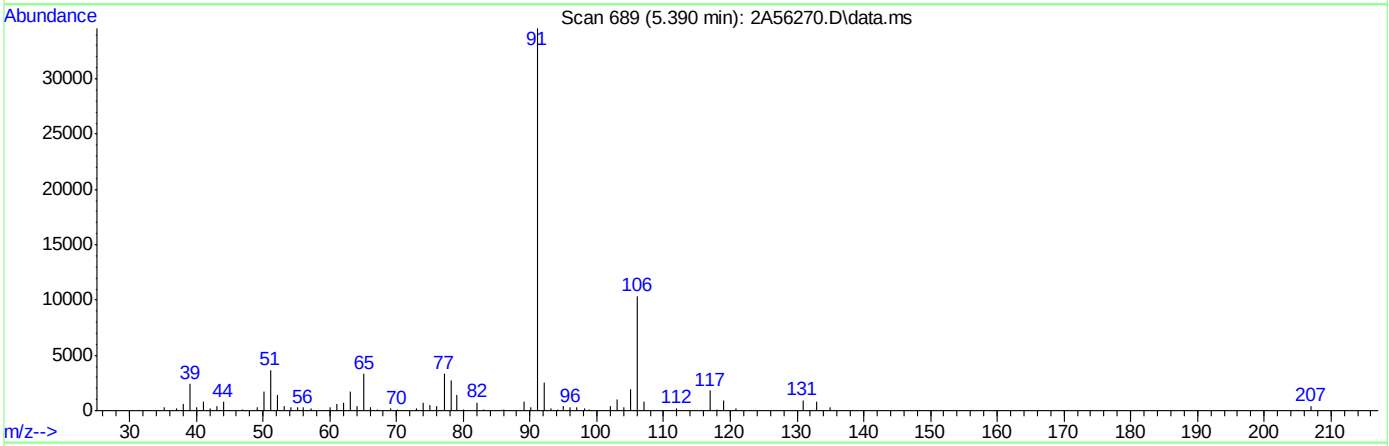
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	76.03
41.00	39.20	63.79#
43.10	33.20	48.68

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 5.40ug/L

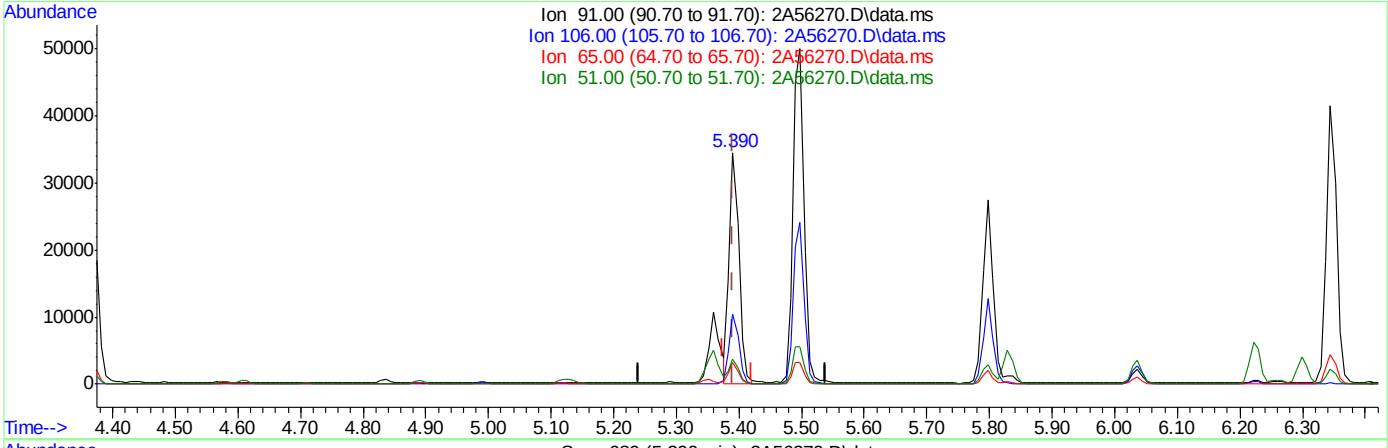
response 31668

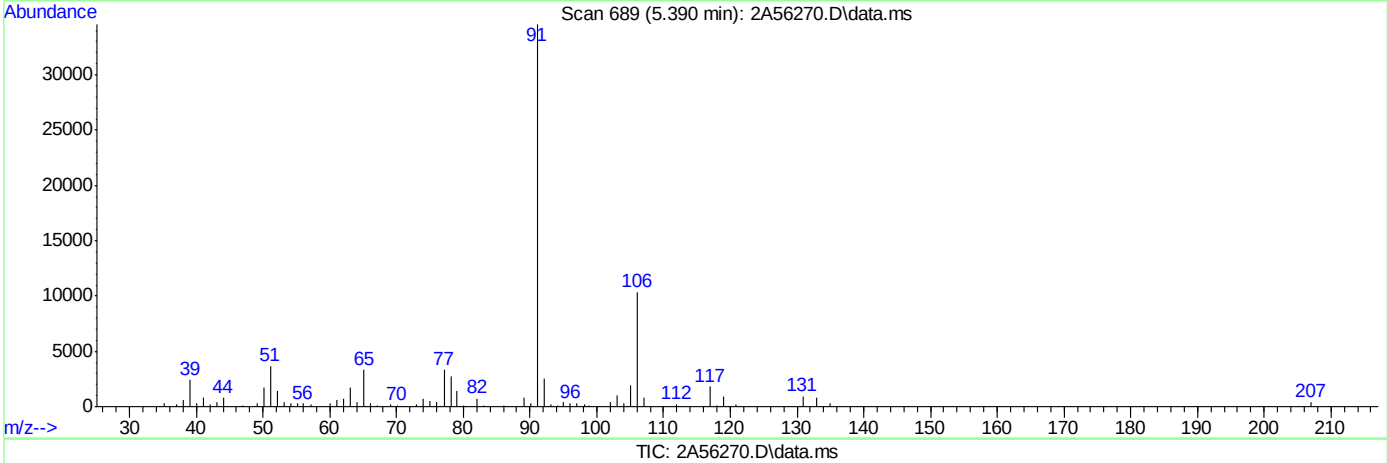
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.48
65.00	7.10	9.75
51.00	7.10	10.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56270.D
Acq On : 25 Jun 2024 9:11 am
Operator : jeniferw
Sample : IC1910-2
Misc : MS56892,V2A1910,,,,,
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Jun 25 11:23:20 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56270.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 6.40ug/L m

response 37564

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.00
65.00	7.10	9.59
51.00	7.10	10.62

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	290777	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	213893	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	129243	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	84916	49.12	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.24%				
49) 1,2-Dichloroethane-d4	3.235	65	102050	63.66	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 127.32%#				
63) Toluene-d8	4.336	98	295093	55.10	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.20%				
86) 4-Bromofluorobenzene	6.229	174	102012	49.49	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.98%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	13953	9.39	ug/L		98
3) Chloromethane	1.126	50	16638	12.52	ug/L		100
4) 1,3-butadiene	1.188	39	20150	27.58	ug/L	#	77
5) Vinyl Chloride	1.173	62	15816	14.67	ug/L		100
6) Bromomethane	1.350	94	7552	16.92	ug/L		96
7) Chloroethane	1.419	64	9616	17.00	ug/L		93
8) Trichlorofluoromethane	1.496	101	22668	12.03	ug/L		98
9) Ethyl Ether	1.657	59	11870	14.08	ug/L		89
10) Ethanol	1.704	45	3837m	352.05	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	12263	13.68	ug/L		93
12) 1,1-Dichloroethene	1.765	61	22467	13.68	ug/L		90
13) Freon 113	1.788	101	14215	10.20	ug/L	#	87
14) Carbon Disulfide	1.781	76	42647	11.47	ug/L		78
15) Iodomethane	1.834	142	7197	8.08	ug/L		87
16) Acrolein	1.904	56	13880	61.19	ug/L		97
17) Allyl chloride	1.996	41	21397	16.76	ug/L		82
18) Methylene Chloride	2.042	49	21680	16.15	ug/L	#	70
19) Acetone	2.050	43	28777	81.70	ug/L		82
20) Methyl acetate	2.127	43	72309	78.19	ug/L		89
21) trans-1,2-Dichloroethene	2.135	61	21620	13.36	ug/L	#	75
22) Hexane	2.196	56	13204	11.94	ug/L	#	80
23) Methyl Tert Butyl Ether	2.196	73	41832	12.79	ug/L		69
24) Acetonitrile	2.273	41	19298	144.39	ug/L		97
25) Tert Butyl Alcohol	2.212	59	24332	140.76	ug/L		72
26) Di-isopropyl ether	2.389	45	45748	17.62	ug/L		84
27) Chloroprene	2.435	53	59883	14.65	ug/L		88
28) 1,1-Dichloroethane	2.442	63	27739	12.93	ug/L		99
29) Acrylonitrile	2.435	52	37186	76.76	ug/L		94
30) ETBE	2.581	59	44090	14.07	ug/L		91
31) Vinyl acetate	2.558	43	185708	101.66	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	16251	10.29	ug/L	#	75
33) 2,2-Dichloropropane	2.781	77	22047	13.04	ug/L		95
34) Bromochloromethane	2.820	128	8053	8.85	ug/L	#	64
35) Cyclohexane	2.858	56	27587	14.38	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	28459	11.58	ug/L		94
37) Ethyl acetate	2.912	43	99386	93.75	ug/L		91
38) Tetrahydrofuran	2.943	42	7300	17.40	ug/L		82
40) Carbon Tetrachloride	2.958	117	22350m	9.91	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	24449	10.98	ug/L		94
42) 2-Butanone	2.997	43	48090	84.40	ug/L		79
43) 1,1-Dichloropropene	3.050	75	20240	12.72	ug/L		77
44) tert-Butyl formate	3.089	59	58432	63.30	ug/L		97
45) Propionitrile	3.143	54	26816	123.73	ug/L		99
46) Methacrylonitrile	3.166	41	105576	161.32	ug/L		94
47) Benzene	3.181	78	57307	11.33	ug/L		89
48) TAME	3.251	73	37843	12.50	ug/L		80
50) 1,2-Dichloroethane	3.274	62	21513	13.22	ug/L		95
51) Isobutyl Alcohol	3.251	43	29402	319.92	ug/L		83
52) Tert Amyl Alcohol	3.320	59	19740	143.57	ug/L		91
53) Trichloroethene	3.505	95	16613	11.20	ug/L		83
54) Methylcyclohexane	3.528	83	26473	11.25	ug/L		83
55) Dibromomethane	3.728	93	10202	11.49	ug/L	#	71
56) 1,2-Dichloropropane	3.789	63	14853	13.23	ug/L		88
57) Bromodichloromethane	3.828	83	20610	11.90	ug/L	#	96
58) Methyl methacrylate	3.920	41	13286	16.73	ug/L	#	71
59) 1,4-Dioxane	3.936	88	3206	210.01	ug/L		86
60) 2-Chloroethyl vinyl ether	4.159	63	52300	73.71	ug/L		81
61) cis-1,3-Dichloropropene	4.205	75	22915	12.46	ug/L		78
64) Toluene	4.367	91	63392	12.16	ug/L		100
65) 2-Nitropropane	4.459	41	27955	102.36	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	97544	99.73	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	20918	13.64	ug/L		80
68) Tetrachloroethene	4.628	166	16329	8.63	ug/L		94
69) Ethyl methacrylate	4.728	69	18215	13.94	ug/L	#	65
70) 1,1,2-Trichloroethane	4.713	83	11408	12.98	ug/L		88
71) Dibromochloromethane	4.836	129	14782	10.06	ug/L		97
72) 1,3-Dichloropropane	4.890	76	21132	13.07	ug/L		77
73) 1,2-Dibromoethane	4.990	107	14403	11.24	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	122296	820.13	ug/L		95
75) 2-hexanone	5.136	43	98425	102.47	ug/L		74
76) 1-Chlorohexane	5.359	91	24070m	12.78	ug/L		
77) Ethylbenzene	5.390	91	73002m	12.54	ug/L		
78) Chlorobenzene	5.359	112	41259	10.97	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	13901	10.10	ug/L		97
80) m,p-Xylene	5.498	91	119650	25.05	ug/L		94
81) o-Xylene	5.798	91	62747	12.89	ug/L		92
82) Styrene	5.829	104	45451	12.14	ug/L		90
83) Bromoform	5.837	173	10475	8.82	ug/L		98
84) Isopropylbenzene	6.037	105	73797	11.84	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	4680	12.44	ug/L	#	73
88) n-Propylbenzene	6.345	91	91046	14.54	ug/L		89
89) Bromobenzene	6.298	156	17327	10.40	ug/L	#	60
90) 1,1,2,2-Tetrachloroethane	6.368	83	20810	14.73	ug/L		95
91) 1,3,5-Trimethylbenzene	6.498	105	62139	13.12	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

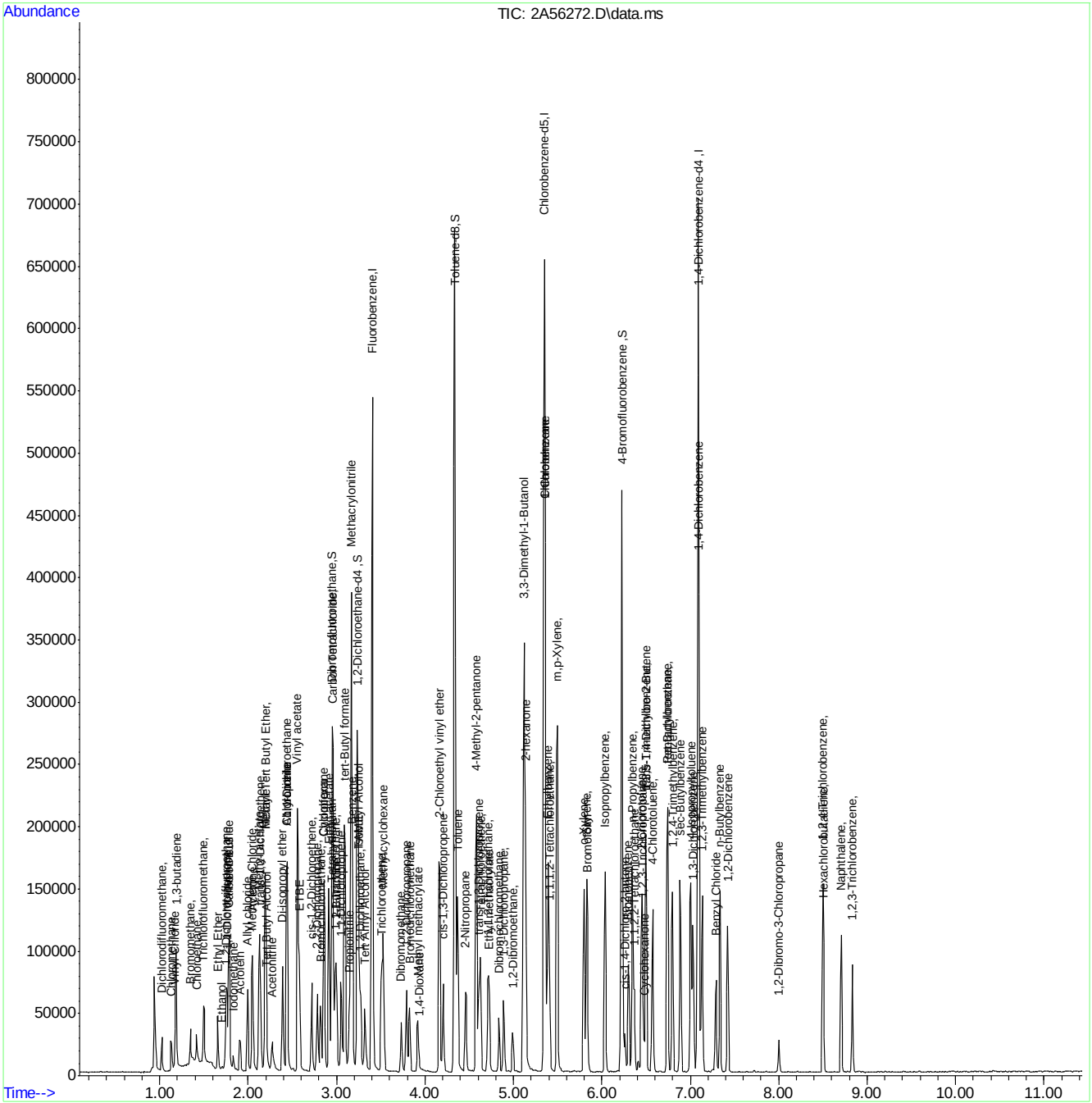
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	50382	13.87	ug/L		95
93)	trans-1,4-Dichloro-2-B...	6.498	53	6293	14.21	ug/L	#	66
94)	1,2,3-Trichloropropane	6.460	110	5545	11.86	ug/L	#	60
95)	Cyclohexanone	6.475	55	3411	88.03	ug/L	#	82
96)	4-Chlorotoluene	6.575	91	54787	14.19	ug/L		90
97)	tert-Butylbenzene	6.745	91	37923	14.78	ug/L		84
98)	1,2,4-Trimethylbenzene	6.799	105	58095	11.61	ug/L		98
99)	Pentachloroethane	6.745	167	9068	9.10	ug/L	#	43
100)	sec-Butylbenzene	6.883	105	79089	12.93	ug/L		92
101)	4-Isopropyltoluene	7.006	119	66778	12.71	ug/L		96
102)	1,3-Dichlorobenzene	7.029	146	34496	10.49	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	58957	12.77	ug/L		96
104)	1,4-Dichlorobenzene	7.099	146	34455	10.41	ug/L		85
105)	n-Butylbenzene	7.337	92	30653	12.98	ug/L		92
106)	Benzyl Chloride	7.291	126	7621	11.42	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	31482	10.80	ug/L		90
108)	1,2-Dibromo-3-Chloropr...	7.999	75	4274	15.06	ug/L	#	44
109)	Hexachlorobutadiene	8.507	225	8847	8.59	ug/L		93
110)	1,2,4-Trichlorobenzene	8.499	180	19186	9.92	ug/L		96
111)	Naphthalene	8.707	128	53220	12.49	ug/L		99
112)	1,2,3-Trichlorobenzene	8.830	180	17130	9.57	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:57:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

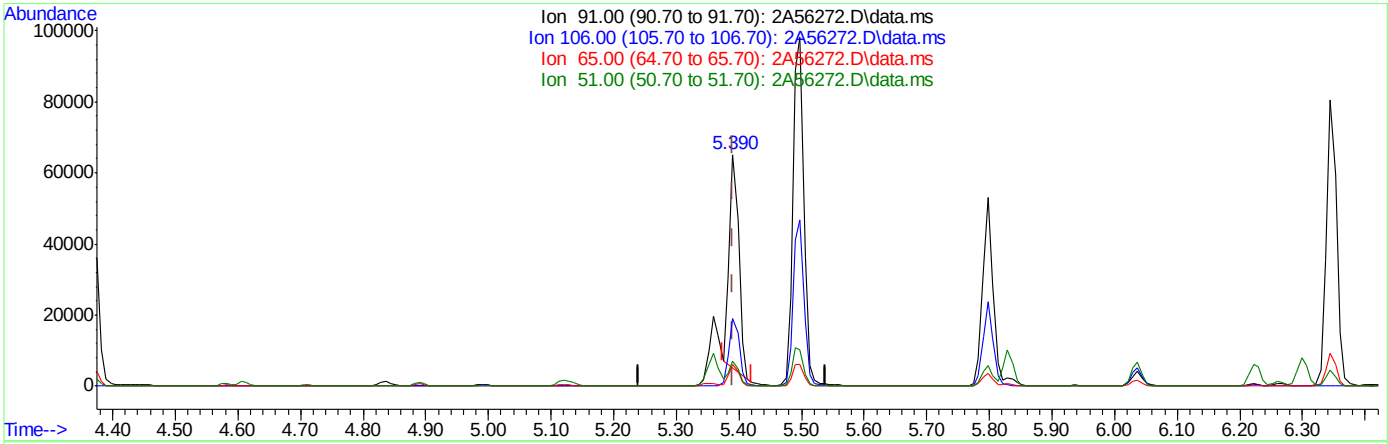
Sample Number: V2A1910-IC1910
Lab FileID: 2A56272.D
Injection Time: 06/25/24 09:43
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

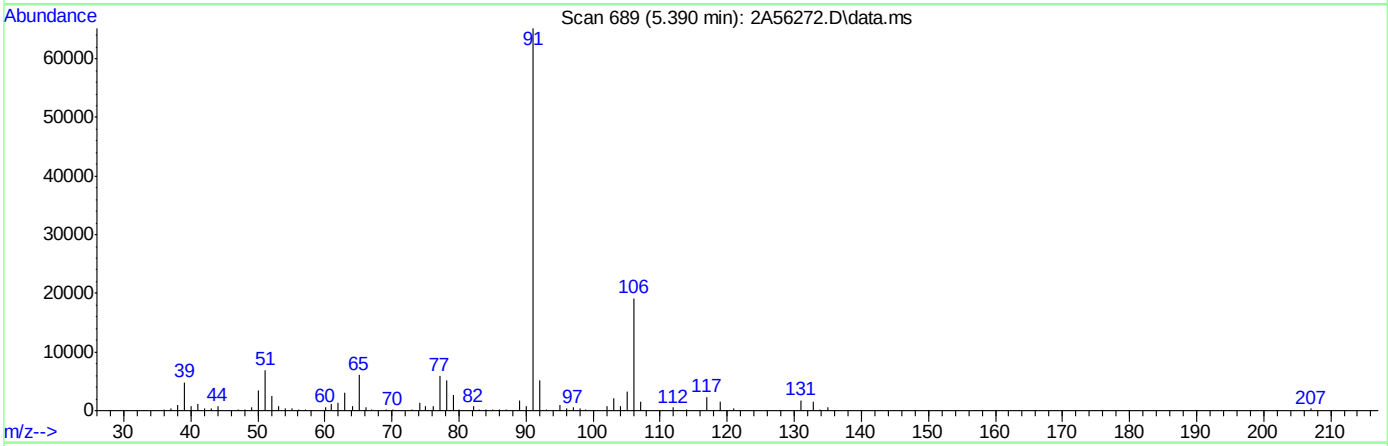
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.70	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 10.65ug/L

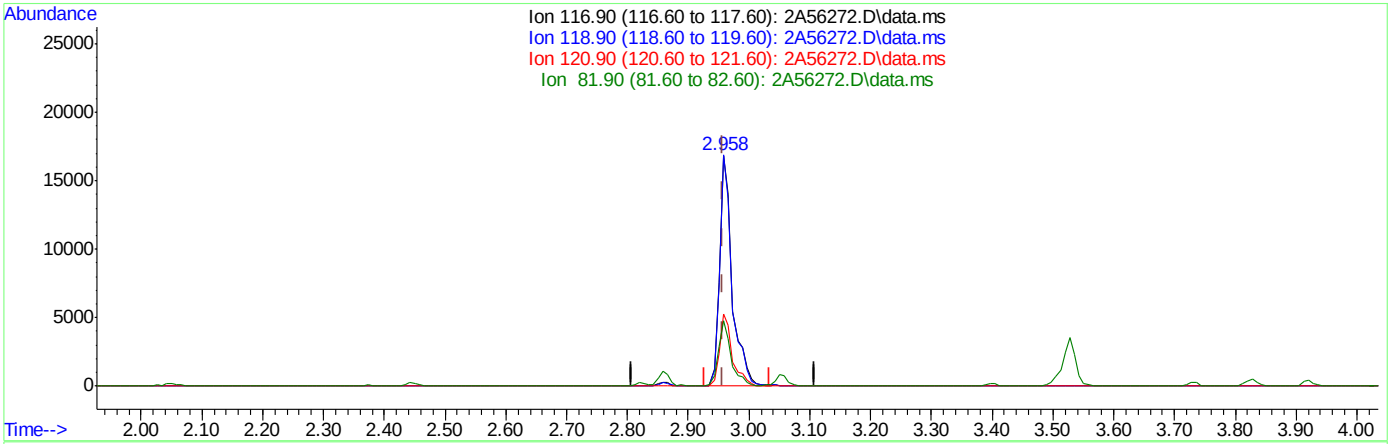
response 61959

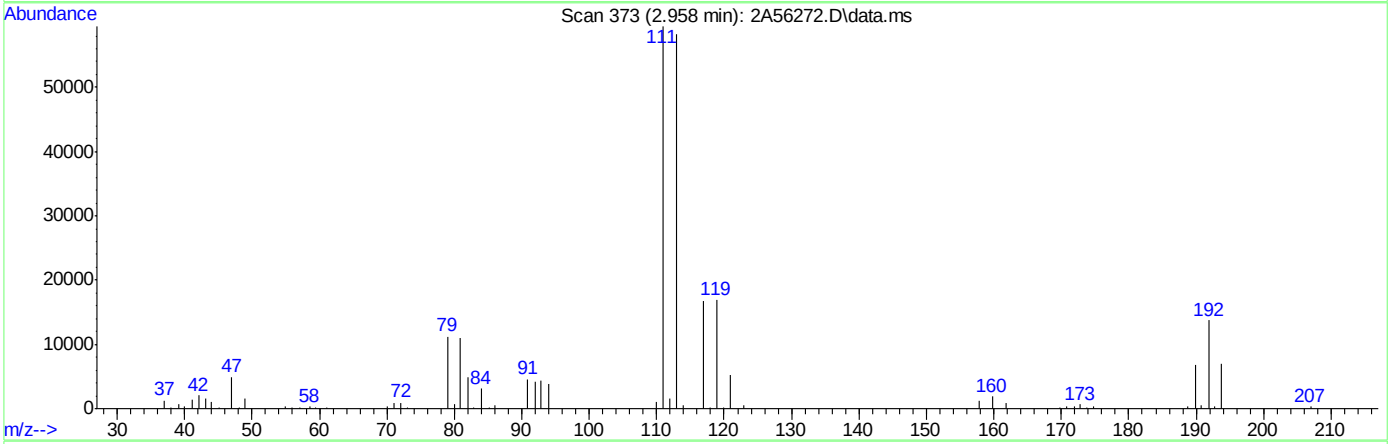
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.36
65.00	7.10	9.25
51.00	7.10	10.55

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 10.93ug/L

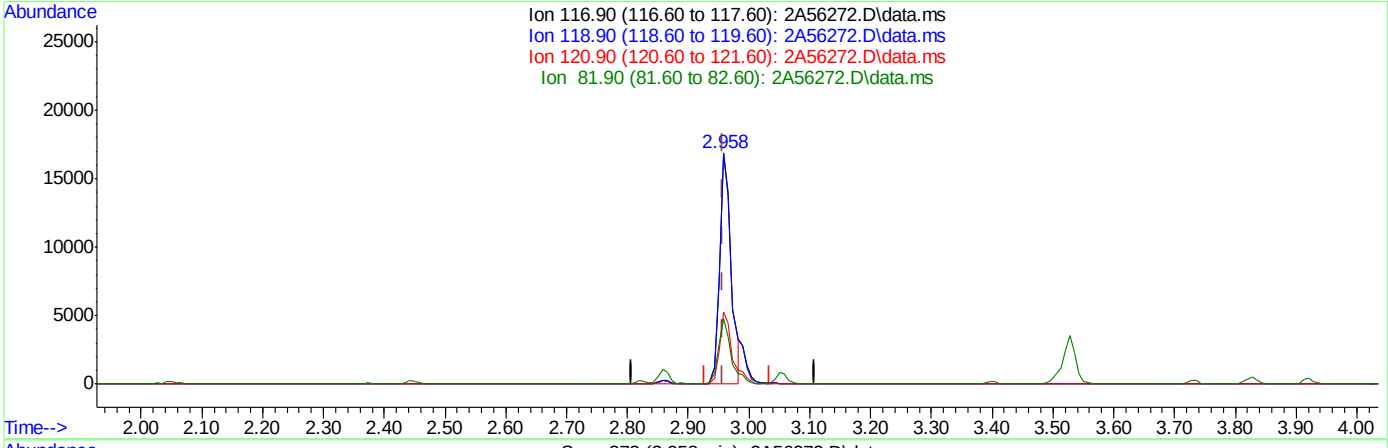
response 24649

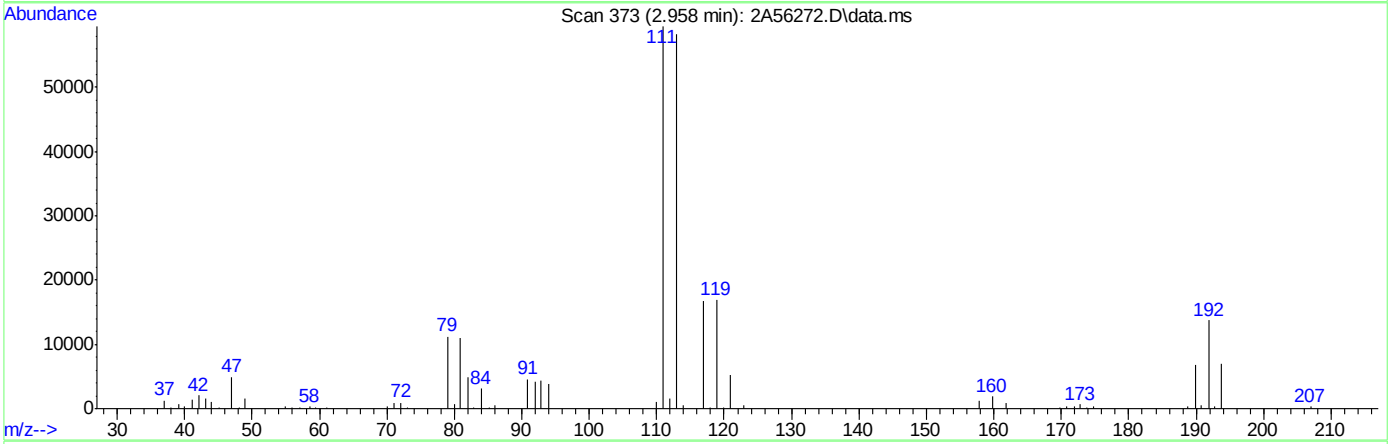
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	100.57
120.90	31.00	31.52
81.90	19.00	28.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (+0.000) 9.91ug/L m

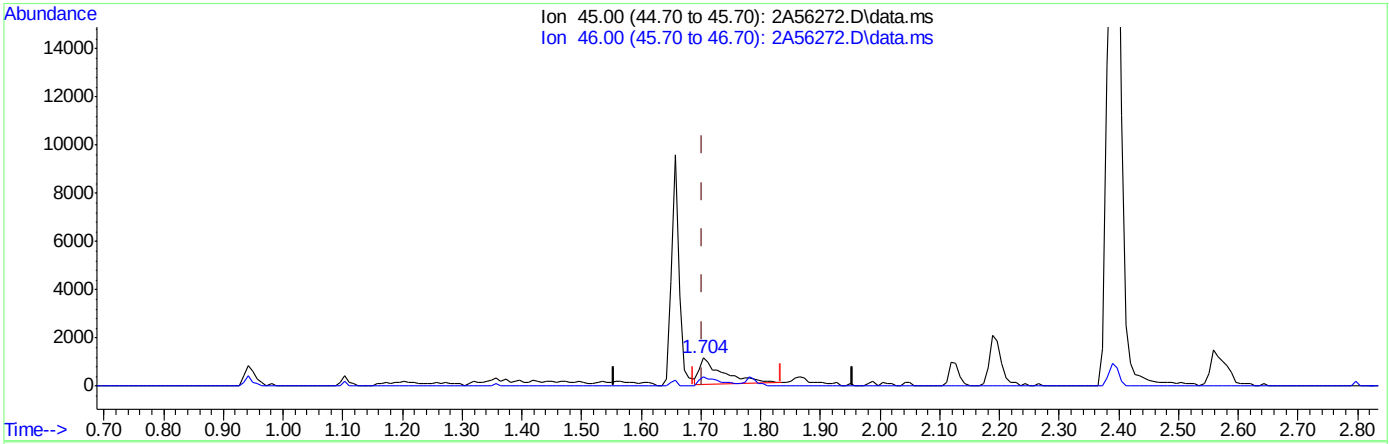
response 22350

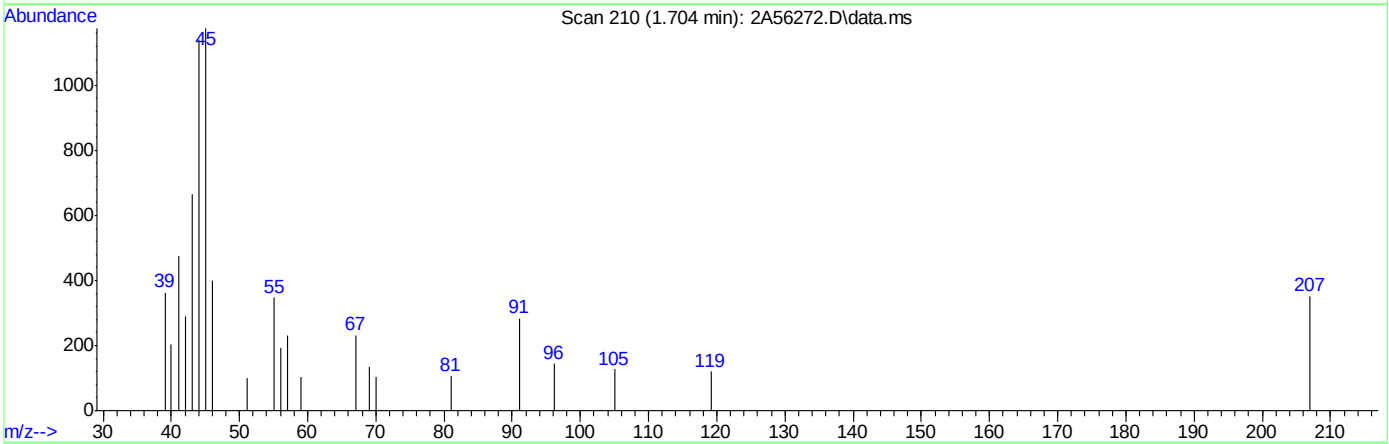
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	100.57
120.90	31.00	31.52
81.90	19.00	28.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(10) Ethanol

1.704min (-0.000) 282.22ug/L

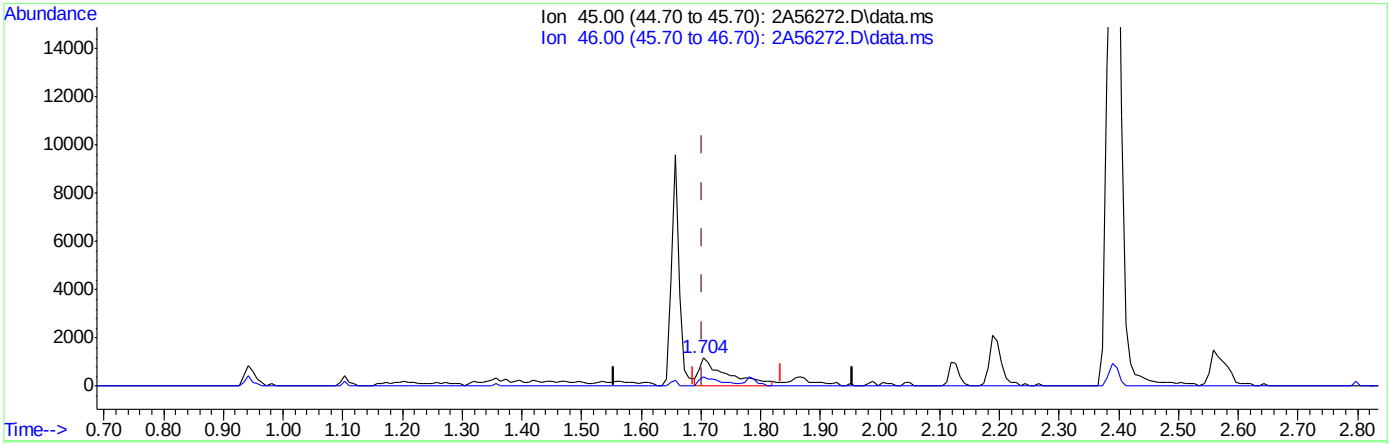
response 3076

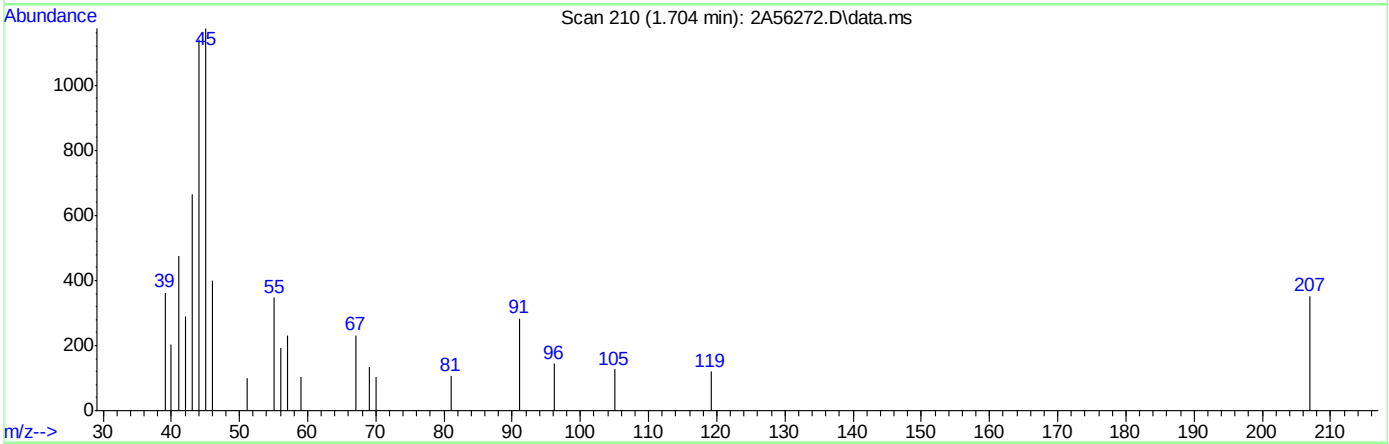
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	39.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(10) Ethanol

1.704min (-0.000) 352.05ug/L m

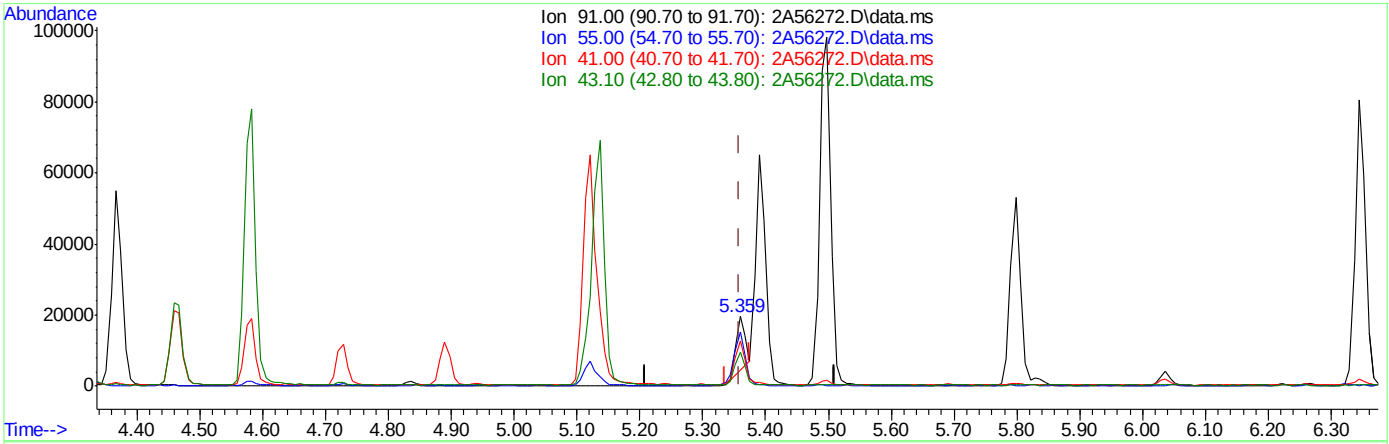
response 3837

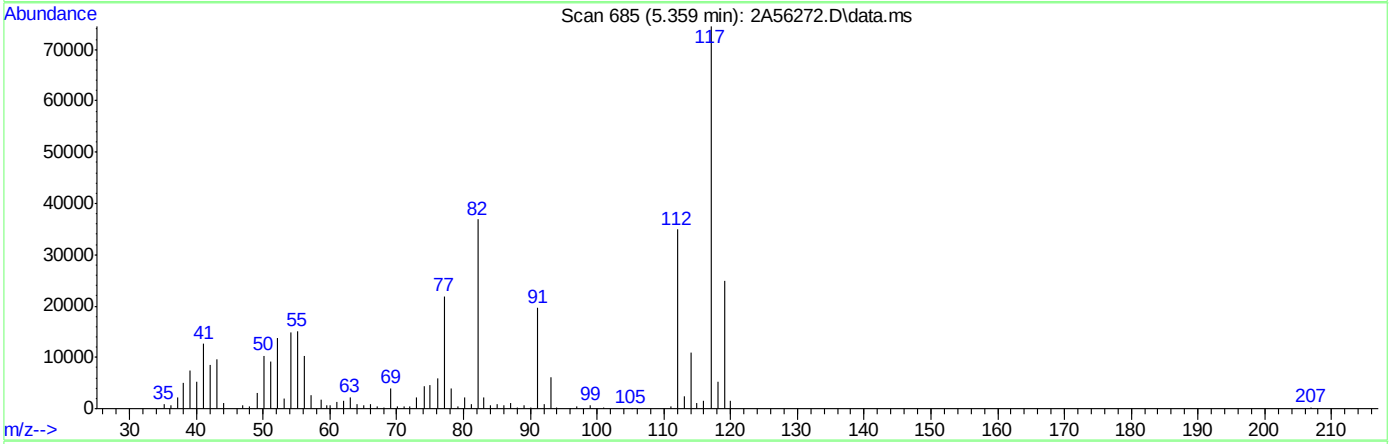
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	34.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 8.36ug/L

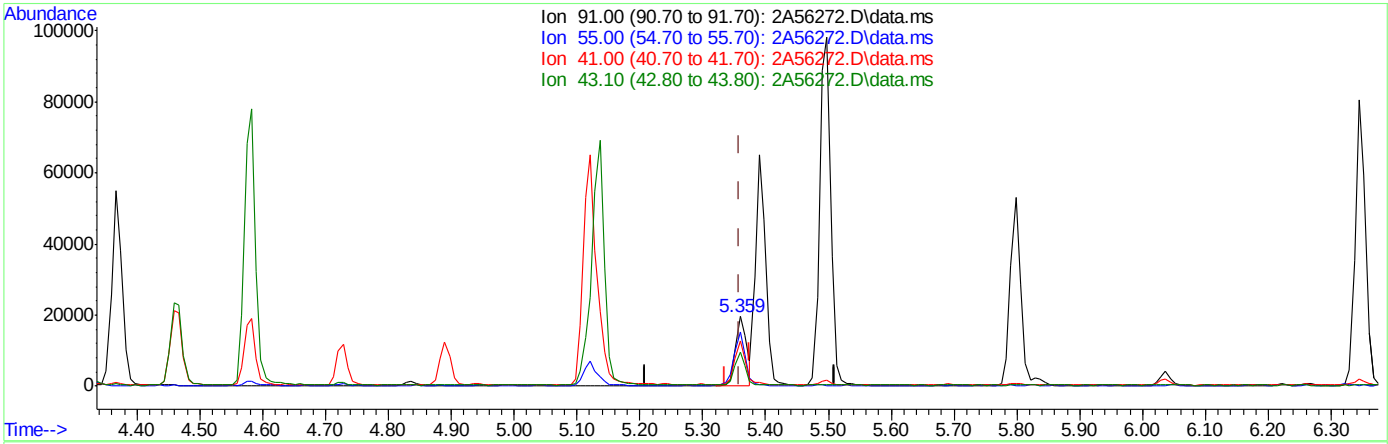
response 15740

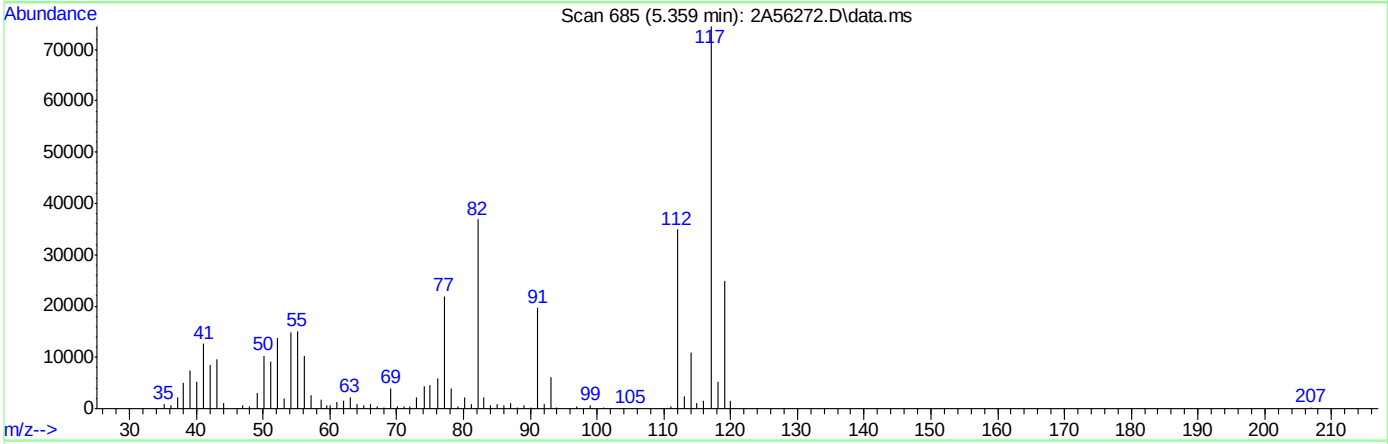
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.35
41.00	39.20	62.03#
43.10	33.20	46.76

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 12.78ug/L m

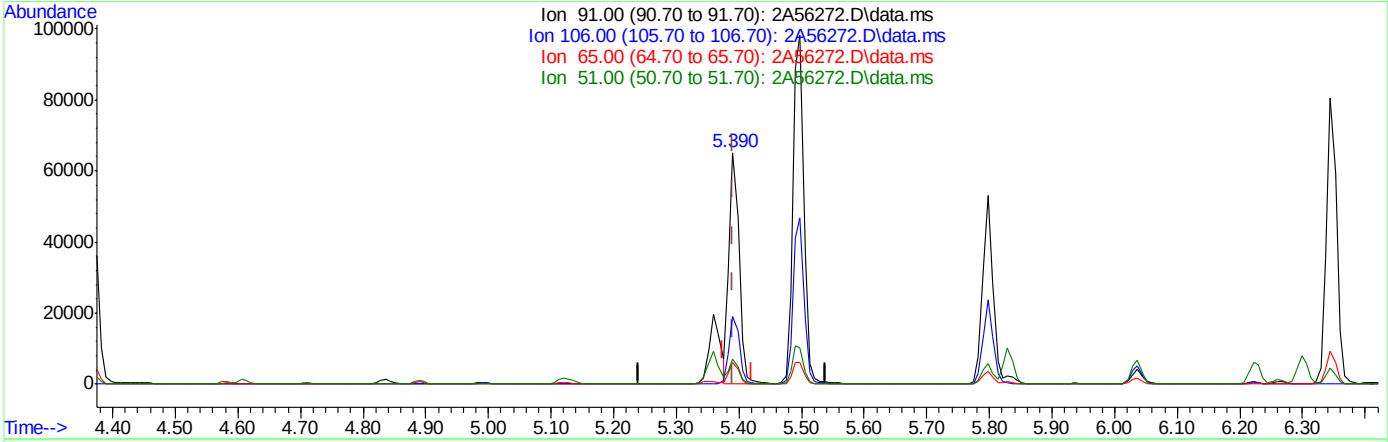
response 24070

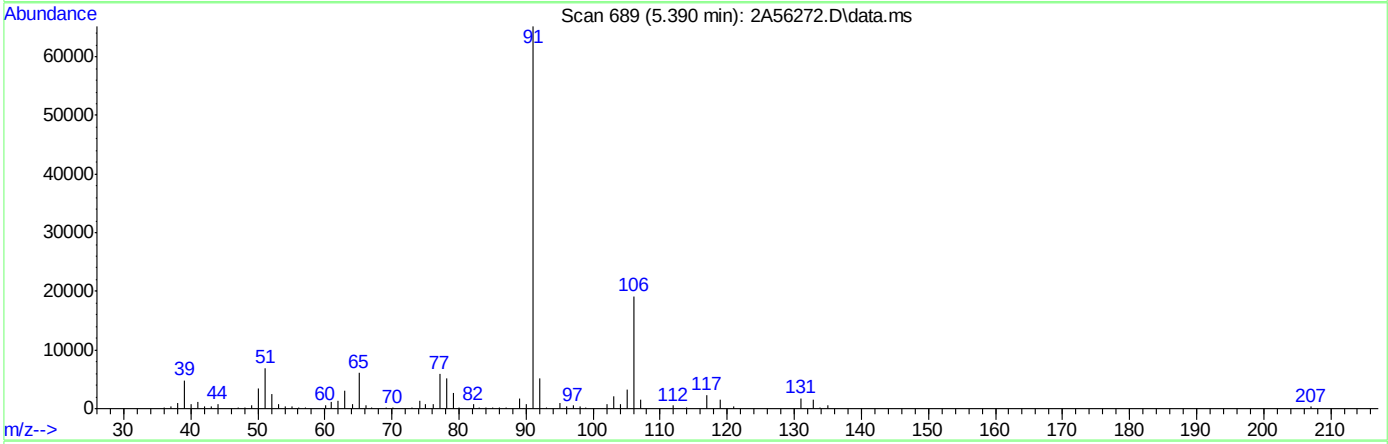
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.16
41.00	39.20	64.61#
43.10	33.20	48.63

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56272.D
Acq On : 25 Jun 2024 9:43 am
Operator : jeniferw
Sample : IC1910-3
Misc : MS56892,V2A1910,,,,,
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Jun 25 11:23:22 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56272.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 12.54ug/L m

response 73002

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.45
65.00	7.10	9.29
51.00	7.10	10.69

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	294559	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.351	117	213174	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	128717	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	83854	47.88	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.76%				
49) 1,2-Dichloroethane-d4	3.235	65	102855	63.34	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 126.68%#				
63) Toluene-d8	4.336	98	295258	55.32	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.64%				
86) 4-Bromofluorobenzene	6.229	174	101348	49.37	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.018	85	35457	23.56	ug/L		95
3) Chloromethane	1.126	50	39105	29.05	ug/L		99
4) 1,3-butadiene	1.180	39	49437	66.79	ug/L	#	73
5) Vinyl Chloride	1.172	62	39054	35.77	ug/L		98
6) Bromomethane	1.342	94	17218	38.08	ug/L		98
7) Chloroethane	1.411	64	22039	43.41	ug/L		96
8) Trichlorofluoromethane	1.496	101	55563	29.11	ug/L		98
9) Ethyl Ether	1.657	59	28751	33.66	ug/L		93
10) Ethanol	1.703	45	7969	721.77	ug/L		79
11) 1,2-Dichlorotrifluoroe...	1.742	67	29653	32.65	ug/L		87
12) 1,1-Dichloroethene	1.757	61	55024	33.08	ug/L		86
13) Freon 113	1.788	101	34707	24.59	ug/L		91
14) Carbon Disulfide	1.780	76	104611	27.77	ug/L		81
15) Iodomethane	1.834	142	26195	25.89	ug/L		91
16) Acrolein	1.904	56	36021	156.75	ug/L		97
17) Allyl chloride	1.996	41	54572	42.19	ug/L		82
18) Methylene Chloride	2.042	49	50236	36.94	ug/L	#	71
19) Acetone	2.050	43	76155	213.44	ug/L		83
20) Methyl acetate	2.119	43	181530	193.78	ug/L		86
21) trans-1,2-Dichloroethene	2.134	61	53192	32.45	ug/L		77
22) Hexane	2.196	56	34197	30.52	ug/L	#	81
23) Methyl Tert Butyl Ether	2.188	73	101676	30.70	ug/L		88
24) Acetonitrile	2.273	41	50270	389.01	ug/L		95
25) Tert Butyl Alcohol	2.204	59	57232	326.83	ug/L	#	1
26) Di-isopropyl ether	2.388	45	110997	42.20	ug/L		86
27) Chloroprene	2.435	53	152807	36.90	ug/L		90
28) 1,1-Dichloroethane	2.442	63	67090	30.88	ug/L		99
29) Acrylonitrile	2.435	52	92012	187.48	ug/L		96
30) ETBE	2.581	59	108105	34.06	ug/L		91
31) Vinyl acetate	2.558	43	462960	250.17	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	39155	24.47	ug/L	#	80
33) 2,2-Dichloropropane	2.781	77	53098	31.00	ug/L		95
34) Bromochloromethane	2.819	128	19454	21.10	ug/L	#	65
35) Cyclohexane	2.858	56	67042	34.49	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	68171	27.38	ug/L		95
37) Ethyl acetate	2.912	43	247941	230.88	ug/L		91
38) Tetrahydrofuran	2.943	42	16140	37.98	ug/L		82
40) Carbon Tetrachloride	2.958	117	51225m	22.42	ug/L		
41) 1,1,1-Trichloroethane	2.981	97	58874	26.10	ug/L		91
42) 2-Butanone	2.996	43	125192	216.91	ug/L		81
43) 1,1-Dichloropropene	3.050	75	48976	30.39	ug/L		78
44) tert-Butyl formate	3.089	59	152527	163.11	ug/L		98
45) Propionitrile	3.143	54	69996	318.81	ug/L		97
46) Methacrylonitrile	3.166	41	282661	426.36	ug/L		94
47) Benzene	3.181	78	138439	27.03	ug/L		92
48) TAME	3.250	73	92746	30.25	ug/L	#	73
50) 1,2-Dichloroethane	3.273	62	52740	31.99	ug/L		97
51) Isobutyl Alcohol	3.250	43	74370	798.82	ug/L		87
52) Tert Amyl Alcohol	3.320	59	47419	340.44	ug/L		90
53) Trichloroethene	3.504	95	39864	26.53	ug/L		85
54) Methylcyclohexane	3.527	83	63772	26.74	ug/L		84
55) Dibromomethane	3.728	93	25138	27.95	ug/L	#	73
56) 1,2-Dichloropropane	3.789	63	36843	32.40	ug/L		90
57) Bromodichloromethane	3.828	83	51454	29.32	ug/L	#	95
58) Methyl methacrylate	3.912	41	36957	45.95	ug/L	#	65
59) 1,4-Dioxane	3.935	88	6912	446.97	ug/L		83
60) 2-Chloroethyl vinyl ether	4.159	63	129527	180.21	ug/L		80
61) cis-1,3-Dichloropropene	4.205	75	57444	30.82	ug/L		80
64) Toluene	4.366	91	150640	29.00	ug/L		99
65) 2-Nitropropane	4.459	41	72036	248.32	ug/L		88
66) 4-Methyl-2-pentanone	4.582	43	244436	250.75	ug/L		88
67) trans-1,3-Dichloropropene	4.613	75	52712	34.48	ug/L		82
68) Tetrachloroethene	4.628	166	40335	21.40	ug/L		95
69) Ethyl methacrylate	4.728	69	49374	37.91	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	29053	33.16	ug/L		87
71) Dibromochloromethane	4.836	129	37187	25.40	ug/L		99
72) 1,3-Dichloropropane	4.890	76	52682	32.69	ug/L		76
73) 1,2-Dibromoethane	4.990	107	35799	28.03	ug/L		94
74) 3,3-Dimethyl-1-Butanol	5.121	57	290561	1955.10	ug/L		94
75) 2-hexanone	5.136	43	237555	248.16	ug/L	#	72
76) 1-Chlorohexane	5.359	91	57569m	30.66	ug/L		
77) Ethylbenzene	5.390	91	173281m	29.87	ug/L		
78) Chlorobenzene	5.359	112	98683	26.32	ug/L		85
79) 1,1,1,2-Tetrachloroethane	5.405	131	34277	24.99	ug/L		98
80) m,p-Xylene	5.498	91	286805	60.26	ug/L		94
81) o-Xylene	5.798	91	150086	30.93	ug/L		92
82) Styrene	5.829	104	111062	29.77	ug/L		90
83) Bromoform	5.836	173	26495	22.40	ug/L		98
84) Isopropylbenzene	6.036	105	175924	28.31	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	13113	34.99	ug/L	#	77
88) n-Propylbenzene	6.344	91	219858	35.25	ug/L		88
89) Bromobenzene	6.298	156	42054	25.34	ug/L	#	62
90) 1,1,2,2-Tetrachloroethane	6.367	83	49805	35.40	ug/L		99
91) 1,3,5-Trimethylbenzene	6.498	105	149015	31.60	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

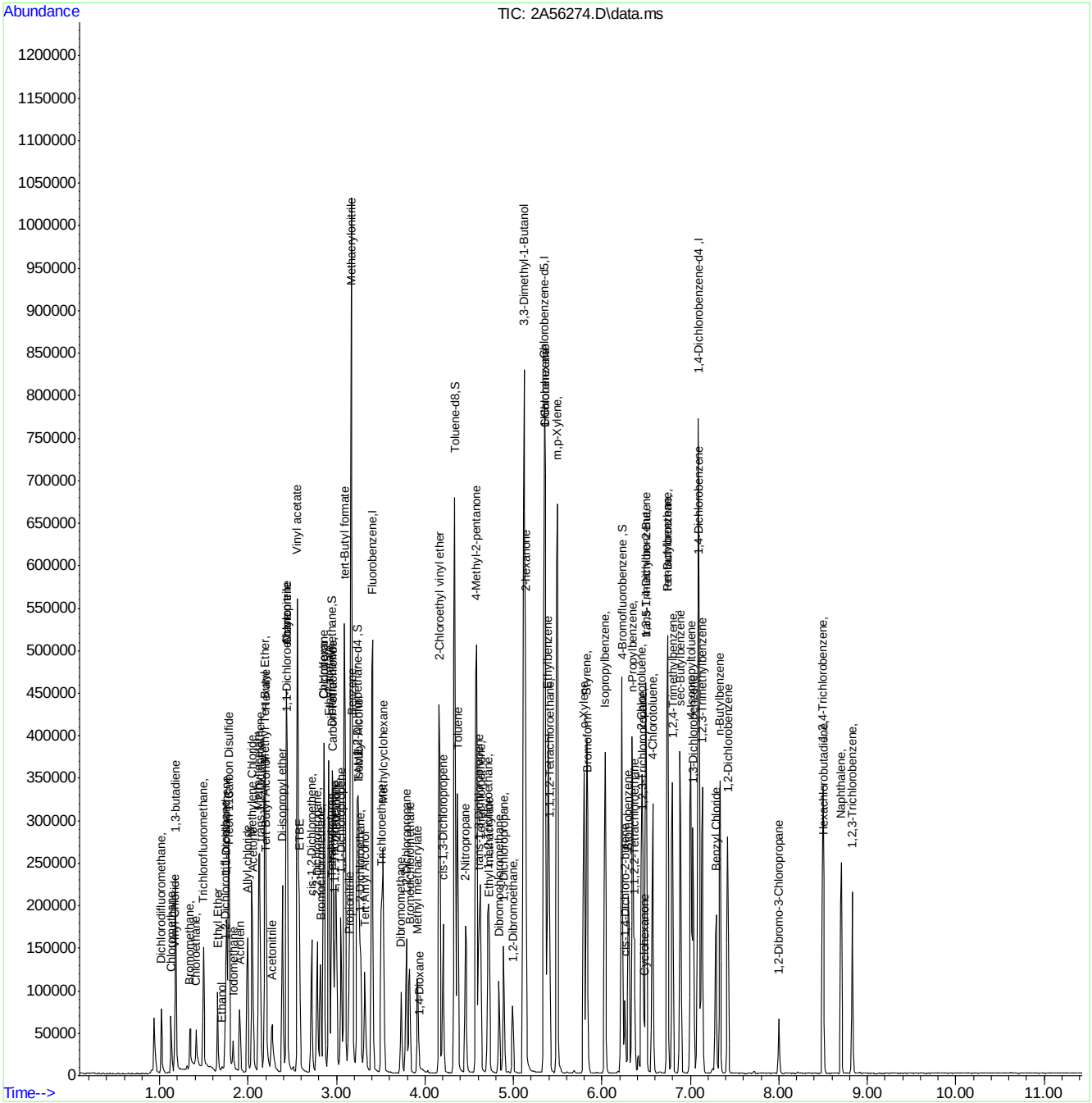
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	121223	33.51	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.498	53	16396	37.18	ug/L	#	65
94)	1,2,3-Trichloropropane	6.460	110	13913	29.88	ug/L	#	64
95)	Cyclohexanone	6.475	55	7717	199.96	ug/L	#	80
96)	4-Chlorotoluene	6.575	91	129751	33.74	ug/L		90
97)	tert-Butylbenzene	6.745	91	88853	34.78	ug/L		87
98)	1,2,4-Trimethylbenzene	6.798	105	139889	28.07	ug/L		97
99)	Pentachloroethane	6.745	167	24199	24.39	ug/L	#	63
100)	sec-Butylbenzene	6.883	105	189649	31.13	ug/L		92
101)	4-Isopropyltoluene	7.006	119	160168	30.61	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	82106	25.08	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	141524	30.77	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	82729	25.11	ug/L		89
105)	n-Butylbenzene	7.337	92	73347	31.18	ug/L		94
106)	Benzyl Chloride	7.291	126	19778	29.76	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	74519	25.68	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	10941	38.70	ug/L	#	42
109)	Hexachlorobutadiene	8.507	225	20078	19.56	ug/L		94
110)	1,2,4-Trichlorobenzene	8.499	180	45455	23.60	ug/L		97
111)	Naphthalene	8.707	128	126414	29.79	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	40121	22.51	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:58:10 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

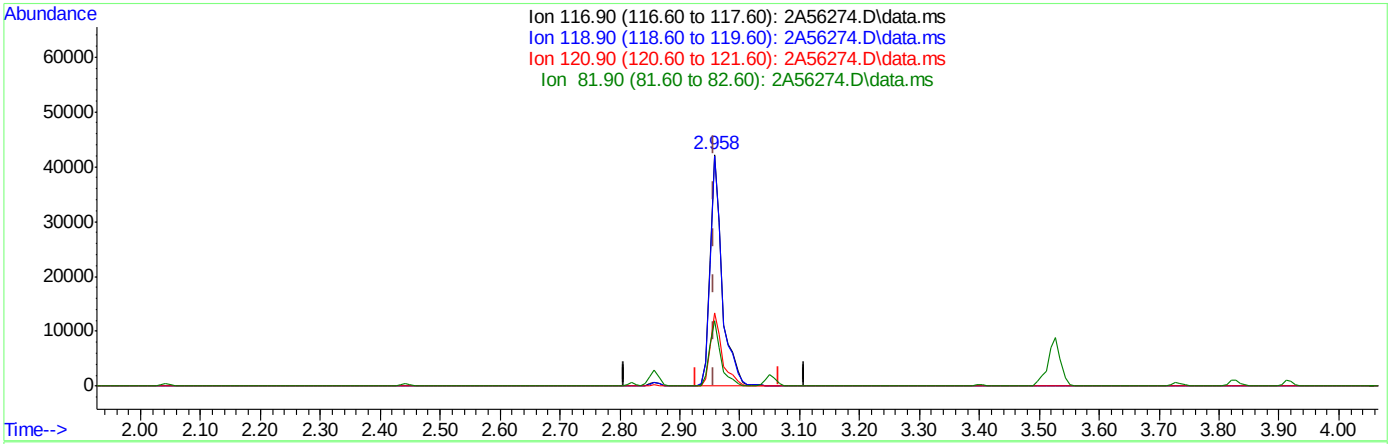
Sample Number: V2A1910-IC1910
Lab FileID: 2A56274.D
Injection Time: 06/25/24 10:15
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

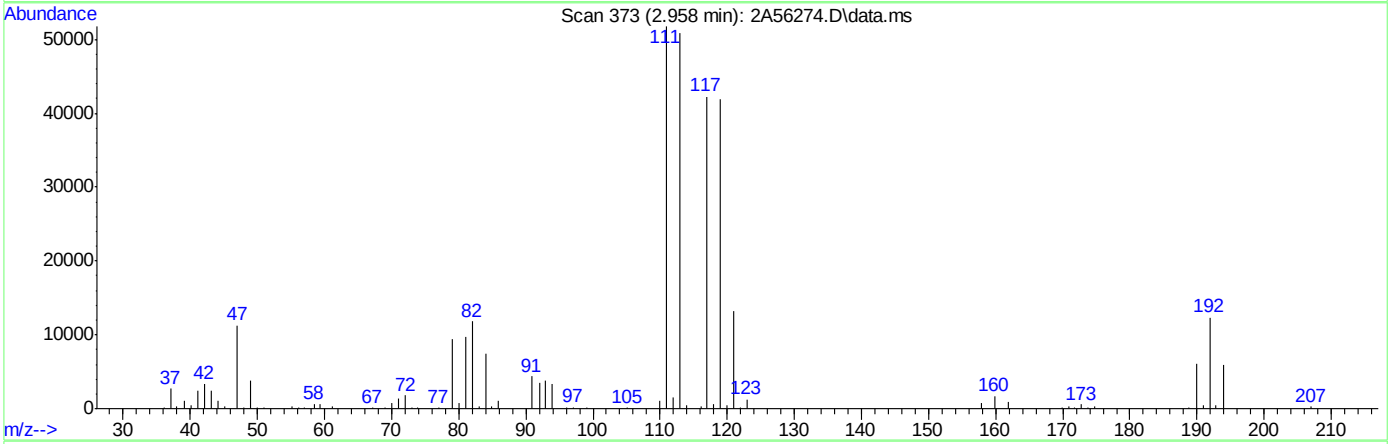
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 26.05ug/L

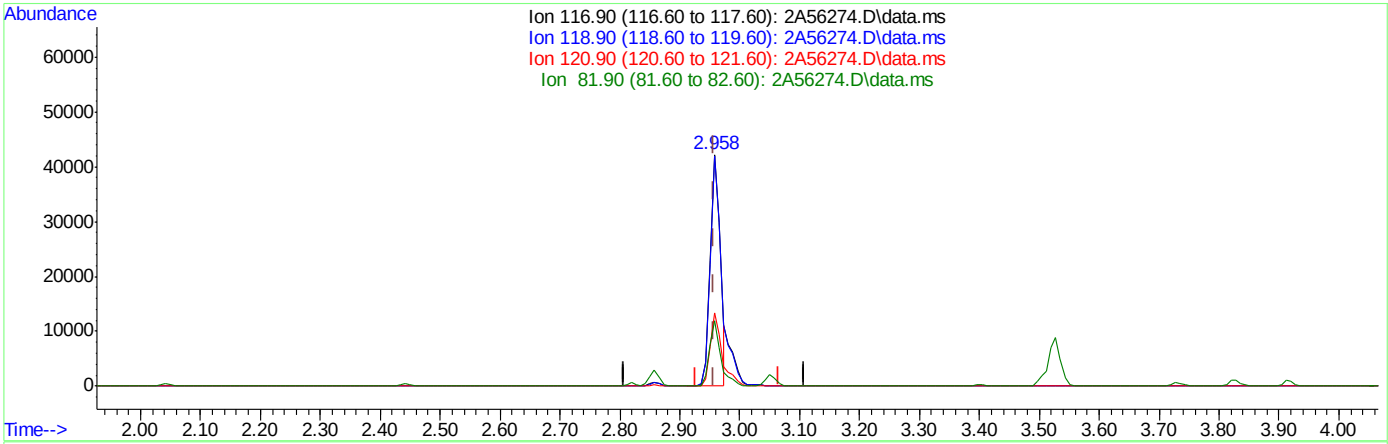
response 59504

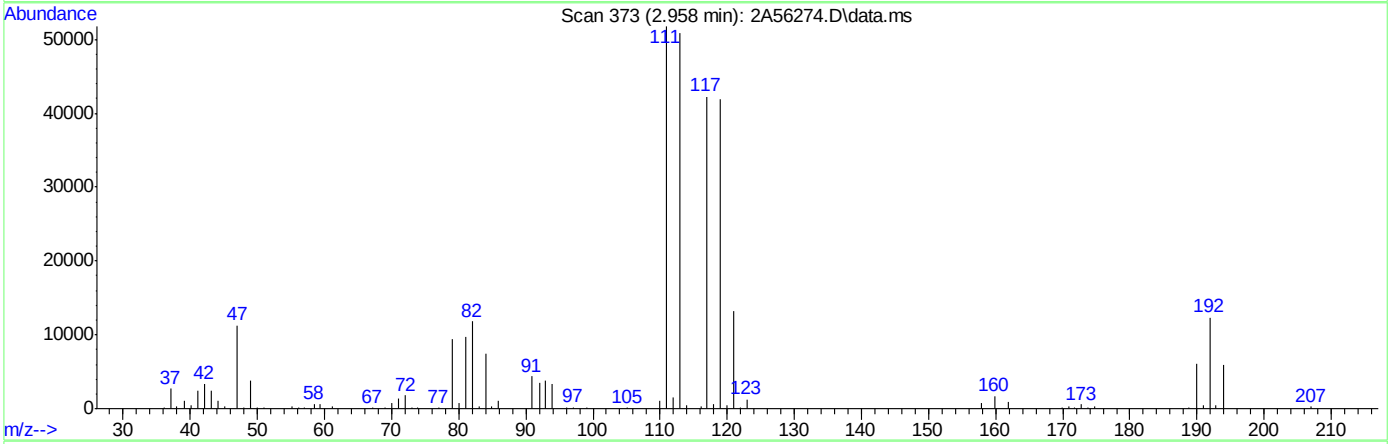
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	99.36
120.90	31.00	31.44
81.90	19.00	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 22.42ug/L m

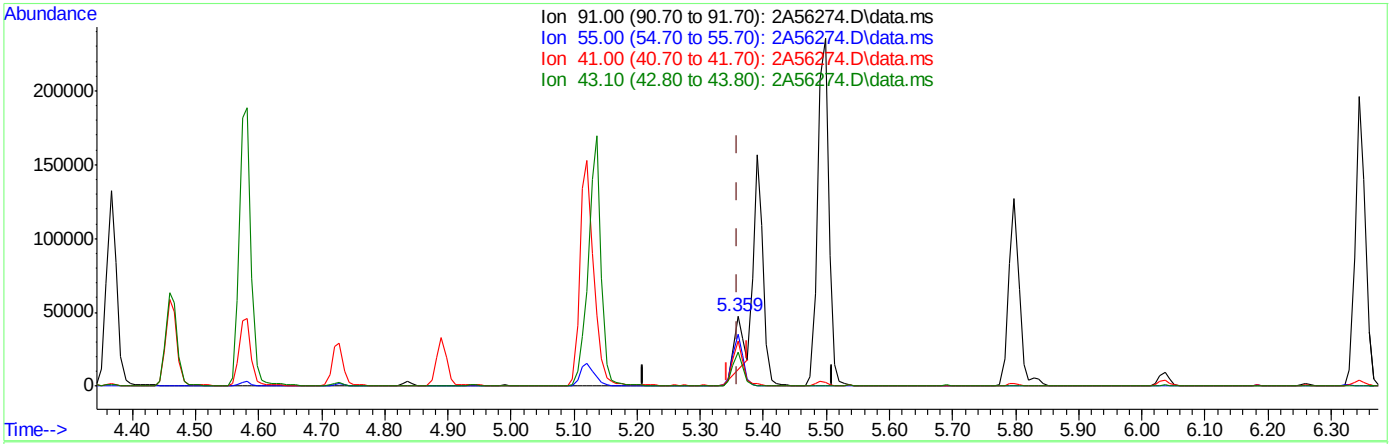
response 51225

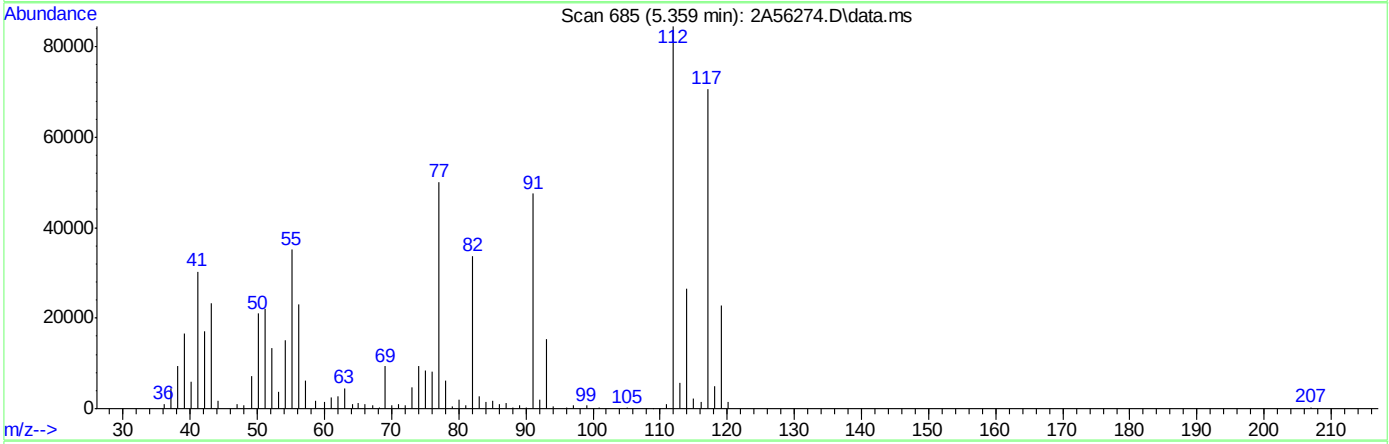
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	99.36
120.90	31.00	31.44
81.90	19.00	28.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 19.82ug/L

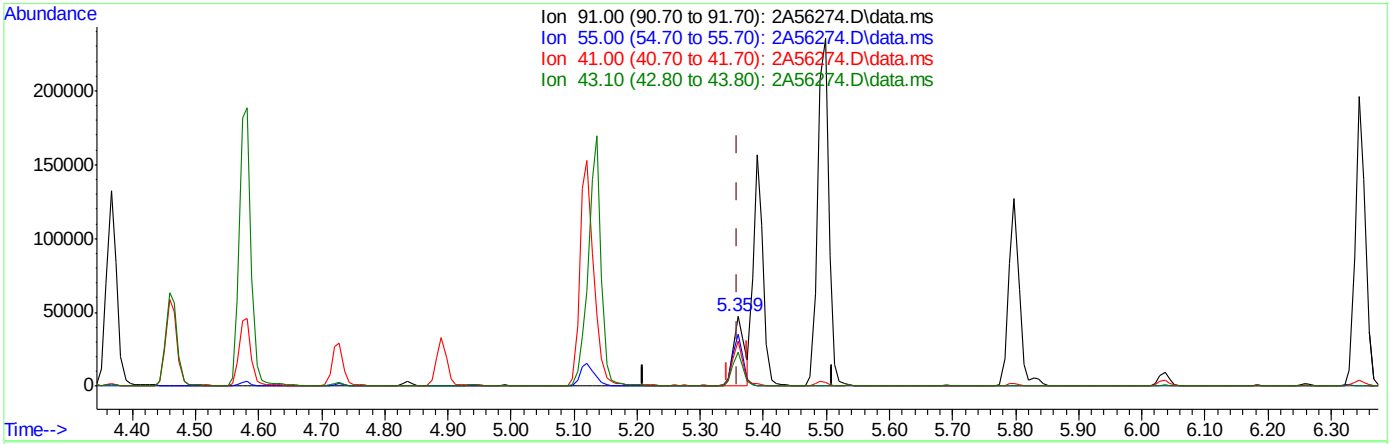
response 37206

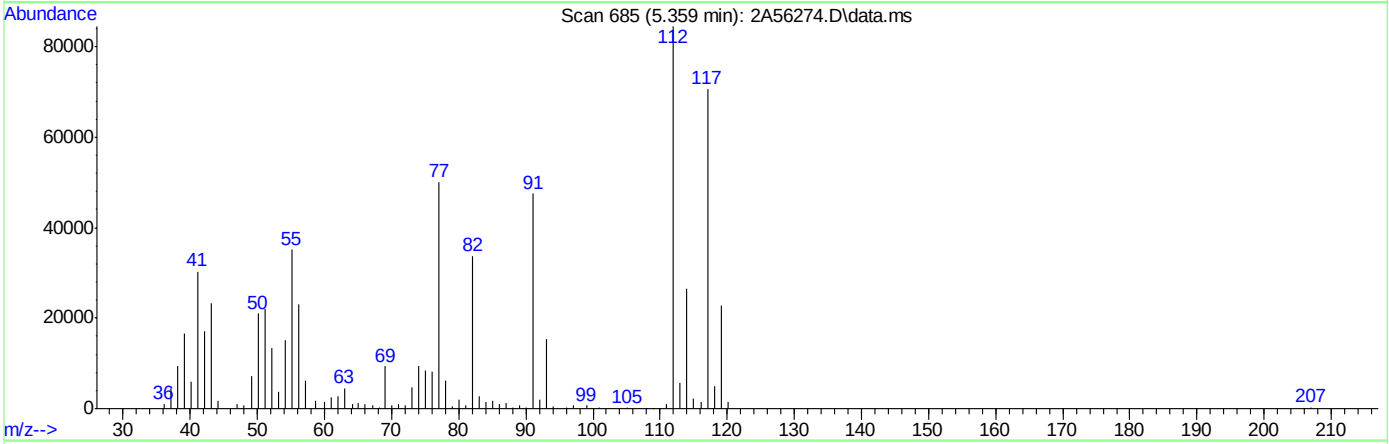
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	69.89
41.00	39.20	60.51#
43.10	33.20	46.81

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 30.66ug/L m

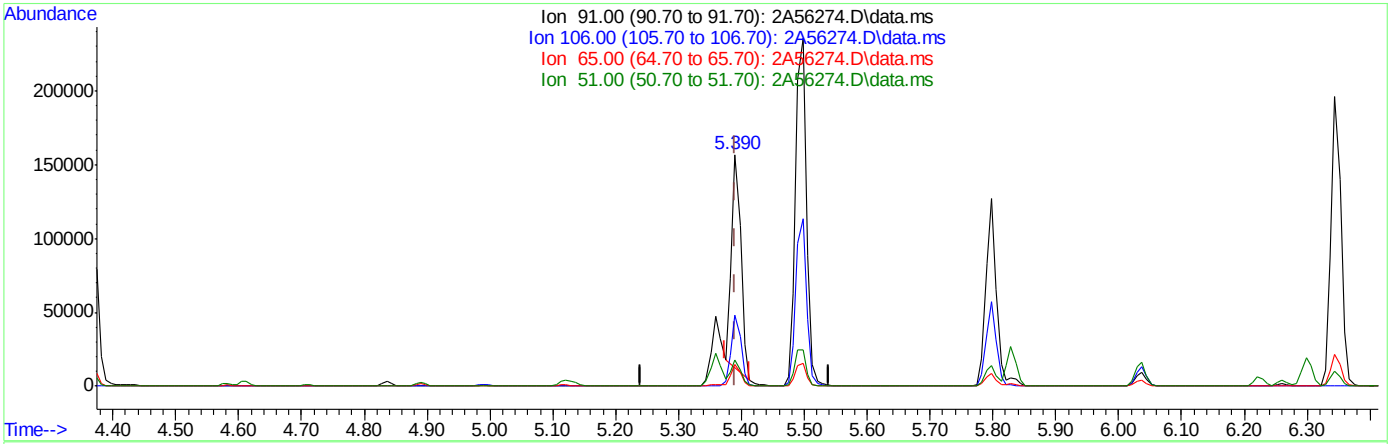
response 57569

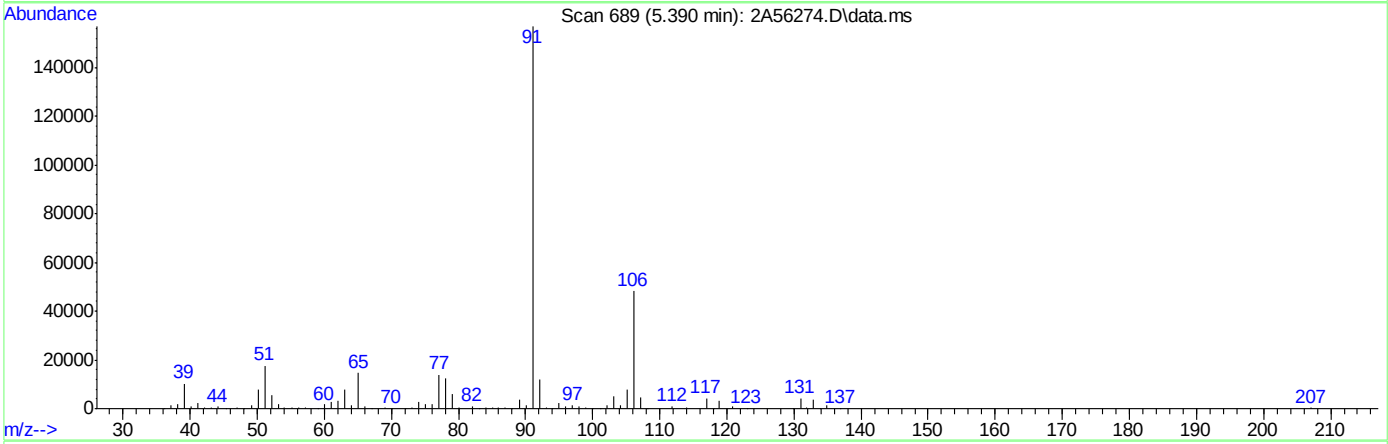
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.84
41.00	39.20	63.75#
43.10	33.20	49.24

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(77) Ethylbenzene

5.390min (-0.000) 25.14ug/L

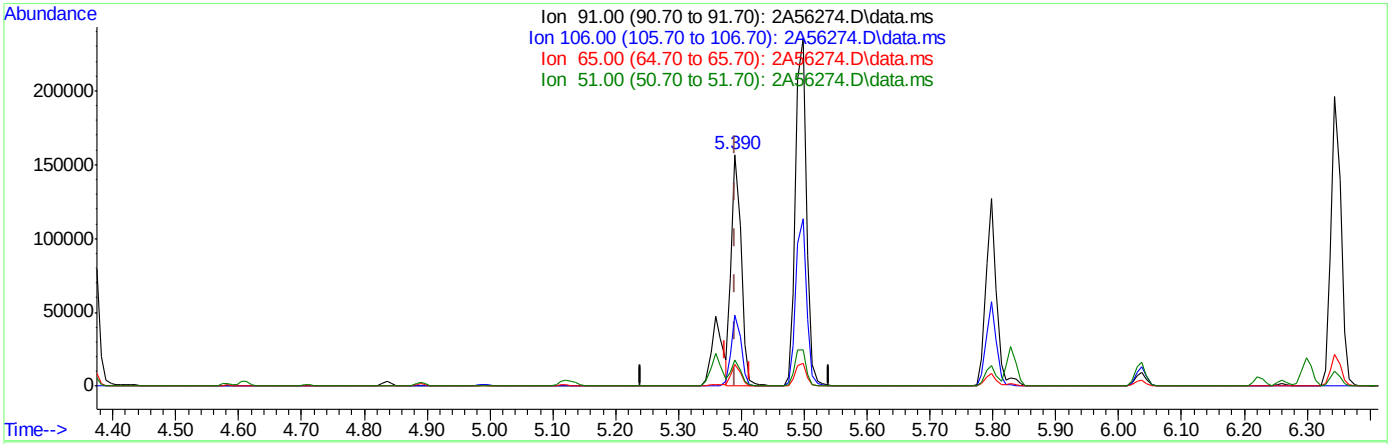
response 145837

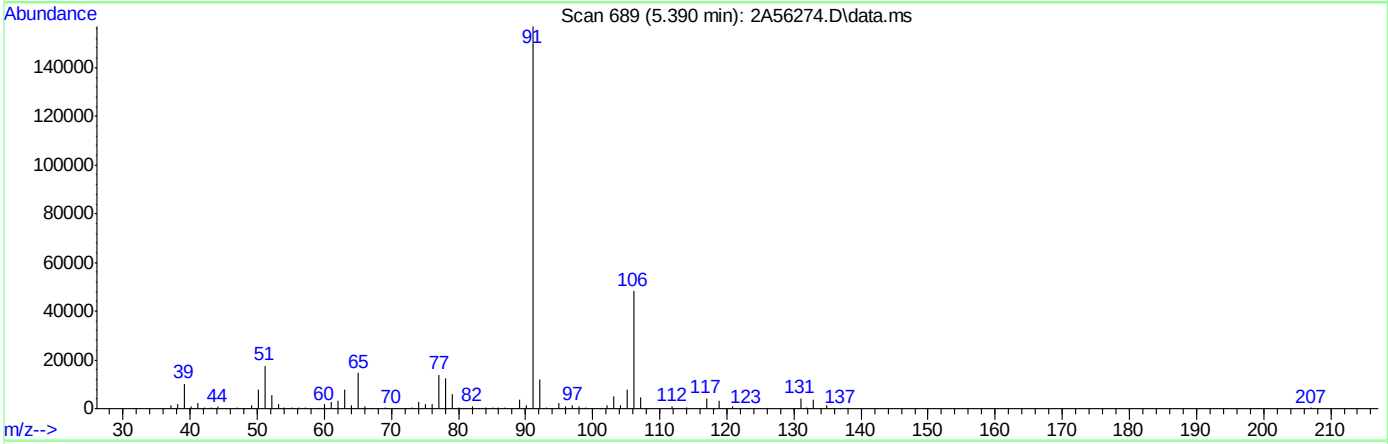
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.68
65.00	7.10	9.27
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56274.D
Acq On : 25 Jun 2024 10:15 am
Operator : jeniferw
Sample : IC1910-4
Misc : MS56892,V2A1910,,,,,
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Jun 25 11:23:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56274.D\data.ms

(77) Ethylbenzene

5.390min (-0.000) 29.87ug/L m

response 173281

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.71
65.00	7.10	9.35
51.00	7.10	11.24

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	300895	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	219742	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	130499	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	85159	47.60	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.20%				
49) 1,2-Dichloroethane-d4	3.235	65	106406	64.15	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 128.30%#				
63) Toluene-d8	4.336	98	295754	53.76	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.52%				
86) 4-Bromofluorobenzene	6.229	174	103161	49.57	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	59849	38.93	ug/L		98
3) Chloromethane	1.134	50	65175	47.40	ug/L		97
4) 1,3-butadiene	1.188	39	75075	99.29	ug/L	#	73
5) Vinyl Chloride	1.180	62	65511	58.74	ug/L		98
6) Bromomethane	1.349	94	28241	61.14	ug/L		97
7) Chloroethane	1.419	64	35008	84.21	ug/L		95
8) Trichlorofluoromethane	1.503	101	91079	46.71	ug/L		100
9) Ethyl Ether	1.657	59	47991	55.01	ug/L		86
10) Ethanol	1.711	45	14467	1282.71	ug/L		89
11) 1,2-Dichlorotrifluoroe...	1.750	67	48929	52.74	ug/L		92
12) 1,1-Dichloroethene	1.765	61	90786	53.44	ug/L		86
13) Freon 113	1.788	101	57354	39.78	ug/L	#	85
14) Carbon Disulfide	1.788	76	174705	45.41	ug/L		84
15) Iodomethane	1.834	142	50228	43.84	ug/L		90
16) Acrolein	1.911	56	58825	250.60	ug/L		97
17) Allyl chloride	1.996	41	91373	69.15	ug/L		80
18) Methylene Chloride	2.050	49	80927	58.26	ug/L	#	75
19) Acetone	2.050	43	123125	337.82	ug/L		81
20) Methyl acetate	2.127	43	300428	313.94	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	86143	51.45	ug/L		81
22) Hexane	2.196	56	57626	50.34	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	173729	51.35	ug/L		87
24) Acetonitrile	2.273	41	79739	634.45	ug/L		96
25) Tert Butyl Alcohol	2.211	59	97649	545.90	ug/L	#	40
26) Di-isopropyl ether	2.396	45	188041	69.98	ug/L		87
27) Chloroprene	2.442	53	250411	59.20	ug/L		91
28) 1,1-Dichloroethane	2.442	63	111929	50.44	ug/L		96
29) Acrylonitrile	2.442	52	152753	304.70	ug/L		98
30) ETBE	2.581	59	187565	57.85	ug/L		90
31) Vinyl acetate	2.566	43	777900	411.51	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	64684	39.57	ug/L	#	76
33) 2,2-Dichloropropane	2.781	77	87586	50.07	ug/L		95
34) Bromochloromethane	2.827	128	32896	34.92	ug/L	#	75
35) Cyclohexane	2.858	56	110598	55.69	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	112789	44.34	ug/L		95
37) Ethyl acetate	2.912	43	422121	384.79	ug/L		89
38) Tetrahydrofuran	2.943	42	29215	67.30	ug/L		84
40) Carbon Tetrachloride	2.966	117	89644m	38.42	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	99046	42.99	ug/L		94
42) 2-Butanone	3.004	43	207124	351.30	ug/L		83
43) 1,1-Dichloropropene	3.058	75	81083	49.25	ug/L		82
44) tert-Butyl formate	3.097	59	269460	282.09	ug/L		95
45) Propionitrile	3.143	54	112992	503.81	ug/L		99
46) Methacrylonitrile	3.166	41	461178	680.98	ug/L		94
47) Benzene	3.181	78	232502	44.44	ug/L		84
48) TAME	3.250	73	160365	51.20	ug/L		87
50) 1,2-Dichloroethane	3.274	62	86780	51.52	ug/L		96
51) Isobutyl Alcohol	3.258	43	124235	1306.33	ug/L		94
52) Tert Amyl Alcohol	3.320	59	78339	550.59	ug/L		91
53) Trichloroethene	3.512	95	66739	43.48	ug/L		92
54) Methylcyclohexane	3.528	83	108155	44.40	ug/L		83
55) Dibromomethane	3.735	93	41575	45.25	ug/L		86
56) 1,2-Dichloropropane	3.789	63	62016	53.38	ug/L		89
57) Bromodichloromethane	3.828	83	84664	47.24	ug/L	#	96
58) Methyl methacrylate	3.920	41	62921	76.58	ug/L	#	69
59) 1,4-Dioxane	3.935	88	12675	802.37	ug/L		89
60) 2-Chloroethyl vinyl ether	4.166	63	222017	302.39	ug/L		83
61) cis-1,3-Dichloropropene	4.205	75	96080	50.47	ug/L		80
64) Toluene	4.366	91	250136	46.71	ug/L		98
65) 2-Nitropropane	4.467	41	124144	391.46	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	400382	398.46	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	90694	57.55	ug/L		87
68) Tetrachloroethene	4.628	166	67543	34.77	ug/L		94
69) Ethyl methacrylate	4.728	69	80434	59.92	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	47943	53.09	ug/L		89
71) Dibromochloromethane	4.836	129	64357	42.64	ug/L		98
72) 1,3-Dichloropropane	4.890	76	90069	54.22	ug/L		76
73) 1,2-Dibromoethane	4.990	107	61867	46.99	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	481141	3140.69	ug/L		95
75) 2-hexanone	5.136	43	387158	392.35	ug/L		75
76) 1-Chlorohexane	5.359	91	92392m	47.74	ug/L		
77) Ethylbenzene	5.390	91	291246m	48.71	ug/L		
78) Chlorobenzene	5.359	112	163642	42.35	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.405	131	58121	41.12	ug/L		98
80) m,p-Xylene	5.498	91	478313	97.49	ug/L		93
81) o-Xylene	5.798	91	250902	50.16	ug/L		92
82) Styrene	5.829	104	184513	47.98	ug/L		89
83) Bromoform	5.836	173	45338	37.18	ug/L		97
84) Isopropylbenzene	6.037	105	293516	45.82	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	22200	58.43	ug/L	#	73
88) n-Propylbenzene	6.344	91	365796	57.84	ug/L		88
89) Bromobenzene	6.306	156	70020	41.62	ug/L	#	80
90) 1,1,2,2-Tetrachloroethane	6.368	83	82908	58.12	ug/L		98
91) 1,3,5-Trimethylbenzene	6.498	105	249885	52.27	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

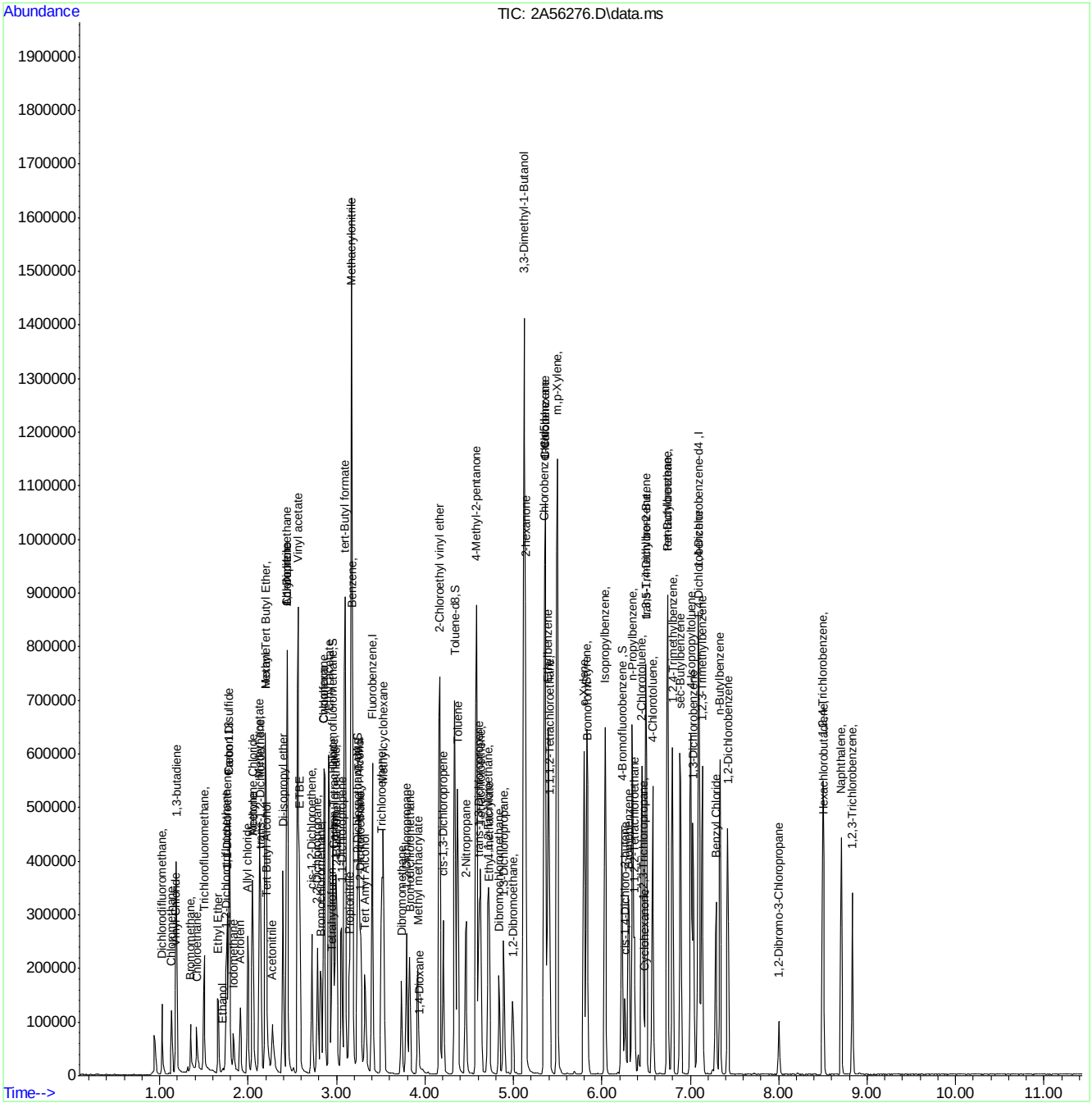
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	204325	55.71	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	29115	65.12	ug/L	#	63
94)	1,2,3-Trichloropropane	6.468	110	22886	48.49	ug/L		78
95)	Cyclohexanone	6.475	55	13115	335.19	ug/L		81
96)	4-Chlorotoluene	6.575	91	216813	55.61	ug/L		88
97)	tert-Butylbenzene	6.745	91	149594	57.76	ug/L		86
98)	1,2,4-Trimethylbenzene	6.799	105	238204	47.15	ug/L		97
99)	Pentachloroethane	6.745	167	41462	41.22	ug/L	#	71
100)	sec-Butylbenzene	6.883	105	321087	51.99	ug/L		92
101)	4-Isopropyltoluene	7.006	119	268970	50.71	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	138462	41.71	ug/L		91
103)	1,2,3-Trimethylbenzene	7.137	105	240876	51.66	ug/L		96
104)	1,4-Dichlorobenzene	7.099	146	139270	41.69	ug/L		89
105)	n-Butylbenzene	7.337	92	124371	52.14	ug/L		94
106)	Benzyl Chloride	7.291	126	33926	50.36	ug/L	#	75
107)	1,2-Dichlorobenzene	7.422	146	126507	43.00	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	17686	61.70	ug/L	#	41
109)	Hexachlorobutadiene	8.507	225	33656	32.35	ug/L		95
110)	1,2,4-Trichlorobenzene	8.499	180	75806	38.83	ug/L		98
111)	Naphthalene	8.707	128	210132	48.83	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	66923	37.03	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:58:52 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

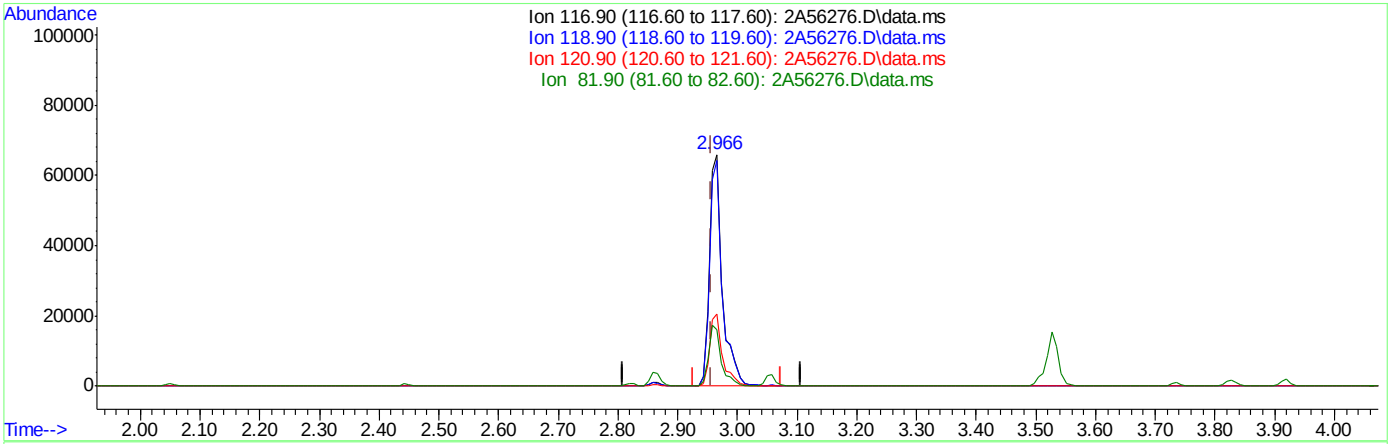
Sample Number: V2A1910-ICC1910 **Method:** SW846 8260D
Lab FileID: 2A56276.D **Analyst approved:** 06/25/24 13:54 Jenifer Willis
Injection Time: 06/25/24 10:47 **Supervisor approved:** 06/26/24 07:53 Karen Watson

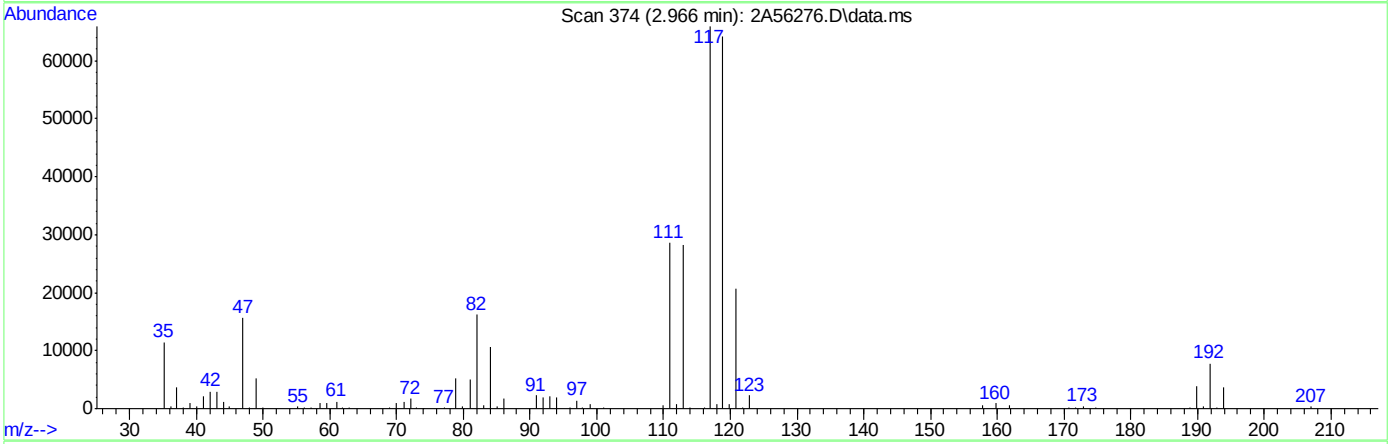
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 42.85ug/L

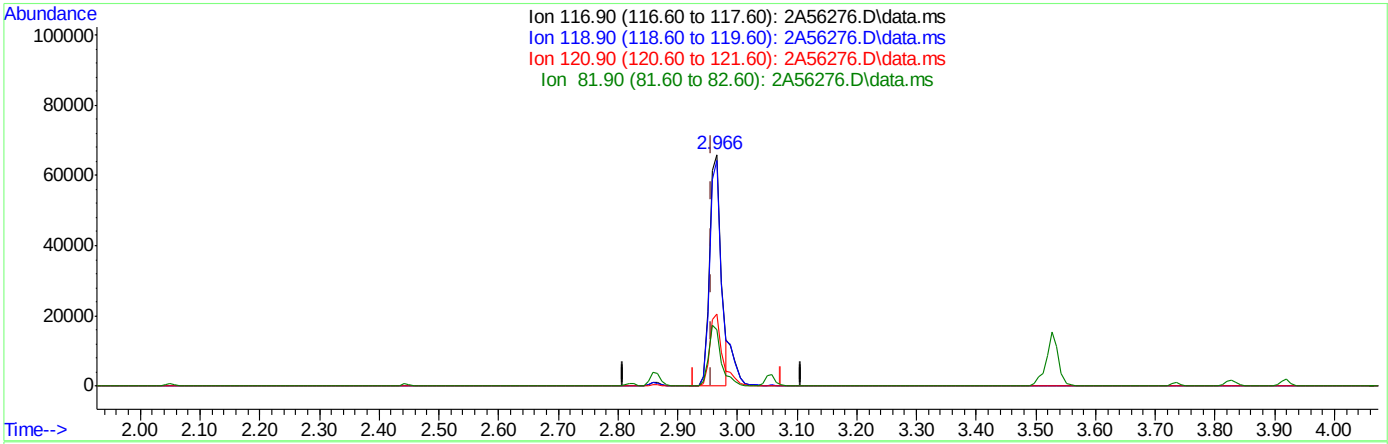
response 99995

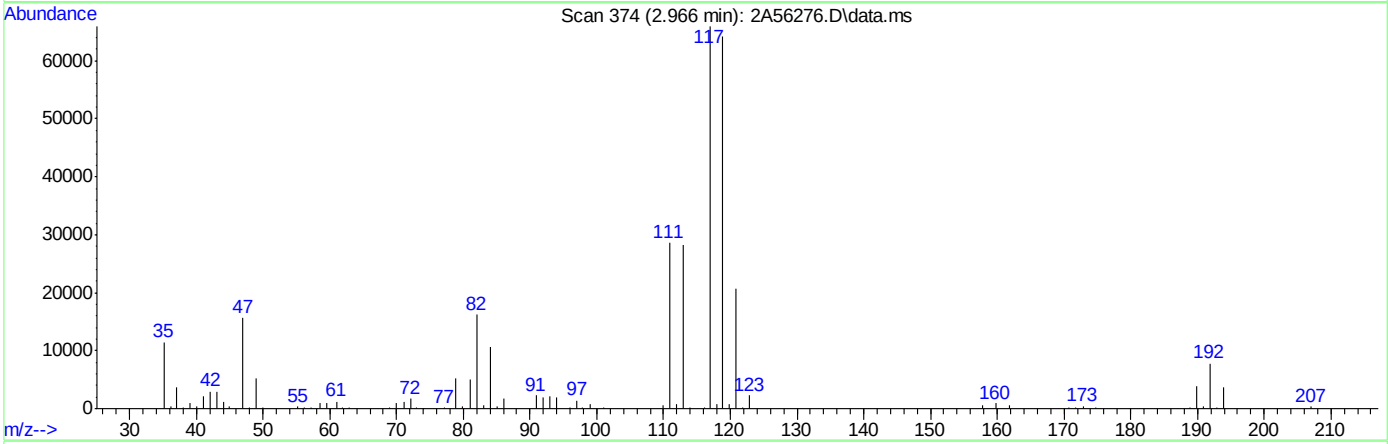
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.45
120.90	31.00	31.25
81.90	19.00	24.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (+0.008) 38.42ug/L m

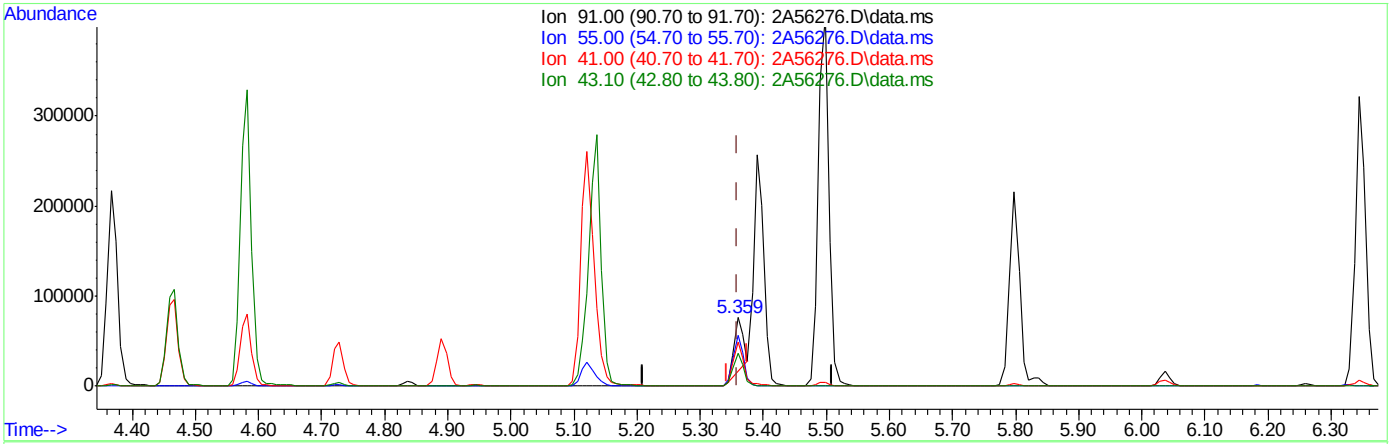
response 89644

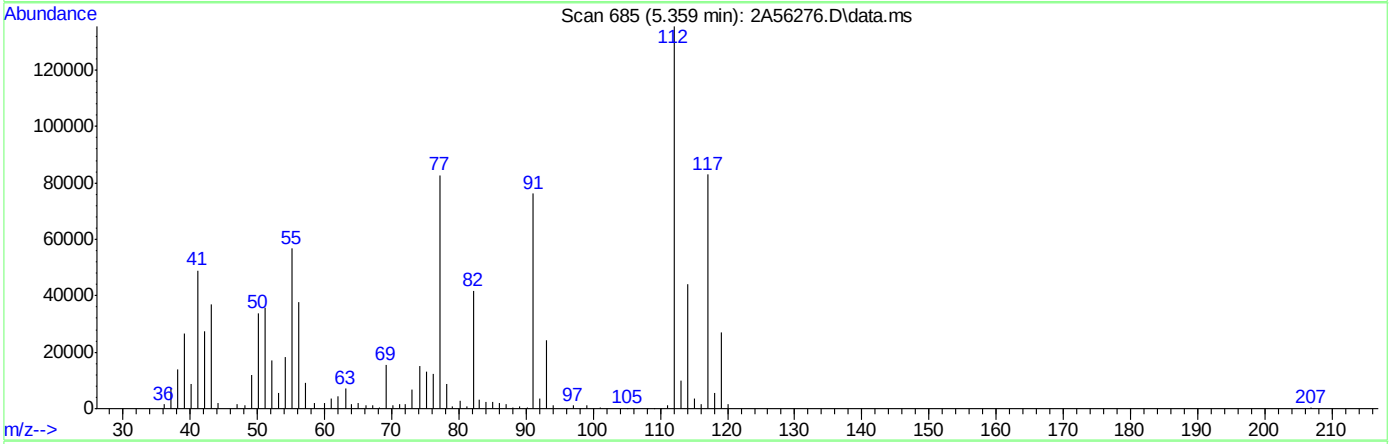
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	97.45
120.90	31.00	31.25
81.90	19.00	24.60

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 32.55ug/L

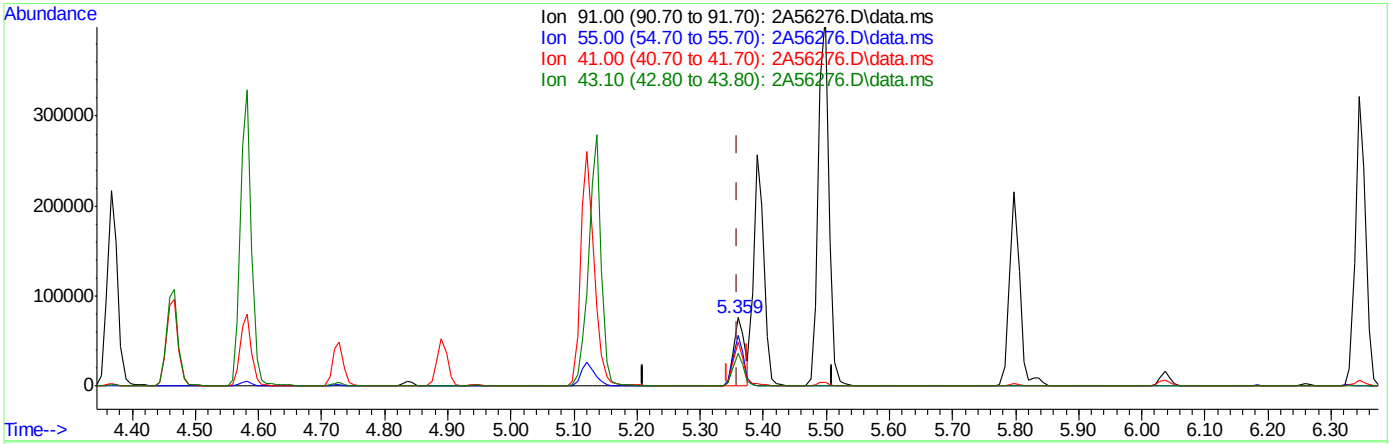
response 62992

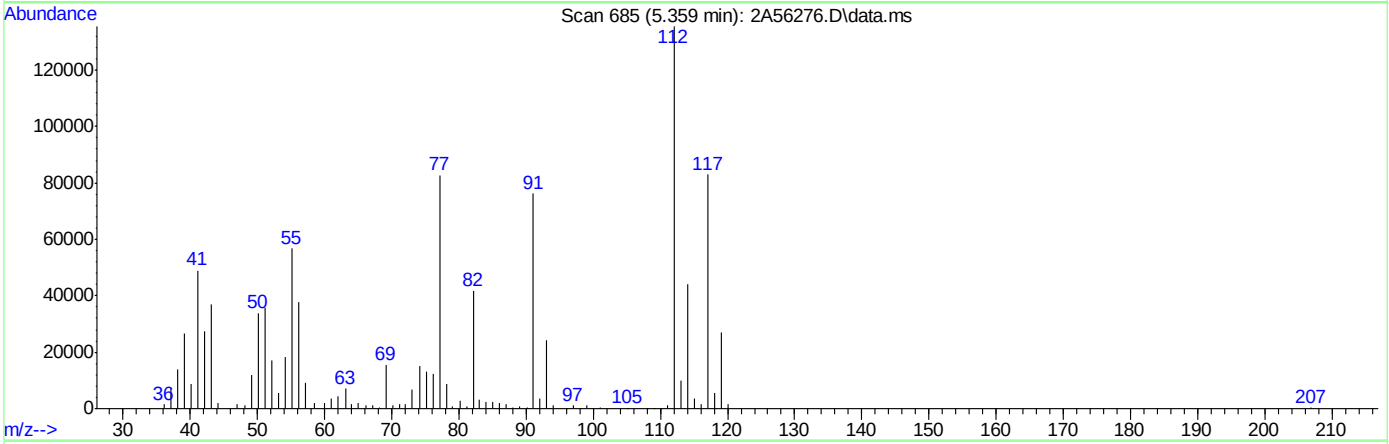
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	70.56
41.00	39.20	61.91#
43.10	33.20	46.46

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 47.74ug/L m

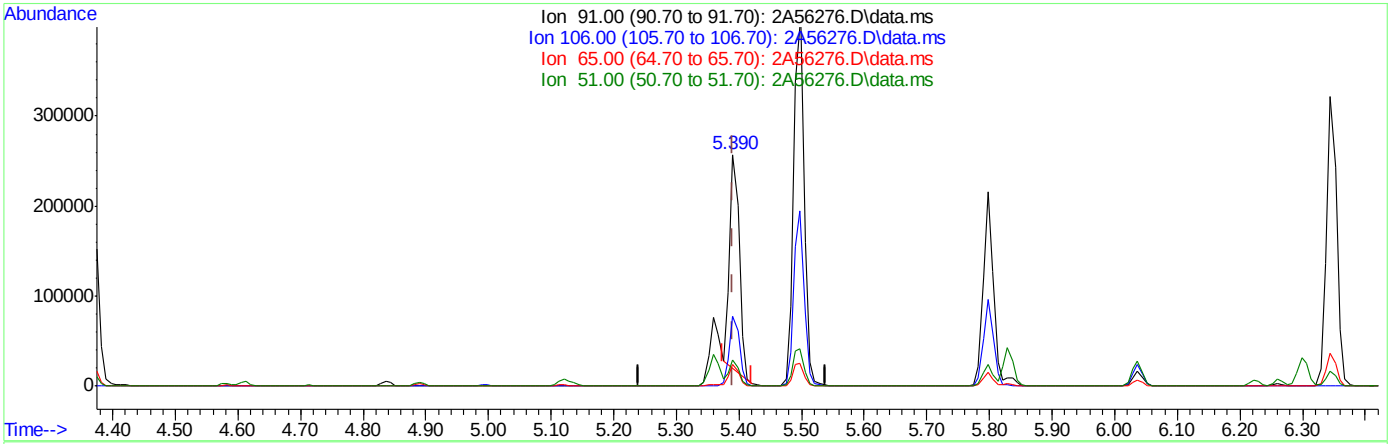
response 92392

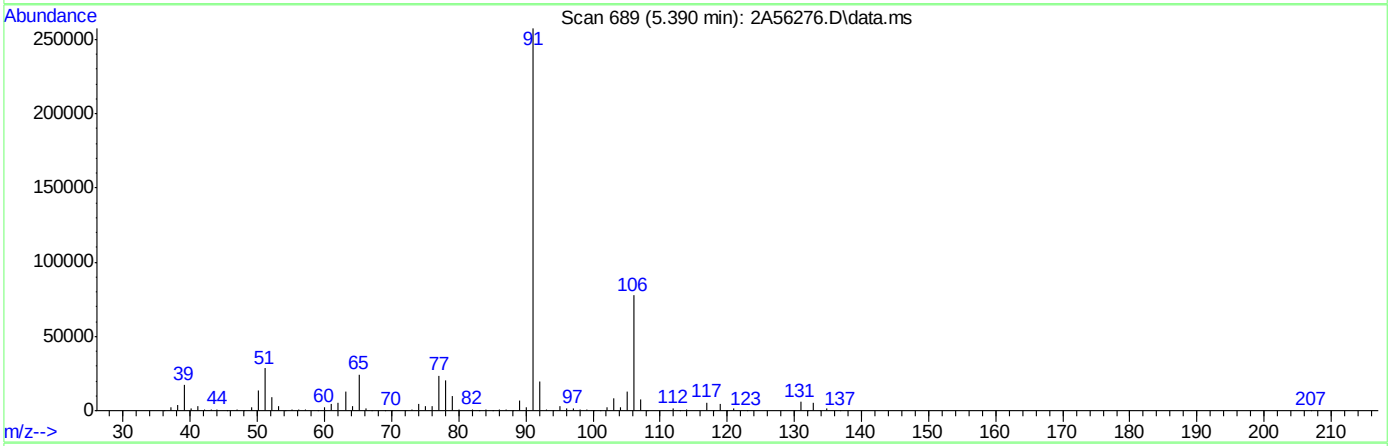
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	74.50
41.00	39.20	64.25#
43.10	33.20	48.37

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 41.56ug/L

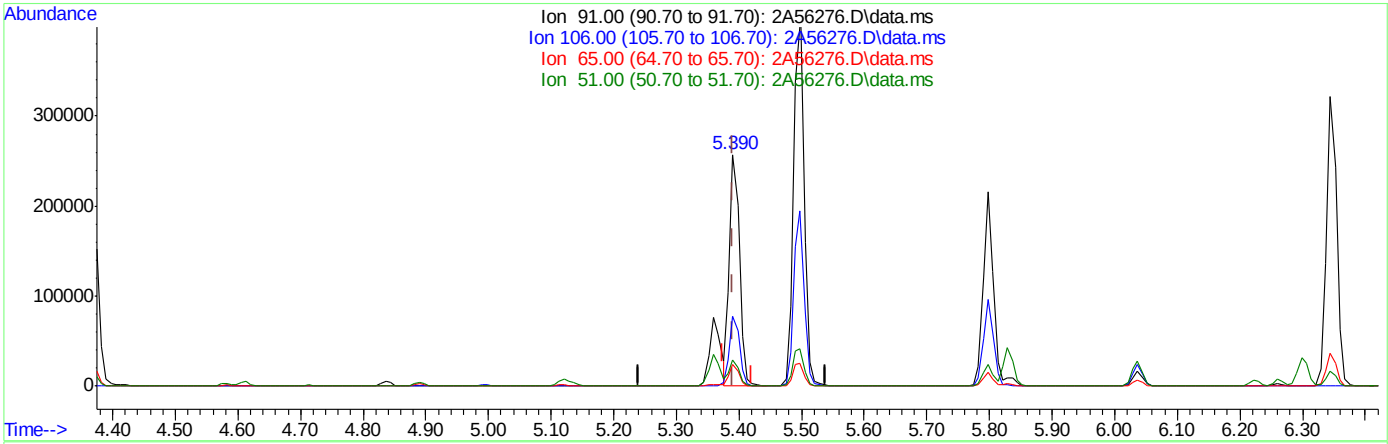
response 248476

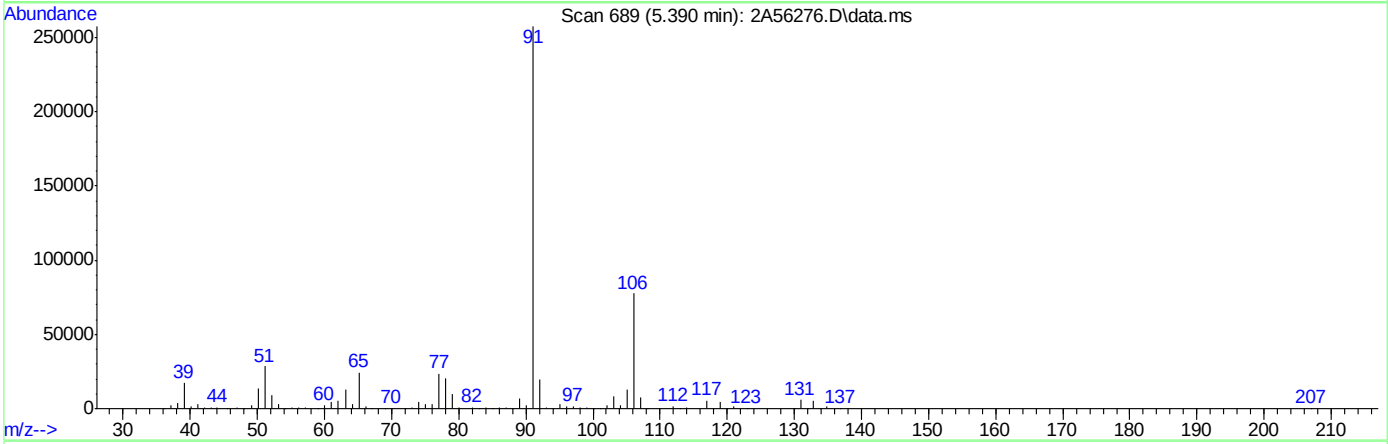
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.16
65.00	7.10	9.48
51.00	7.10	10.99

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56276.D
Acq On : 25 Jun 2024 10:47 am
Operator : jeniferw
Sample : ICC1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Jun 25 11:23:26 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56276.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 48.71ug/L m

response 291246

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.13
65.00	7.10	9.47
51.00	7.10	11.08

2A56278.D

Manual Integrations APPROVED (compounds with "m" flag)

Karen Watson 06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	309886	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	223595	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	130158	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	86507	46.95	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.90%				
49) 1,2-Dichloroethane-d4	3.235	65	109344	64.01	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 128.02%#				
63) Toluene-d8	4.336	98	299861	53.56	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.12%				
86) 4-Bromofluorobenzene	6.229	174	103558	49.89	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	101067	63.83	ug/L		98
3) Chloromethane	1.134	50	110040	77.71	ug/L		99
4) 1,3-butadiene	1.188	39	130945	168.15	ug/L	#	76
5) Vinyl Chloride	1.180	62	113252	98.59	ug/L		98
6) Bromomethane	1.349	94	50913	107.03	ug/L		98
7) Chloroethane	1.419	64	55974	Below Cal			96
8) Trichlorofluoromethane	1.496	101	157370	78.37	ug/L		98
9) Ethyl Ether	1.657	59	83599	93.04	ug/L		88
10) Ethanol	1.711	45	25503m	2195.61	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	84658	88.61	ug/L		95
12) 1,1-Dichloroethene	1.757	61	155794	89.04	ug/L		83
13) Freon 113	1.788	101	99935	67.30	ug/L	#	88
14) Carbon Disulfide	1.788	76	301538	76.10	ug/L		86
15) Iodomethane	1.834	142	94504	70.07	ug/L		90
16) Acrolein	1.911	56	104927	434.02	ug/L		98
17) Allyl chloride	1.996	41	157149	115.48	ug/L		80
18) Methylene Chloride	2.042	49	138041	96.49	ug/L	#	69
19) Acetone	2.050	43	209830	559.01	ug/L		82
20) Methyl acetate	2.127	43	521375	529.02	ug/L		88
21) trans-1,2-Dichloroethene	2.134	61	150742	87.42	ug/L		77
22) Hexane	2.196	56	99116	84.07	ug/L	#	80
23) Methyl Tert Butyl Ether	2.196	73	299894	86.07	ug/L		76
24) Acetonitrile	2.273	41	133985	1160.11	ug/L		96
25) Tert Butyl Alcohol	2.211	59	170506	925.54	ug/L	#	54
26) Di-isopropyl ether	2.396	45	330465	119.42	ug/L		88
27) Chloroprene	2.442	53	435271	99.91	ug/L		92
28) 1,1-Dichloroethane	2.442	63	194078	84.92	ug/L		97
29) Acrylonitrile	2.442	52	262783	508.97	ug/L		98
30) ETBE	2.581	59	330921	99.11	ug/L		91
31) Vinyl acetate	2.558	43	1341407	689.01	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	111845	66.44	ug/L	#	77
33) 2,2-Dichloropropane	2.781	77	156006	86.59	ug/L		95
34) Bromochloromethane	2.819	128	56154	57.88	ug/L	#	60
35) Cyclohexane	2.858	56	191761	93.76	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	195539	74.65	ug/L		95
37) Ethyl acetate	2.912	43	728475	644.79	ug/L		90
38) Tetrahydrofuran	2.943	42	49695	111.16	ug/L		82
40) Carbon Tetrachloride	2.958	117	158194m	65.83	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	172517	72.70	ug/L		94
42) 2-Butanone	3.004	43	361022	594.56	ug/L		83
43) 1,1-Dichloropropene	3.050	75	142098	83.80	ug/L		78
44) tert-Butyl formate	3.096	59	486654	494.68	ug/L		94
45) Propionitrile	3.143	54	194845	843.58	ug/L		98
46) Methacrylonitrile	3.166	41	808649	1159.42	ug/L		94
47) Benzene	3.181	78	407991	75.72	ug/L		85
48) TAME	3.250	73	284957	88.34	ug/L		92
50) 1,2-Dichloroethane	3.274	62	152096	87.68	ug/L		96
51) Isobutyl Alcohol	3.250	43	210094	2145.03	ug/L		78
52) Tert Amyl Alcohol	3.320	59	137488	938.27	ug/L		89
53) Trichloroethene	3.504	95	117571	74.37	ug/L		82
54) Methylcyclohexane	3.527	83	192253	76.64	ug/L		83
55) Dibromomethane	3.735	93	72464	76.58	ug/L		86
56) 1,2-Dichloropropane	3.789	63	106975	89.41	ug/L		89
57) Bromodichloromethane	3.828	83	151246	81.94	ug/L	#	96
58) Methyl methacrylate	3.920	41	107477	127.01	ug/L	#	71
59) 1,4-Dioxane	3.935	88	21251	1306.23	ug/L		78
60) 2-Chloroethyl vinyl ether	4.166	63	383803	507.58	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	169892	86.66	ug/L		79
64) Toluene	4.366	91	433707	79.59	ug/L		99
65) 2-Nitropropane	4.466	41	220892	625.98	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	699953	684.58	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	162855	101.56	ug/L		83
68) Tetrachloroethene	4.628	166	119324	60.36	ug/L		96
69) Ethyl methacrylate	4.728	69	140373	102.77	ug/L	#	73
70) 1,1,2-Trichloroethane	4.713	83	86174	93.78	ug/L		88
71) Dibromochloromethane	4.836	129	115373	75.13	ug/L		99
72) 1,3-Dichloropropane	4.890	76	157586	93.22	ug/L		76
73) 1,2-Dibromoethane	4.990	107	108061	80.66	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.121	57	837604	5373.32	ug/L		95
75) 2-hexanone	5.136	43	663063	660.38	ug/L		78
76) 1-Chlorohexane	5.359	91	158783m	80.63	ug/L		
77) Ethylbenzene	5.390	91	504324m	82.89	ug/L		
78) Chlorobenzene	5.359	112	284055	72.24	ug/L		84
79) 1,1,1,2-Tetrachloroethane	5.405	131	105341	73.24	ug/L		98
80) m,p-Xylene	5.498	91	829617	166.18	ug/L		93
81) o-Xylene	5.798	91	437261	85.92	ug/L		91
82) Styrene	5.829	104	320362	81.87	ug/L		89
83) Bromoform	5.836	173	83766	67.50	ug/L		97
84) Isopropylbenzene	6.037	105	504518	77.41	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	41064	108.37	ug/L	#	84
88) n-Propylbenzene	6.344	91	629393	99.79	ug/L		88
89) Bromobenzene	6.298	156	124087	73.95	ug/L	#	68
90) 1,1,2,2-Tetrachloroethane	6.367	83	142895	100.43	ug/L		98
91) 1,3,5-Trimethylbenzene	6.498	105	431019	90.39	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration

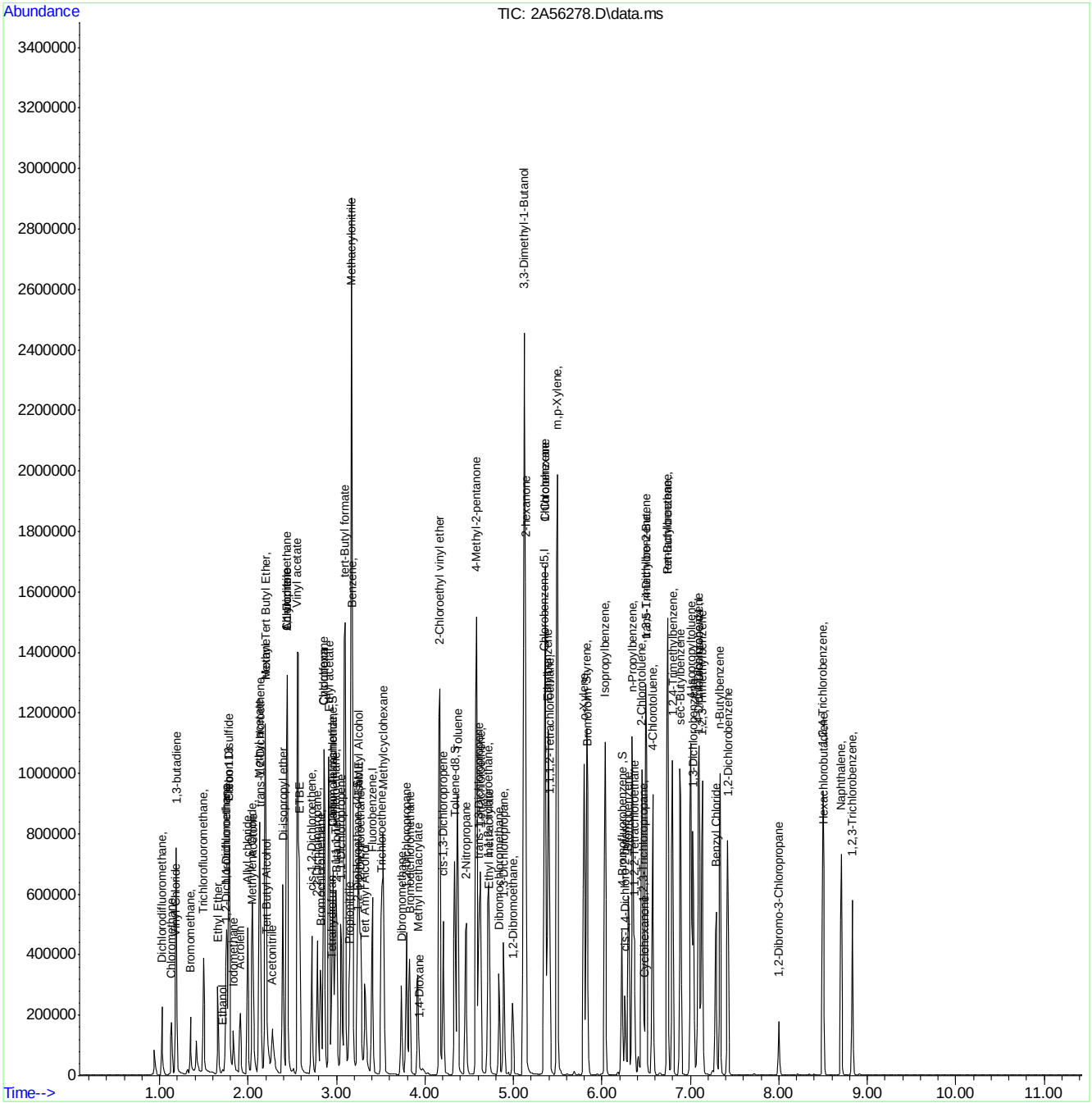
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	352087	96.25	ug/L		93
93)	trans-1,4-Dichloro-2-B...	6.498	53	50527	113.31	ug/L	#	67
94)	1,2,3-Trichloropropane	6.468	110	39962	84.89	ug/L		81
95)	Cyclohexanone	6.475	55	21168	542.43	ug/L	#	78
96)	4-Chlorotoluene	6.575	91	373873	96.14	ug/L		88
97)	tert-Butylbenzene	6.745	91	255929	99.07	ug/L		85
98)	1,2,4-Trimethylbenzene	6.798	105	412947	81.96	ug/L		97
99)	Pentachloroethane	6.745	167	72850	72.61	ug/L	#	71
100)	sec-Butylbenzene	6.883	105	542807	88.12	ug/L		92
101)	4-Isopropyltoluene	7.006	119	460059	86.96	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	235255	71.06	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	413093	88.82	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	236866	71.09	ug/L		90
105)	n-Butylbenzene	7.337	92	210585	88.52	ug/L		94
106)	Benzyl Chloride	7.291	126	59065	87.90	ug/L	#	72
107)	1,2-Dichlorobenzene	7.422	146	214447	73.08	ug/L		92
108)	1,2-Dibromo-3-Chloropr...	7.999	75	30023	105.02	ug/L	#	43
109)	Hexachlorobutadiene	8.507	225	55412	53.40	ug/L		92
110)	1,2,4-Trichlorobenzene	8.499	180	127659	65.56	ug/L		97
111)	Naphthalene	8.707	128	355444	82.82	ug/L		100
112)	1,2,3-Trichlorobenzene	8.830	180	114300	63.41	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 12:08:30 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration



Manual Integration Approval Summary

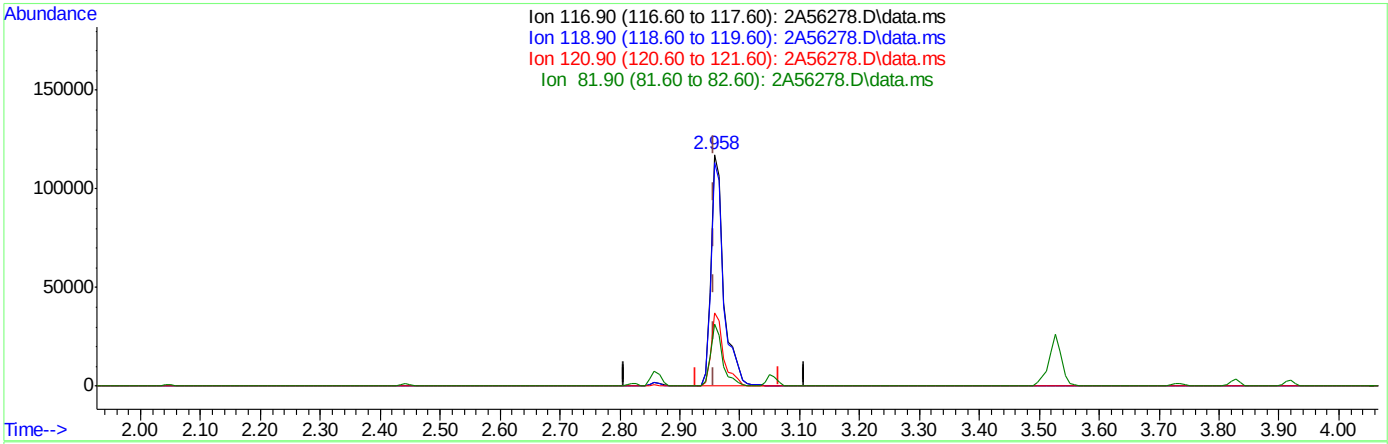
Sample Number: V2A1910-IC1910
Lab FileID: 2A56278.D
Injection Time: 06/25/24 11:19
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

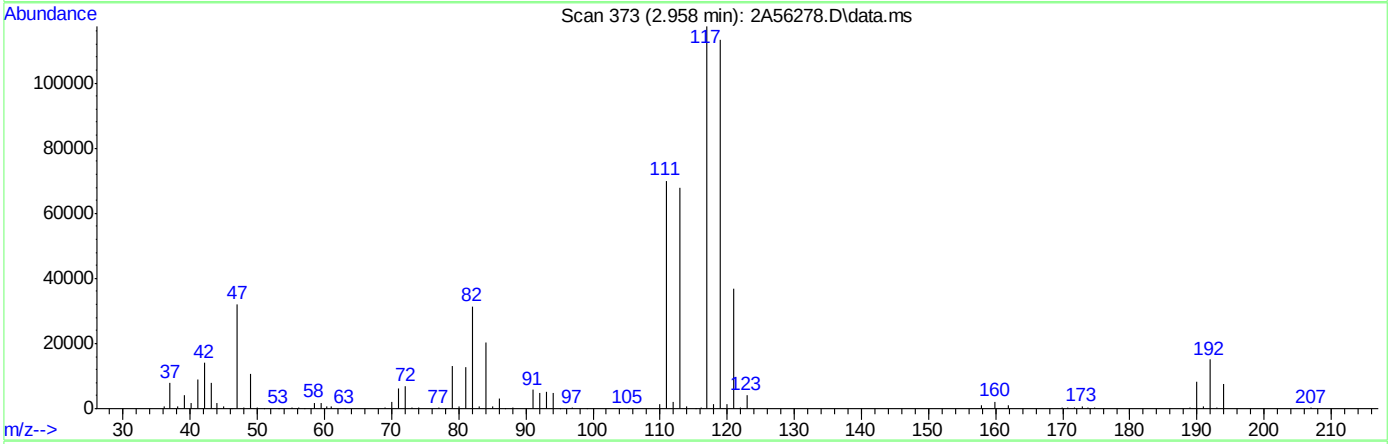
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 72.82ug/L

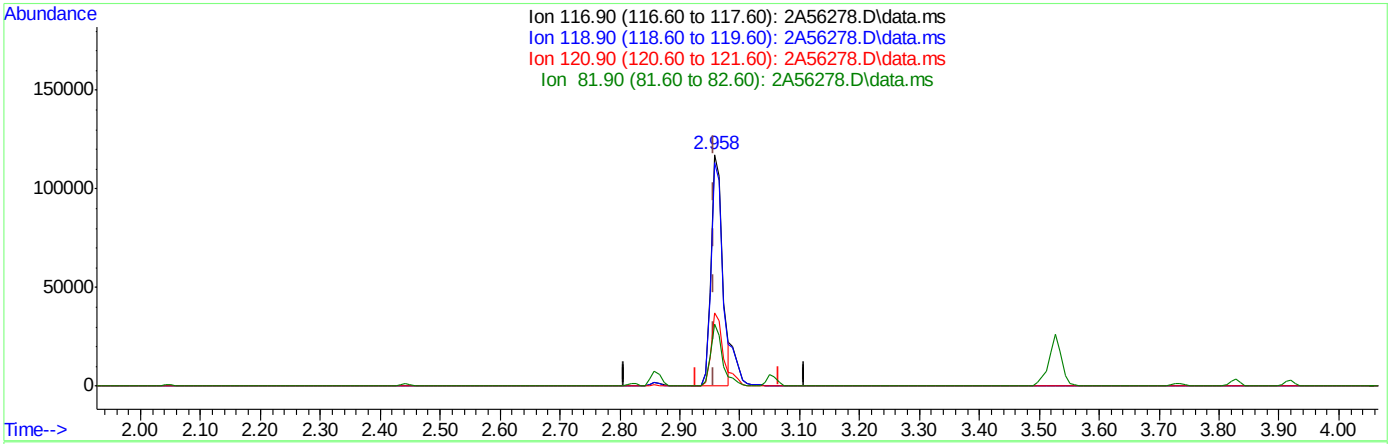
response 175008

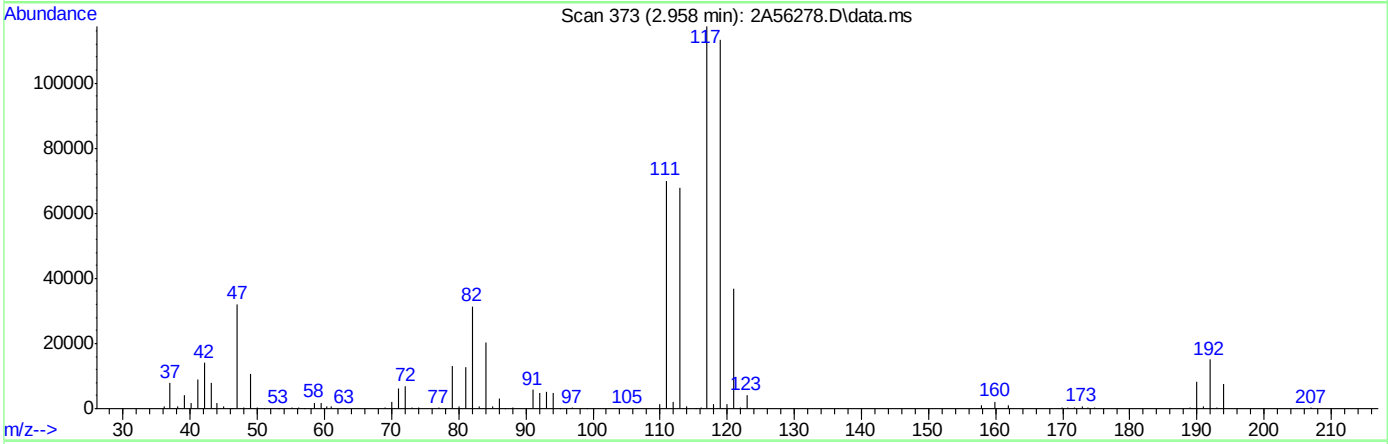
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.53
120.90	31.00	31.43
81.90	19.00	26.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.000) 65.83ug/L m

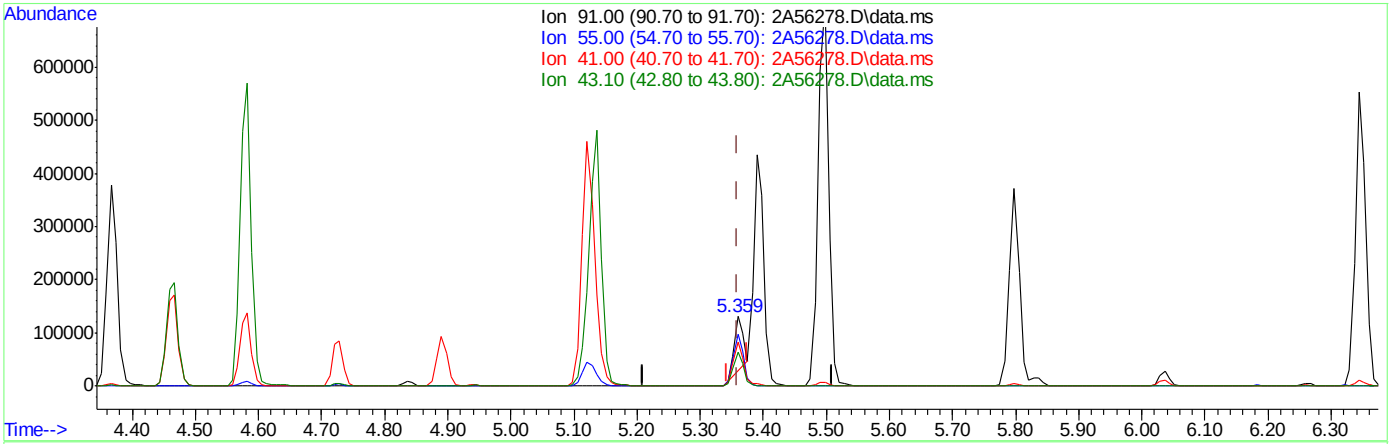
response 158194

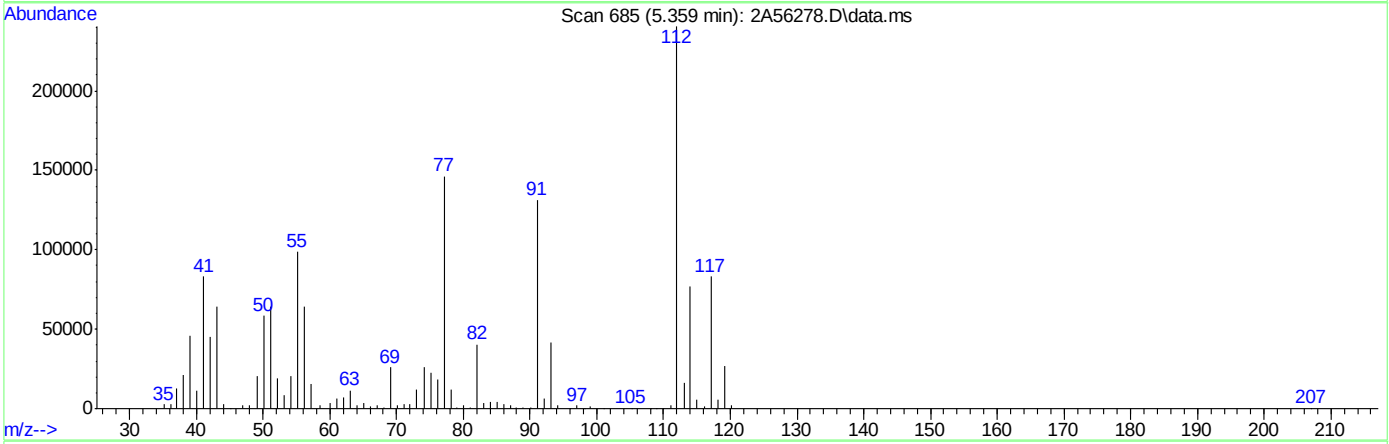
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.53
120.90	31.00	31.43
81.90	19.00	26.84

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 54.22ug/L

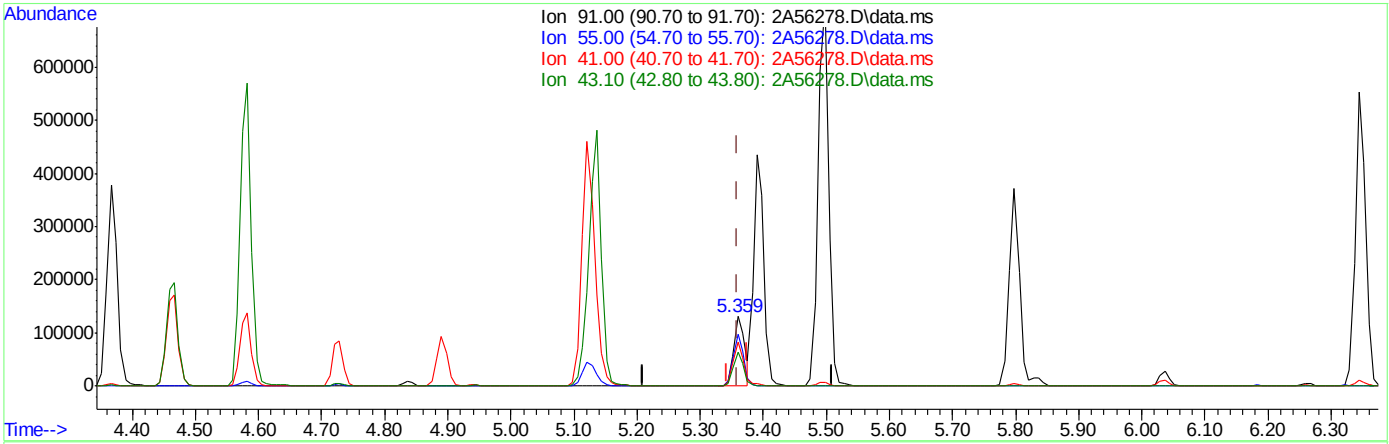
response 106766

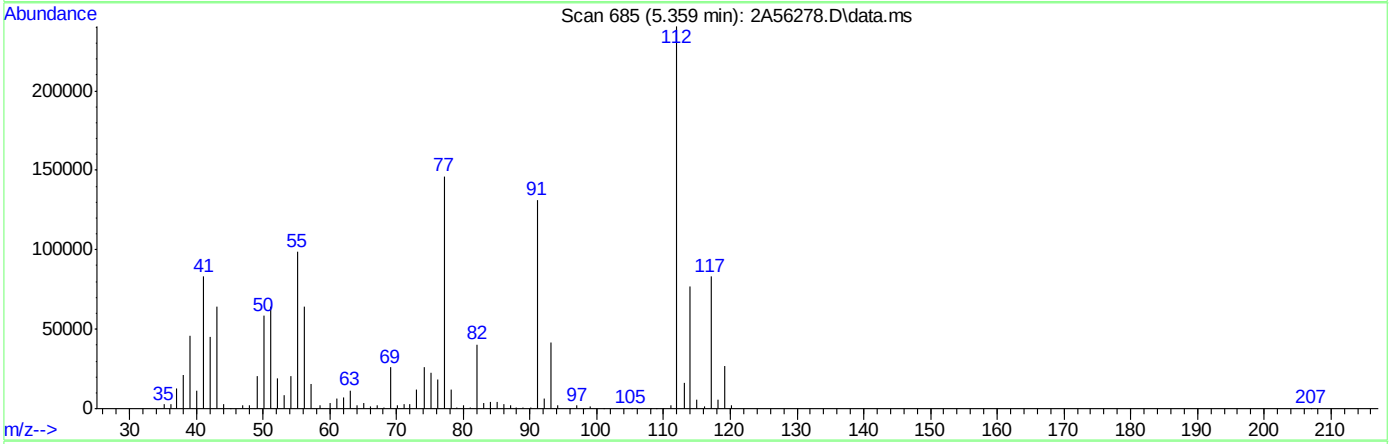
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	72.54
41.00	39.20	61.34#
43.10	33.20	47.40

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(76) 1-Chlorohexane

5.359min (-0.001) 80.63ug/L m

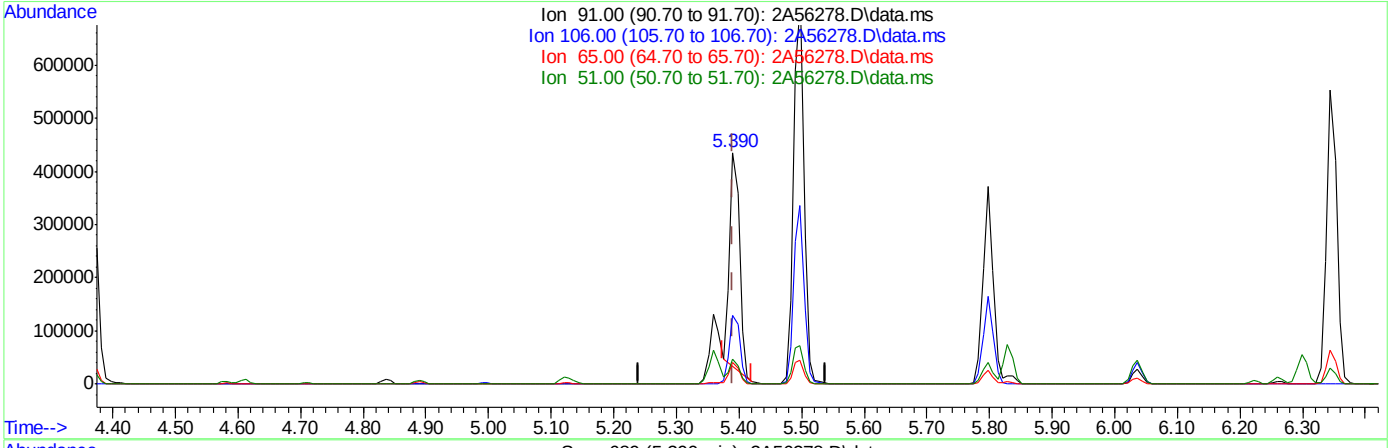
response 158783

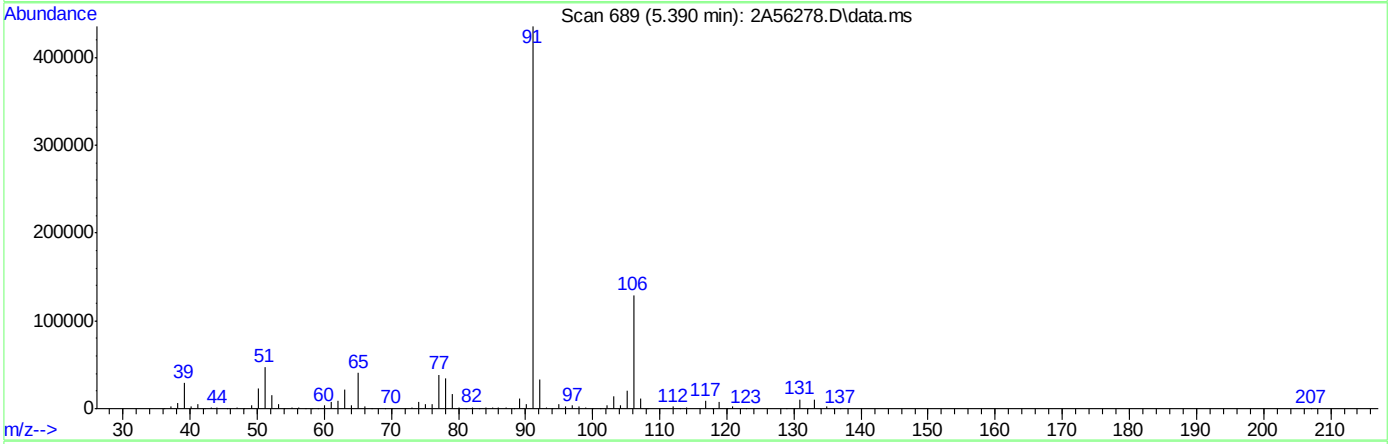
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	75.15
41.00	39.20	63.29#
43.10	33.20	48.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 70.83ug/L

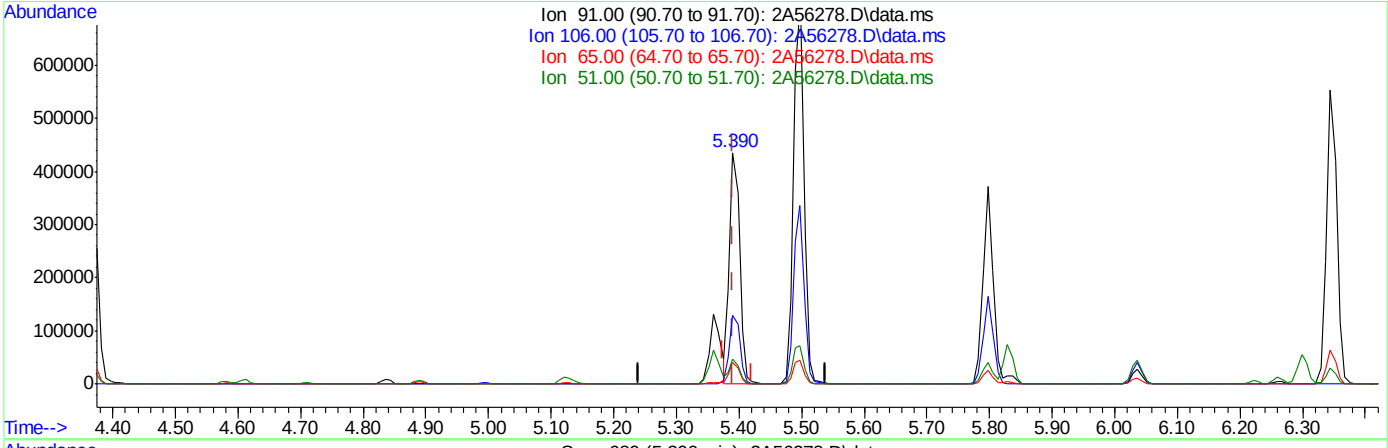
response 430976

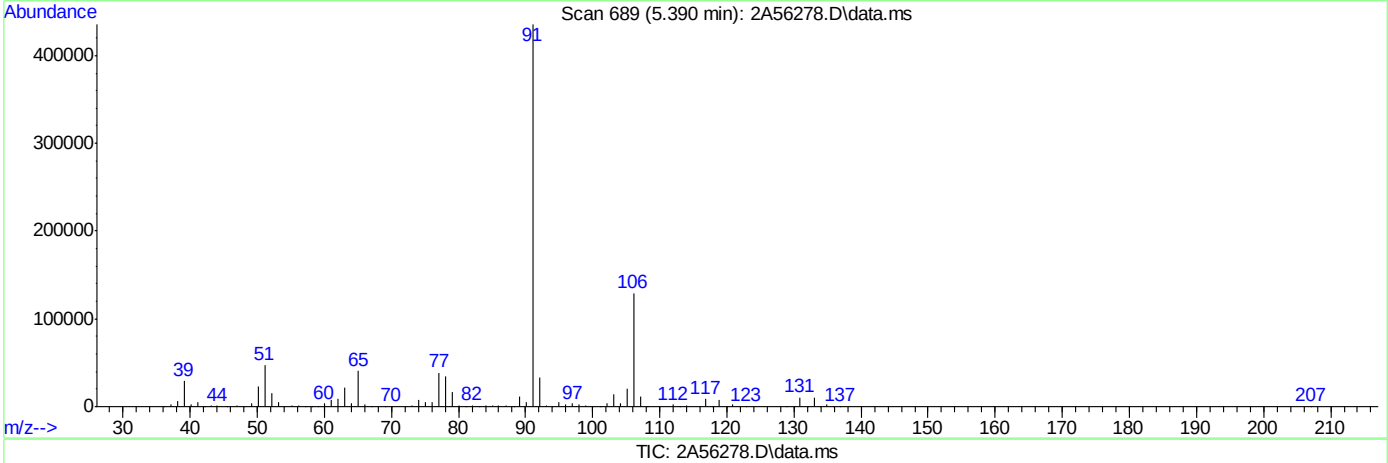
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.71
65.00	7.10	9.24
51.00	7.10	10.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:03 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 82.89ug/L m

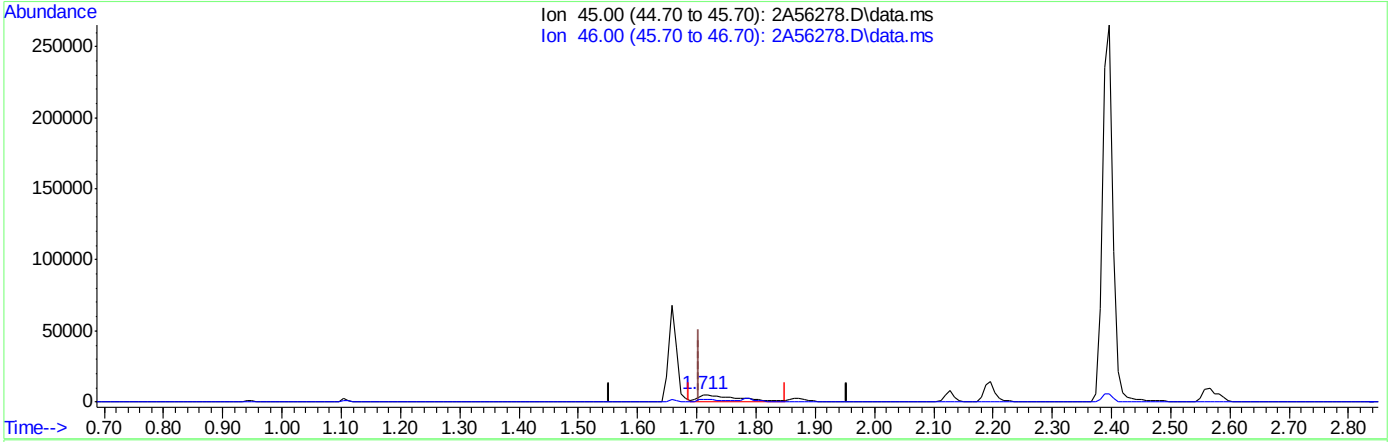
response 504324

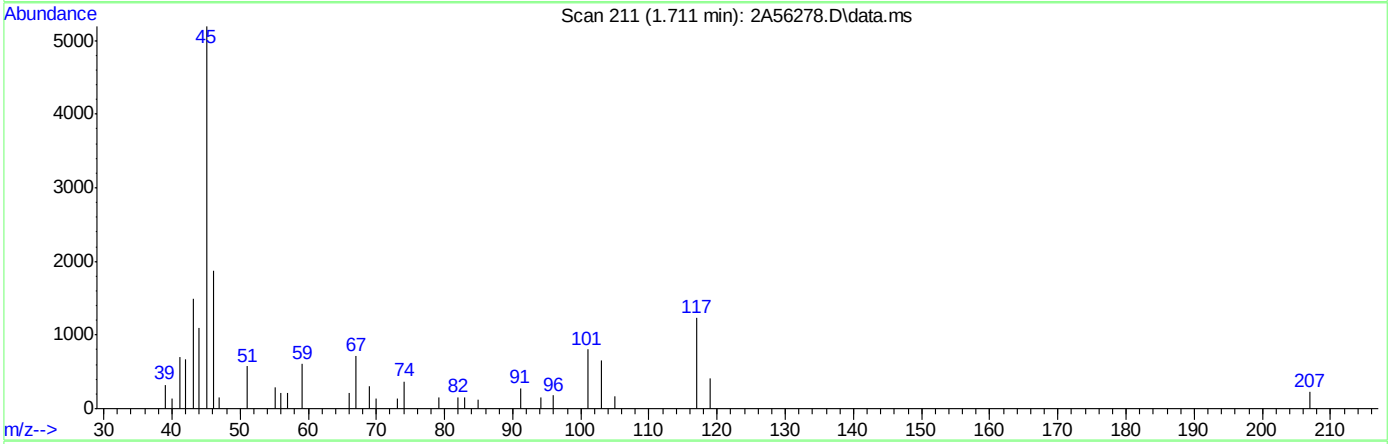
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.69
65.00	7.10	9.25
51.00	7.10	10.94

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 1920.81ug/L

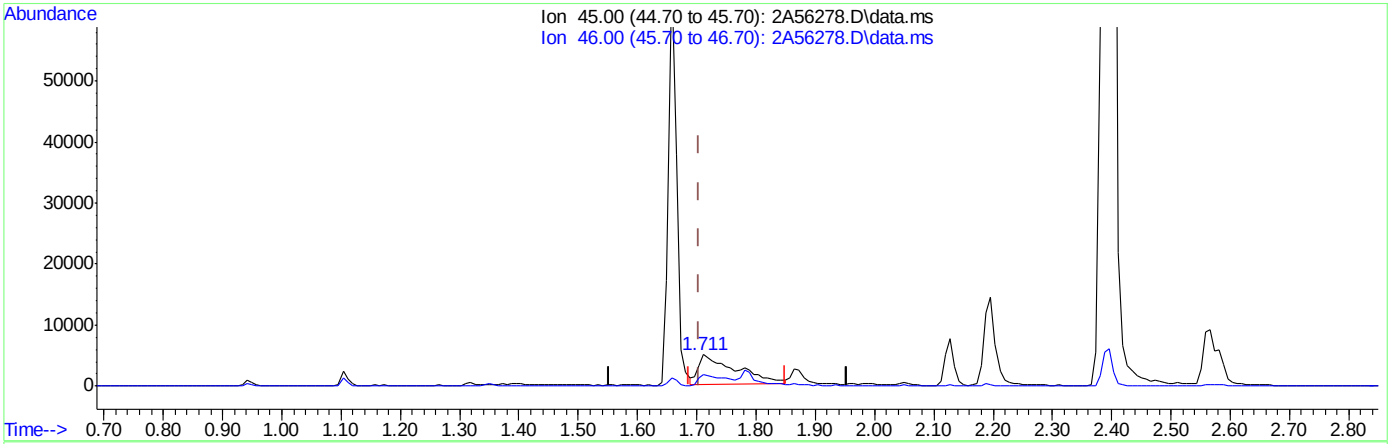
response 22311

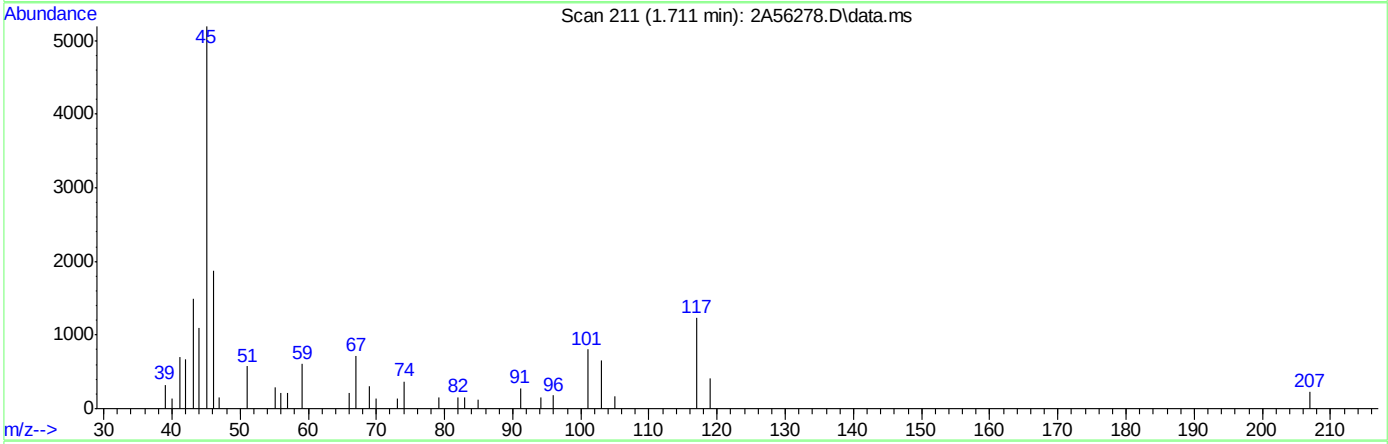
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	44.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 1920.81ug/L

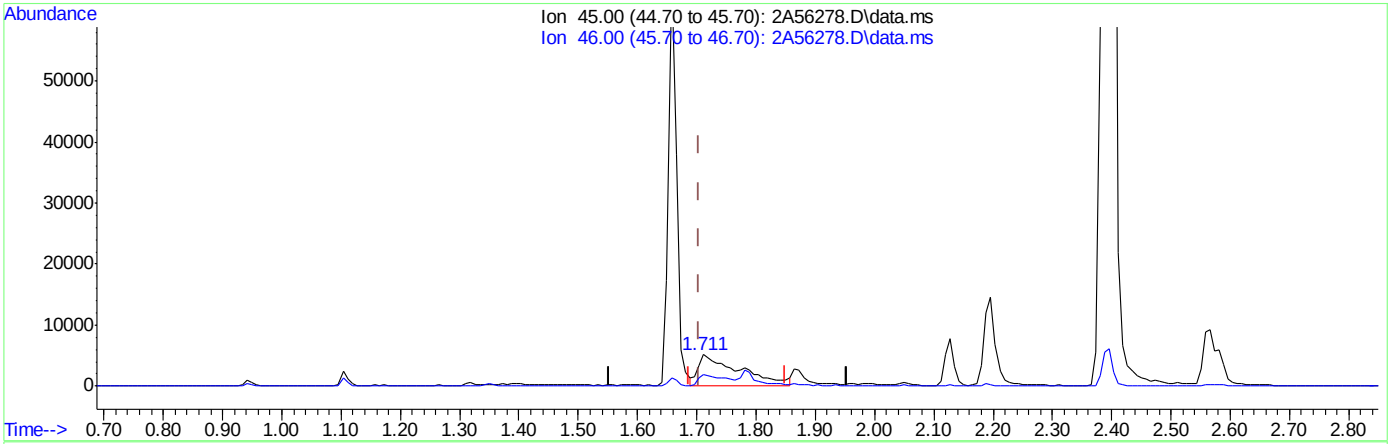
response 22311

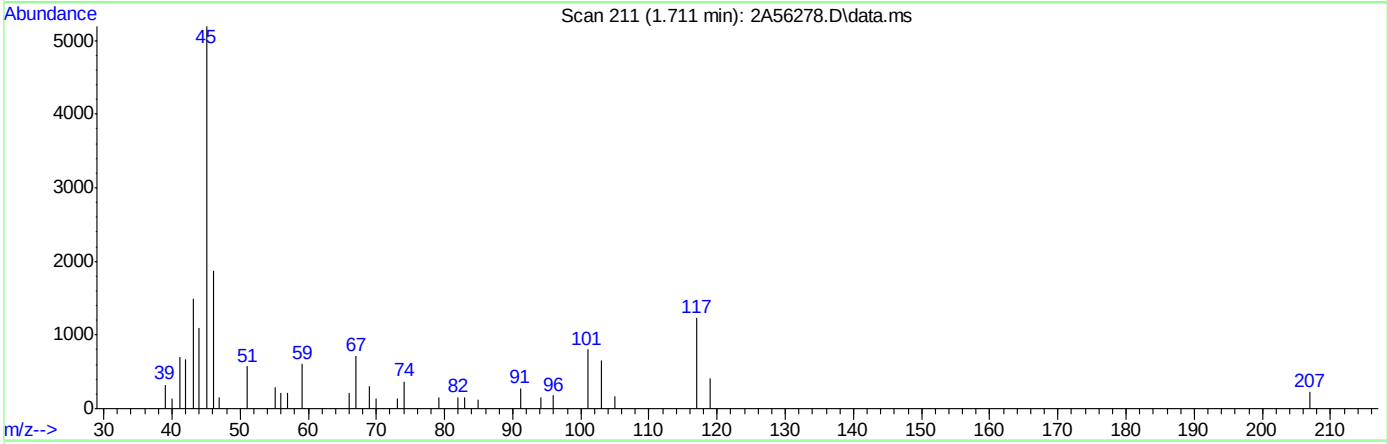
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	44.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56278.D
Acq On : 25 Jun 2024 11:19 am
Operator : jeniferw
Sample : IC1910-6
Misc : MS56892,V2A1910,,,,,
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Jun 25 11:59:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 04 12:31:11 2024
Response via : Initial Calibration





TIC: 2A56278.D\data.ms

(10) Ethanol

1.711min (+0.007) 2195.61ug/L m

response 25503

Ion	Exp%	Act%
45.00	100	100
46.00	46.00	36.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	311293	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	221306	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	127691	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.950	113	86171	47.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.34%				
49) 1,2-Dichloroethane-d4	3.235	65	95865	43.81	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.62%				
63) Toluene-d8	4.336	98	299071	49.83	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.66%				
86) 4-Bromofluorobenzene	6.229	174	102191	50.65	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	140393	90.13	ug/L		98
3) Chloromethane	1.126	50	157090	82.69	ug/L		99
4) 1,3-butadiene	1.188	39	176551	69.75	ug/L	#	78
5) Vinyl Chloride	1.173	62	158920	87.35	ug/L		98
6) Bromomethane	1.350	94	74547	80.17	ug/L		97
7) Chloroethane	1.411	64	73902	Below Cal			95
8) Trichlorofluoromethane	1.496	101	214795	89.04	ug/L		100
9) Ethyl Ether	1.657	59	118250	92.44	ug/L		90
10) Ethanol	1.719	45	43494m	2349.36	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.742	67	117459	80.20	ug/L	#	87
12) 1,1-Dichloroethene	1.758	61	217264	88.49	ug/L		86
13) Freon 113	1.788	101	139820	97.26	ug/L		91
14) Carbon Disulfide	1.781	76	421278	86.74	ug/L		83
15) Iodomethane	1.834	142	128804	84.81	ug/L		90
16) Acrolein	1.911	56	150707	500.06	ug/L		97
17) Allyl chloride	1.996	41	220748	87.50	ug/L		82
18) Methylene Chloride	2.042	49	193758	68.92	ug/L	#	70
19) Acetone	2.050	43	281912	444.39	ug/L		81
20) Methyl acetate	2.127	43	746648	479.83	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	212654	87.05	ug/L		78
22) Hexane	2.196	56	141075	98.30	ug/L	#	82
23) Methyl Tert Butyl Ether	2.196	73	431411	98.75	ug/L		76
24) Acetonitrile	2.273	41	180111	1008.89	ug/L		97
25) Tert Butyl Alcohol	2.212	59	240469	959.23	ug/L		59
26) Di-isopropyl ether	2.396	45	474350	95.66	ug/L		88
27) Chloroprene	2.442	53	615521	94.60	ug/L		92
28) 1,1-Dichloroethane	2.442	63	269611	86.32	ug/L		98
29) Acrylonitrile	2.442	52	377032	481.34	ug/L		97
30) ETBE	2.581	59	472373	101.25	ug/L		91
31) Vinyl acetate	2.558	43	1927570	519.15	ug/L		98
32) cis-1,2-Dichloroethene	2.720	96	158515	84.46	ug/L	#	79
33) 2,2-Dichloropropane	2.781	77	216468	85.63	ug/L		95
34) Bromochloromethane	2.820	128	77153	88.01	ug/L	#	61
35) Cyclohexane	2.858	56	270103	94.11	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	275344	85.20	ug/L		95
37) Ethyl acetate	2.912	43	1051864	516.59	ug/L		90
38) Tetrahydrofuran	2.943	42	70907	96.88	ug/L		82
40) Carbon Tetrachloride	2.958	117	226959m	95.08	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	245050	88.73	ug/L		93
42) 2-Butanone	3.004	43	520851	513.21	ug/L		83
43) 1,1-Dichloropropene	3.051	75	197999	91.30	ug/L		78
44) tert-Butyl formate	3.097	59	714706	570.12	ug/L		94
45) Propionitrile	3.143	54	268656	911.68	ug/L		97
46) Methacrylonitrile	3.166	41	1147423	1000.79	ug/L		95
47) Benzene	3.181	78	575531	90.33	ug/L		83
48) TAME	3.251	73	412773	101.24	ug/L		97
50) 1,2-Dichloroethane	3.274	62	217216	93.68	ug/L		96
51) Isobutyl Alcohol	3.251	43	287387	1808.73	ug/L		74
52) Tert Amyl Alcohol	3.328	59	198976	999.00	ug/L		91
53) Trichloroethene	3.505	95	163753	90.10	ug/L		83
54) Methylcyclohexane	3.528	83	274348	98.54	ug/L		83
55) Dibromomethane	3.736	93	103739	94.71	ug/L		89
56) 1,2-Dichloropropane	3.789	63	150223	91.39	ug/L		90
57) Bromodichloromethane	3.828	83	214676	93.59	ug/L	#	96
58) Methyl methacrylate	3.913	41	155564	101.82	ug/L	#	65
59) 1,4-Dioxane	3.936	88	31482	2252.77	ug/L		84
60) 2-Chloroethyl vinyl ether	4.167	63	555189	500.42	ug/L		85
61) cis-1,3-Dichloropropene	4.205	75	244391	98.88	ug/L		79
64) Toluene	4.367	91	613625	91.42	ug/L		99
65) 2-Nitropropane	4.467	41	316465	485.60	ug/L		93
66) 4-Methyl-2-pentanone	4.582	43	997238	503.78	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	232679	106.92	ug/L		88
68) Tetrachloroethene	4.628	166	168811	98.11	ug/L		95
69) Ethyl methacrylate	4.728	69	197721	100.62	ug/L	#	72
70) 1,1,2-Trichloroethane	4.713	83	121996	97.50	ug/L		89
71) Dibromochloromethane	4.836	129	167172	109.20	ug/L		98
72) 1,3-Dichloropropane	4.890	76	225730	104.66	ug/L		76
73) 1,2-Dibromoethane	4.990	107	154674	105.09	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	1233911	5061.21	ug/L		95
75) 2-hexanone	5.136	43	938898	486.94	ug/L		85
76) 1-Chlorohexane	5.359	91	225210m	88.21	ug/L		
77) Ethylbenzene	5.390	91	712180m	91.61	ug/L		
78) Chlorobenzene	5.359	112	402054	92.74	ug/L		85
79) 1,1,1,2-Tetrachloroethane	5.406	131	151064	103.57	ug/L		98
80) m,p-Xylene	5.498	91	1169099	183.99	ug/L		93
81) o-Xylene	5.798	91	613880	92.29	ug/L		91
82) Styrene	5.829	104	454602	95.11	ug/L		89
83) Bromoform	5.837	173	121270	112.11	ug/L		98
84) Isopropylbenzene	6.037	105	709116	90.29	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	61122	112.97	ug/L	#	75
88) n-Propylbenzene	6.345	91	884199	93.09	ug/L		87
89) Bromobenzene	6.306	156	173223	96.59	ug/L	#	81
90) 1,1,2,2-Tetrachloroethane	6.368	83	203287	96.23	ug/L		97
91) 1,3,5-Trimethylbenzene	6.498	105	601371	93.24	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration

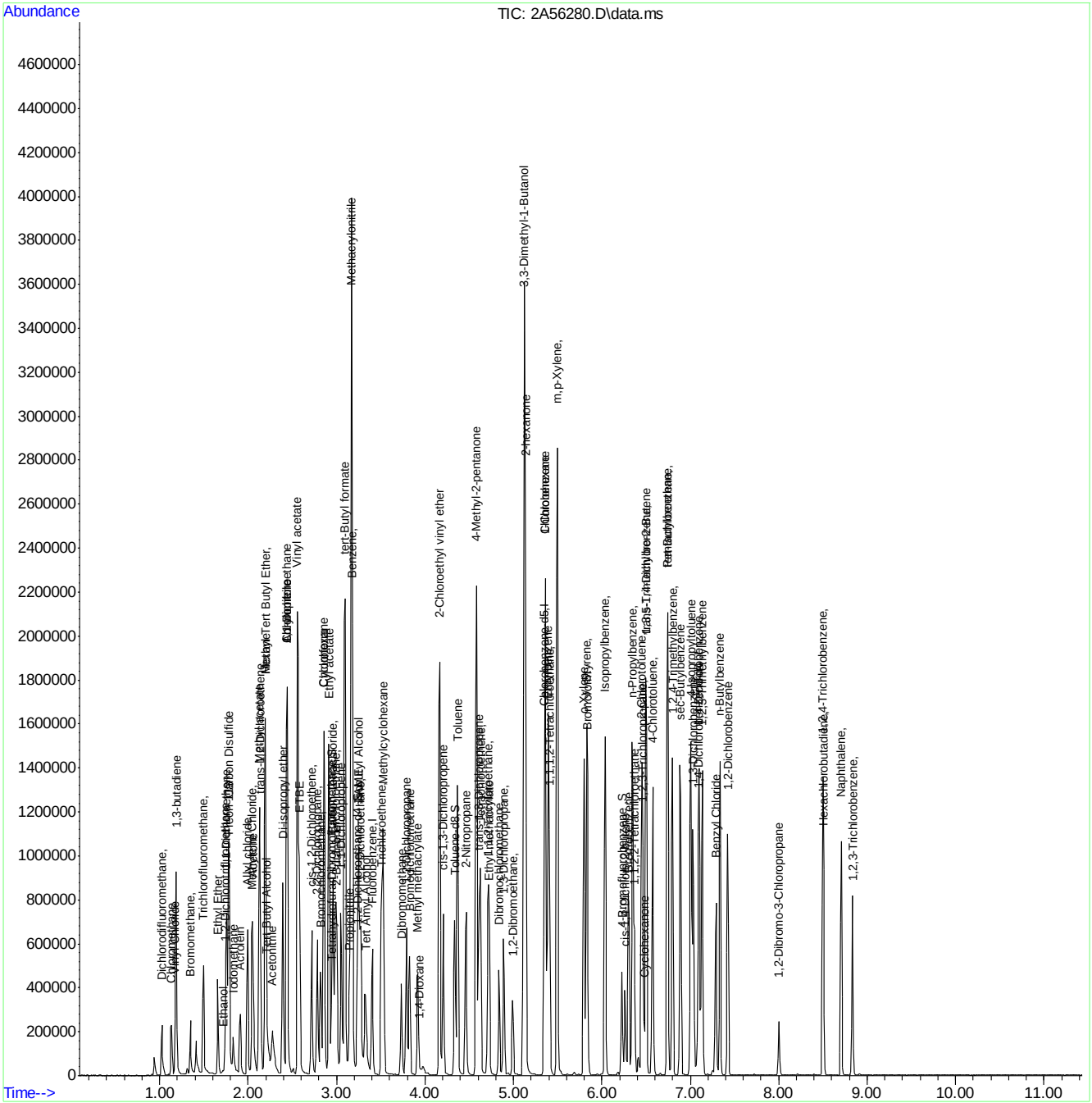
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	489515	93.41	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	72150	101.81	ug/L	#	68
94)	1,2,3-Trichloropropane	6.460	110	56754	103.50	ug/L	#	65
95)	Cyclohexanone	6.475	55	31152	493.24	ug/L	#	79
96)	4-Chlorotoluene	6.575	91	521630	92.90	ug/L		88
97)	tert-Butylbenzene	6.745	91	353931	90.97	ug/L		86
98)	1,2,4-Trimethylbenzene	6.799	105	575876	99.71	ug/L		97
99)	Pentachloroethane	6.745	167	103787	108.90	ug/L	#	78
100)	sec-Butylbenzene	6.883	105	749773	91.60	ug/L		92
101)	4-Isopropyltoluene	7.006	119	639016	91.98	ug/L		94
102)	1,3-Dichlorobenzene	7.030	146	329473	94.16	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	579531	97.43	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	326088	93.04	ug/L		90
105)	n-Butylbenzene	7.337	92	298154	99.75	ug/L		94
106)	Benzyl Chloride	7.291	126	83339	109.19	ug/L	#	75
107)	1,2-Dichlorobenzene	7.422	146	297299	94.80	ug/L		91
108)	1,2-Dibromo-3-Chloropr...	7.999	75	42177	98.80	ug/L	#	44
109)	Hexachlorobutadiene	8.507	225	78463	87.51	ug/L		92
110)	1,2,4-Trichlorobenzene	8.500	180	182723	95.89	ug/L		98
111)	Naphthalene	8.707	128	506407	97.48	ug/L		100
112)	1,2,3-Trichlorobenzene	8.838	180	164504	96.67	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:58 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration



Manual Integration Approval Summary

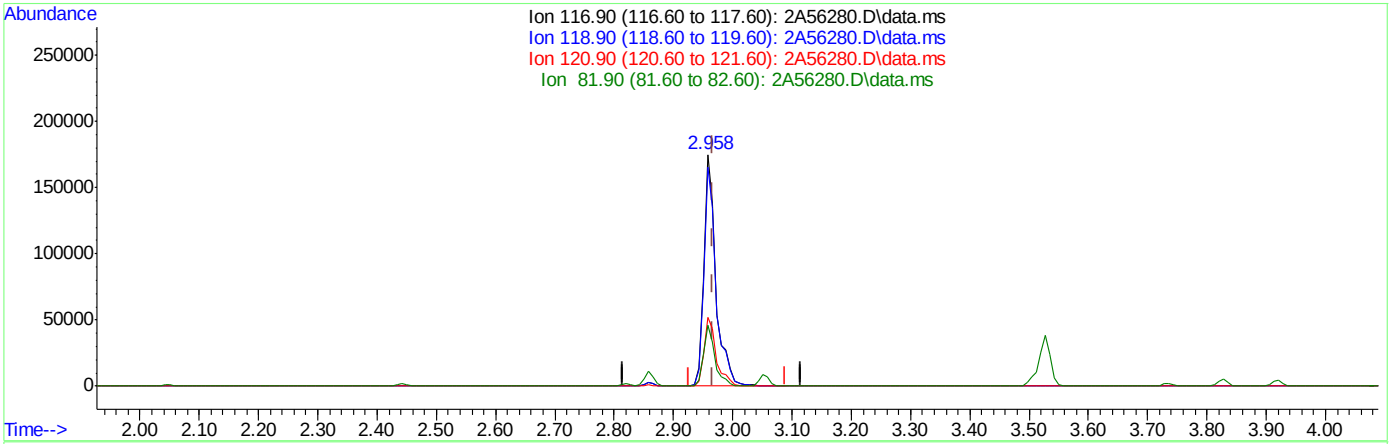
Sample Number: V2A1910-IC1910
Lab FileID: 2A56280.D
Injection Time: 06/25/24 11:51
Method: SW846 8260D
Analyst approved: 06/25/24 13:54 Jenifer Willis
Supervisor approved: 06/26/24 07:53 Karen Watson

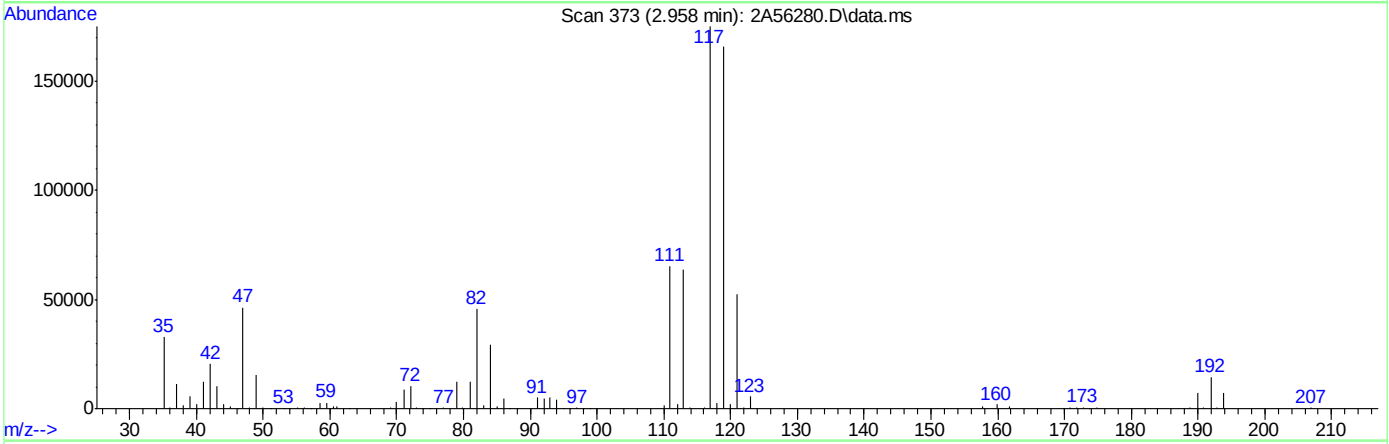
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.72	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 104.49ug/L

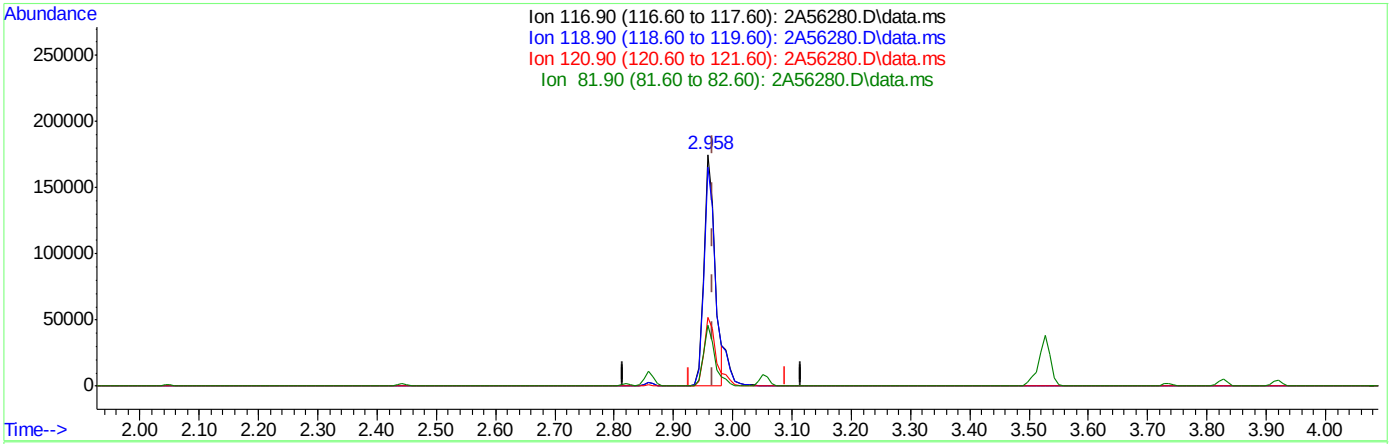
response 249403

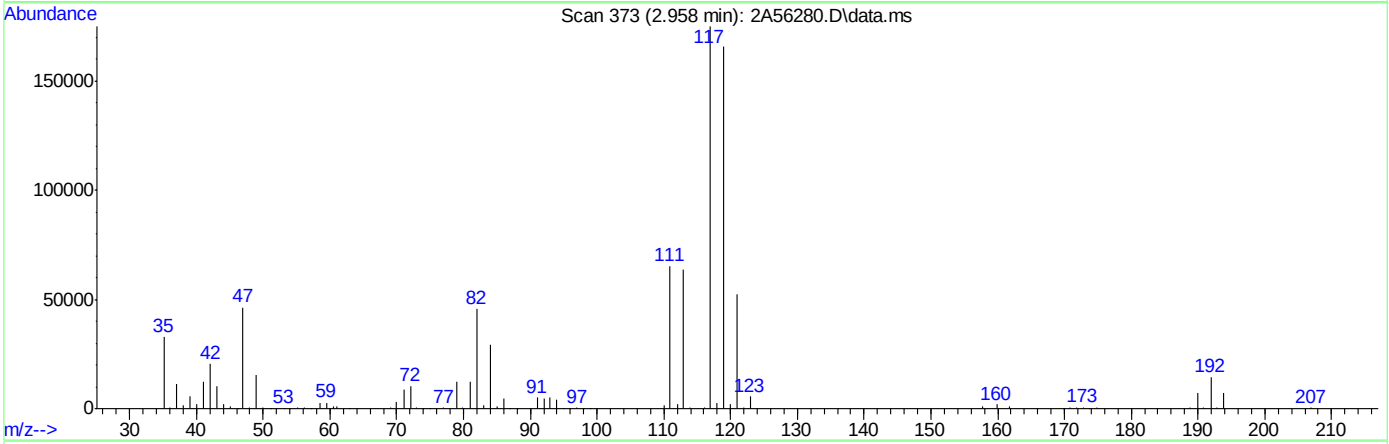
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.66
120.90	31.00	29.89
81.90	19.00	26.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 95.08ug/L m

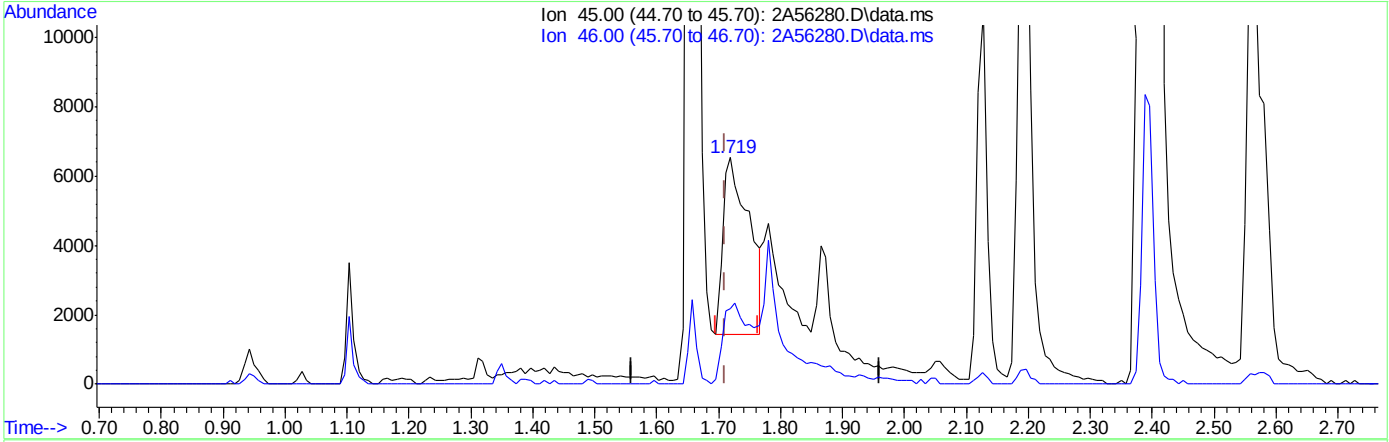
response 226959

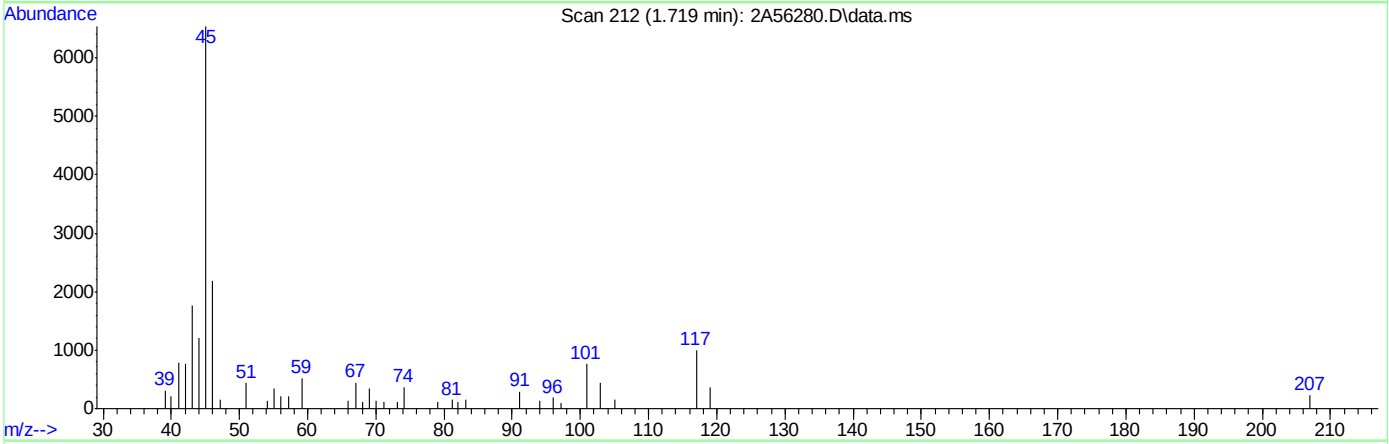
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.66
120.90	31.00	29.89
81.90	19.00	26.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(10) Ethanol

1.719min (+0.008) 798.30ug/L

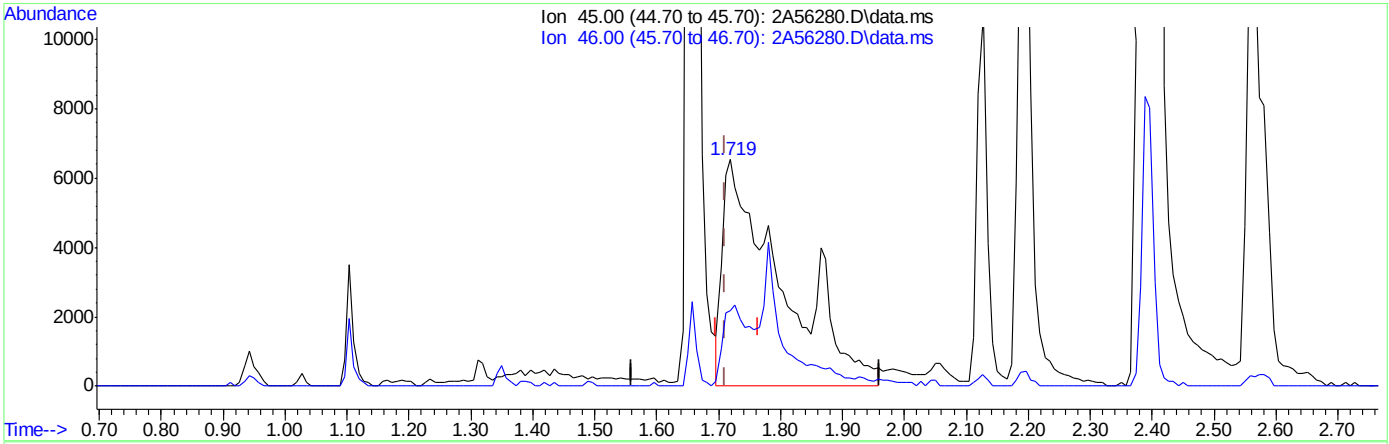
response 14779

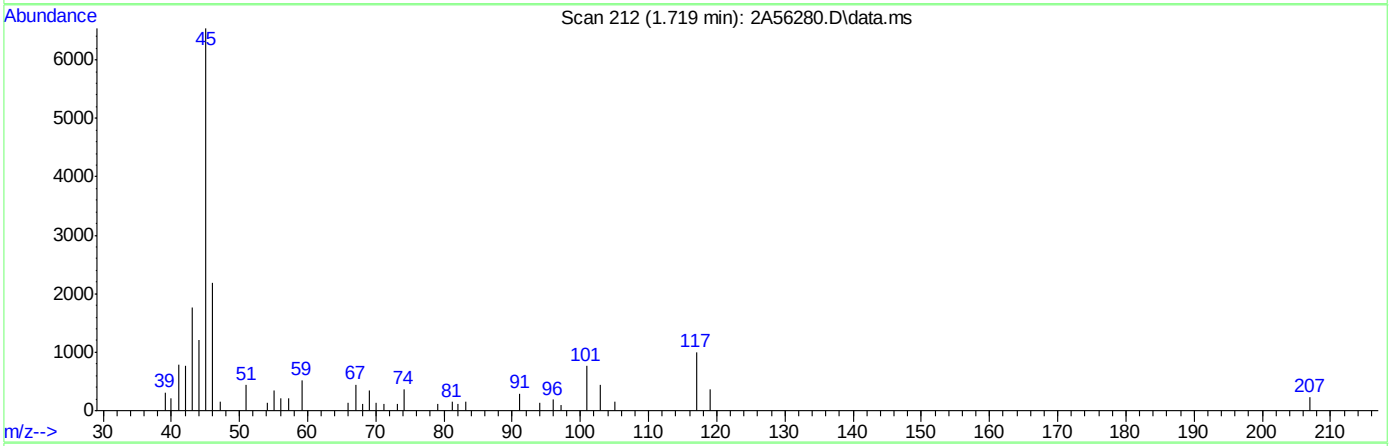
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	40.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(10) Ethanol

1.719min (+0.008) 2349.36ug/L m

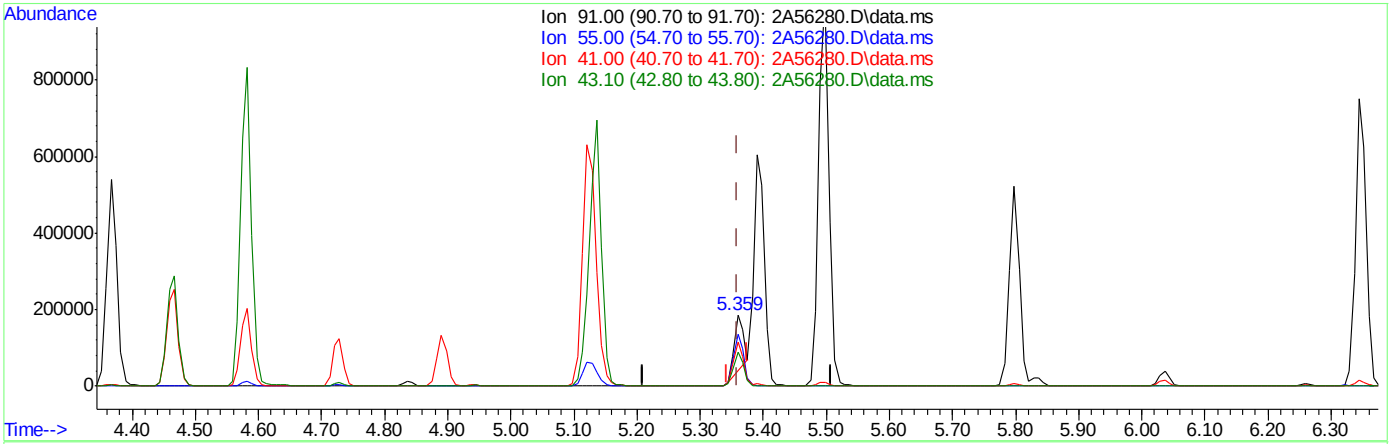
response 43494

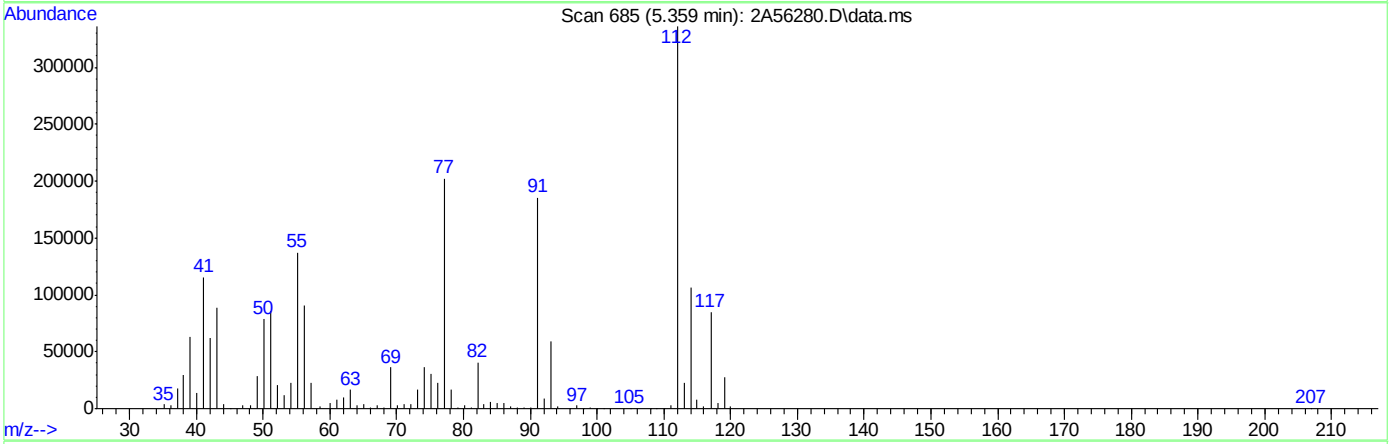
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	33.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 60.44ug/L

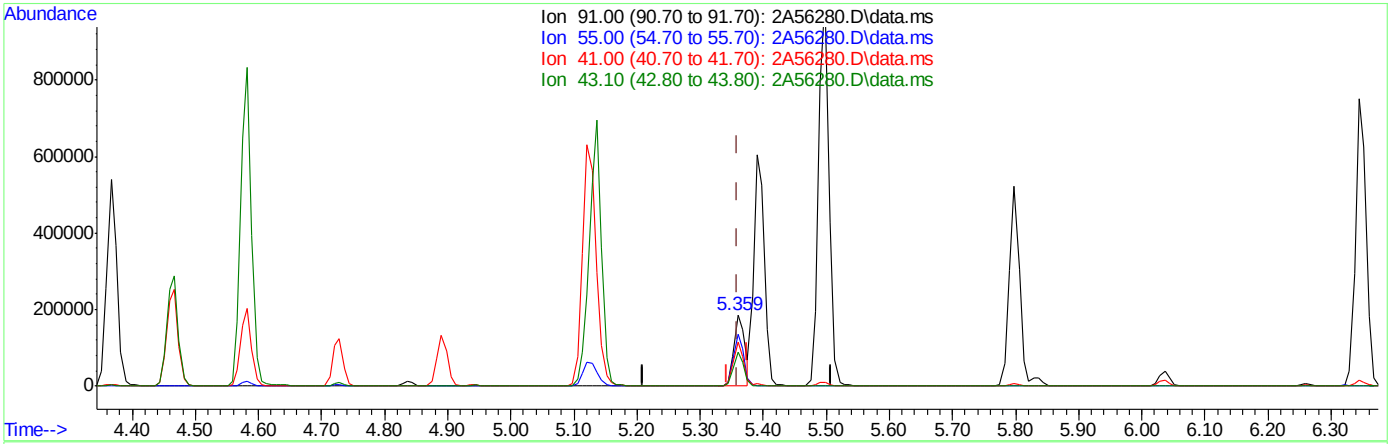
response 154309

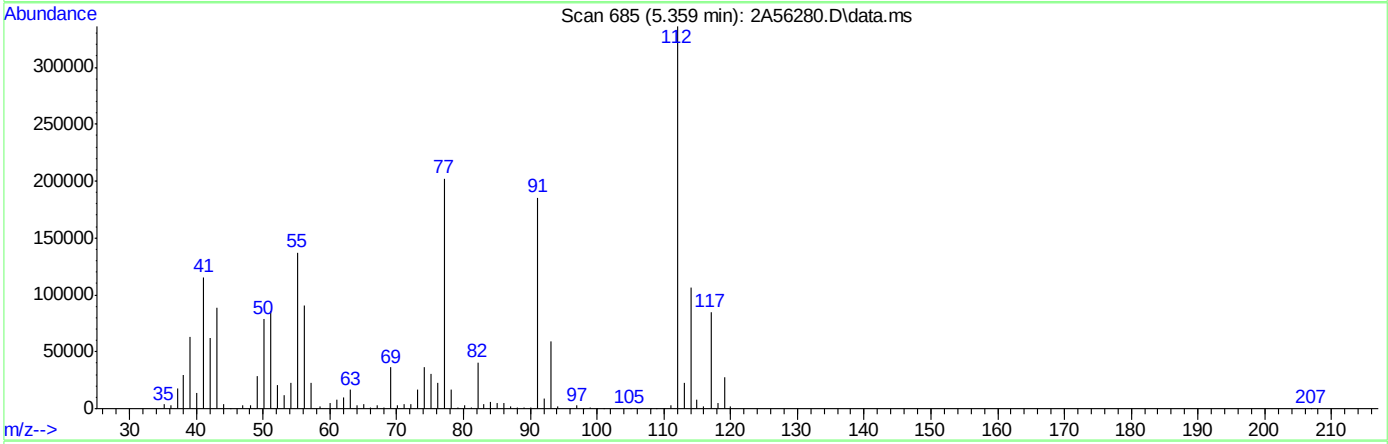
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	71.52
41.00	39.20	60.52#
43.10	33.20	46.33

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 88.21ug/L m

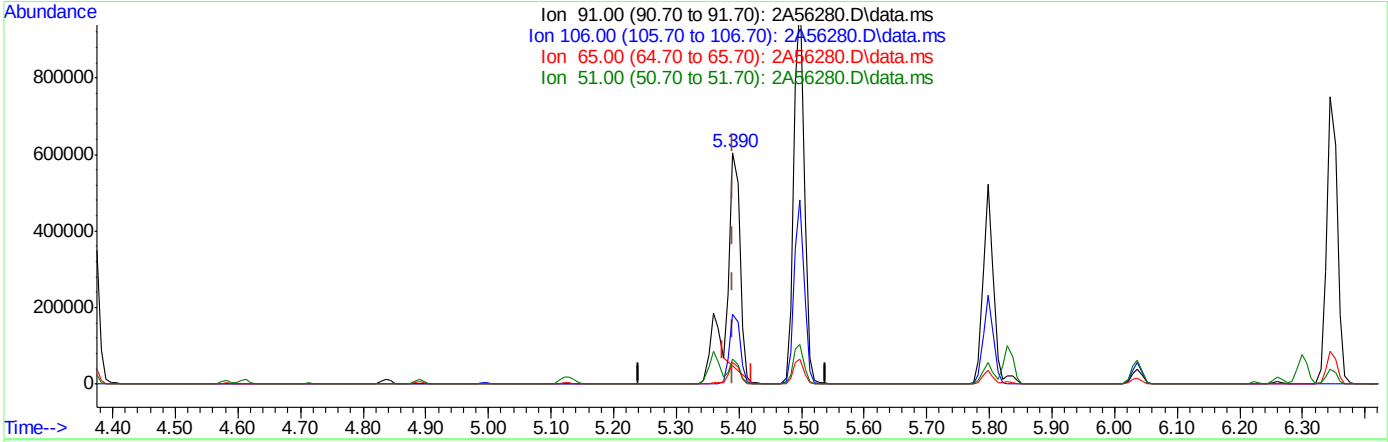
response 225210

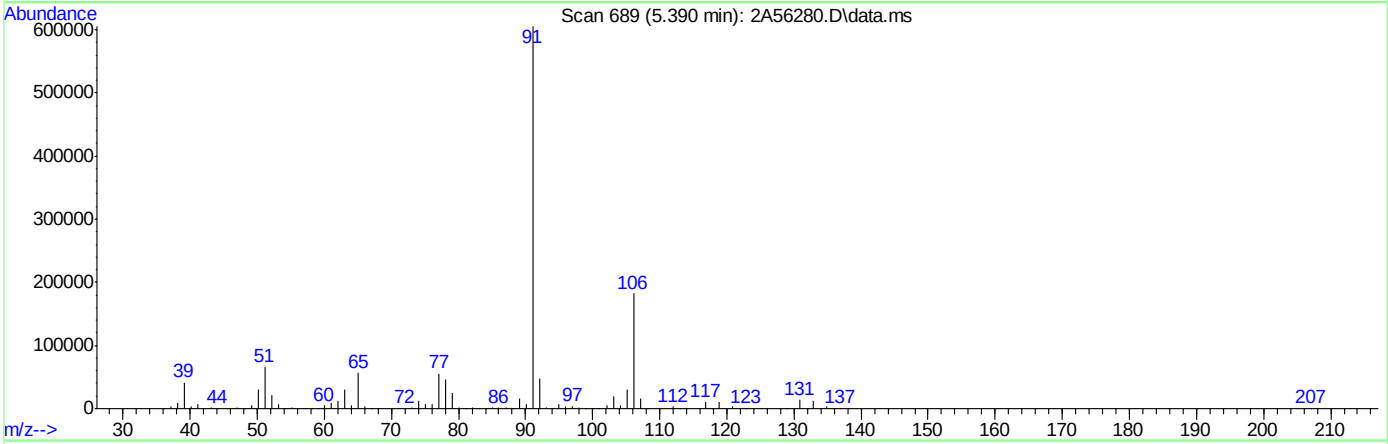
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	73.74
41.00	39.20	62.26#
43.10	33.20	47.69

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 78.53ug/L

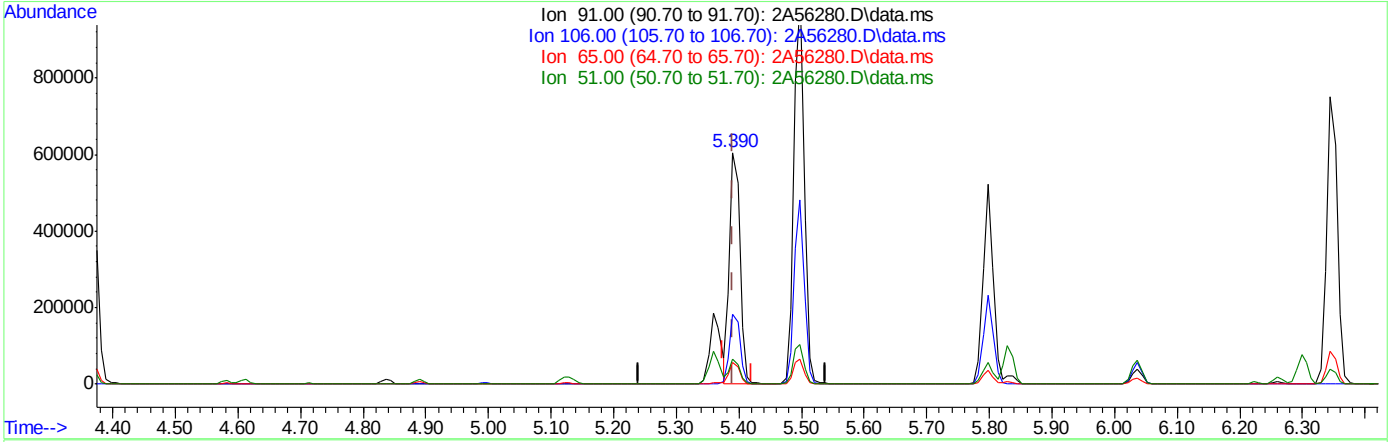
response 610503

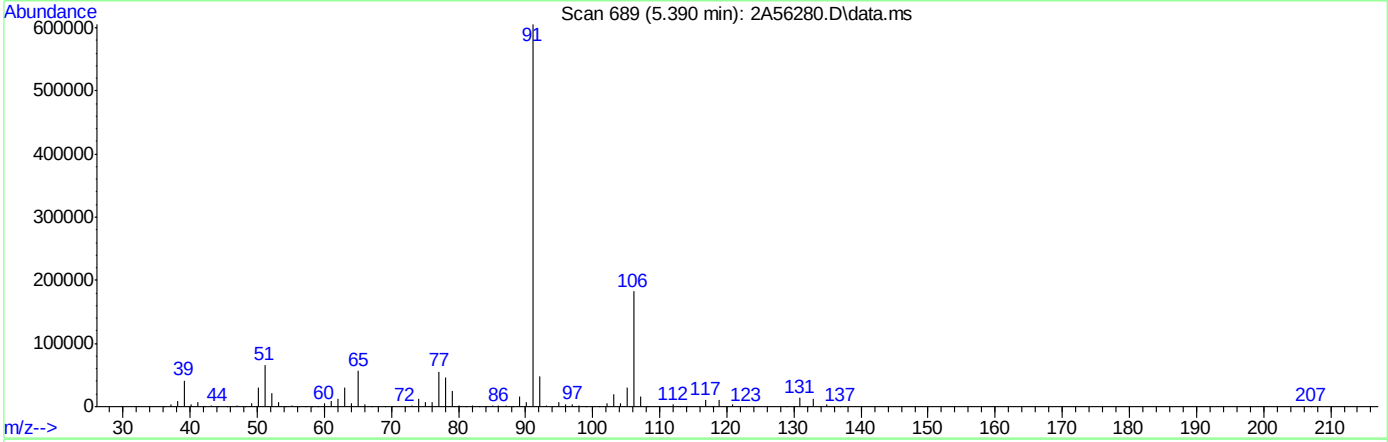
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.14
65.00	7.10	9.29
51.00	7.10	10.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56280.D
Acq On : 25 Jun 2024 11:51 am
Operator : jeniferw
Sample : IC1910-7
Misc : MS56892,V2A1910,,,,,
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Jun 25 12:03:24 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:00:37 2024
Response via : Initial Calibration





TIC: 2A56280.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 91.61ug/L m

response 712180

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.18
65.00	7.10	9.30
51.00	7.10	10.89

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 07:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.404	96	304169	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	222230	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	133491	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	87055	49.57	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%				
49) 1,2-Dichloroethane-d4	3.235	65	106647	50.66	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.32%				
63) Toluene-d8	4.336	98	301477	50.04	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.08%				
86) 4-Bromofluorobenzene	6.229	174	105201	49.80	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	65203	43.37	ug/L		97
3) Chloromethane	1.134	50	66489	38.42	ug/L		98
4) 1,3-butadiene	1.188	39	74593	37.11	ug/L	#	77
5) Vinyl Chloride	1.180	62	66443	37.98	ug/L		98
6) Bromomethane	1.350	94	27243	35.82	ug/L		98
7) Chloroethane	1.419	64	35253	39.27	ug/L		96
8) Trichlorofluoromethane	1.496	101	93025	40.01	ug/L		100
9) Ethyl Ether	1.657	59	45722	36.93	ug/L		88
10) Ethanol	1.711	45	13336m	702.30	ug/L		
11) 1,2-Dichlorotrifluoroe...	1.750	67	67238	56.25	ug/L		93
12) 1,1-Dichloroethene	1.765	61	88547	37.45	ug/L		89
13) Freon 113	1.788	101	55673	39.77	ug/L	#	88
14) Carbon Disulfide	1.788	76	141625	33.32	ug/L		85
15) Iodomethane	1.834	142	38219	33.89	ug/L		92
16) Acrolein	1.911	56	68533	235.77	ug/L		96
17) Allyl chloride	1.996	41	90374	39.10	ug/L		80
18) Methylene Chloride	2.042	49	83543	38.63	ug/L	#	69
19) Acetone	2.050	43	121486	198.75	ug/L		82
20) Methyl acetate	2.127	43	303633	200.71	ug/L		88
21) trans-1,2-Dichloroethene	2.135	61	85977	36.61	ug/L	#	76
22) Hexane	2.196	56	53777	38.43	ug/L	#	78
23) Methyl Tert Butyl Ether	2.196	73	171107	40.15	ug/L		80
24) Acetonitrile	2.273	41	75586	368.57	ug/L		97
25) Tert Butyl Alcohol	2.212	59	90153	369.93	ug/L		60
26) Di-isopropyl ether	2.396	45	177537	36.84	ug/L		87
27) Chloroprene	2.442	53	244198	38.67	ug/L		92
28) 1,1-Dichloroethane	2.442	63	108129	36.05	ug/L		96
29) Acrylonitrile	2.442	52	144518	189.71	ug/L		95
30) ETBE	2.581	59	176490	38.66	ug/L		91
31) Vinyl acetate	2.558	43	805304	220.91	ug/L		98
32) cis-1,2-Dichloroethene	2.719	96	62356	37.83	ug/L	#	77
33) 2,2-Dichloropropane	2.781	77	93442	38.52	ug/L		95
34) Bromochloromethane	2.820	128	31813	37.70	ug/L	#	58
35) Cyclohexane	2.858	56	106842	38.38	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	110702	39.89	ug/L		94
37) Ethyl acetate	2.912	43	409591	205.02	ug/L		90
38) Tetrahydrofuran	2.943	42	26840	37.70	ug/L	#	80
40) Carbon Tetrachloride	2.958	117	90786m	39.17	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	96338	36.21	ug/L		95
42) 2-Butanone	3.004	43	190060	191.03	ug/L		83
43) 1,1-Dichloropropene	3.050	75	82578	39.40	ug/L	#	76
44) tert-Butyl formate	3.097	59	285364	228.95	ug/L		96
45) Propionitrile	3.143	54	109627	384.98	ug/L		98
46) Methacrylonitrile	3.166	41	467531	417.29	ug/L		94
47) Benzene	3.181	78	229366	37.29	ug/L		86
48) TAME	3.251	73	150312	37.67	ug/L		85
50) 1,2-Dichloroethane	3.274	62	87891	39.10	ug/L		96
51) Isobutyl Alcohol	3.251	43	120731	787.05	ug/L		82
52) Tert Amyl Alcohol	3.320	59	78359	402.68	ug/L		90
53) Trichloroethene	3.512	95	66486	37.91	ug/L		91
54) Methylcyclohexane	3.528	83	107609	39.63	ug/L		83
55) Dibromomethane	3.735	93	41520	39.05	ug/L		87
56) 1,2-Dichloropropane	3.789	63	63204	39.78	ug/L		88
57) Bromodichloromethane	3.828	83	81454	36.64	ug/L	#	96
58) Methyl methacrylate	3.920	41	62700	41.90	ug/L	#	70
59) 1,4-Dioxane	3.936	88	12897	840.93	ug/L		82
60) 2-Chloroethyl vinyl ether	4.166	63	221913	204.69	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	96216	39.90	ug/L		77
64) Toluene	4.367	91	249384	37.40	ug/L		99
65) 2-Nitropropane	4.467	41	126153	215.03	ug/L		92
66) 4-Methyl-2-pentanone	4.582	43	407752	204.94	ug/L		87
67) trans-1,3-Dichloropropene	4.613	75	85348	38.72	ug/L		82
68) Tetrachloroethene	4.628	166	66443	38.55	ug/L		95
69) Ethyl methacrylate	4.728	69	79955	40.49	ug/L	#	70
70) 1,1,2-Trichloroethane	4.713	83	46814	37.38	ug/L		88
71) Dibromochloromethane	4.836	129	64640	41.57	ug/L		99
72) 1,3-Dichloropropane	4.890	76	93971	43.14	ug/L		74
73) 1,2-Dibromoethane	4.990	107	61139	41.10	ug/L		92
74) 3,3-Dimethyl-1-Butanol	5.121	57	482452	1967.66	ug/L		94
75) 2-hexanone	5.136	43	399479	207.00	ug/L		74
76) 1-Chlorohexane	5.359	91	90767m	35.93	ug/L		
77) Ethylbenzene	5.390	91	288043m	37.29	ug/L		
78) Chlorobenzene	5.359	112	160292	37.16	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	57517	39.09	ug/L		99
80) m,p-Xylene	5.498	91	466621	73.87	ug/L		93
81) o-Xylene	5.798	91	241516	36.51	ug/L		91
82) Styrene	5.829	104	183306	38.43	ug/L		89
83) Bromoform	5.837	173	44238	40.12	ug/L		97
84) Isopropylbenzene	6.037	105	286765	36.81	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.260	53	23287	41.60	ug/L	#	78
88) n-Propylbenzene	6.344	91	357241	36.29	ug/L		88
89) Bromobenzene	6.306	156	73036	39.12	ug/L		84
90) 1,1,2,2-Tetrachloroethane	6.368	83	81234	36.96	ug/L		97
91) 1,3,5-Trimethylbenzene	6.498	105	245825	36.77	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

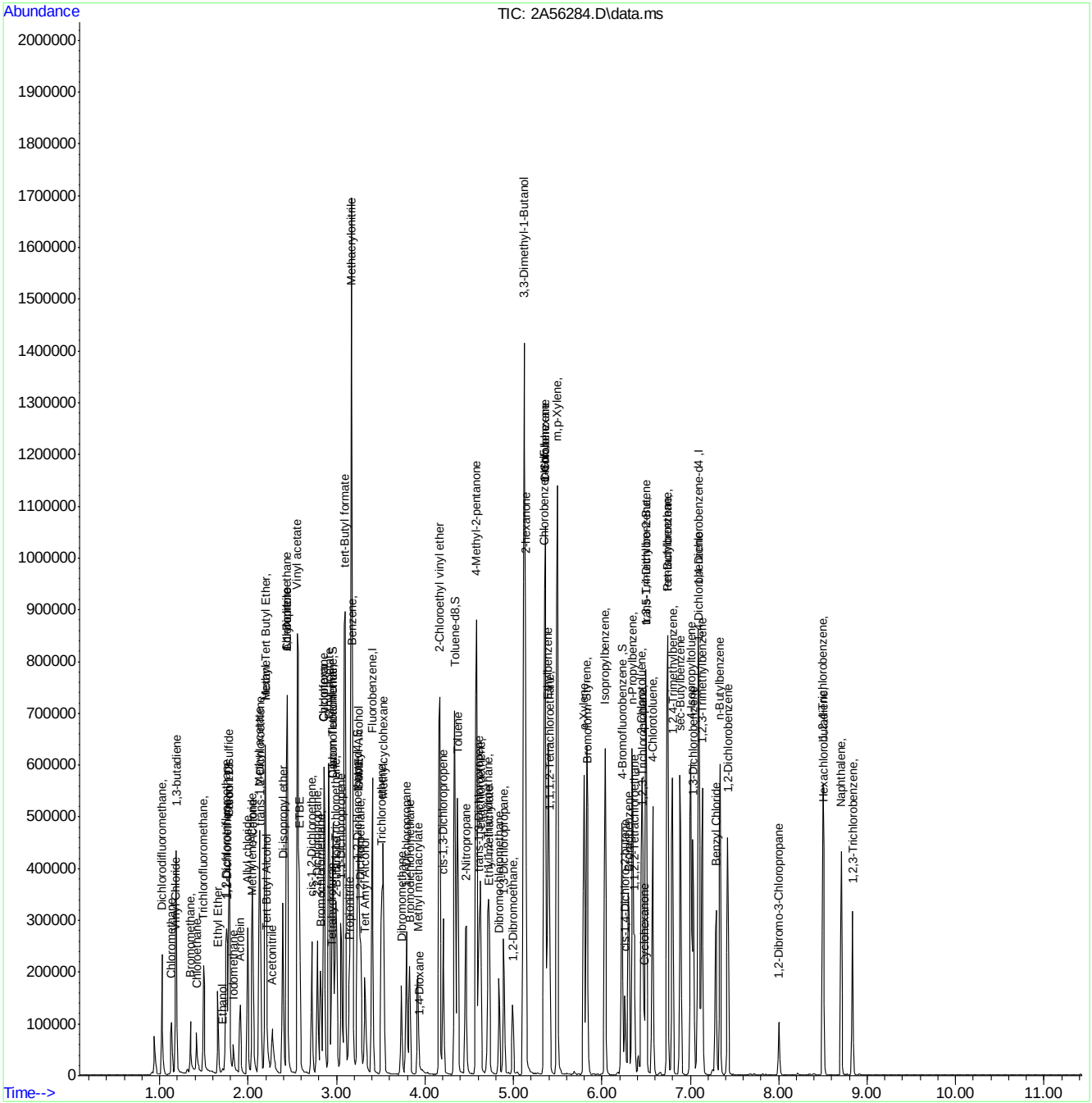
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	199603	36.74	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.498	53	30477	43.05	ug/L	#	64
94)	1,2,3-Trichloropropane	6.460	110	24210	42.05	ug/L	#	66
95)	Cyclohexanone	6.475	55	18581	282.05	ug/L	#	76
96)	4-Chlorotoluene	6.575	91	211151	36.29	ug/L		89
97)	tert-Butylbenzene	6.745	91	145129	36.09	ug/L		87
98)	1,2,4-Trimethylbenzene	6.799	105	234635	37.52	ug/L		97
99)	Pentachloroethane	6.745	167	41656	41.35	ug/L	#	76
100)	sec-Butylbenzene	6.883	105	296237	34.98	ug/L		92
101)	4-Isopropyltoluene	7.006	119	259019	36.02	ug/L		95
102)	1,3-Dichlorobenzene	7.029	146	133733	36.83	ug/L		90
103)	1,2,3-Trimethylbenzene	7.137	105	232462	37.50	ug/L		97
104)	1,4-Dichlorobenzene	7.099	146	136003	37.44	ug/L		89
105)	n-Butylbenzene	7.337	92	126717	38.53	ug/L		94
106)	Benzyl Chloride	7.291	126	34748	43.06	ug/L	#	78
107)	1,2-Dichlorobenzene	7.422	146	124559	38.24	ug/L		92
108)	1,2-Dibromo-3-Chloropr...	7.999	75	17656	39.62	ug/L	#	42
109)	Hexachlorobutadiene	8.507	225	34262	37.13	ug/L		91
110)	1,2,4-Trichlorobenzene	8.499	180	73523	37.10	ug/L		97
111)	Naphthalene	8.707	128	200756	37.08	ug/L		99
112)	1,2,3-Trichlorobenzene	8.838	180	65952	37.23	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

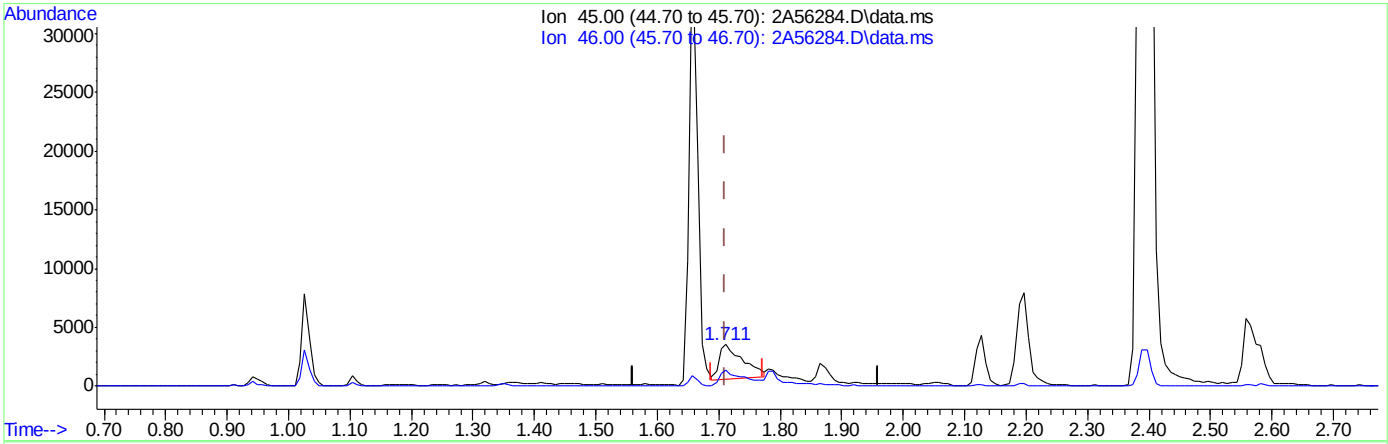
Sample Number: V2A1910-ICV1910 **Method:** SW846 8260D
Lab FileID: 2A56284.D **Analyst approved:** 06/25/24 13:54 Jenifer Willis
Injection Time: 06/25/24 13:01 **Supervisor approved:** 06/26/24 07:53 Karen Watson

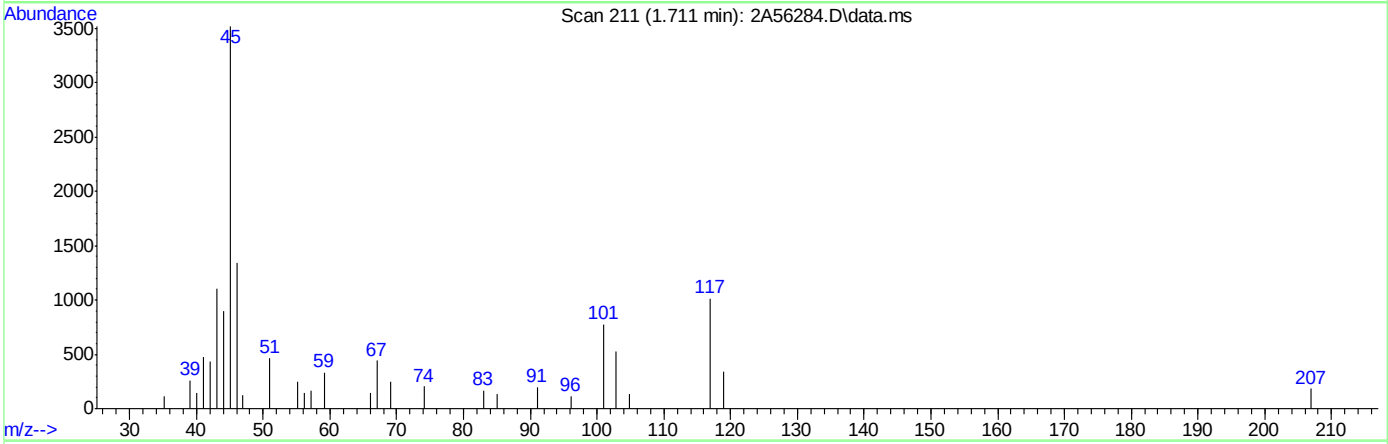
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		1.71	Poorly defined baseline
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Poorly defined baseline
Ethylbenzene	100-41-4		5.39	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 423.09ug/L

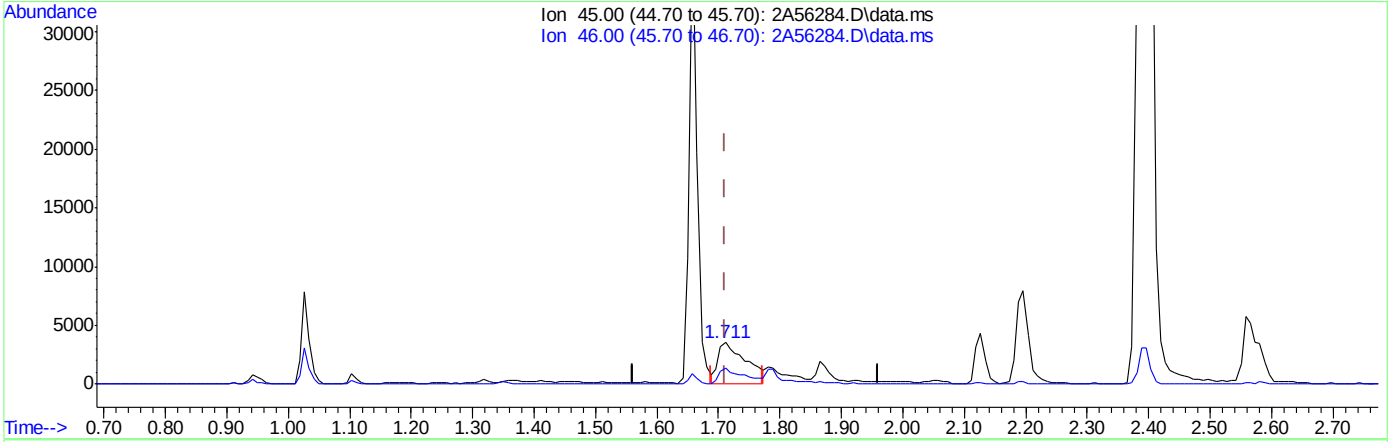
response 8034

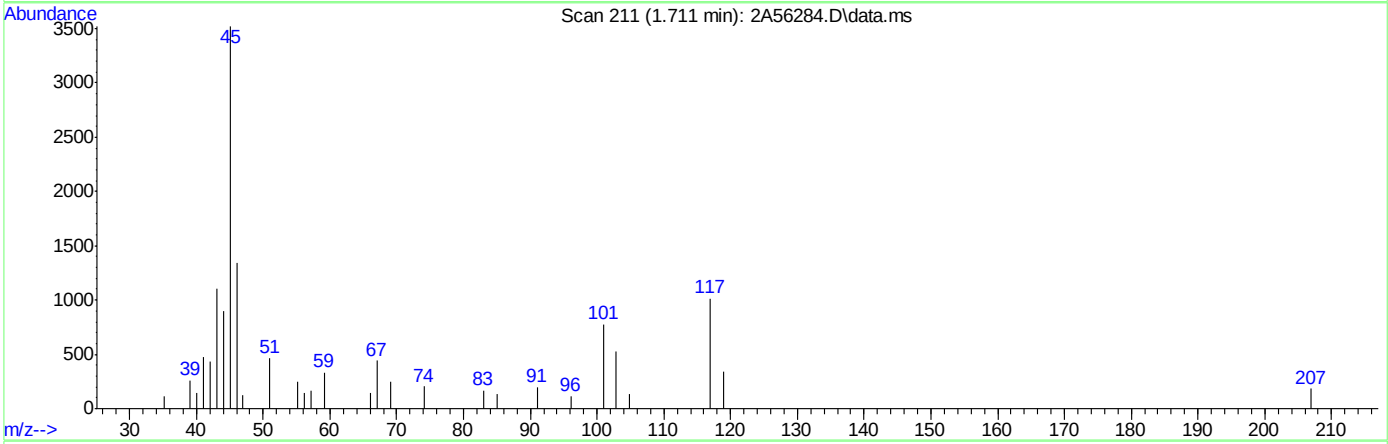
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	48.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 590.81ug/L m

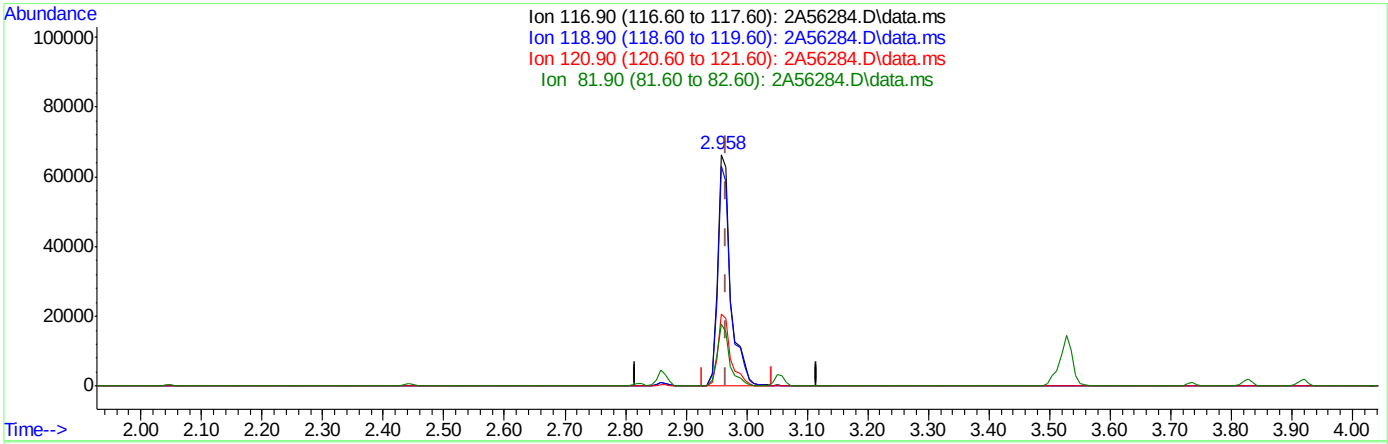
response 11219

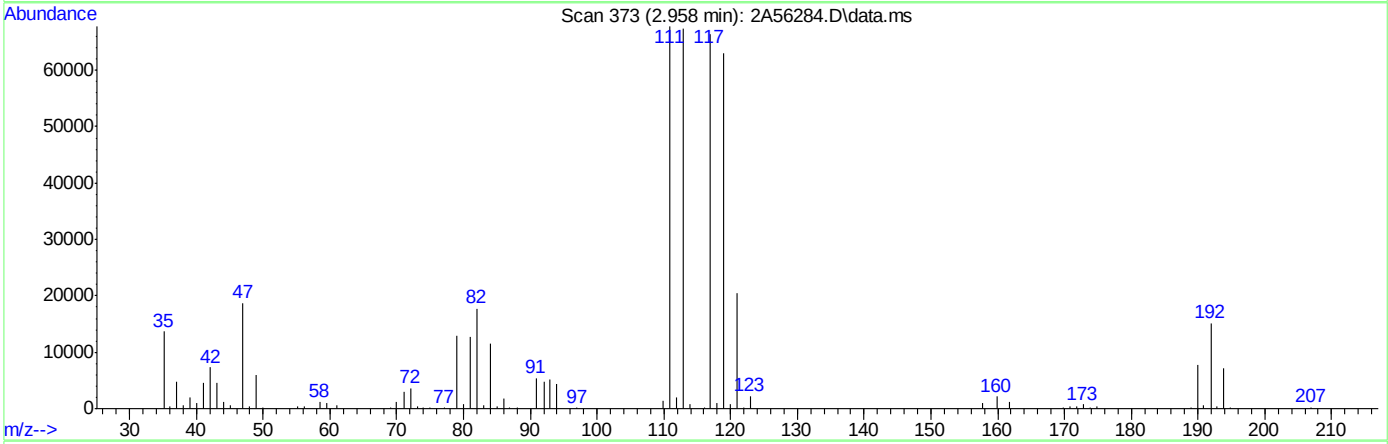
Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 43.20ug/L

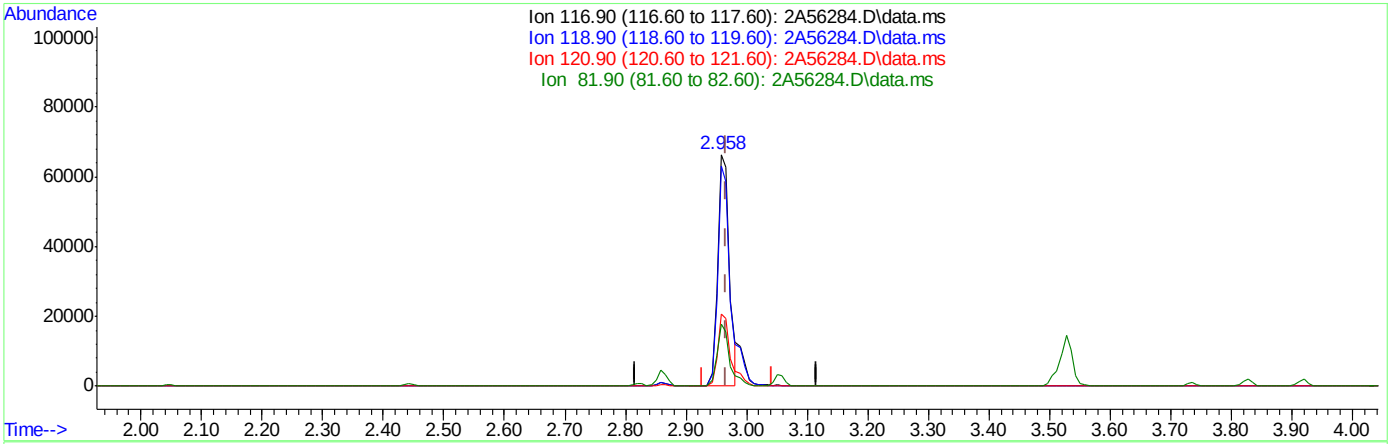
response 100146

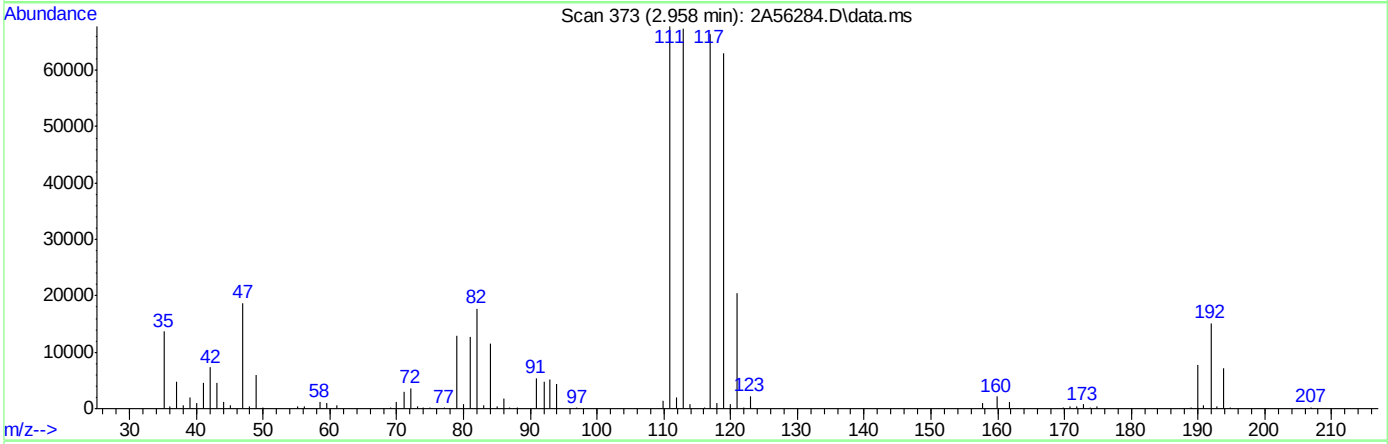
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.92
120.90	31.00	30.99
81.90	19.00	26.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 39.17ug/L m

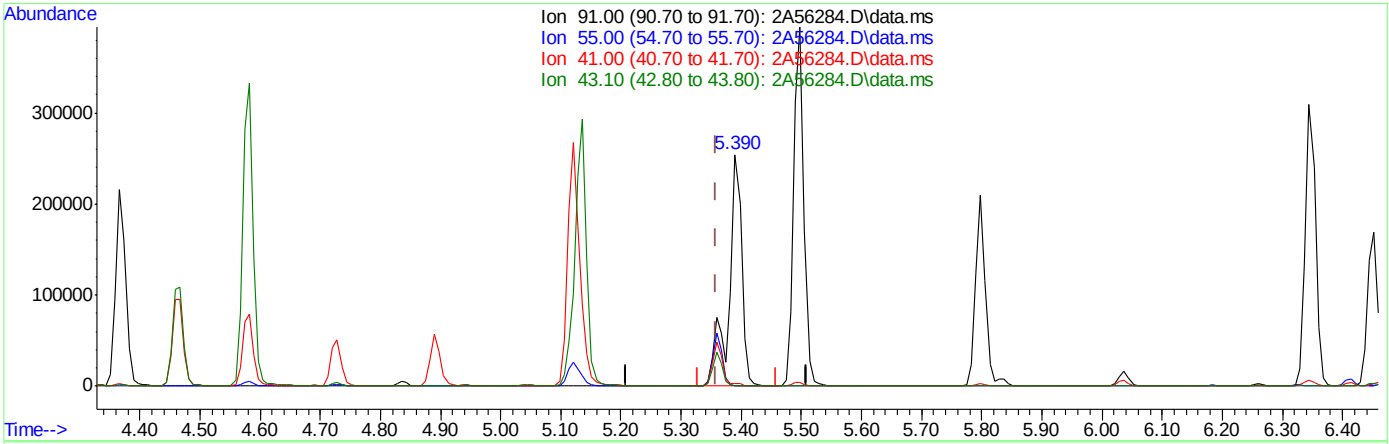
response 90786

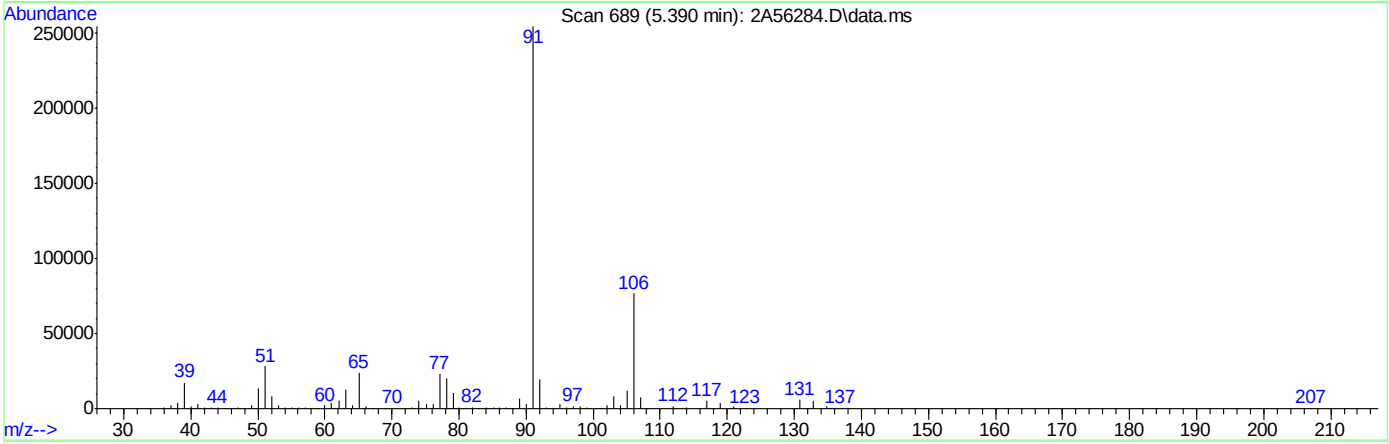
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	94.92
120.90	31.00	30.99
81.90	19.00	26.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 149.43ug/L

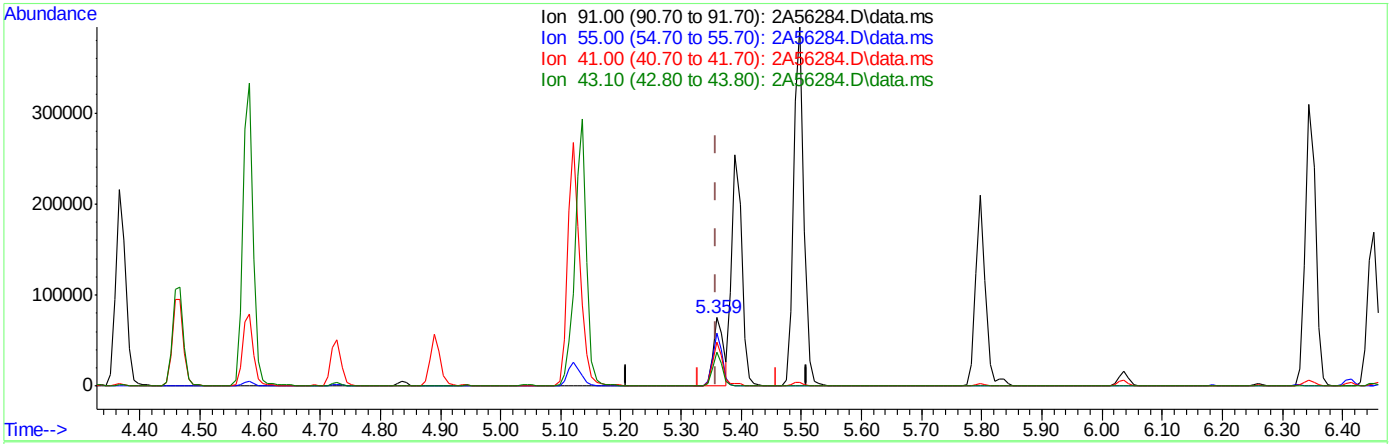
response 377447

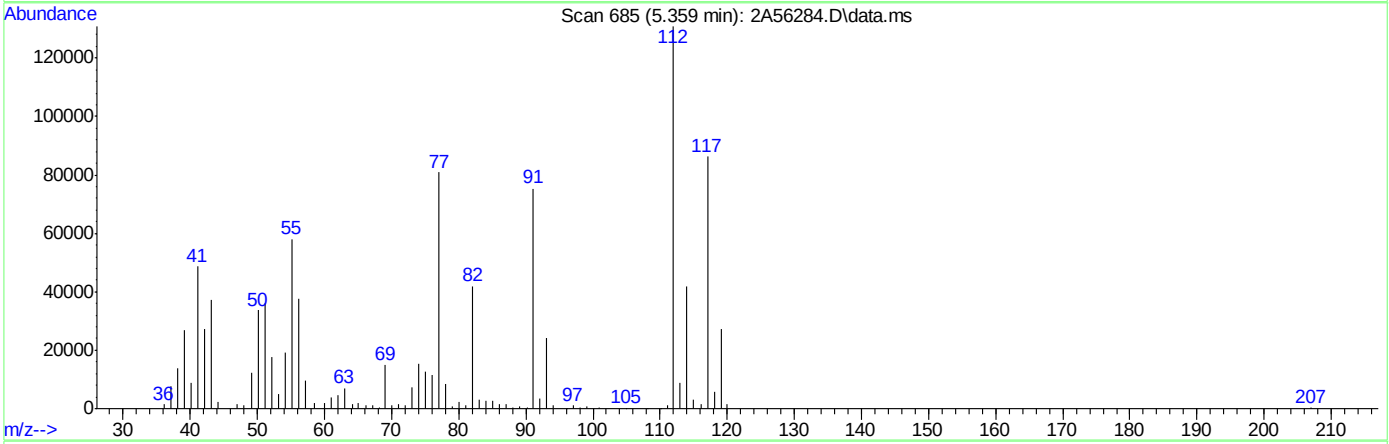
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.24#
41.00	39.20	1.04#
43.10	33.20	0.22#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 35.90ug/L m

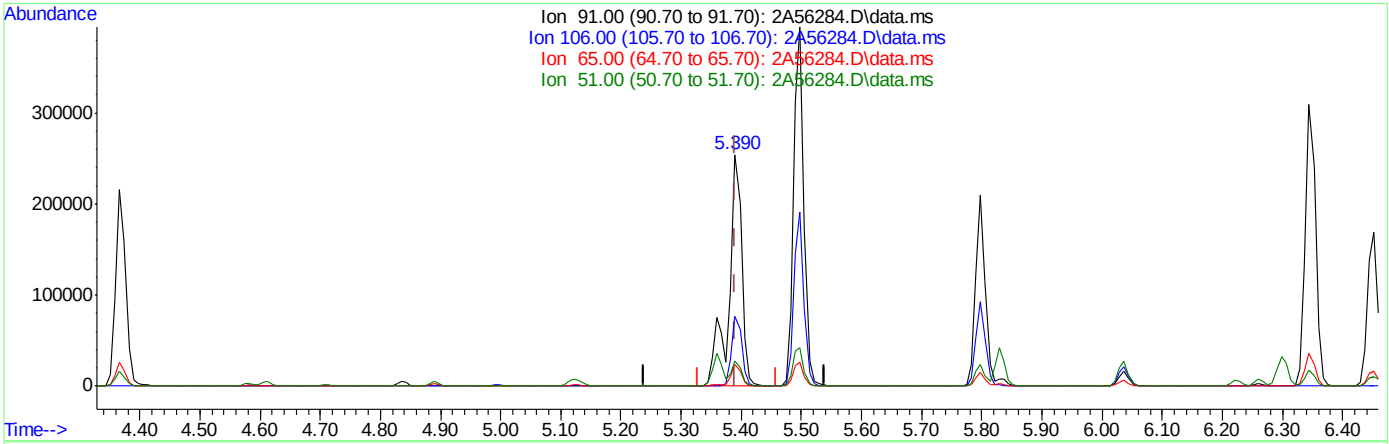
response 90686

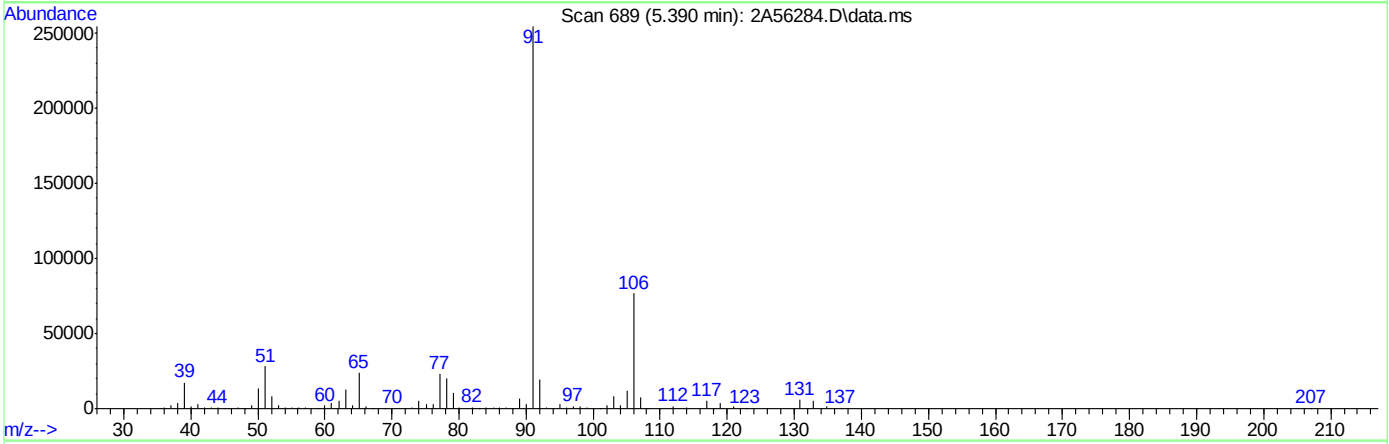
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.03
41.00	39.20	64.60#
43.10	33.20	49.59

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 48.86ug/L

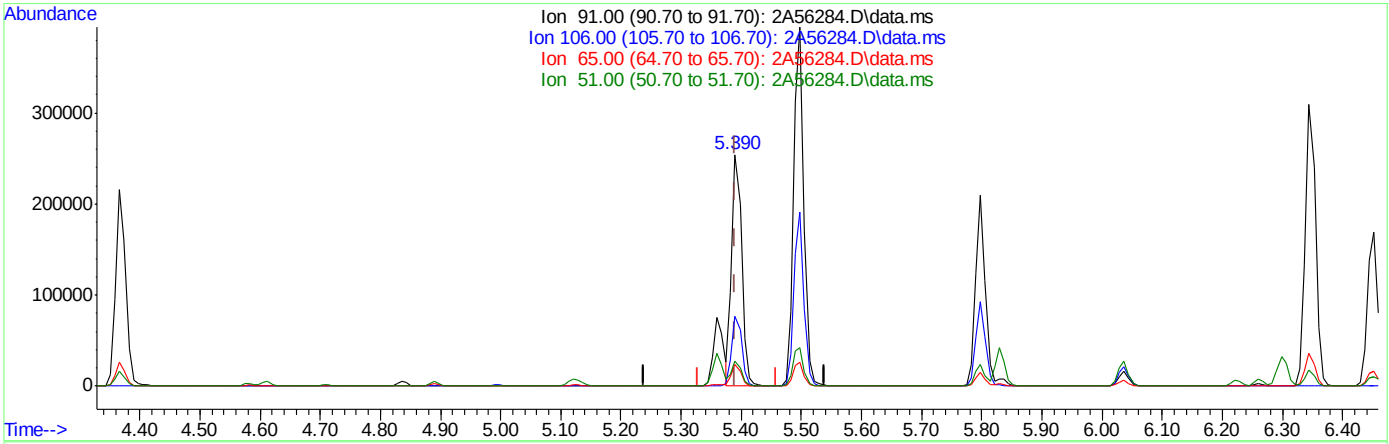
response 377447

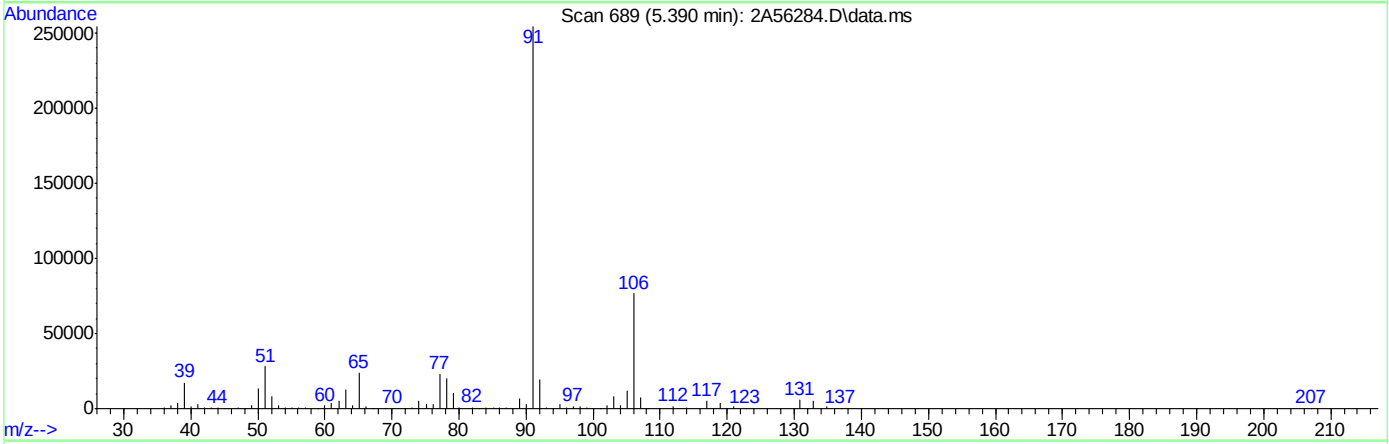
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.21
65.00	7.10	9.26
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:20:49 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 12:50:45 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(77) Ethylbenzene

5.390min (+0.000) 37.27ug/L m

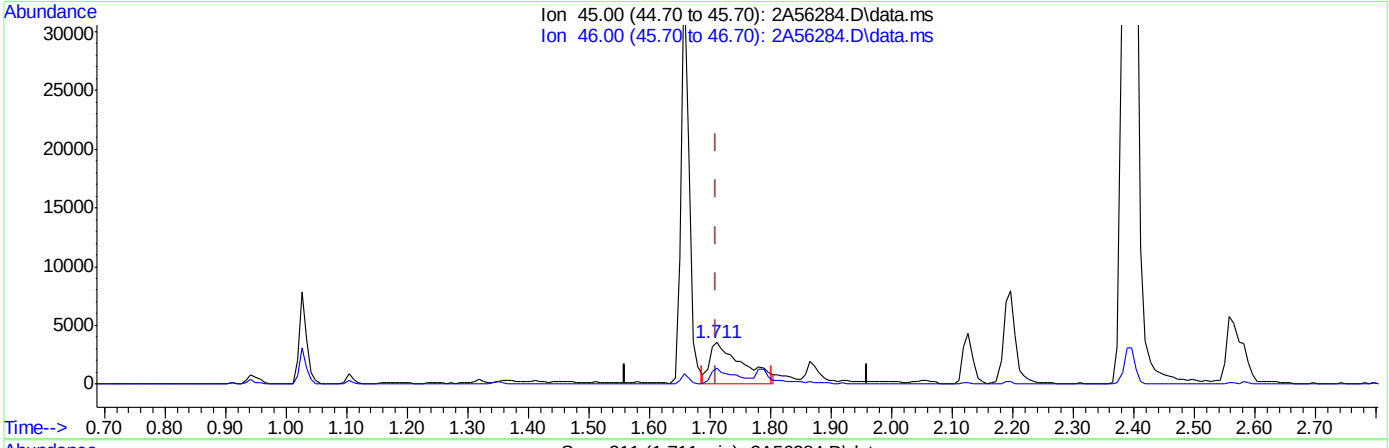
response 287896

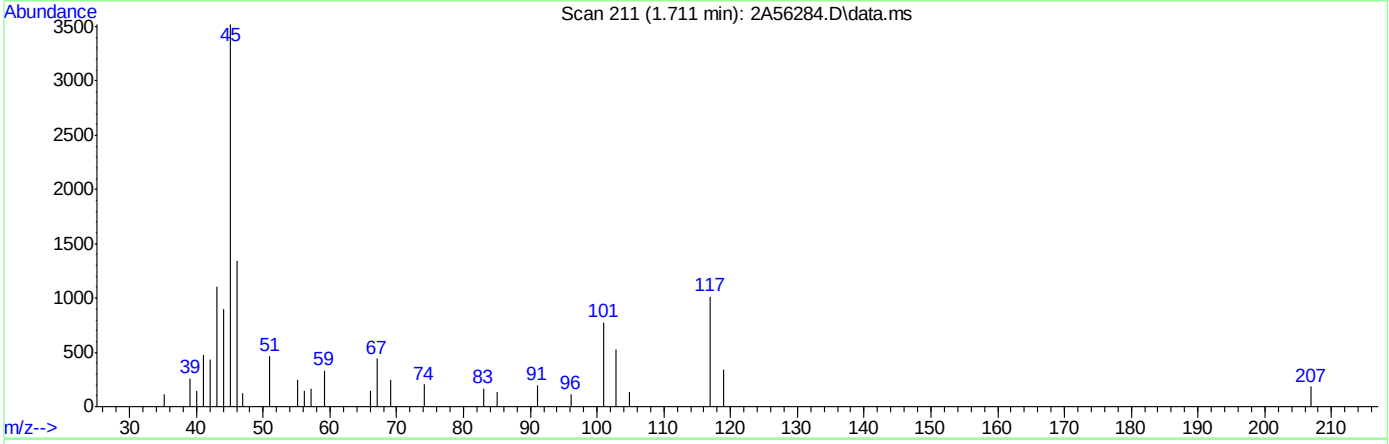
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	30.20
65.00	7.10	9.26
51.00	7.10	11.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-25-2024\
Data File : 2A56284.D
Acq On : 25 Jun 2024 1:01 pm
Operator : jeniferw
Sample : ICV1910-5
Misc : MS56892,V2A1910,,,,,
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Jun 25 13:23:23 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56284.D\data.ms

(10) Ethanol

1.711min (+0.000) 702.30ug/L m

response 13336

Ion	Exp%	Act%
45.00	100	100
46.00	46.00	38.06
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 08:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:32:29 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	3.405	96	267062	50.00	ug/L		0.00
62) Chlorobenzene-d5	5.352	117	191370	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	112752	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	2.958	113	73897	47.93	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.86%				
49) 1,2-Dichloroethane-d4	3.235	65	91902	49.72	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.44%				
63) Toluene-d8	4.336	98	263715	50.83	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.66%				
86) 4-Bromofluorobenzene	6.229	174	86844	48.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.026	85	31599	23.94	ug/L		98
3) Chloromethane	1.134	50	35263	23.21	ug/L		100
4) 1,3-butadiene	1.188	39	46898	25.86	ug/L	#	74
5) Vinyl Chloride	1.180	62	36159	23.54	ug/L		98
6) Bromomethane	1.350	94	16459	24.65	ug/L		97
7) Chloroethane	1.419	64	21045	25.49	ug/L		92
8) Trichlorofluoromethane	1.504	101	53592	26.25	ug/L		99
9) Ethyl Ether	1.658	59	25988	23.91	ug/L		87
10) Ethanol	1.711	45	8523	511.20	ug/L		99
11) 1,2-Dichlorotrifluoroe...	1.750	67	40082	38.19	ug/L		91
12) 1,1-Dichloroethene	1.765	61	50373	24.26	ug/L		87
13) Freon 113	1.788	101	32046	26.07	ug/L	#	86
14) Carbon Disulfide	1.788	76	97766	26.20	ug/L		84
15) Iodomethane	1.835	142	26171	26.91	ug/L		86
16) Acrolein	1.912	56	32974	129.20	ug/L		99
17) Allyl chloride	1.996	41	49299	24.29	ug/L		79
18) Methylene Chloride	2.050	49	46093	24.28	ug/L	#	75
19) Acetone	2.050	43	67604	125.97	ug/L		80
20) Methyl acetate	2.127	43	164253	123.66	ug/L		87
21) trans-1,2-Dichloroethene	2.142	61	48423	23.48	ug/L		82
22) Hexane	2.196	56	32013	26.06	ug/L	#	79
23) Methyl Tert Butyl Ether	2.196	73	92962	24.84	ug/L		80
24) Acetonitrile	2.273	41	45951	255.20	ug/L		96
25) Tert Butyl Alcohol	2.212	59	55444	259.12	ug/L	#	48
26) Di-isopropyl ether	2.396	45	102785	24.29	ug/L		87
27) Chloroprene	2.443	53	138499	24.98	ug/L		90
28) 1,1-Dichloroethane	2.443	63	62410	23.70	ug/L		95
29) Acrylonitrile	2.443	52	85331	127.58	ug/L		96
30) ETBE	2.581	59	101428	25.30	ug/L		90
31) Vinyl acetate	2.566	43	442011	138.10	ug/L		97
32) cis-1,2-Dichloroethene	2.720	96	35317	24.03	ug/L	#	72
33) 2,2-Dichloropropane	2.789	77	49934	23.45	ug/L		96
34) Bromochloromethane	2.827	128	17544	23.68	ug/L	#	73
35) Cyclohexane	2.858	56	61399	25.12	ug/L	#	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:32:29 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Chloroform	2.858	83	60662	24.89	ug/L		94
37) Ethyl acetate	2.912	43	233930	133.36	ug/L		90
38) Tetrahydrofuran	2.951	42	14493	23.18	ug/L		86
40) Carbon Tetrachloride	2.966	117	48093m	23.63	ug/L		
41) 1,1,1-Trichloroethane	2.989	97	55057	23.57	ug/L		91
42) 2-Butanone	3.004	43	113430	129.85	ug/L		83
43) 1,1-Dichloropropene	3.058	75	45683	24.82	ug/L		82
44) tert-Butyl formate	3.097	59	152093	138.98	ug/L		95
45) Propionitrile	3.143	54	63976	255.88	ug/L		99
46) Methacrylonitrile	3.166	41	259935	264.24	ug/L		93
47) Benzene	3.181	78	128780	23.85	ug/L		85
48) TAME	3.251	73	89788	25.63	ug/L		88
50) 1,2-Dichloroethane	3.274	62	48048	24.35	ug/L		96
51) Isobutyl Alcohol	3.258	43	74266	551.41	ug/L		94
52) Tert Amyl Alcohol	3.320	59	47683	279.09	ug/L		90
53) Trichloroethene	3.512	95	37505	24.35	ug/L		91
54) Methylcyclohexane	3.528	83	59231	24.84	ug/L		81
55) Dibromomethane	3.736	93	22710	24.33	ug/L		83
56) 1,2-Dichloropropane	3.789	63	33347	23.90	ug/L		89
57) Bromodichloromethane	3.828	83	44696	22.90	ug/L	#	95
58) Methyl methacrylate	3.920	41	34444	26.22	ug/L	#	67
59) 1,4-Dioxane	3.936	88	7512	557.86	ug/L		87
60) 2-Chloroethyl vinyl ether	4.167	63	124416	130.70	ug/L		83
61) cis-1,3-Dichloropropene	4.205	75	51306	24.23	ug/L		77
64) Toluene	4.367	91	139865	24.36	ug/L		100
65) 2-Nitropropane	4.467	41	65650	129.95	ug/L		91
66) 4-Methyl-2-pentanone	4.582	43	223535	130.47	ug/L		85
67) trans-1,3-Dichloropropene	4.613	75	47995	25.29	ug/L		79
68) Tetrachloroethene	4.628	166	38316	25.81	ug/L		94
69) Ethyl methacrylate	4.728	69	43794	25.75	ug/L	#	69
70) 1,1,2-Trichloroethane	4.713	83	26075	24.17	ug/L		86
71) Dibromochloromethane	4.836	129	33738	25.20	ug/L		99
72) 1,3-Dichloropropane	4.890	76	49172	26.21	ug/L		75
73) 1,2-Dibromoethane	4.990	107	33014	25.77	ug/L		95
74) 3,3-Dimethyl-1-Butanol	5.121	57	276554	1309.80	ug/L		94
75) 2-hexanone	5.136	43	216415	130.22	ug/L		76
76) 1-Chlorohexane	5.359	91	49142m	22.59	ug/L		
77) Ethylbenzene	5.398	91	161056m	24.21	ug/L		
78) Chlorobenzene	5.367	112	90363	24.33	ug/L		90
79) 1,1,1,2-Tetrachloroethane	5.406	131	31269	24.68	ug/L		96
80) m,p-Xylene	5.498	91	257118	47.27	ug/L		92
81) o-Xylene	5.798	91	134137	23.55	ug/L		92
82) Styrene	5.829	104	96371	23.46	ug/L		87
83) Bromoform	5.837	173	23221	24.45	ug/L		97
84) Isopropylbenzene	6.037	105	156612	23.34	ug/L		96
87) cis-1,4-Dichloro-2-butene	6.268	53	10641	22.50	ug/L	#	75
88) n-Propylbenzene	6.352	91	194392	23.38	ug/L		91
89) Bromobenzene	6.306	156	37763	23.95	ug/L	#	76
90) 1,1,2,2-Tetrachloroethane	6.368	83	45215	24.35	ug/L		99
91) 1,3,5-Trimethylbenzene	6.506	105	131070	23.21	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:32:29 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

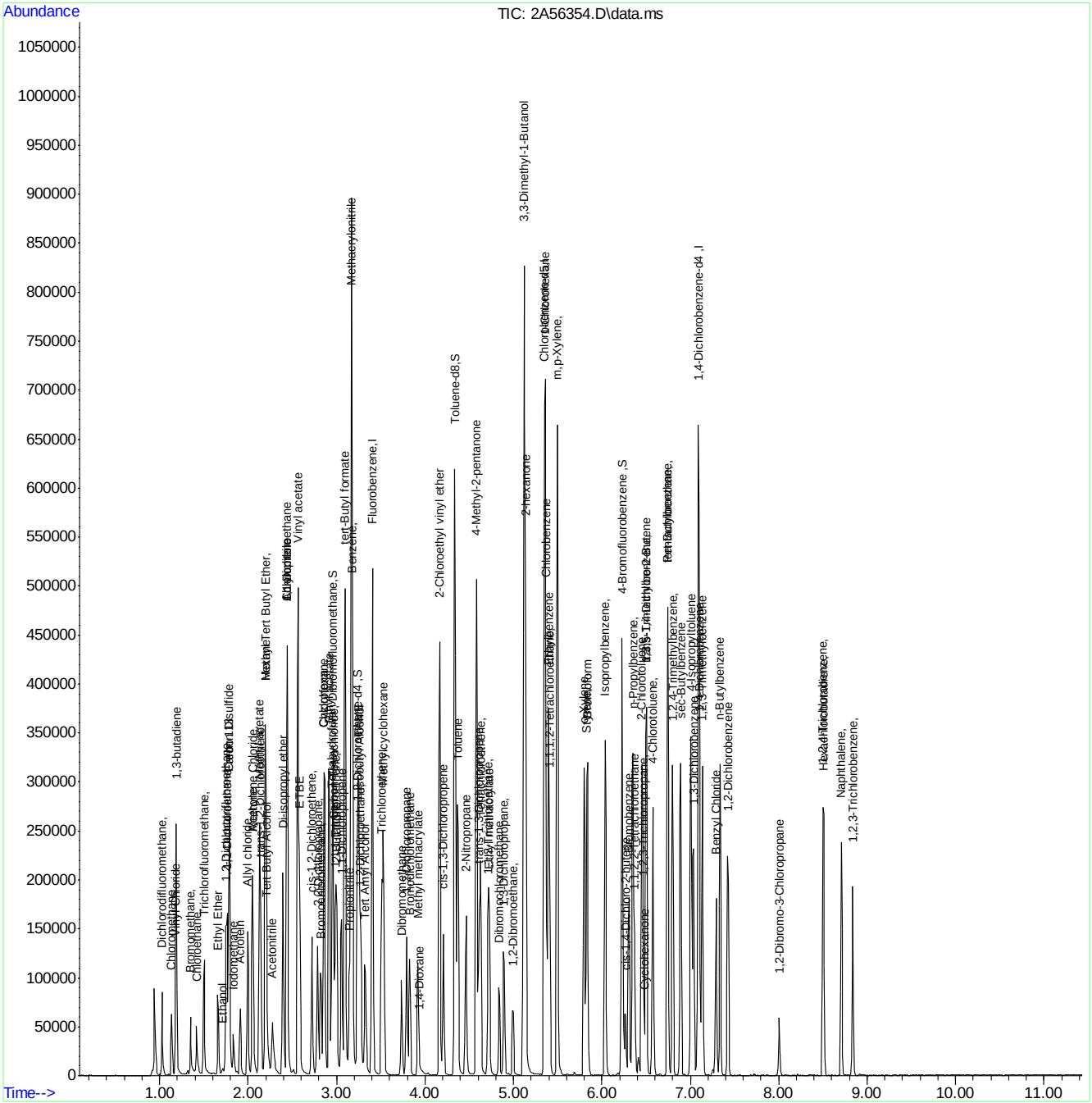
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	2-Chlorotoluene	6.452	91	107721	23.47	ug/L		94
93)	trans-1,4-Dichloro-2-B...	6.506	53	14947	25.00	ug/L	#	67
94)	1,2,3-Trichloropropane	6.468	110	12543	25.79	ug/L	#	70
95)	Cyclohexanone	6.483	55	7875	141.53	ug/L	#	82
96)	4-Chlorotoluene	6.576	91	115361	23.48	ug/L		87
97)	tert-Butylbenzene	6.745	91	77693	22.87	ug/L		84
98)	1,2,4-Trimethylbenzene	6.799	105	124729	23.61	ug/L		97
99)	Pentachloroethane	6.745	167	21145	24.85	ug/L	#	73
100)	sec-Butylbenzene	6.891	105	164559	23.01	ug/L		94
101)	4-Isopropyltoluene	7.007	119	138245	22.76	ug/L		94
102)	1,3-Dichlorobenzene	7.037	146	72815	23.74	ug/L		94
103)	1,2,3-Trimethylbenzene	7.137	105	126236	24.11	ug/L		97
104)	1,4-Dichlorobenzene	7.107	146	73482	23.95	ug/L		93
105)	n-Butylbenzene	7.337	92	63474	22.85	ug/L		95
106)	Benzyl Chloride	7.291	126	17270	25.33	ug/L	#	63
107)	1,2-Dichlorobenzene	7.422	146	66902	24.32	ug/L		89
108)	1,2-Dibromo-3-Chloropr...	8.007	75	9160	24.34	ug/L	#	55
109)	Hexachlorobutadiene	8.507	225	17690	22.70	ug/L		86
110)	1,2,4-Trichlorobenzene	8.500	180	39202	23.42	ug/L		96
111)	Naphthalene	8.707	128	112500	24.60	ug/L		99
112)	1,2,3-Trichlorobenzene	8.838	180	34805	23.26	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:32:29 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



V2A1910_06252024.M Thu Jun 27 08:32:41 2024 Page: 4

Manual Integration Approval Summary

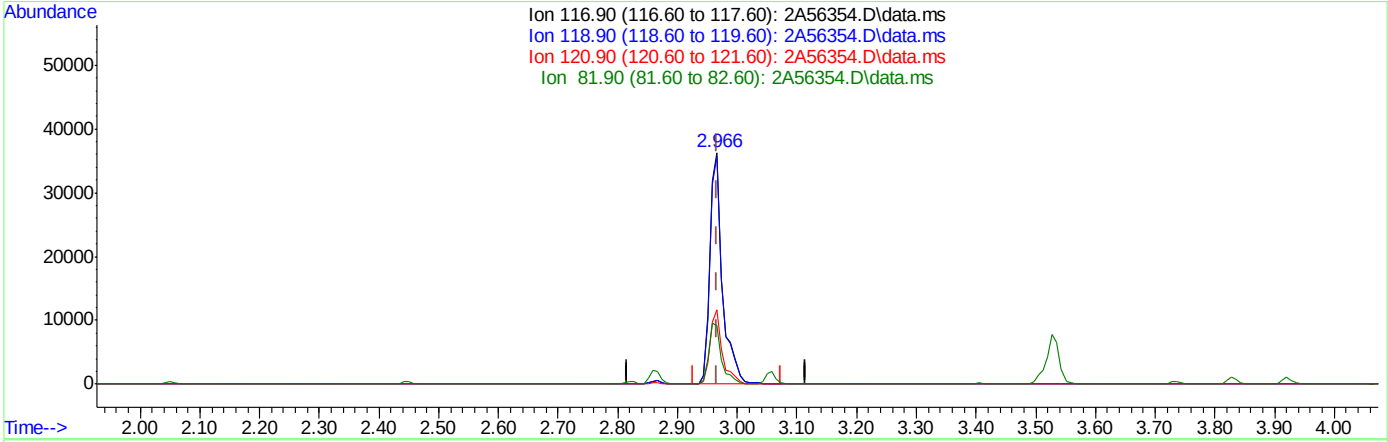
Sample Number: V2A1913-CC1910 **Method:** SW846 8260D
Lab FileID: 2A56354.D **Analyst approved:** 06/27/24 08:48 Jenifer Willis
Injection Time: 06/27/24 08:02 **Supervisor approved:** 06/28/24 08:56 Karen Watson

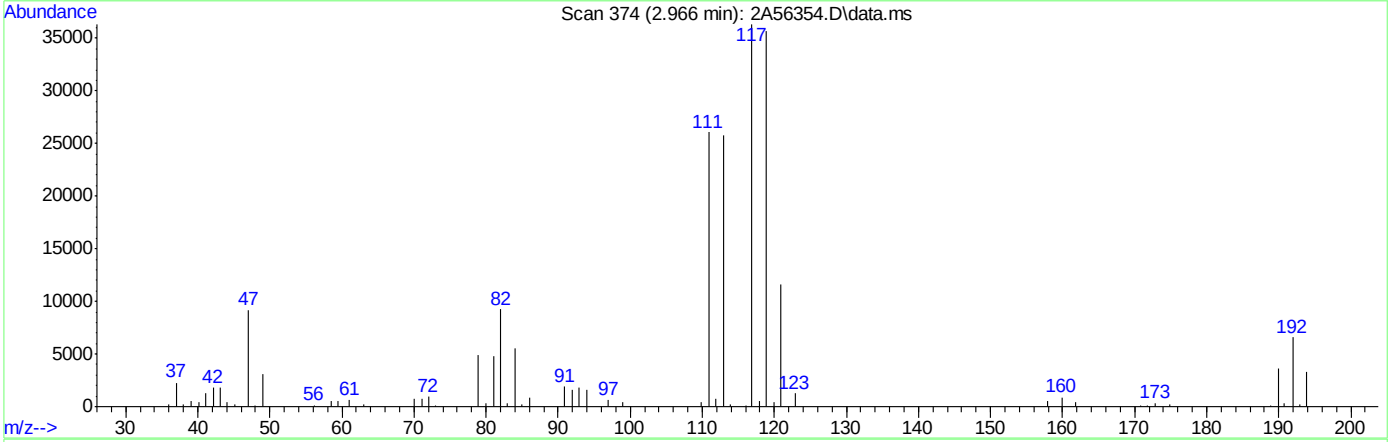
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.97	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.40	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 26.70ug/L

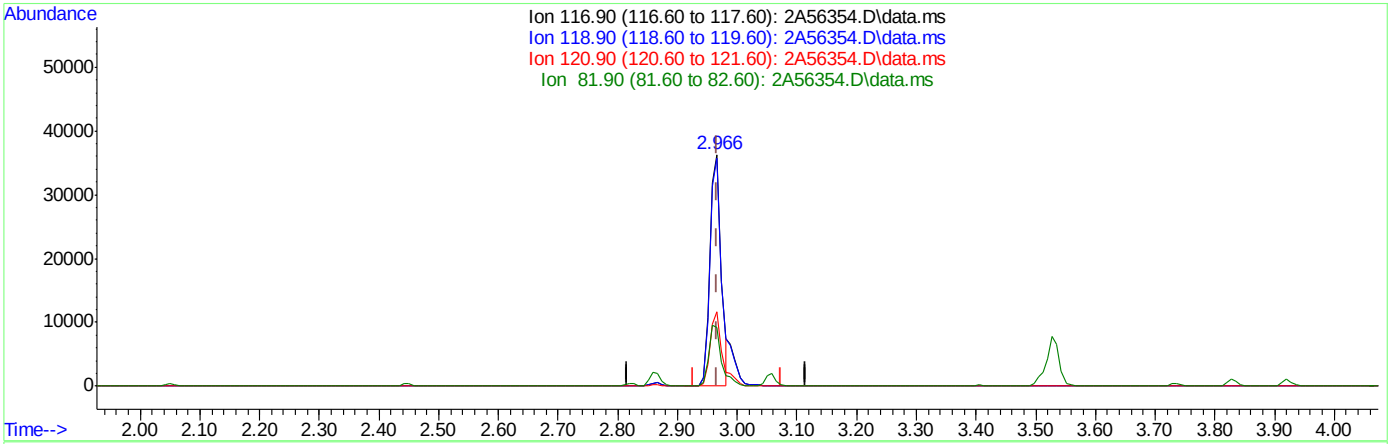
response 54334

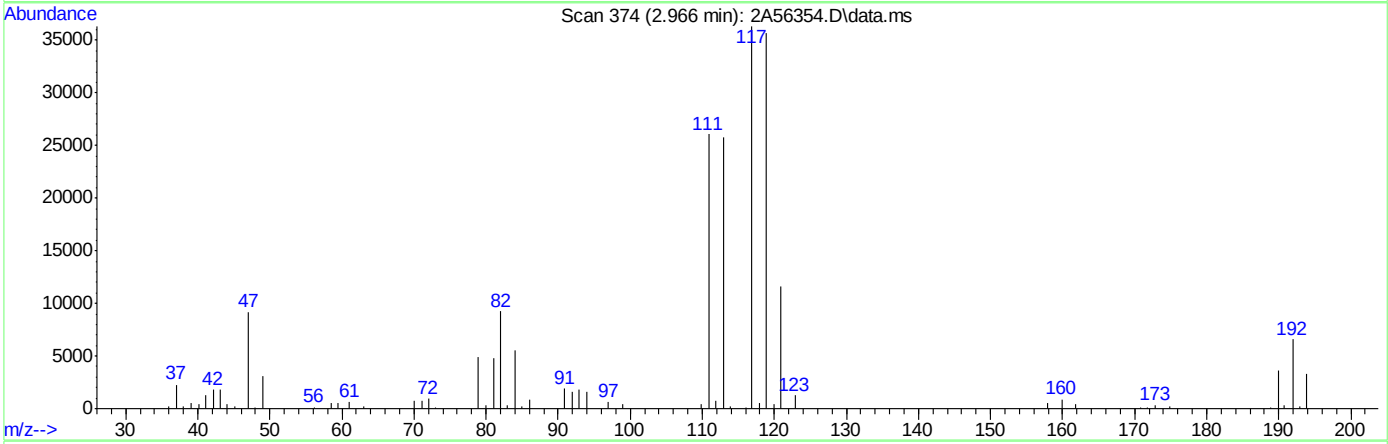
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	98.24
120.90	31.00	32.09
81.90	19.00	25.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(40) Carbon Tetrachloride ( )

2.966min (-0.000) 23.63ug/L m

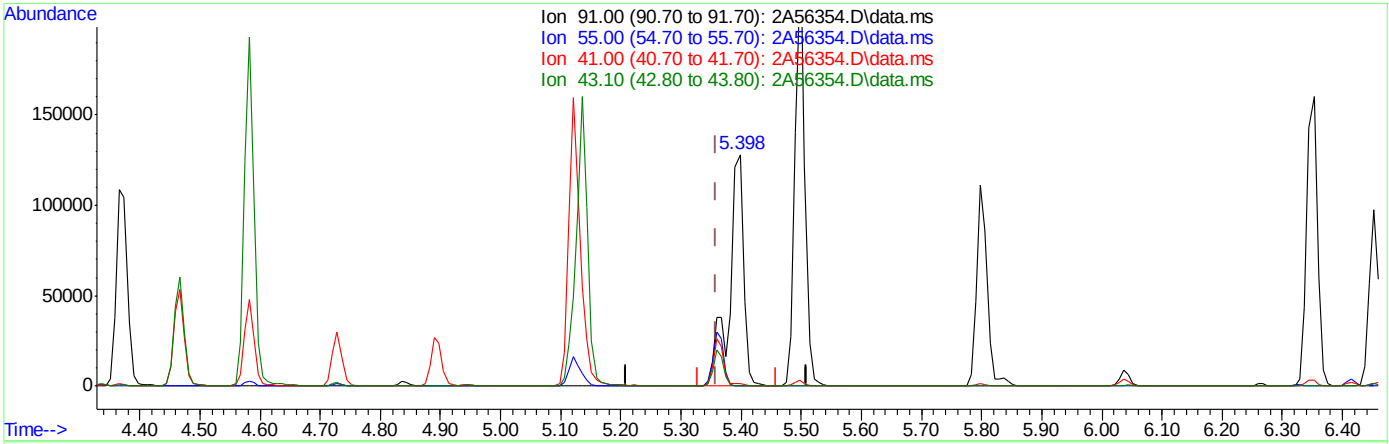
response 48093

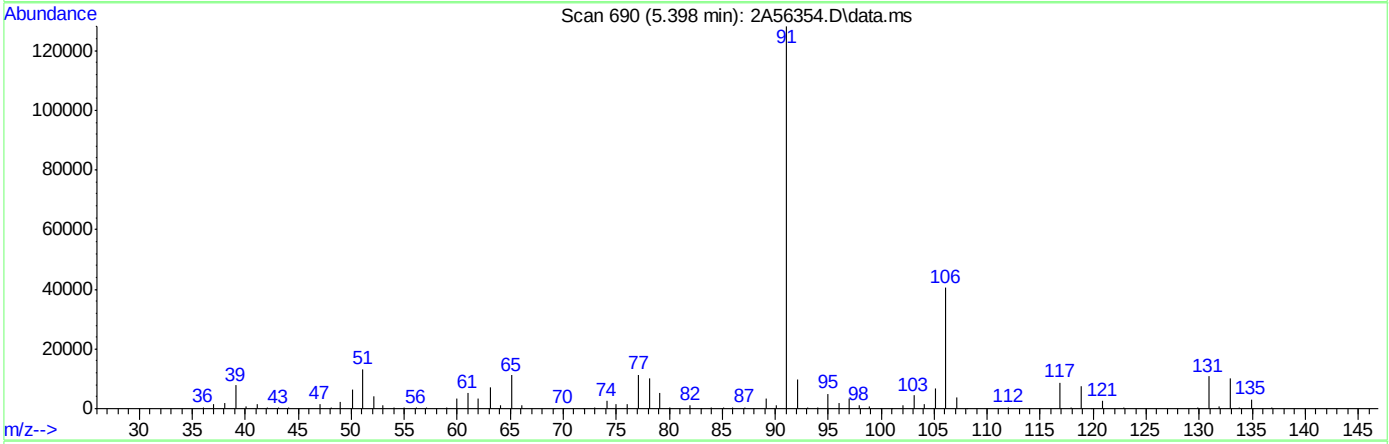
Ion	Exp%	Act%
116.90	100	100
118.90	96.30	98.24
120.90	31.00	32.09
81.90	19.00	25.48

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(76) 1-Chlorohexane

5.398min (+0.039) 96.43ug/L

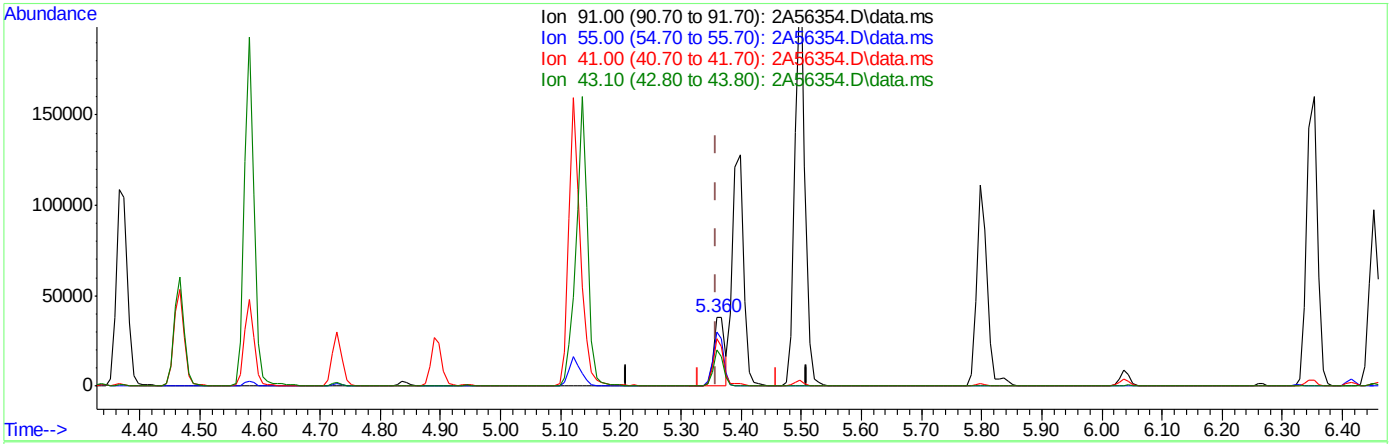
response 209749

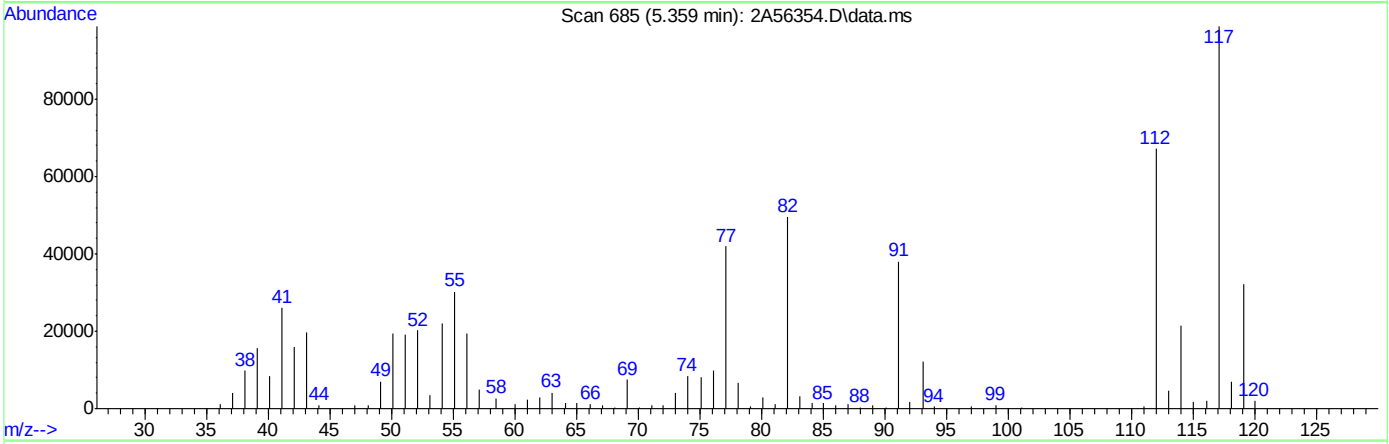
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.23#
41.00	39.20	1.09#
43.10	33.20	0.29#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(76) 1-Chlorohexane

5.359min (+0.000) 22.59ug/L m

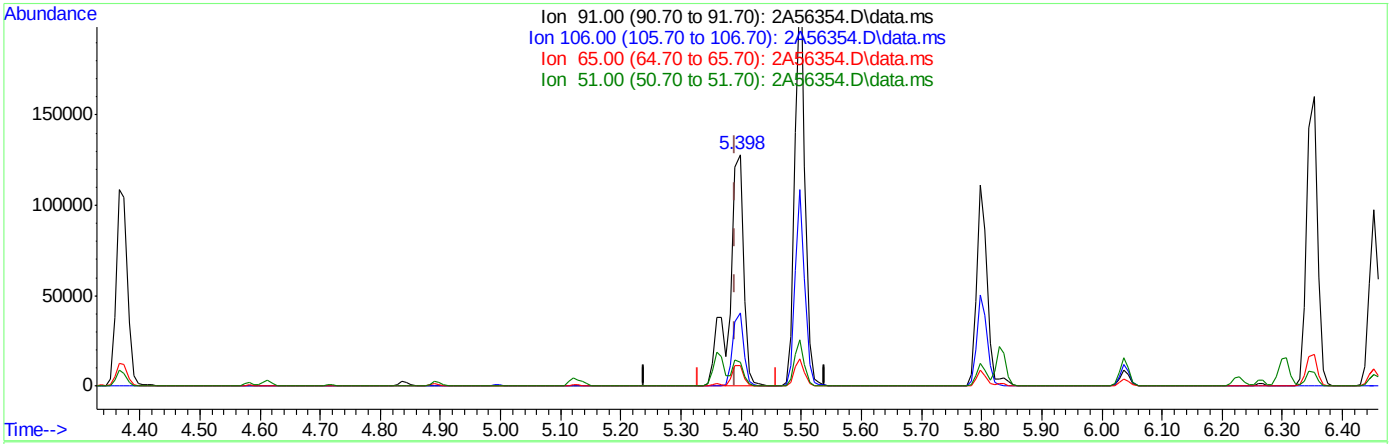
response 49142

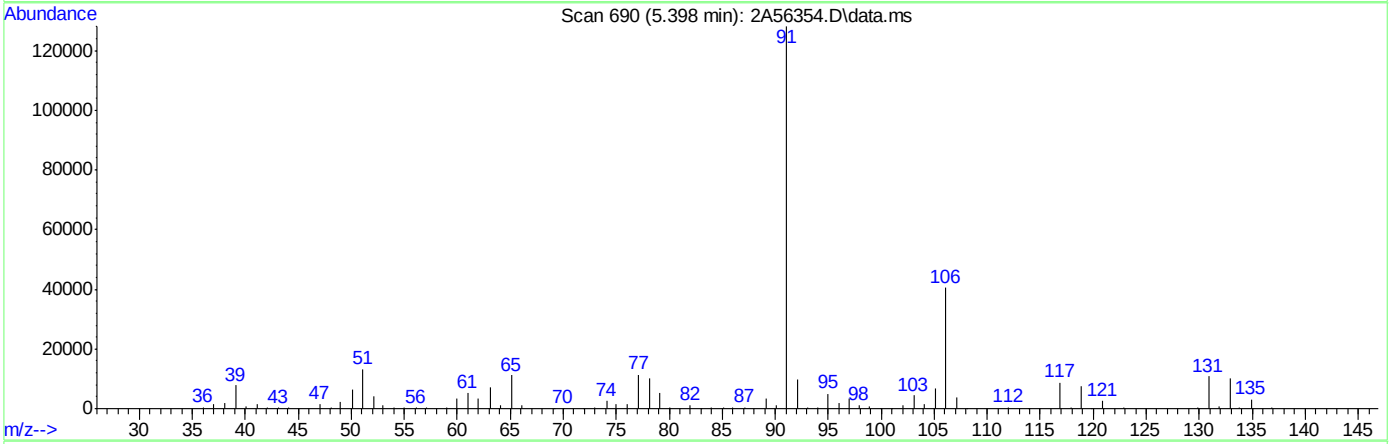
Ion	Exp%	Act%
91.00	100	100
55.00	58.90	79.30#
41.00	39.20	68.36#
43.10	33.20	52.05

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(77) Ethylbenzene

5.398min (+0.008) 31.53ug/L

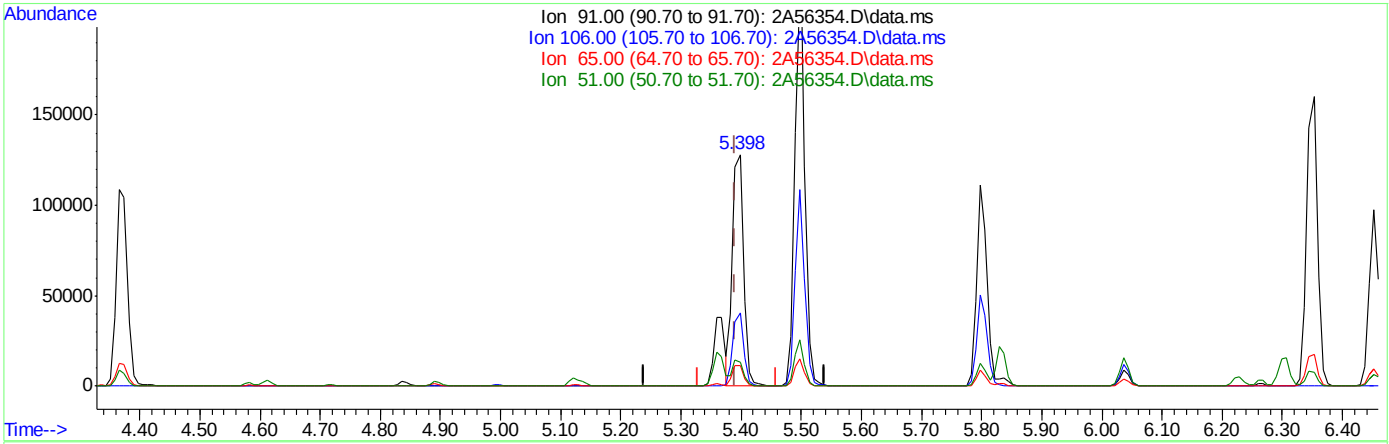
response 209749

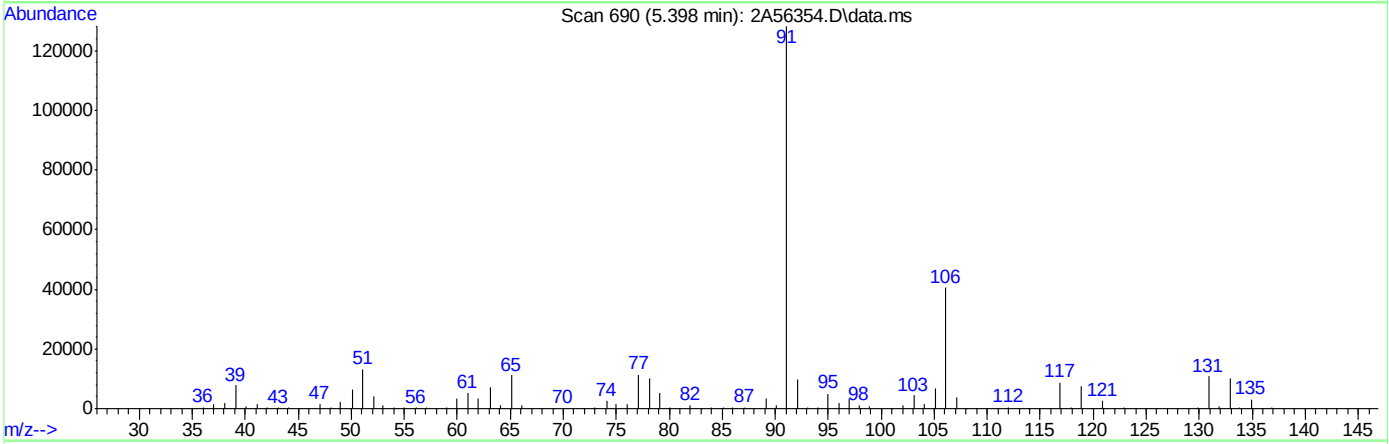
Ion	Exp%	Act%
91.00	100	100
106.00	34.30	31.63
65.00	7.10	8.69
51.00	7.10	10.36

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\06-27-2024\
Data File : 2A56354.D
Acq On : 27 Jun 2024 8:02 am
Operator : jeniferw
Sample : CC1910-4
Misc : MS56917,V2A1913,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 08:31:45 2024
Quant Method : C:\msdchem\1\METHODS\V2A1910_06252024.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration





TIC: 2A56354.D\data.ms

(77) Ethylbenzene

5.398min (+0.008) 24.21ug/L m

response 161056

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	31.63
65.00	7.10	8.69
51.00	7.10	10.36

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 06/28/24 08:56

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:33:58 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	3.405	96	258568	50.00	ug/L	0.00
62) Chlorobenzene-d5	5.352	117	184669	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	7.091	152	113951	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	2.951	113	72038	48.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.52%			
49) 1,2-Dichloroethane-d4	3.235	65	90450	50.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.10%			
63) Toluene-d8	4.336	98	255847	51.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.22%			
86) 4-Bromofluorobenzene	6.229	174	86318	47.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.027	85	27994	21.9057	ug/L	98
3) Chloromethane	1.127	50	32645	22.1893	ug/L	98
4) 1,3-butadiene	1.188	39	42051	23.8390	ug/L #	78
5) Vinyl Chloride	1.173	62	32176	21.6339	ug/L	99
6) Bromomethane	1.350	94	16156	24.9904	ug/L	96
7) Chloroethane	1.411	64	19744	24.6300	ug/L	95
8) Trichlorofluoromethane	1.496	101	48893	24.7386	ug/L	99
9) Ethyl Ether	1.658	59	26189	24.8825	ug/L	89
10) Ethanol	1.712	45	10293	637.6441	ug/L	92
11) 1,2-Dichlorotrifluoroe...	1.742	67	36814	36.2309	ug/L #	85
12) 1,1-Dichloroethene	1.758	61	46925	23.3464	ug/L	83
13) Freon 113	1.789	101	29554	24.8360	ug/L	91
14) Carbon Disulfide	1.781	76	87012	24.0809	ug/L	79
15) Iodomethane	1.835	142	27570	29.1155	ug/L	91
16) Acrolein	1.904	56	30255	122.4429	ug/L	96
17) Allyl chloride	1.996	41	45550	23.1818	ug/L	78
18) Methylene Chloride	2.043	49	46012	25.0294	ug/L #	67
19) Acetone	2.050	43	67376	129.6679	ug/L	80
20) Methyl acetate	2.127	43	160442	124.7611	ug/L	89
21) trans-1,2-Dichloroethene	2.135	61	43909	21.9953	ug/L	78
22) Hexane	2.196	56	30196	25.3839	ug/L #	79
23) Methyl Tert Butyl Ether	2.196	73	90362	24.9403	ug/L	72
24) Acetonitrile	2.273	41	45106	258.7320	ug/L	96
25) Tert Butyl Alcohol	2.212	59	57478	277.4466	ug/L	78
26) Di-isopropyl ether	2.389	45	101603	24.8014	ug/L	85
27) Chloroprene	2.435	53	132644	24.7103	ug/L	89
28) 1,1-Dichloroethane	2.443	63	59418	23.3015	ug/L	98
29) Acrylonitrile	2.435	52	80552	124.3874	ug/L	96
30) ETBE	2.581	59	99141	25.5443	ug/L	89
31) Vinyl acetate	2.558	43	407881	131.6246	ug/L	97
32) cis-1,2-Dichloroethene	2.720	96	33445	23.4937	ug/L #	78
33) 2,2-Dichloropropane	2.781	77	41919	20.3288	ug/L	96
34) Bromochloromethane	2.820	128	17193	23.9710	ug/L #	61
35) Cyclohexane	2.858	56	55977	23.6537	ug/L #	81
36) Chloroform	2.858	83	59004	25.0099	ug/L	94
37) Ethyl acetate	2.912	43	224604	132.2506	ug/L	90
38) Tetrahydrofuran	2.943	42	15920	26.3034	ug/L #	79
40) Carbon Tetrachloride	2.958	117	45000m	22.8369	ug/L	
41) 1,1,1-Trichloroethane	2.989	97	50360	22.2676	ug/L	94
42) 2-Butanone	2.997	43	114182	135.0026	ug/L	79
43) 1,1-Dichloropropene	3.051	75	41579	23.3355	ug/L	77

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:33:58 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) tert-Butyl formate	3.089	59	142297	134.3026	ug/L		95
45) Propionitrile	3.143	54	62527	258.3030	ug/L		98
46) Methacrylonitrile	3.166	41	251676	264.2496	ug/L		94
47) Benzene	3.182	78	123199	23.5632	ug/L		87
48) TAME	3.251	73	86890	25.6175	ug/L		79
50) 1,2-Dichloroethane	3.274	62	47810	25.0215	ug/L		95
51) Isobutyl Alcohol	3.259	43	73421	563.0476	ug/L		95
52) Tert Amyl Alcohol	3.320	59	47421	286.6716	ug/L		89
53) Trichloroethene	3.505	95	34422	23.0870	ug/L		84
54) Methylcyclohexane	3.528	83	56882	24.6417	ug/L		83
55) Dibromomethane	3.736	93	21987	24.3272	ug/L		83
56) 1,2-Dichloropropane	3.790	63	31442	23.2782	ug/L		89
57) Bromodichloromethane	3.828	83	43435	22.9823	ug/L	#	95
58) Methyl methacrylate	3.920	41	34030	26.7546	ug/L	#	68
59) 1,4-Dioxane	3.936	88	8879	681.0404	ug/L		86
60) 2-Chloroethyl vinyl ether	4.167	63	116729	126.6558	ug/L		84
61) cis-1,3-Dichloropropene	4.205	75	48868	23.8364	ug/L		77
64) Toluene	4.367	91	130940	23.6324	ug/L		99
65) 2-Nitropropane	4.467	41	62777	128.7708	ug/L		90
66) 4-Methyl-2-pentanone	4.582	43	221517	133.9797	ug/L		86
67) trans-1,3-Dichloropropene	4.613	75	45641	24.9188	ug/L		81
68) Tetrachloroethene	4.629	166	37656	26.2886	ug/L		94
69) Ethyl methacrylate	4.729	69	41245	25.1341	ug/L	#	68
70) 1,1,2-Trichloroethane	4.713	83	25307	24.3140	ug/L		86
71) Dibromochloromethane	4.836	129	32339	25.0266	ug/L		98
72) 1,3-Dichloropropane	4.890	76	47547	26.2650	ug/L		73
73) 1,2-Dibromoethane	4.990	107	32097	25.9680	ug/L		96
74) 3,3-Dimethyl-1-Butanol	5.121	57	270365	1326.9541	ug/L		94
75) 2-hexanone	5.136	43	215212	134.1971	ug/L		74
76) 1-Chlorohexane	5.360	91	45630m	21.7389	ug/L		
77) Ethylbenzene	5.390	91	154043m	23.9969	ug/L		
78) Chlorobenzene	5.360	112	85573	23.8717	ug/L		83
79) 1,1,1,2-Tetrachloroethane	5.406	131	30761	25.1611	ug/L		97
80) m,p-Xylene	5.498	91	247234	47.1005	ug/L		93
81) o-Xylene	5.798	91	130501	23.7408	ug/L		90
82) Styrene	5.829	104	94524	23.8454	ug/L		89
83) Bromoform	5.837	173	21983	23.9903	ug/L		96
84) Isopropylbenzene	6.037	105	149868	23.1489	ug/L		95
87) cis-1,4-Dichloro-2-butene	6.260	53	9927	20.7735	ug/L	#	77
88) n-Propylbenzene	6.345	91	187436	22.3048	ug/L		86
89) Bromobenzene	6.306	156	36806	23.0956	ug/L	#	75
90) 1,1,2,2-Tetrachloroethane	6.368	83	43542	23.2067	ug/L		97
91) 1,3,5-Trimethylbenzene	6.499	105	128907	22.5874	ug/L		95
92) 2-Chlorotoluene	6.453	91	105234	22.6886	ug/L		92
93) trans-1,4-Dichloro-2-B...	6.499	53	13256	21.9363	ug/L	#	61
94) 1,2,3-Trichloropropane	6.468	110	12475	25.3818	ug/L	#	77
95) Cyclohexanone	6.483	55	8263	146.9367	ug/L		79
96) 4-Chlorotoluene	6.576	91	112289	22.6103	ug/L		88
97) tert-Butylbenzene	6.745	91	77572	22.5964	ug/L		84
98) 1,2,4-Trimethylbenzene	6.799	105	123714	23.1730	ug/L		97
99) Pentachloroethane	6.745	167	19208	22.3352	ug/L	#	50
100) sec-Butylbenzene	6.891	105	166703	23.0631	ug/L		94
101) 4-Isopropyltoluene	7.007	119	140387	22.8721	ug/L		94
102) 1,3-Dichlorobenzene	7.037	146	73497	23.7115	ug/L		95
103) 1,2,3-Trimethylbenzene	7.138	105	127477	24.0924	ug/L		97
104) 1,4-Dichlorobenzene	7.107	146	73009	23.5476	ug/L		95
105) n-Butylbenzene	7.338	92	64766	23.0709	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:33:58 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration

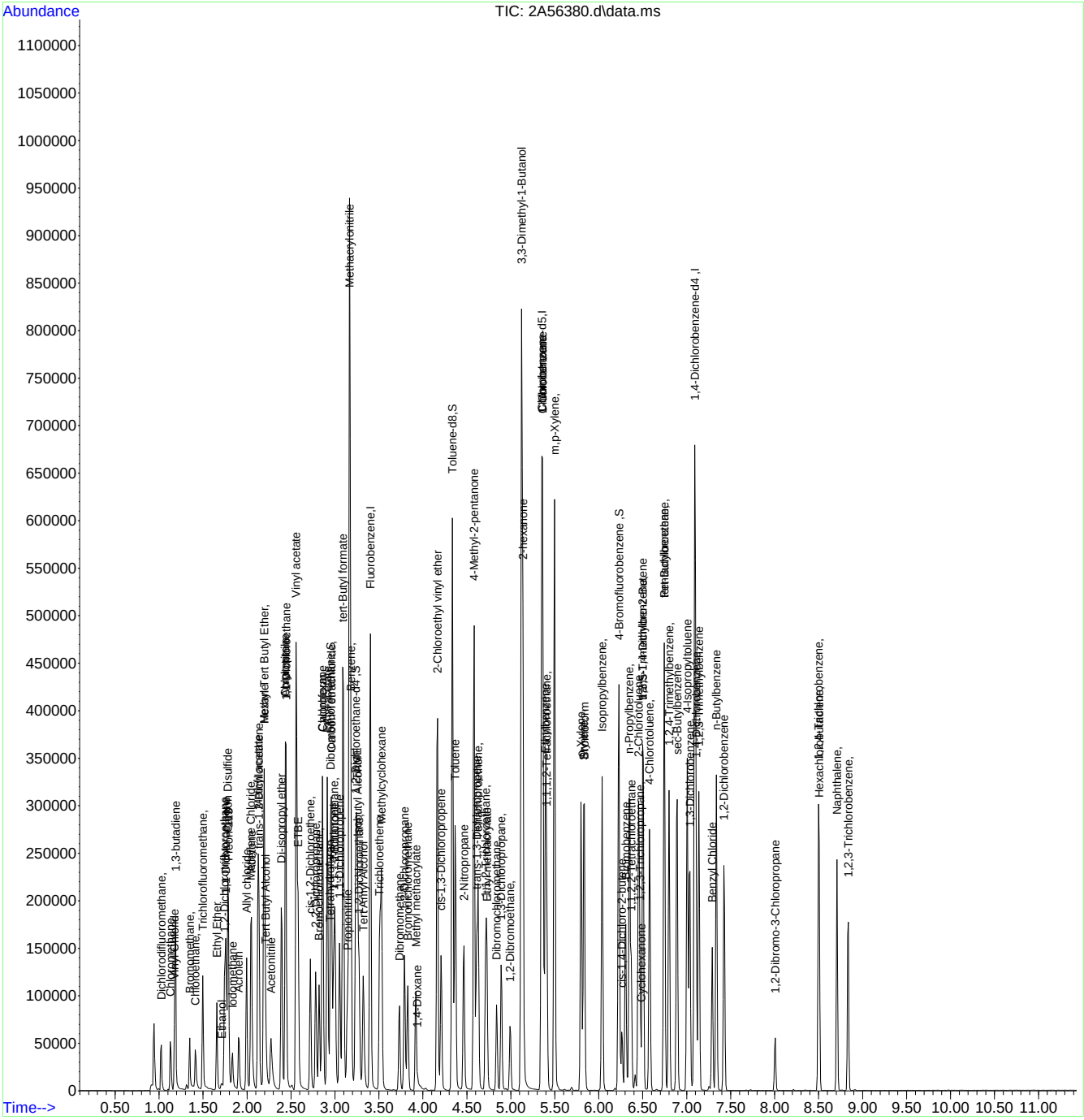
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) Benzyl Chloride	7.291	126	14474	21.0097 ug/L #	74
107) 1,2-Dichlorobenzene	7.422	146	66953	24.0803 ug/L	91
108) 1,2-Dibromo-3-Chloropr...	8.007	75	8869	23.3154 ug/L #	58
109) Hexachlorobutadiene	8.508	225	18248	23.1684 ug/L	87
110) 1,2,4-Trichlorobenzene	8.500	180	41635	24.6114 ug/L	96
111) Naphthalene	8.708	128	111328	24.0895 ug/L	98
112) 1,2,3-Trichlorobenzene	8.838	180	37240	24.6245 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:33:58 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



Manual Integration Approval Summary

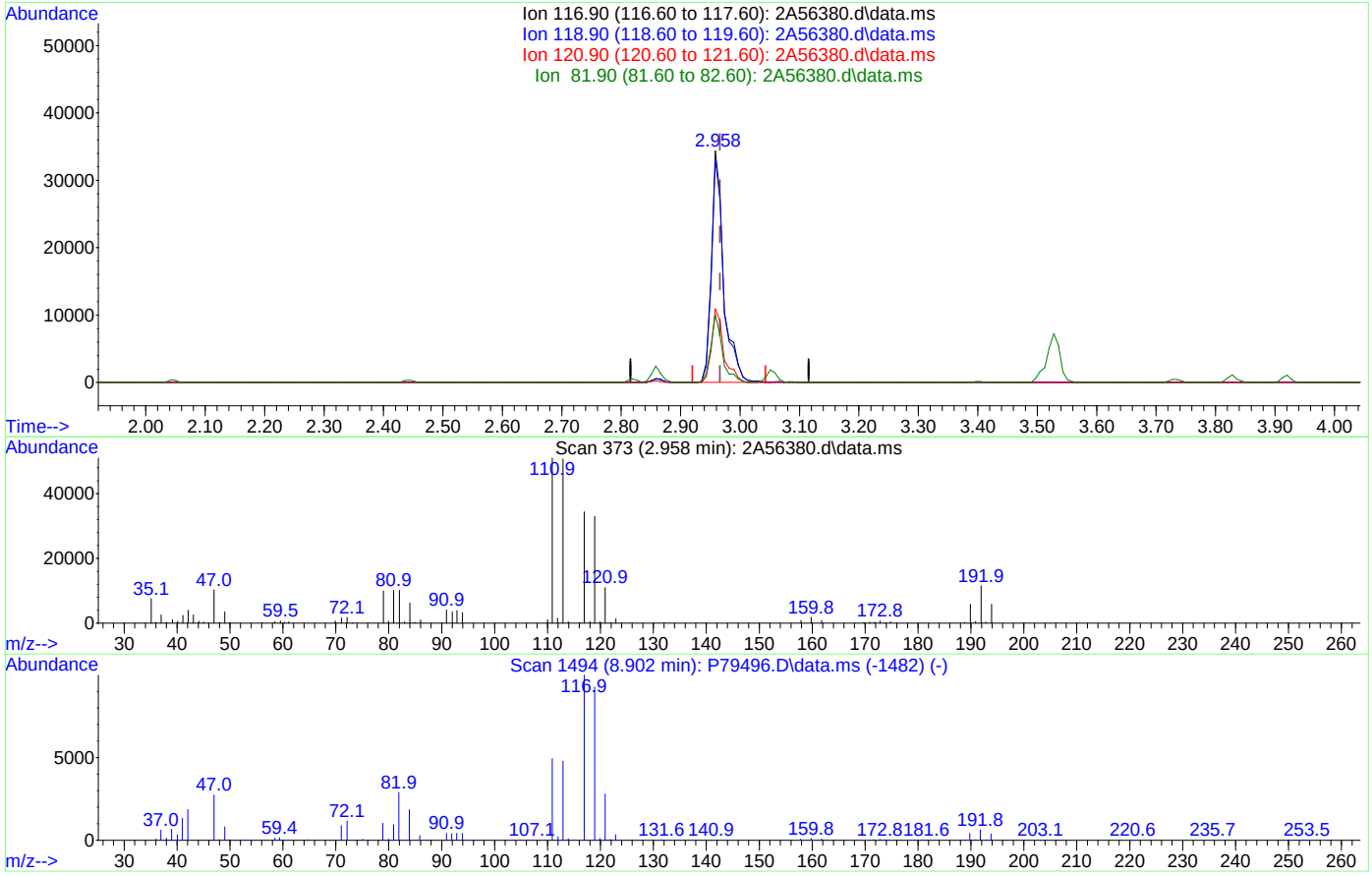
Sample Number: V2A1913-ECC1910 **Method:** SW846 8260D
Lab FileID: 2A56380.D **Analyst approved:** 06/28/24 02:59 Jhenelle Bondal
Injection Time: 06/27/24 18:28 **Supervisor approved:** 06/28/24 08:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		2.96	Overlapping peak
1-Chlorohexane	544-10-5		5.36	Overlapping peak
Ethylbenzene	100-41-4		5.39	Overlapping peak

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 25.26ug/L

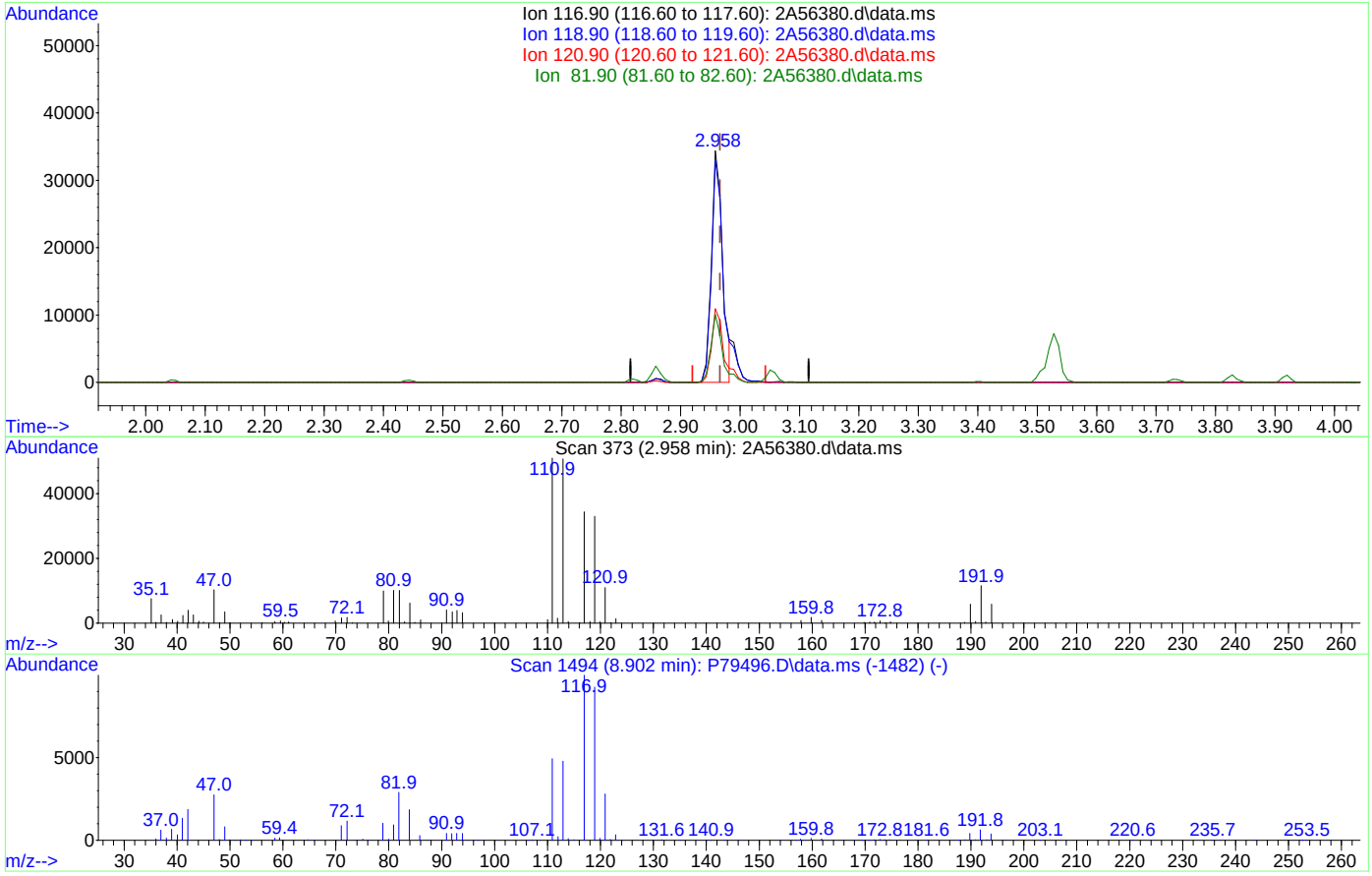
response 49783

Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.07
120.90	31.00	31.83
81.90	19.00	29.35

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(40) Carbon Tetrachloride ( )

2.958min (-0.008) 22.84ug/L m

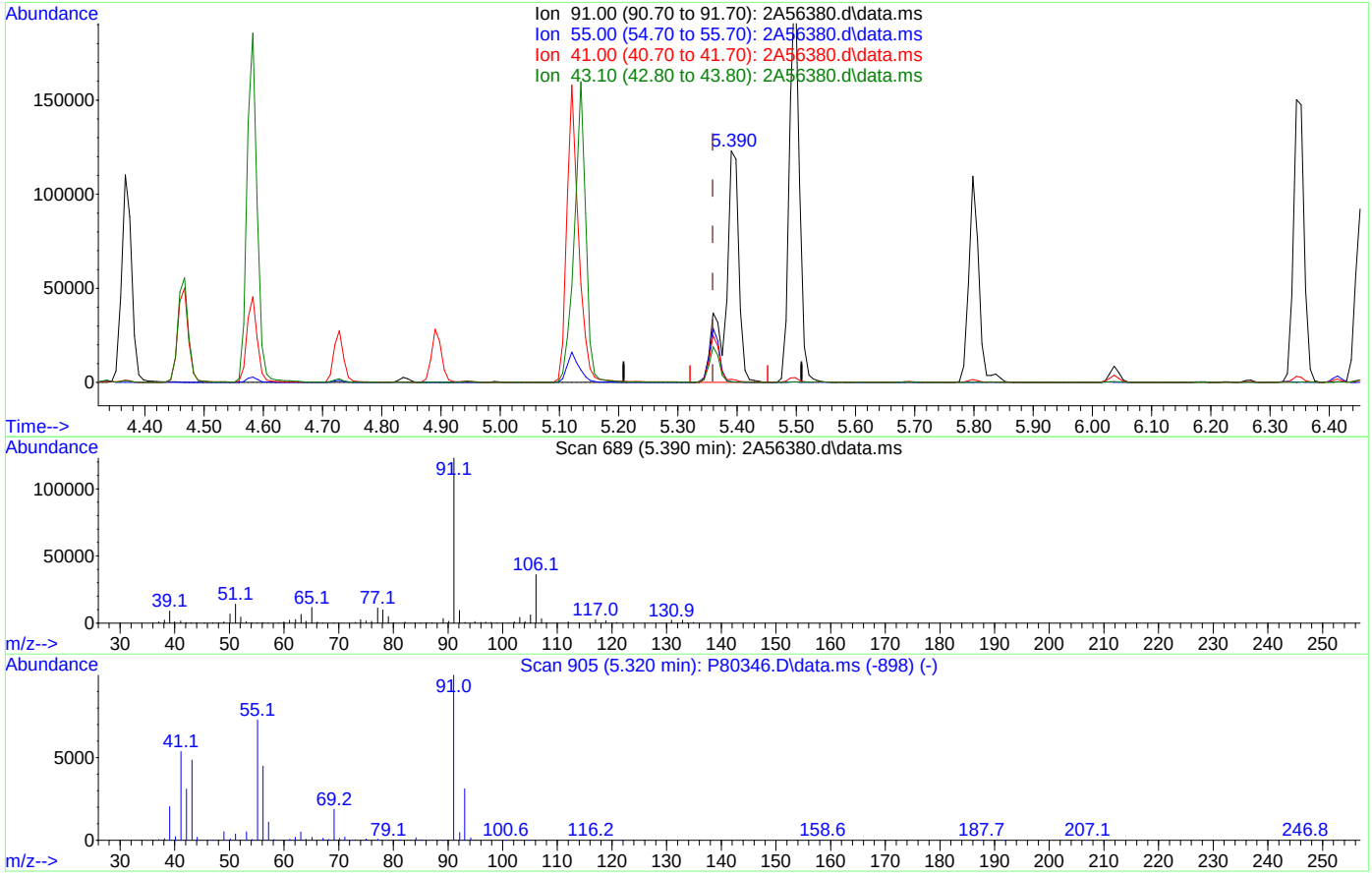
response 45000

Ion	Exp%	Act%
116.90	100	100
118.90	96.30	96.07
120.90	31.00	31.83
81.90	19.00	29.35

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(76) 1-Chlorohexane

5.390min (+0.031) 95.12ug/L

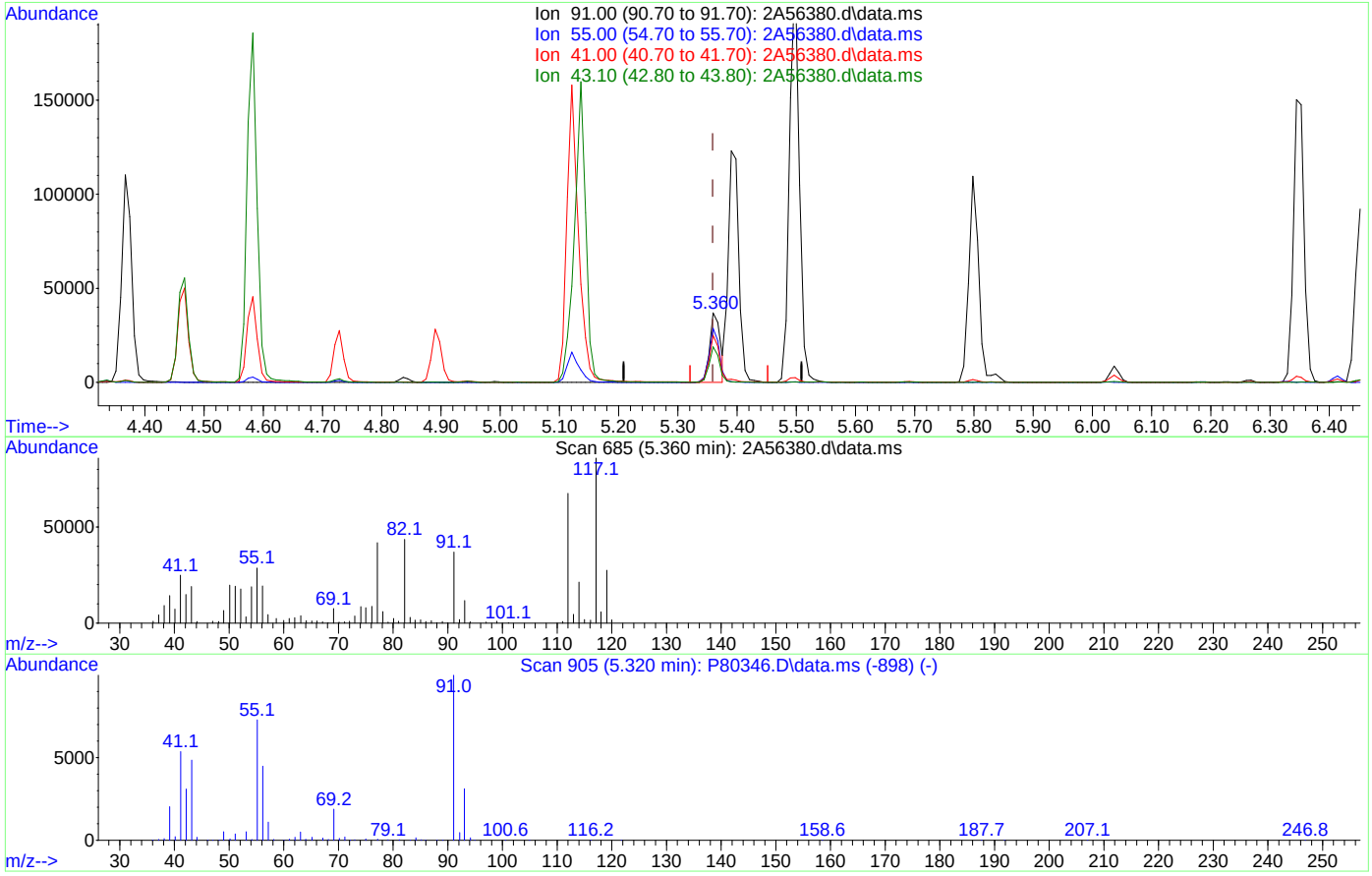
response 199660

Ion	Exp%	Act%
91.00	100	100
55.00	58.90	0.32#
41.00	39.20	1.17#
43.10	33.20	0.33#

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(76) 1-Chlorohexane

5.360min (+0.001) 21.74ug/L m

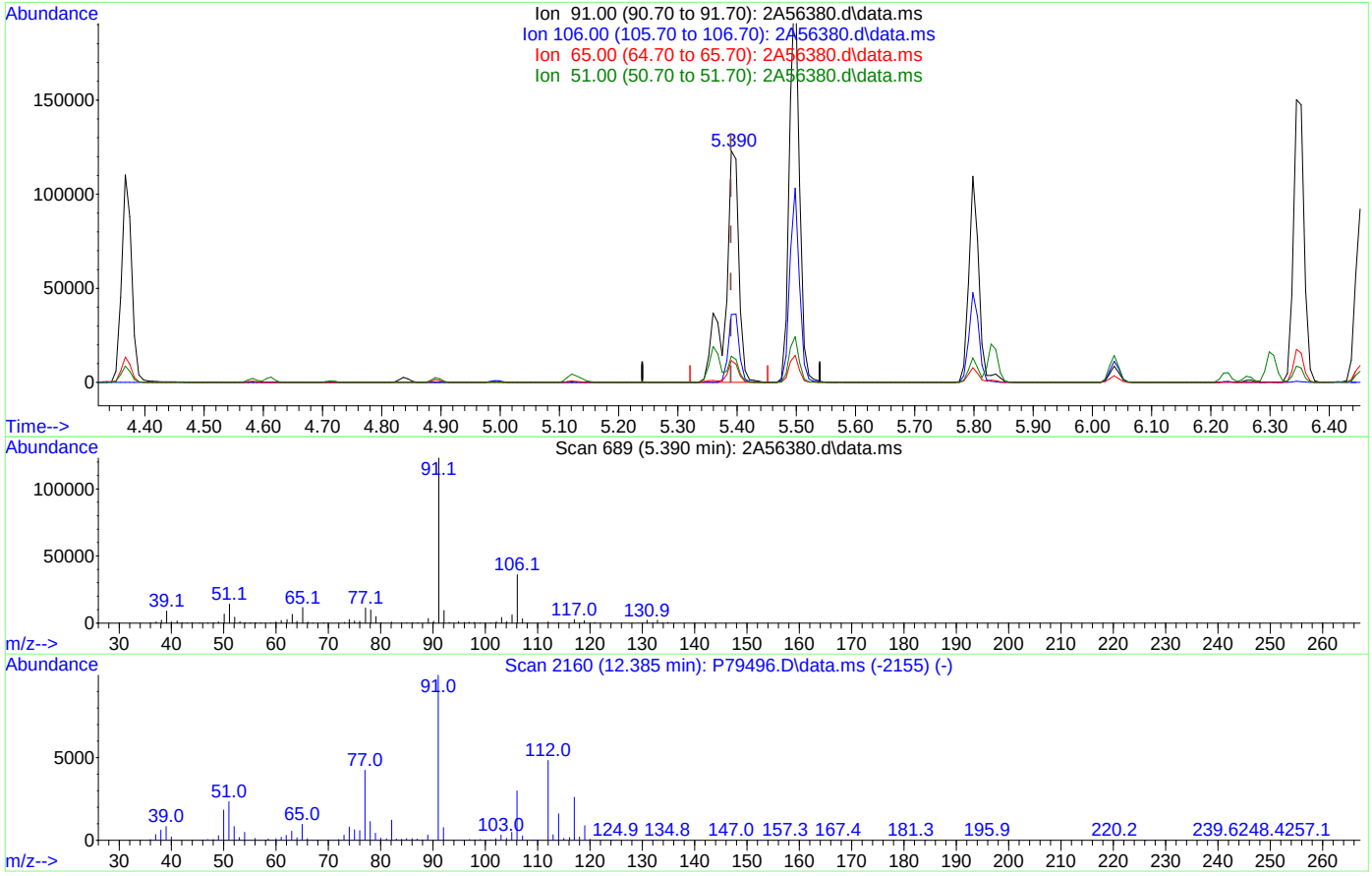
response 45630

Ion	Exp%	Act%
91.00	100	100
55.00	58.90	77.60
41.00	39.20	67.30#
43.10	33.20	51.31

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 31.10ug/L

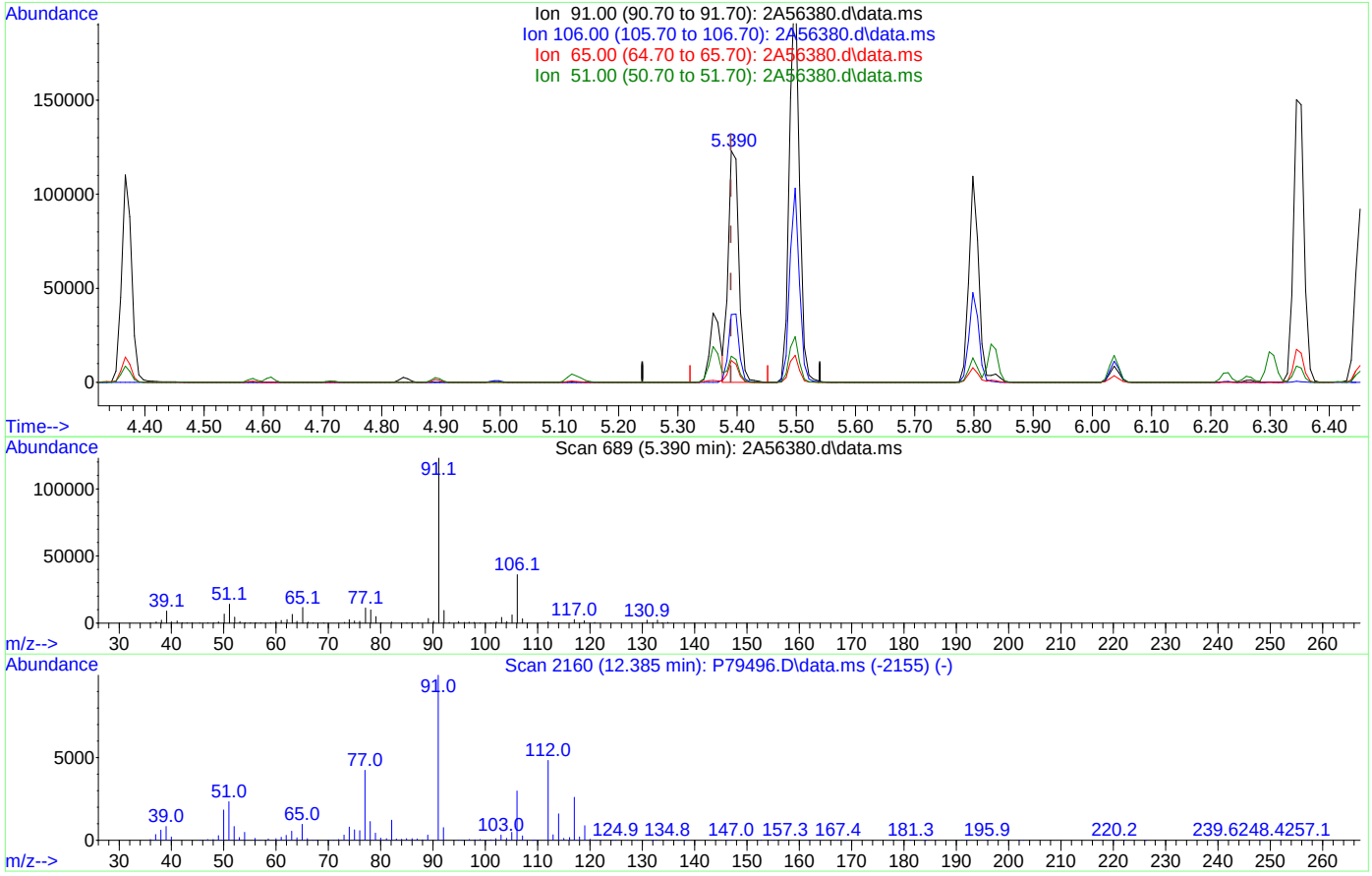
response 199660

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.37
65.00	7.10	9.42
51.00	7.10	11.39

Quantitation Report (Qedit)

Data Path : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\V2A1913\
Data File : 2A56380.d
Acq On : 27 Jun 2024 6:28 pm
Operator : jeniferw
Sample : ECC1910-4 Inst : MSVOA17
Misc : MS56922,V2A1913,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 28 06:14:08 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\June 2024\06-28-2024\V2A1913\method\V2A1910_06252024
... .M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Tue Jun 25 13:23:01 2024
Response via : Initial Calibration



TIC: 2A56380.d\data.ms

(77) Ethylbenzene

5.390min (+0.000) 24.00ug/L m

response 154043

Ion	Exp%	Act%
91.00	100	100
106.00	34.30	29.37
65.00	7.10	9.42
51.00	7.10	11.39

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	380554	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	242002	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	119212	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	95400	45.84	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.68%				
49) 1,2-Dichloroethane-d4	8.180	65	110171	51.11	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.22%				
62) Toluene-d8	10.033	98	351481	55.85	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.70%				
86) 4-Bromofluorobenzene	12.807	95	104436	55.83	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.66%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	1337	0.96	ug/L		78
3) Chloromethane	3.132	50	2805	1.42	ug/L		100
4) Vinyl Chloride	3.266	62	3297	1.34	ug/L		86
5) 1,3-Butadiene	3.297	39	5513	1.38	ug/L		87
6) Bromomethane	3.772	94	2379	1.29	ug/L		89
7) Chloroethane	3.949	64	2111	1.24	ug/L		90
8) Trichlorofluoromethane	4.162	101	2840	1.12	ug/L		90
9) Ethyl Ether	4.583	59	1071	0.99	ug/L	#	80
11) 1,2-Dichlorotrifluoroe...	4.827	67	941	0.76	ug/L	#	59
12) 1,1-Dichloroethene	4.863	61	1810	0.86	ug/L		85
13) Freon 113	4.900	101	948	0.66	ug/L		81
14) Carbon Disulfide	4.918	76	4180	0.93	ug/L		81
15) Iodomethane	5.058	142	564	0.26	ug/L	#	44
16) Acrolein	5.314	56	859	2.92	ug/L		87
17) Allyl chloride	5.467	41	2820	1.20	ug/L	#	79
18) Methylene Chloride	5.589	49	7269	3.40	ug/L		88
19) Acetone	5.656	43	3302	5.10	ug/L		82
20) Methyl acetate	5.796	43	6284	3.79	ug/L		97
21) trans-1,2-Dichloroethene	5.802	61	1936	0.86	ug/L		89
22) Hexane	5.869	56	840	0.66	ug/L	#	66
23) Methyl Tert Butyl Ether	5.894	73	3443	0.87	ug/L		91
24) Acetonitrile	6.241	41	2554	10.51	ug/L		76
25) Di-isopropyl ether	6.326	45	4775	1.01	ug/L		92
26) Chloroprene	6.491	53	1471	0.77	ug/L		90
27) 1,1-Dichloroethane	6.515	63	2482	0.93	ug/L		97
28) Acrylonitrile	6.589	53	3121	4.58	ug/L		82
29) ETBE	6.741	59	3405	0.83	ug/L		85
30) Tert Butyl Alcohol	5.979	59	1927	7.00	ug/L		83
31) Vinyl acetate	6.741	43	450	0.12	ug/L		74
32) cis-1,2-Dichloroethene	7.131	96	1328	0.83	ug/L		87
33) 2,2-Dichloropropane	7.247	77	1587	0.83	ug/L		78
34) Bromochloromethane	7.351	128	508	0.66	ug/L	#	75
35) Cyclohexane	7.369	56	1832	0.71	ug/L		93
36) Chloroform	7.405	83	2106	0.80	ug/L		90
37) Ethyl acetate	7.515	43	11080	5.46	ug/L		96
38) Tetrahydrofuran	7.607	42	669	0.83	ug/L	#	66
40) Carbon Tetrachloride	7.588	117	1054	0.73	ug/L	#	60
41) 1,1,1-Trichloroethane	7.649	97	1751	0.87	ug/L		96
42) 2-Butanone	7.710	43	431	0.41	ug/L		51
43) 1,1-Dichloropropene	7.790	75	1566	0.82	ug/L	#	81
44) tert-Butyl formate	7.875	59	2314	7.26	ug/L	#	79
45) Propionitrile	8.070	54	2842	10.07	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	13576	10.98	ug/L		93
47) Benzene	8.046	78	6132	0.99	ug/L		93
48) TAME	8.119	73	3373	0.82	ug/L		96
50) 1,2-Dichloroethane	8.259	62	1580	0.89	ug/L		84
51) tert Amyl alcohol	8.283	59	1296	6.64	ug/L	#	70
52) Trichloroethene	8.643	95	1379	0.84	ug/L		83
53) Methylcyclohexane	8.637	83	1690	0.57	ug/L		89
54) Dibromomethane	9.094	93	537	0.52	ug/L		86
55) 1,2-Dichloropropane	9.180	63	1257	0.88	ug/L	#	83
56) Bromodichloromethane	9.222	83	1302	0.68	ug/L		90
57) Methyl methacrylate	9.350	41	431	0.28	ug/L	#	77
59) 2-Chloroethyl vinyl ether	9.765	63	2192	3.45	ug/L	#	73
60) cis-1,3-Dichloropropene	9.856	75	1158	0.51	ug/L		72
63) Toluene	10.088	91	7158	1.33	ug/L		97
64) Isobutyl alcohol	8.186	43	1929	22.08	ug/L	#	67
65) 2-Nitropropane	10.326	41	849	4.56	ug/L		84
66) 4-Methyl-2-pentanone	10.435	43	9053	4.72	ug/L		90
67) trans-1,3-Dichloropropene	10.509	75	741	0.42	ug/L	#	39
68) Tetrachloroethene	10.496	166	1252	0.84	ug/L		78
69) Ethyl methacrylate	10.612	69	777	0.47	ug/L	#	76
70) 1,1,2-Trichloroethane	10.661	83	868	0.89	ug/L		81
71) Dibromochloromethane	10.856	129	647	0.57	ug/L		84
72) 1,3-Dichloropropane	10.941	76	1495	0.85	ug/L		94
73) 1,2-Dibromoethane	11.124	107	489	0.43	ug/L		86
74) 3,3-Dimethyl-1-butanol	11.191	57	4409	71.17	ug/L		85
75) 2-hexanone	11.271	43	5200	3.95	ug/L		92
76) 1-Chlorohexane	11.545	91	1193	0.70	ug/L		80
77) Ethylbenzene	11.606	91	7682	1.23	ug/L		84
78) Chlorobenzene	11.618	112	3460	0.98	ug/L		88
79) 1,1,1,2-Tetrachloroethane	11.667	131	914	0.87	ug/L	#	66
80) m,p-Xylene	11.752	91	10565	2.32	ug/L		94
81) o-Xylene	12.197	91	5041	1.17	ug/L		98
82) Styrene	12.258	104	1890	0.62	ug/L		92
83) Bromoform	12.307	173	168m	0.20	ug/L		
84) Isopropylbenzene	12.496	105	4734	0.92	ug/L		94
88) n-Propylbenzene	12.917	91	6343	1.13	ug/L		86
89) Bromobenzene	12.947	156	968	0.87	ug/L		79
90) 1,1,2,2-Tetrachloroethane	12.978	83	1415	0.96	ug/L		92
91) 1,3,5-Trimethylbenzene	13.100	105	3555	0.97	ug/L		90
92) 2-Chlorotoluene	13.118	91	4232	1.17	ug/L		85
94) 1,2,3-Trichloropropane	13.148	110	244	0.65	ug/L	#	36
96) 4-Chlorotoluene	13.288	91	3528	1.13	ug/L		95
98) tert-Butylbenzene	13.435	91	2028	1.00	ug/L		82
99) 1,2,4-Trimethylbenzene	13.508	105	3612	1.04	ug/L		90
100) Pentachloroethane	13.490	167	277	0.50	ug/L	#	71
101) sec-Butylbenzene	13.618	105	4931	1.08	ug/L		97
102) 4-Isopropyltoluene	13.746	119	3177	0.88	ug/L		76
103) 1,3-Dichlorobenzene	13.892	146	2138	1.02	ug/L		92
104) 1,2,3-Trimethylbenzene	13.959	105	4066	1.03	ug/L	#	45
105) 1,4-Dichlorobenzene	13.965	146	2398	0.98	ug/L	#	1
106) n-Butylbenzene	14.191	92	1179	0.64	ug/L	#	49
108) 1,2-Dichlorobenzene	14.392	146	1754	0.90	ug/L		86
110) Hexachlorobutadiene	15.660	225	387	0.96	ug/L	#	47
111) 1,2,4-Trichlorobenzene	15.727	180	801	0.81	ug/L		69
112) Naphthalene	16.026	128	1931	0.68	ug/L		70
113) 1,2,3-Trichlorobenzene	16.190	180	750	0.83	ug/L		76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration

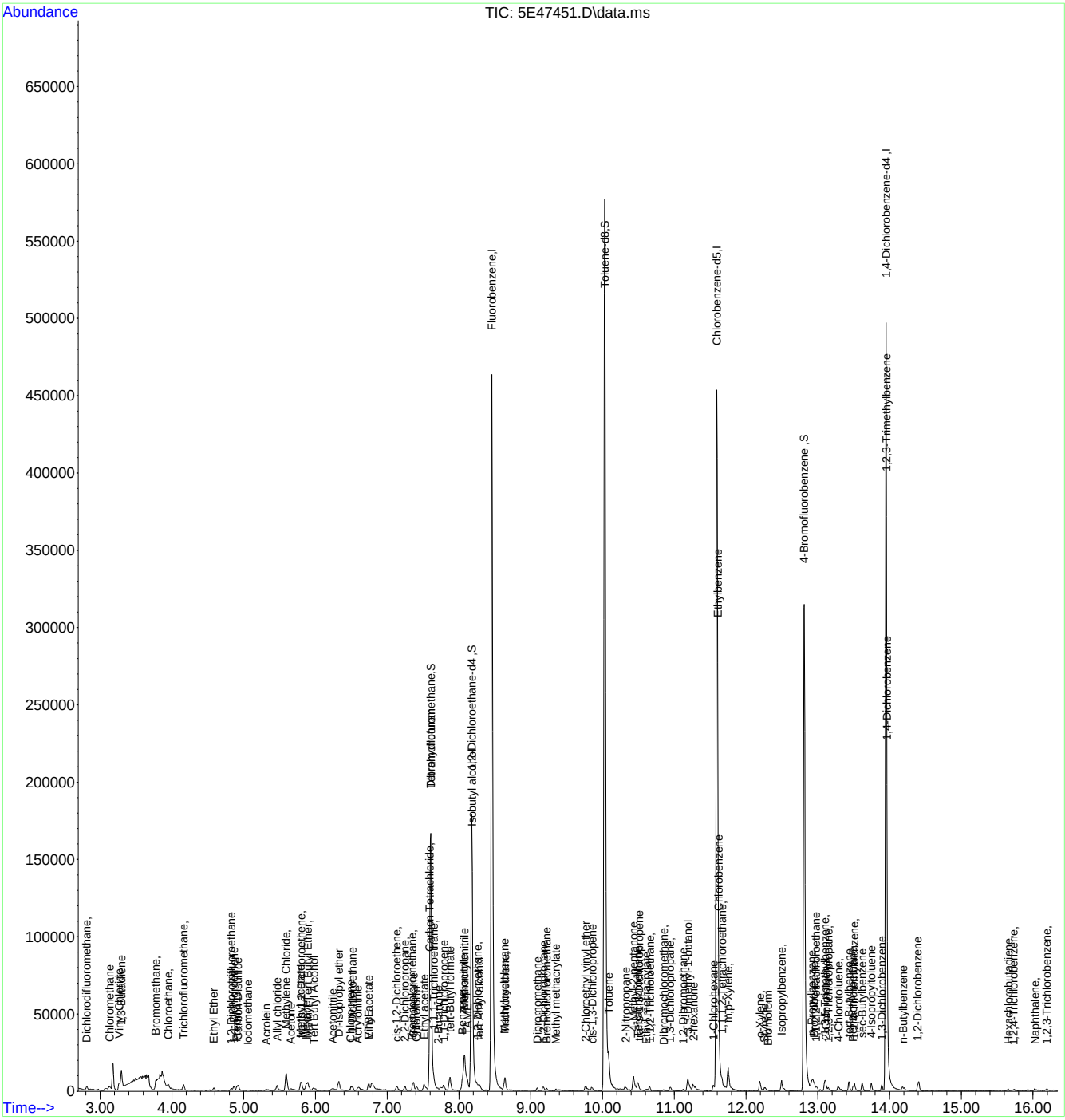
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56909,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:12:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47451.D
Injection Time: 06/25/24 12:49

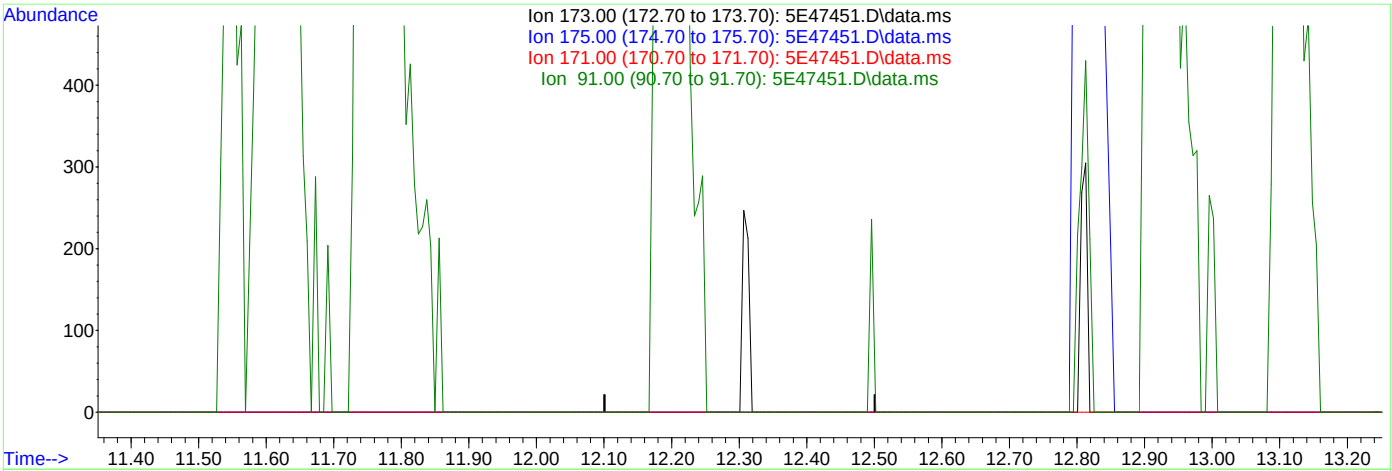
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

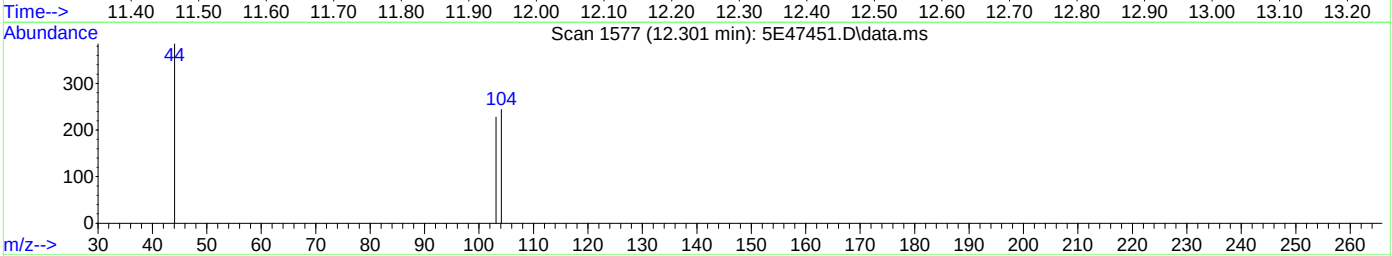
Parameter	CAS	Sig#	R.T. (min.)	Reason
Bromoform	75-25-2		12.31	Missed peak

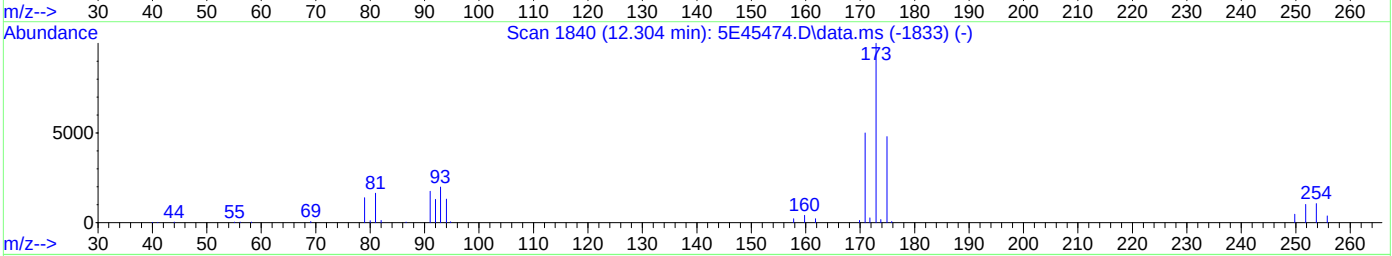
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.301min (-12.301) 0.00ug/L

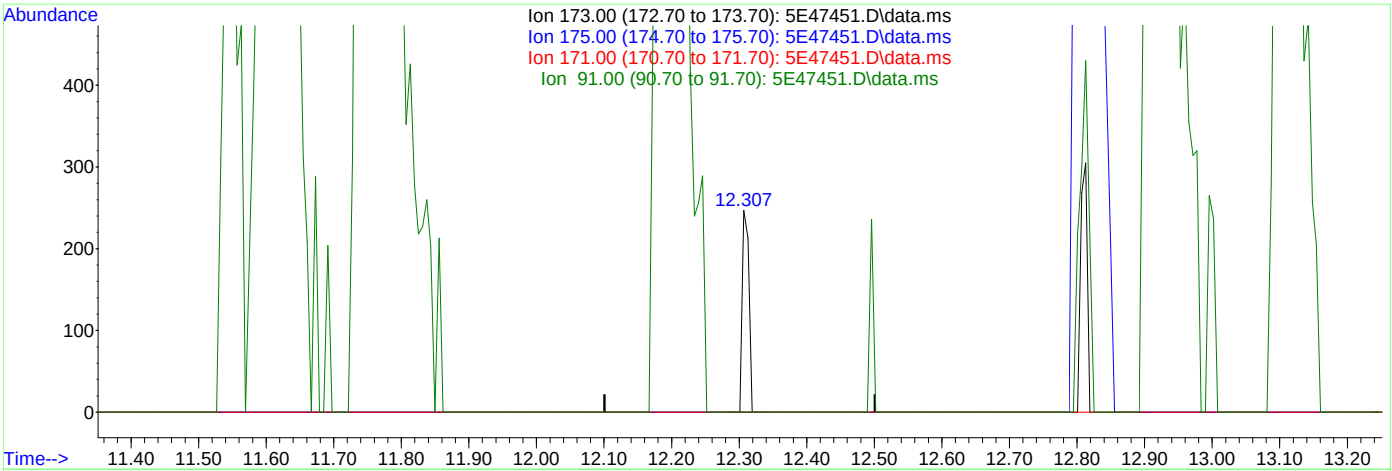
response 0

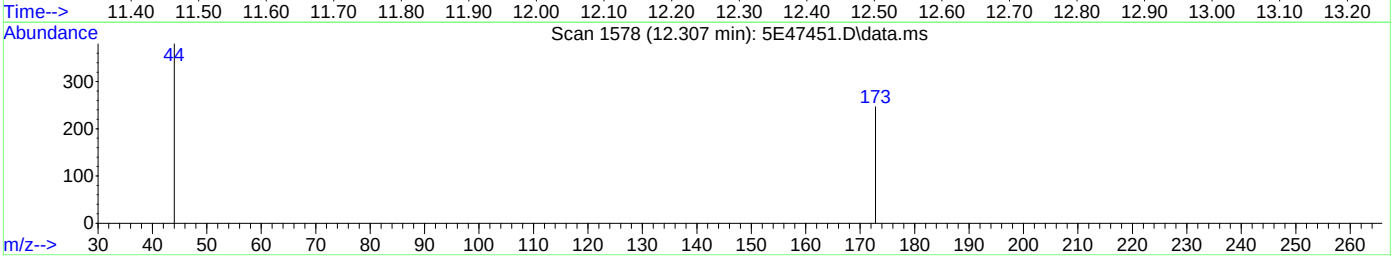
Ion	Exp%	Act%
173.00	100	0.00
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

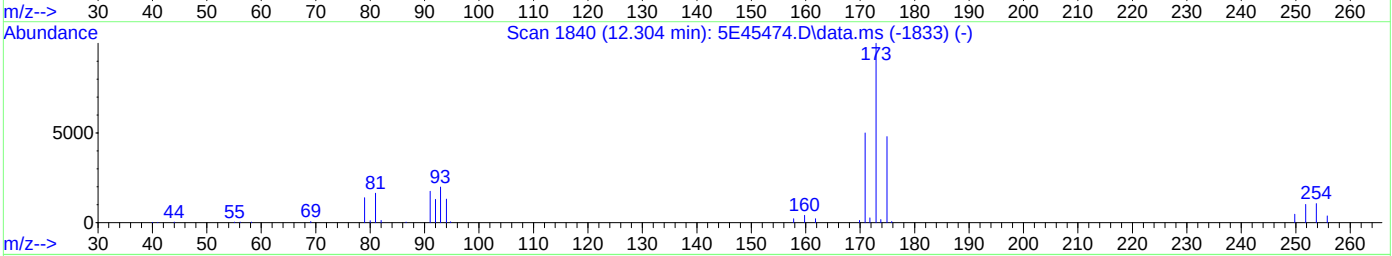
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47451.D
Acq On : 25 Jun 2024 12:49 pm
Operator : lianatr
Sample : IC2113-1
Misc : MS56906,V5E2113,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 13:06:46 2024
Quant Method : C:\msdchem\1\methods\V5E2111_06202024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu Jun 20 11:17:21 2024
Response via : Initial Calibration







TIC: 5E47451.D\data.ms

(83) Bromoform

12.307min (+0.006) 0.20ug/L m

response 168

Ion	Exp%	Act%
173.00	100	100
175.00	51.40	0.00#
171.00	52.40	0.00#
91.00	23.70	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	369874	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	237472	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	116771	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	95637	47.69	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.38%				
49) 1,2-Dichloroethane-d4	8.180	65	108579	51.37	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.74%				
62) Toluene-d8	10.033	98	349879	56.11	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 112.22%#				
86) 4-Bromofluorobenzene	12.807	95	103993	56.47	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.94%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	2164	1.57	ug/L		94
3) Chloromethane	3.132	50	3905	1.94	ug/L		93
4) Vinyl Chloride	3.266	62	4430	1.78	ug/L		89
5) 1,3-Butadiene	3.296	39	7909	1.89	ug/L		88
6) Bromomethane	3.772	94	3305	1.81	ug/L		90
7) Chloroethane	3.949	64	3136	1.82	ug/L		79
8) Trichlorofluoromethane	4.162	101	3986	1.57	ug/L		98
9) Ethyl Ether	4.589	59	2241	2.10	ug/L	#	81
11) 1,2-Dichlorotrifluoroe...	4.833	67	2878	2.49	ug/L		86
12) 1,1-Dichloroethene	4.863	61	4345	2.19	ug/L		91
13) Freon 113	4.906	101	3000	2.20	ug/L		86
14) Carbon Disulfide	4.924	76	8977	2.15	ug/L		90
15) Iodomethane	5.058	142	1465	0.70	ug/L		85
16) Acrolein	5.314	56	2501	9.12	ug/L		71
17) Allyl chloride	5.461	41	3646	1.59	ug/L		89
18) Methylene Chloride	5.595	49	9963	4.79	ug/L		95
19) Acetone	5.656	43	6906	11.11	ug/L		95
20) Methyl acetate	5.790	43	12635	7.85	ug/L		94
21) trans-1,2-Dichloroethene	5.796	61	4157	1.90	ug/L		94
22) Hexane	5.869	56	2790	2.39	ug/L		90
23) Methyl Tert Butyl Ether	5.894	73	7594	1.99	ug/L		76
24) Acetonitrile	6.259	41	4097	17.40	ug/L		88
25) Di-isopropyl ether	6.326	45	10713	2.35	ug/L		96
26) Chloroprene	6.491	53	2945	1.61	ug/L		86
27) 1,1-Dichloroethane	6.515	63	5507	2.17	ug/L		94
28) Acrylonitrile	6.588	53	6677	10.04	ug/L		98
29) ETBE	6.741	59	8059	2.06	ug/L		98
30) Tert Butyl Alcohol	5.973	59	4696	18.27	ug/L	#	63
31) Vinyl acetate	6.777	43	28370	7.86	ug/L		98
32) cis-1,2-Dichloroethene	7.131	96	2990	1.95	ug/L		88
33) 2,2-Dichloropropane	7.247	77	3277	1.82	ug/L		86
34) Bromochloromethane	7.357	128	1013	1.39	ug/L	#	67
35) Cyclohexane	7.369	56	5043	2.11	ug/L		91
36) Chloroform	7.411	83	4902	1.97	ug/L		96
37) Ethyl acetate	7.509	43	20430	10.27	ug/L		93
38) Tetrahydrofuran	7.607	42	1961	2.61	ug/L		87
40) Carbon Tetrachloride	7.588	117	3035	2.17	ug/L		86
41) 1,1,1-Trichloroethane	7.655	97	3927	2.05	ug/L		97
42) 2-Butanone	7.741	43	10194	10.87	ug/L		86
43) 1,1-Dichloropropene	7.783	75	3689	2.03	ug/L		91
44) tert-Butyl formate	7.869	59	5125	16.65	ug/L	#	74
45) Propionitrile	8.058	54	4418	16.00	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Methacrylonitrile	8.076	41	21976	18.15	ug/L		97
47) Benzene	8.052	78	12371	2.08	ug/L		91
48) TAME	8.119	73	7402	1.89	ug/L		98
50) 1,2-Dichloroethane	8.247	62	3690	2.13	ug/L		93
51) tert Amyl alcohol	8.283	59	2823	15.60	ug/L	#	77
52) Trichloroethene	8.643	95	2967	1.93	ug/L		91
53) Methylcyclohexane	8.637	83	5017	1.74	ug/L		92
54) Dibromomethane	9.082	93	1681	1.68	ug/L		78
55) 1,2-Dichloropropane	9.179	63	2851	2.10	ug/L		86
56) Bromodichloromethane	9.216	83	3232	1.74	ug/L		88
57) Methyl methacrylate	9.344	41	1036	0.69	ug/L	#	69
59) 2-Chloroethyl vinyl ether	9.759	63	5422	9.17	ug/L		83
60) cis-1,3-Dichloropropene	9.856	75	3148	1.43	ug/L		95
63) Toluene	10.088	91	12851	2.40	ug/L		98
64) Isobutyl alcohol	8.180	43	3088	36.47	ug/L	#	62
65) 2-Nitropropane	10.319	41	2384	13.11	ug/L		92
66) 4-Methyl-2-pentanone	10.429	43	23627	12.46	ug/L		94
67) trans-1,3-Dichloropropene	10.490	75	2439	1.42	ug/L		90
68) Tetrachloroethene	10.496	166	3000	2.10	ug/L		85
69) Ethyl methacrylate	10.600	69	1227	0.76	ug/L	#	53
70) 1,1,2-Trichloroethane	10.649	83	2032	2.13	ug/L		94
71) Dibromochloromethane	10.850	129	1800	1.61	ug/L		82
72) 1,3-Dichloropropane	10.935	76	3681	2.17	ug/L		87
73) 1,2-Dibromoethane	11.124	107	2105	2.02	ug/L		91
74) 3,3-Dimethyl-1-butanol	11.185	57	7002	113.51	ug/L		93
75) 2-hexanone	11.258	43	12536	9.79	ug/L		94
76) 1-Chlorohexane	11.539	91	3129	1.95	ug/L		91
77) Ethylbenzene	11.606	91	14449	2.33	ug/L		79
78) Chlorobenzene	11.612	112	7770	2.24	ug/L		86
79) 1,1,1,2-Tetrachloroethane	11.667	131	1965	1.93	ug/L	#	77
80) m,p-Xylene	11.746	91	19703	4.35	ug/L		94
81) o-Xylene	12.191	91	9353	2.18	ug/L		95
82) Styrene	12.252	104	5225	1.79	ug/L		82
83) Bromoform	12.301	173	857	1.05	ug/L		88
84) Isopropylbenzene	12.490	105	10924	2.18	ug/L		96
88) n-Propylbenzene	12.917	91	13871	2.50	ug/L		99
89) Bromobenzene	12.947	156	2578	2.38	ug/L		90
90) 1,1,2,2-Tetrachloroethane	12.984	83	3374	2.37	ug/L		94
91) 1,3,5-Trimethylbenzene	13.093	105	7986	2.25	ug/L		94
92) 2-Chlorotoluene	13.112	91	8928	2.49	ug/L		96
94) 1,2,3-Trichloropropane	13.148	110	897	2.56	ug/L	#	74
95) Cyclohexanone	13.234	55	99m	2.03	ug/L		
96) 4-Chlorotoluene	13.282	91	7283	2.37	ug/L		97
98) tert-Butylbenzene	13.435	91	5068	2.59	ug/L		88
99) 1,2,4-Trimethylbenzene	13.508	105	7826	2.29	ug/L		91
100) Pentachloroethane	13.496	167	657	1.28	ug/L	#	79
101) sec-Butylbenzene	13.618	105	11218	2.51	ug/L		94
102) 4-Isopropyltoluene	13.746	119	7659	2.19	ug/L		87
103) 1,3-Dichlorobenzene	13.892	146	4712	2.30	ug/L		94
104) 1,2,3-Trimethylbenzene	13.959	105	9032	2.33	ug/L	#	75
105) 1,4-Dichlorobenzene	13.971	146	5384	2.29	ug/L	#	76
106) n-Butylbenzene	14.185	92	4232	2.44	ug/L	#	69
107) Benzyl Chloride	14.203	126	94m	0.21	ug/L		
108) 1,2-Dichlorobenzene	14.392	146	4276	2.28	ug/L		92
109) 1,2-Dibromo-3-Chloropr...	15.130	75	91m	0.43	ug/L		
110) Hexachlorobutadiene	15.654	225	981	2.54	ug/L	#	81
111) 1,2,4-Trichlorobenzene	15.721	180	2038	2.13	ug/L		82
112) Naphthalene	16.013	128	4872	1.83	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
113) 1,2,3-Trichlorobenzene	16.190	180	1886	2.18	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

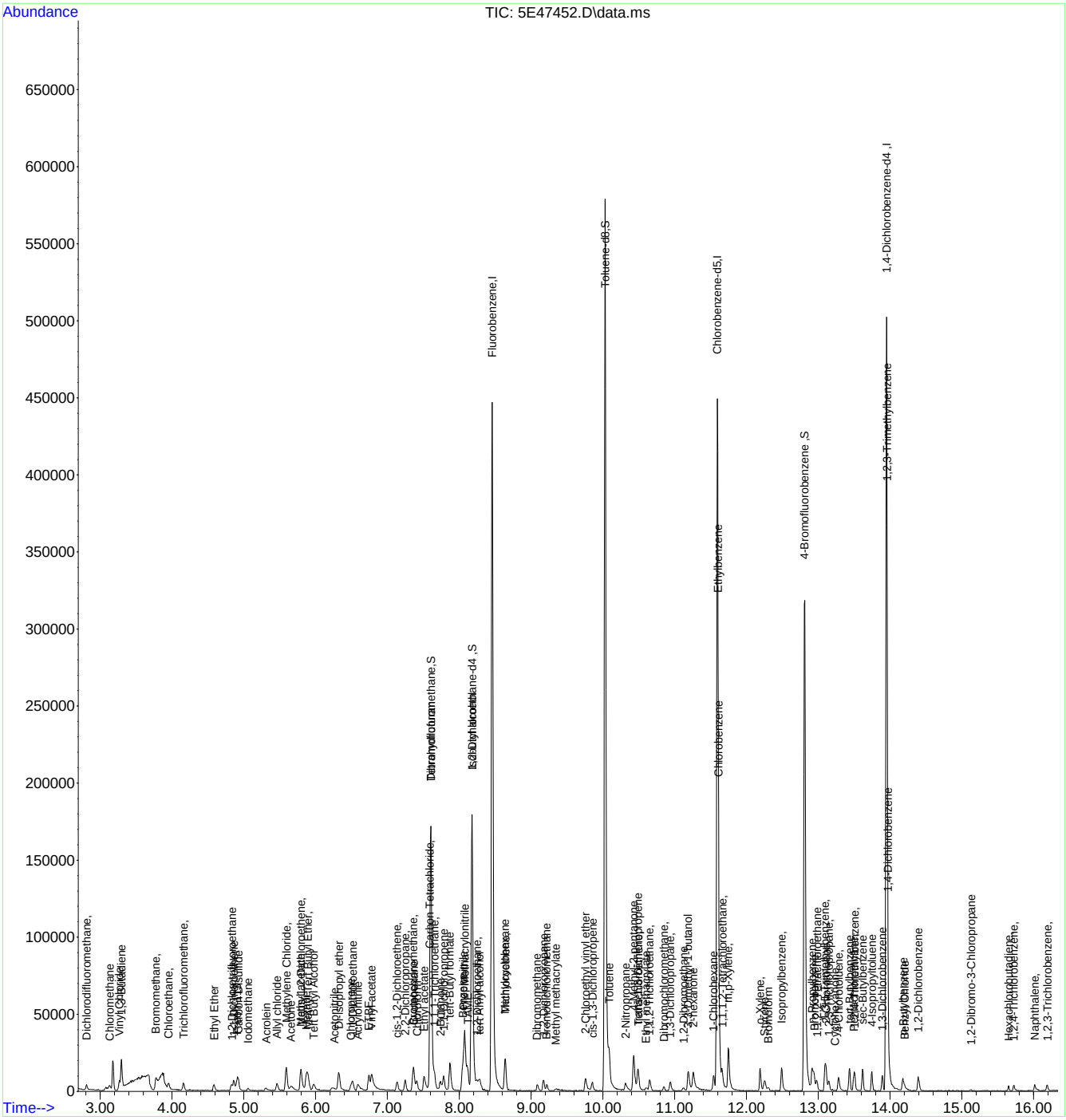
7.6.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56909,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:35:03 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47452.D
Injection Time: 06/25/24 13:12

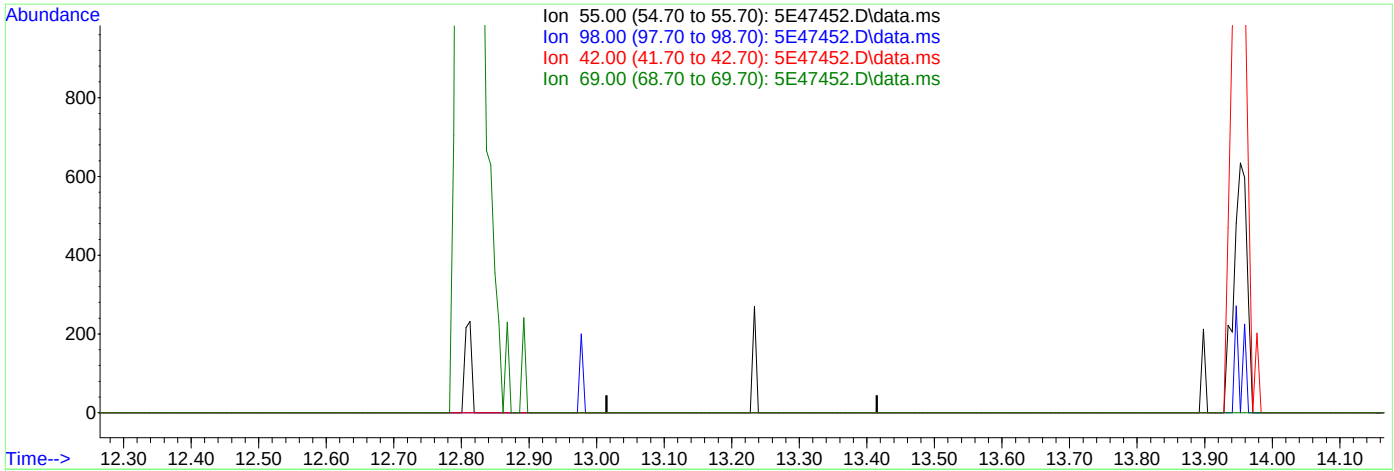
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

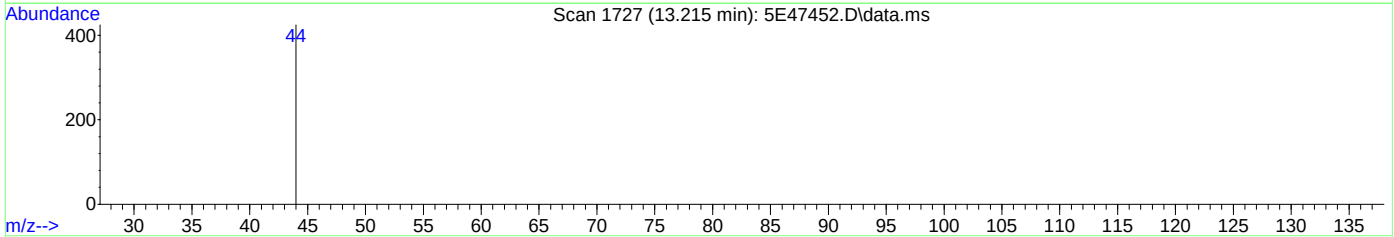
Parameter	CAS	Sig#	R.T. (min.)	Reason
Cyclohexanone	108-94-1		13.23	Missed peak
Benzyl Chloride	100-44-7		14.20	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		15.13	Missed peak

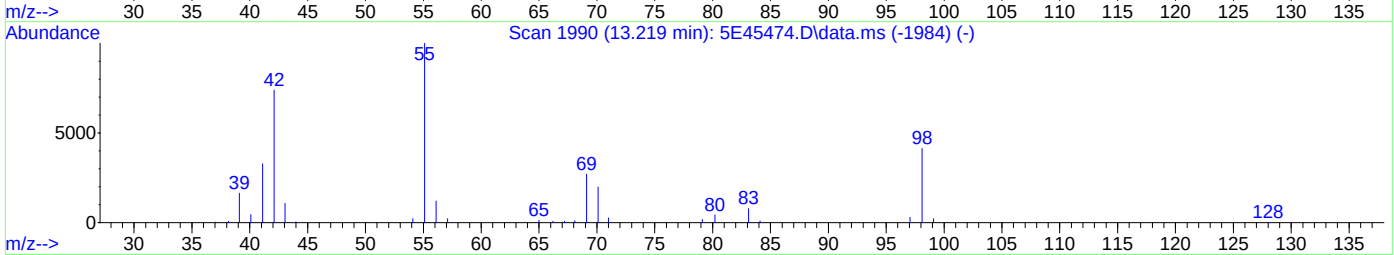
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.215min (-13.215) 0.00ug/L

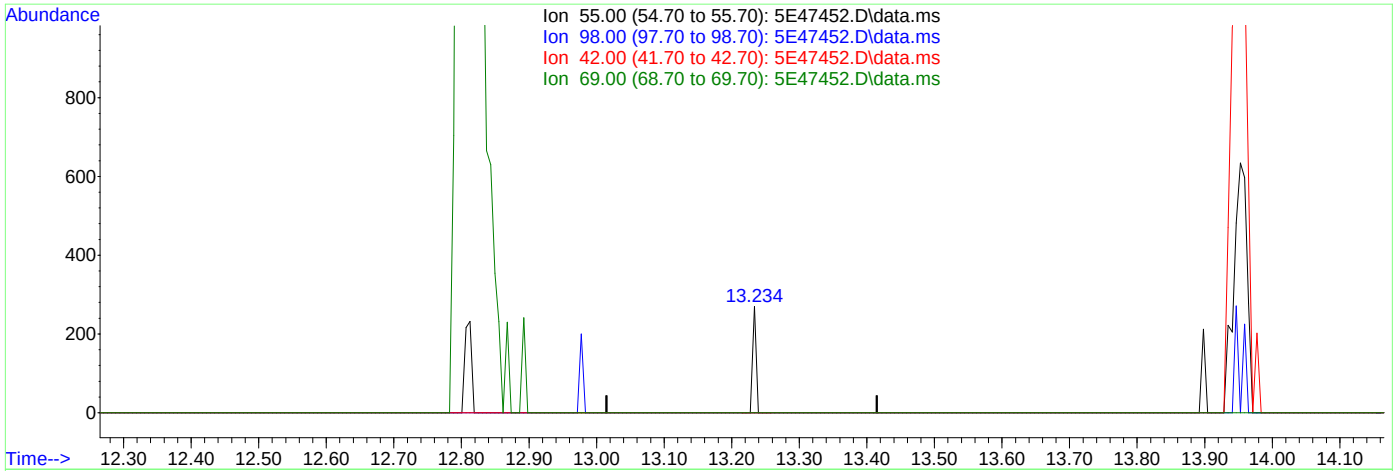
response 0

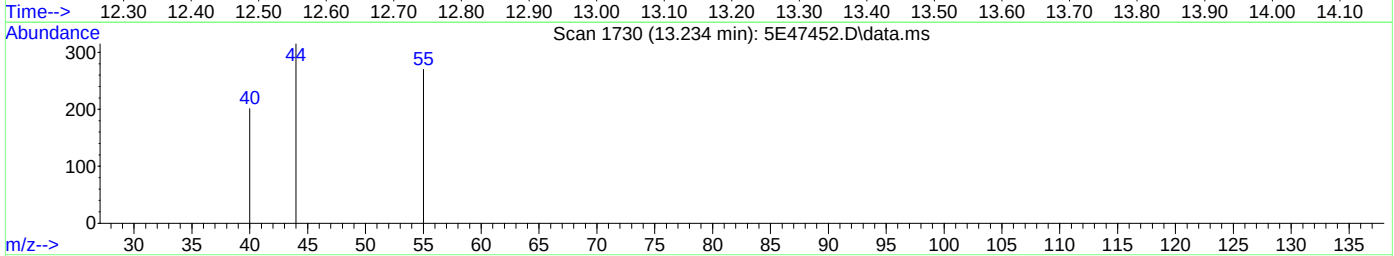
Ion	Exp%	Act%
55.00	100	0.00
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

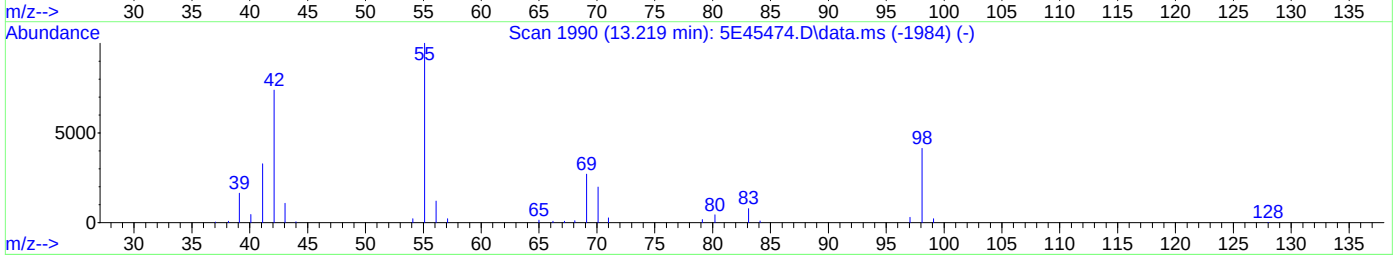
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(95) Cyclohexanone

13.234min (+0.019) 2.03ug/L m

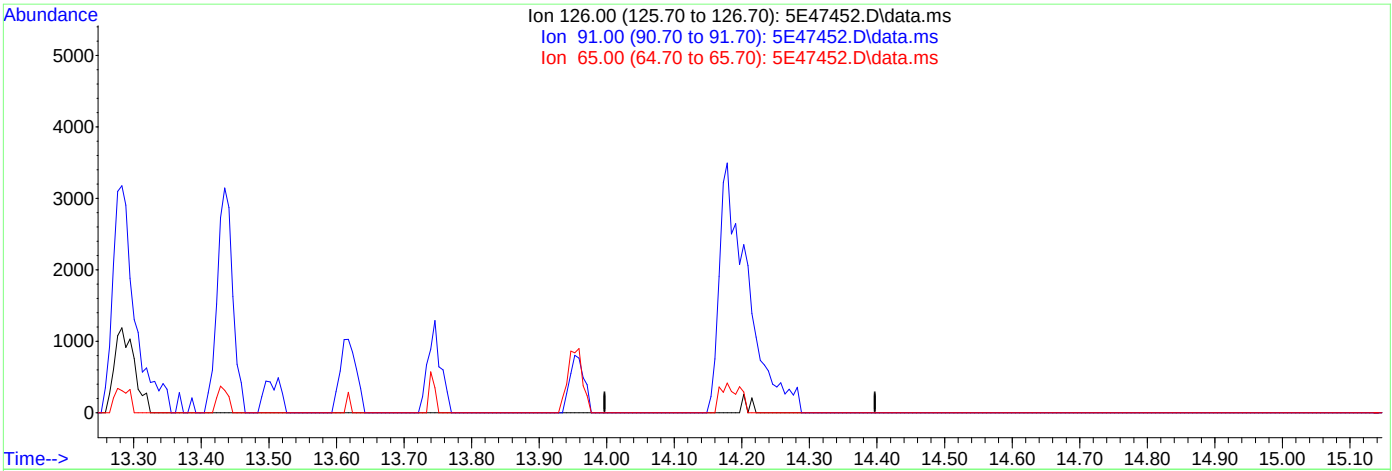
response 99

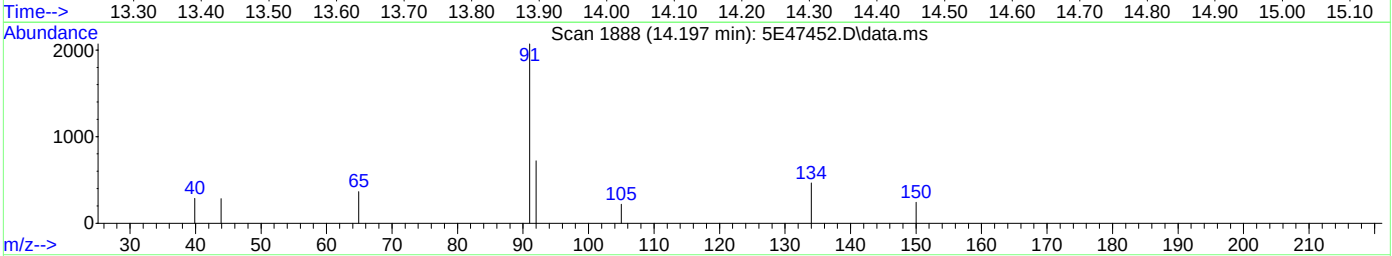
Ion	Exp%	Act%
55.00	100	100
98.00	46.70	0.00#
42.00	76.60	0.00#
69.00	32.50	0.00#

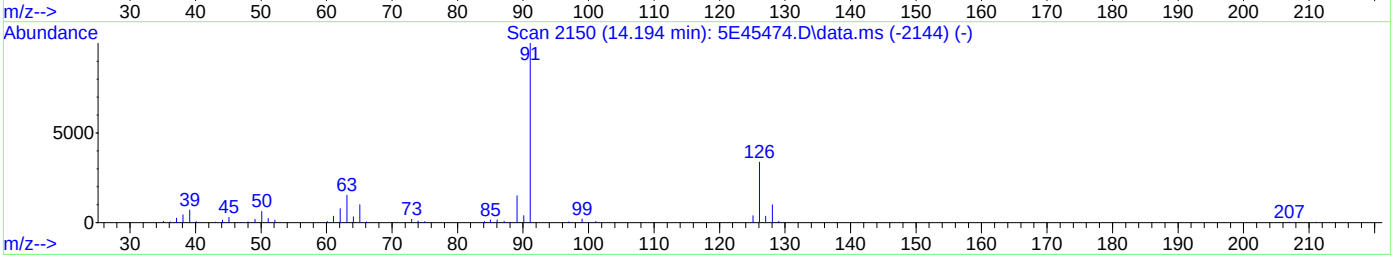
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.197min (-14.197) 0.00ug/L

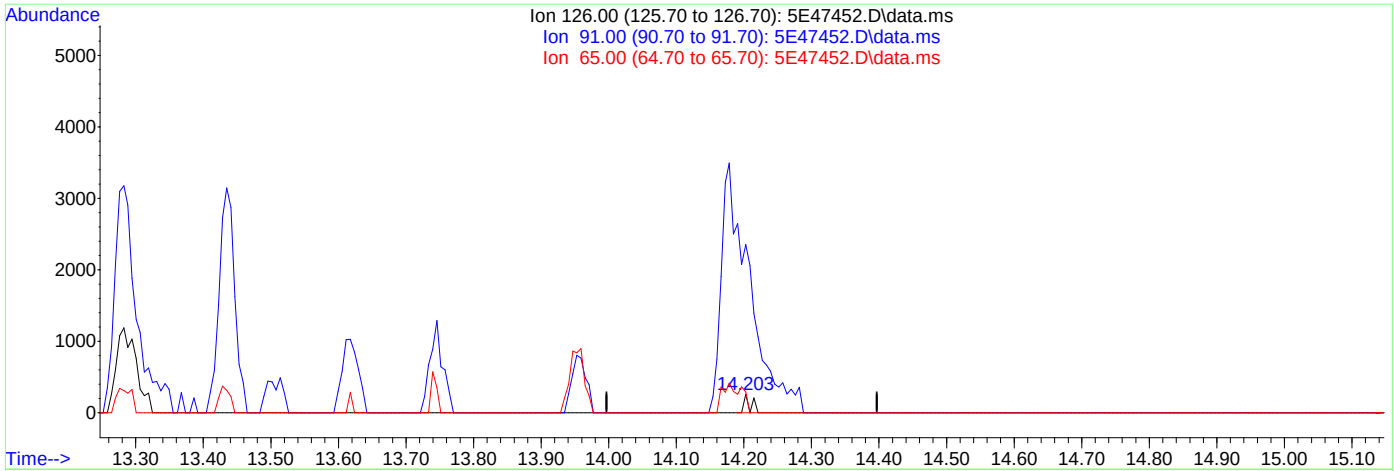
response 0

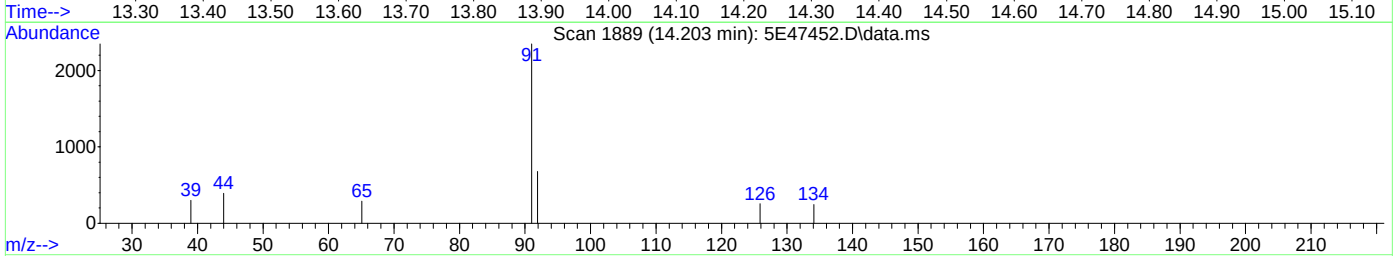
Ion	Exp%	Act%
126.00	100	0.00
91.00	487.50	0.00#
65.00	53.50	0.00#
0.00	0.00	0.00

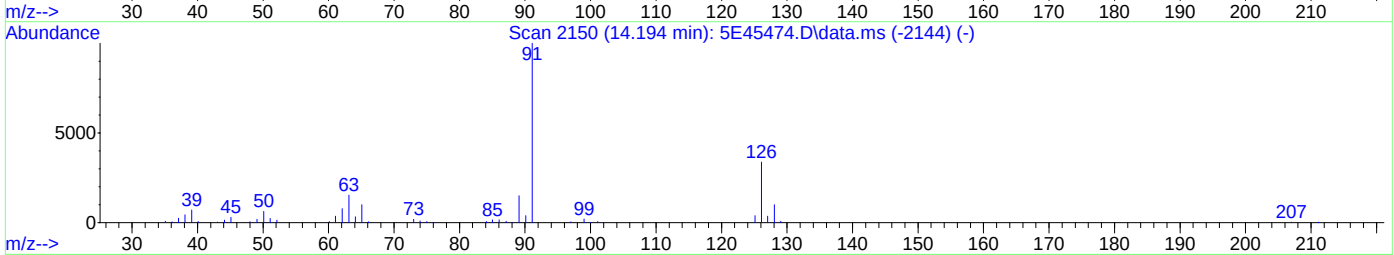
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(107) Benzyl Chloride

14.203min (+0.006) 0.21ug/L m

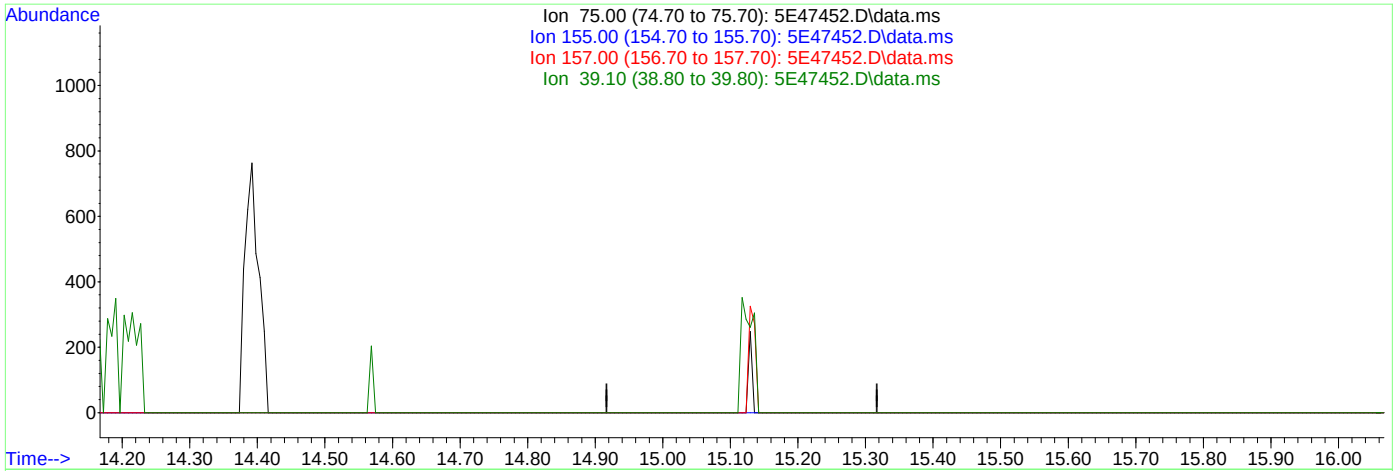
response 94

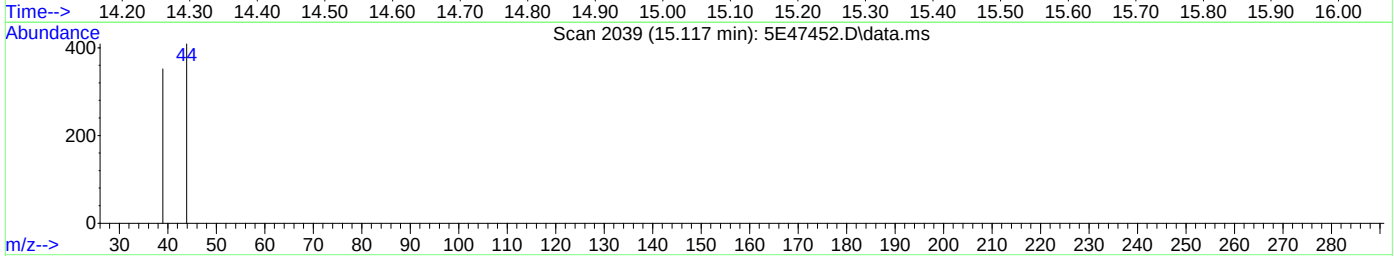
Ion	Exp%	Act%
126.00	100	100
91.00	487.50	914.40#
65.00	53.50	112.06#
0.00	0.00	0.00

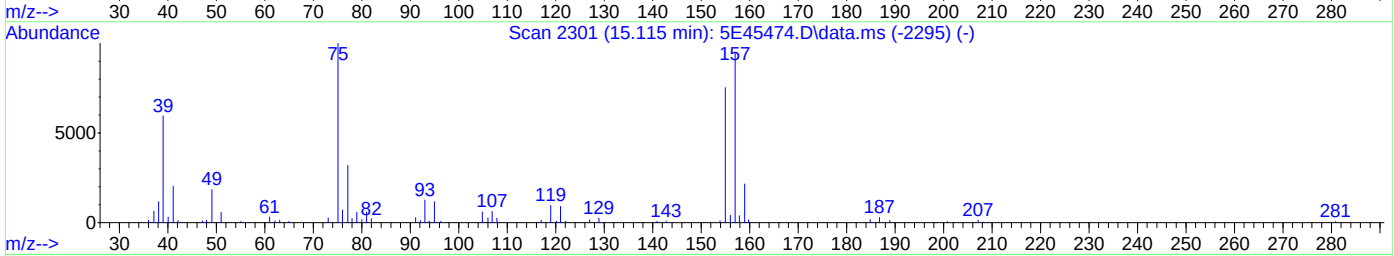
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.117min (-15.117) 0.00ug/L

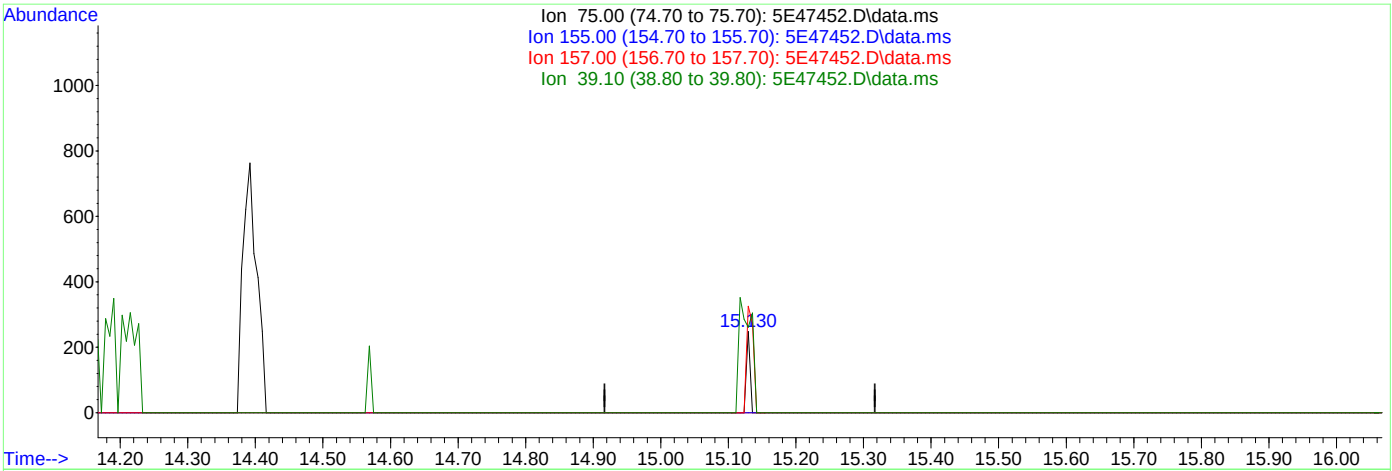
response 0

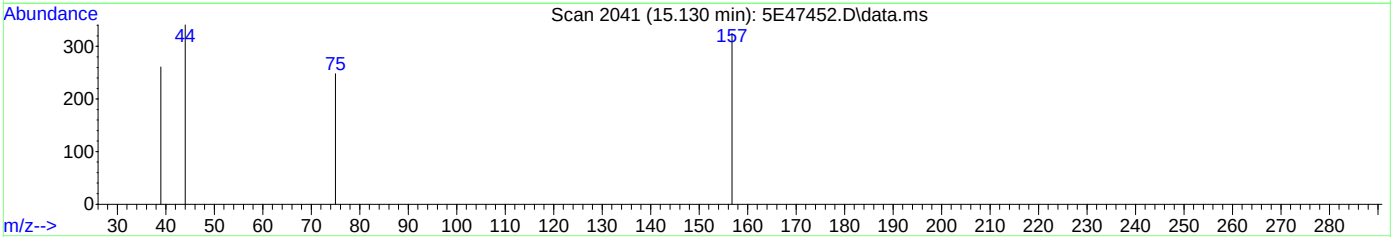
Ion	Exp%	Act%
75.00	100	0.00
155.00	105.70	0.00#
157.00	132.70	0.00#
39.10	93.90	0.00#

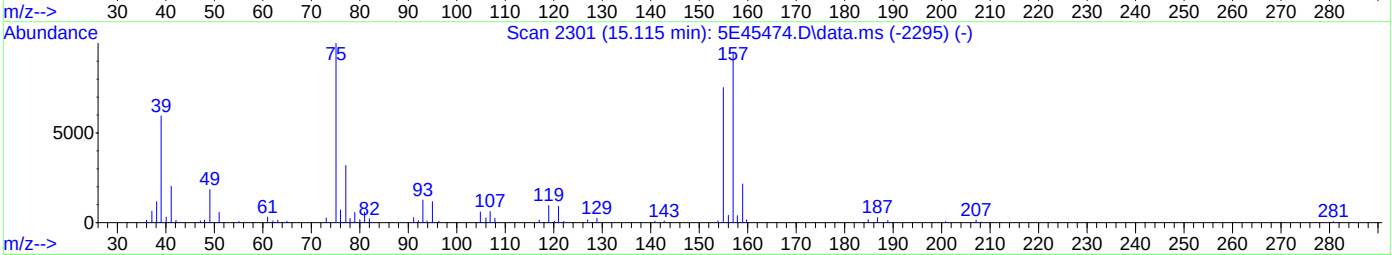
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47452.D
Acq On : 25 Jun 2024 1:12 pm
Operator : lianatr
Sample : IC2113-8
Misc : MS56906,V5E2113,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 13:31:48 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:23:44 2024
Response via : Initial Calibration







TIC: 5E47452.D\data.ms

(109) 1,2-Dibromo-3-Chloropropane

15.130min (+0.012) 0.43ug/L m

response 91

Ion	Exp%	Act%
75.00	100	100
155.00	105.70	0.00#
157.00	132.70	131.05
39.10	93.90	105.24

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	377470	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	245163	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	120377	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	96313	47.36	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.72%				
49) 1,2-Dichloroethane-d4	8.180	65	109007	50.13	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.26%				
62) Toluene-d8	10.033	98	354445	54.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.82%				
86) 4-Bromofluorobenzene	12.807	95	103322	53.87	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.74%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	5708	4.49	ug/L		95
3) Chloromethane	3.132	50	9542	5.10	ug/L		94
4) Vinyl Chloride	3.266	62	11666	5.06	ug/L		90
5) 1,3-Butadiene	3.296	39	21371	8.24	ug/L		99
6) Bromomethane	3.772	94	7185	4.16	ug/L		89
7) Chloroethane	3.949	64	7700	4.92	ug/L		94
8) Trichlorofluoromethane	4.162	101	10615	4.49	ug/L		95
9) Ethyl Ether	4.583	59	5017	4.96	ug/L		95
10) Ethanol	4.772	45	165m	11.89	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	5416	4.96	ug/L		85
12) 1,1-Dichloroethene	4.863	61	9093	4.84	ug/L		89
13) Freon 113	4.906	101	5764	4.47	ug/L		92
14) Carbon Disulfide	4.924	76	18266	4.65	ug/L		98
15) Iodomethane	5.064	142	4344	2.07	ug/L		86
16) Acrolein	5.302	56	6380	24.51	ug/L		97
17) Allyl chloride	5.461	41	12342	5.83	ug/L		93
18) Methylene Chloride	5.589	49	15003	7.12	ug/L		86
19) Acetone	5.656	43	15835	26.46	ug/L		95
20) Methyl acetate	5.784	43	32433	19.93	ug/L		94
21) trans-1,2-Dichloroethene	5.790	61	8725	3.96	ug/L		91
22) Hexane	5.875	56	5834	5.28	ug/L	#	88
23) Methyl Tert Butyl Ether	5.894	73	16666	4.67	ug/L		95
24) Acetonitrile	6.217	41	12424	52.42	ug/L		95
25) Di-isopropyl ether	6.320	45	22875	5.29	ug/L		97
26) Chloroprene	6.491	53	9102	5.39	ug/L		89
27) 1,1-Dichloroethane	6.521	63	11797	4.92	ug/L		99
28) Acrylonitrile	6.582	53	19371	30.89	ug/L		90
29) ETBE	6.741	59	17238	4.67	ug/L		96
30) Tert Butyl Alcohol	5.973	59	11383	47.21	ug/L		70
31) Vinyl acetate	6.771	43	79611	21.83	ug/L		97
32) cis-1,2-Dichloroethene	7.131	96	6751	4.69	ug/L		91
33) 2,2-Dichloropropane	7.247	77	7767	4.63	ug/L		97
34) Bromochloromethane	7.357	128	3131	4.74	ug/L		86
35) Cyclohexane	7.363	56	11206	4.99	ug/L		89
36) Chloroform	7.412	83	11025	4.74	ug/L		92
37) Ethyl acetate	7.503	43	53813	28.70	ug/L		97
38) Tetrahydrofuran	7.601	42	4806	6.84	ug/L		90
40) Carbon Tetrachloride	7.588	117	6215	4.61	ug/L		93
41) 1,1,1-Trichloroethane	7.655	97	8174	4.52	ug/L		95
42) 2-Butanone	7.735	43	25222	28.08	ug/L		99
43) 1,1-Dichloropropene	7.783	75	7671	4.47	ug/L		97
44) tert-Butyl formate	7.875	59	11807	39.99	ug/L	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	16259	61.82	ug/L		87
46) Methacrylonitrile	8.070	41	70791	60.91	ug/L		98
47) Benzene	8.046	78	26538	4.70	ug/L		96
48) TAME	8.119	73	16457	4.47	ug/L		88
50) 1,2-Dichloroethane	8.253	62	7992	4.85	ug/L		90
51) tert Amyl alcohol	8.283	59	7732	45.86	ug/L		86
52) Trichloroethene	8.643	95	6929	4.81	ug/L		96
53) Methylcyclohexane	8.637	83	10381	3.56	ug/L		95
54) Dibromomethane	9.088	93	3732	3.70	ug/L		87
55) 1,2-Dichloropropane	9.173	63	6410	5.05	ug/L		96
56) Bromodichloromethane	9.222	83	6799	3.62	ug/L		95
57) Methyl methacrylate	9.332	41	7237	4.83	ug/L	#	85
58) 1,4-Dioxane	9.411	88	1300	73.90	ug/L	#	76
59) 2-Chloroethyl vinyl ether	9.753	63	13103	23.52	ug/L		92
60) cis-1,3-Dichloropropene	9.850	75	7253	3.28	ug/L		97
63) Toluene	10.088	91	26166	5.08	ug/L		98
64) Isobutyl alcohol	8.174	43	9436m	116.20	ug/L		
65) 2-Nitropropane	10.313	41	5742	31.72	ug/L		92
66) 4-Methyl-2-pentanone	10.423	43	55295	29.64	ug/L		95
67) trans-1,3-Dichloropropene	10.490	75	6074	3.47	ug/L		94
68) Tetrachloroethene	10.490	166	6206	4.57	ug/L		97
69) Ethyl methacrylate	10.600	69	7477	4.55	ug/L		91
70) 1,1,2-Trichloroethane	10.655	83	4866	5.41	ug/L		89
71) Dibromochloromethane	10.844	129	4285	3.76	ug/L		96
72) 1,3-Dichloropropane	10.935	76	8971	5.57	ug/L		85
73) 1,2-Dibromoethane	11.118	107	4747	4.87	ug/L		99
74) 3,3-Dimethyl-1-butanol	11.191	57	18499	292.02	ug/L		96
75) 2-hexanone	11.252	43	33711	27.09	ug/L		97
76) 1-Chlorohexane	11.545	91	7281	4.82	ug/L		88
77) Ethylbenzene	11.606	91	29965	4.99	ug/L		92
78) Chlorobenzene	11.612	112	16262	4.90	ug/L		87
79) 1,1,1,2-Tetrachloroethane	11.661	131	4309	4.44	ug/L		91
80) m,p-Xylene	11.746	91	41597	9.50	ug/L		99
81) o-Xylene	12.191	91	19764	4.80	ug/L		98
82) Styrene	12.246	104	12750	4.64	ug/L		95
83) Bromoform	12.307	173	2379	2.86	ug/L		81
84) Isopropylbenzene	12.490	105	24252	5.05	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.856	53	1207	3.05	ug/L	#	52
88) n-Propylbenzene	12.917	91	30015	5.65	ug/L		96
89) Bromobenzene	12.941	156	5599	5.44	ug/L		86
90) 1,1,2,2-Tetrachloroethane	12.977	83	7595	5.60	ug/L		91
91) 1,3,5-Trimethylbenzene	13.087	105	17700	5.23	ug/L		94
92) 2-Chlorotoluene	13.106	91	19230	5.61	ug/L		96
93) trans-1,4-Dichloro-2-B...	13.179	53	685	2.01	ug/L	#	35
94) 1,2,3-Trichloropropane	13.148	110	1799	5.40	ug/L		93
95) Cyclohexanone	13.227	55	1048	23.58	ug/L	#	86
96) 4-Chlorotoluene	13.276	91	16725	5.68	ug/L		93
98) tert-Butylbenzene	13.435	91	10999	5.89	ug/L		95
99) 1,2,4-Trimethylbenzene	13.502	105	16936	5.20	ug/L		95
100) Pentachloroethane	13.490	167	2531	5.29	ug/L		87
101) sec-Butylbenzene	13.618	105	24060	5.62	ug/L		97
102) 4-Isopropyltoluene	13.746	119	17173	5.16	ug/L		96
103) 1,3-Dichlorobenzene	13.892	146	10536	5.40	ug/L		95
104) 1,2,3-Trimethylbenzene	13.959	105	18816	5.06	ug/L		85
105) 1,4-Dichlorobenzene	13.971	146	11939	5.31	ug/L		90
106) n-Butylbenzene	14.172	92	8442	5.10	ug/L		93
107) Benzyl Chloride	14.203	126	978	2.20	ug/L	#	77
108) 1,2-Dichlorobenzene	14.392	146	8881	4.99	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration

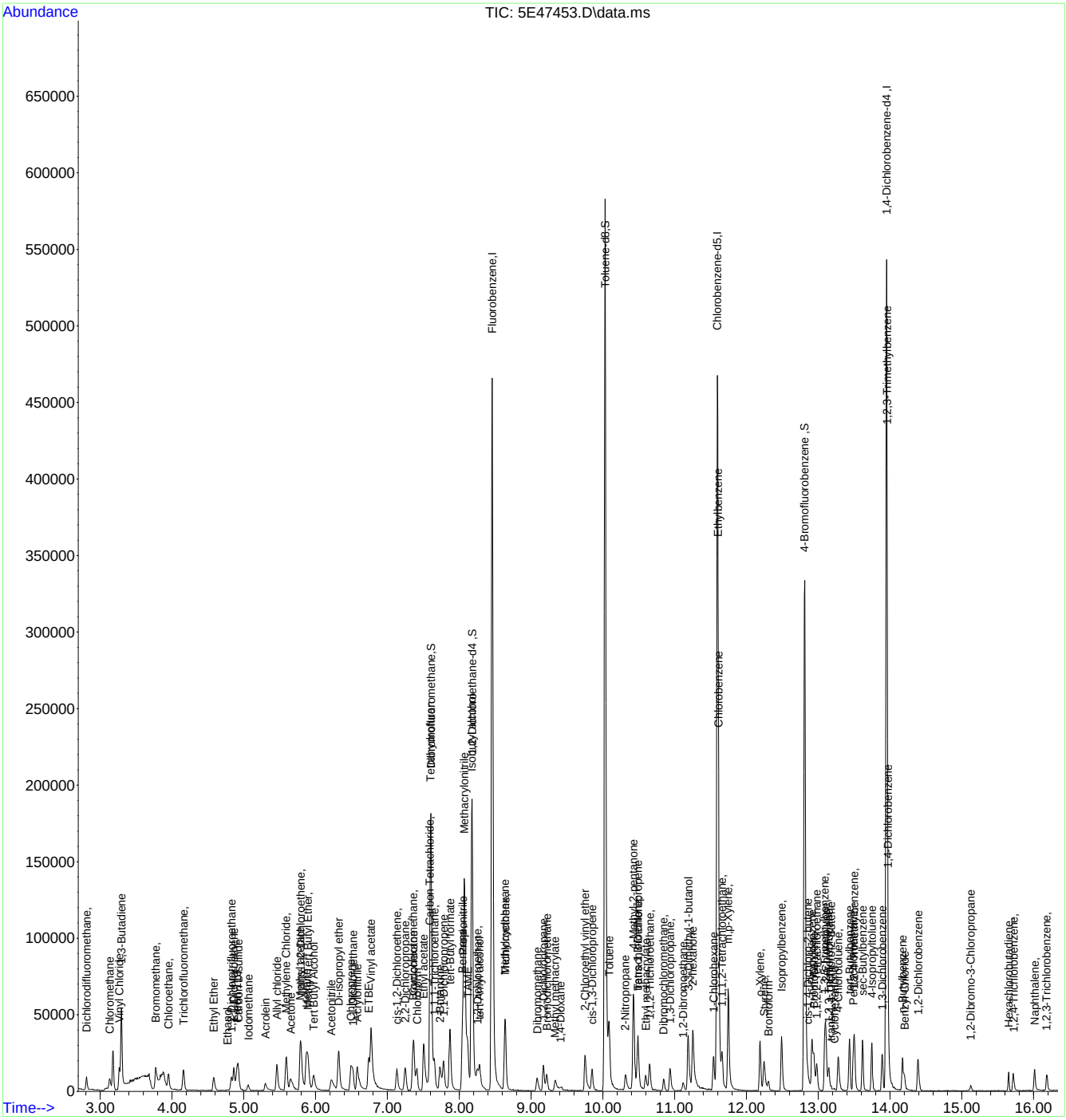
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	753	3.52	ug/L #	65
110) Hexachlorobutadiene	15.654	225	2036	5.50	ug/L	87
111) 1,2,4-Trichlorobenzene	15.721	180	4613	5.10	ug/L	92
112) Naphthalene	16.013	128	12788	5.14	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	4425	5.38	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56909,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:54:55 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47453.D
Injection Time: 06/25/24 13:34

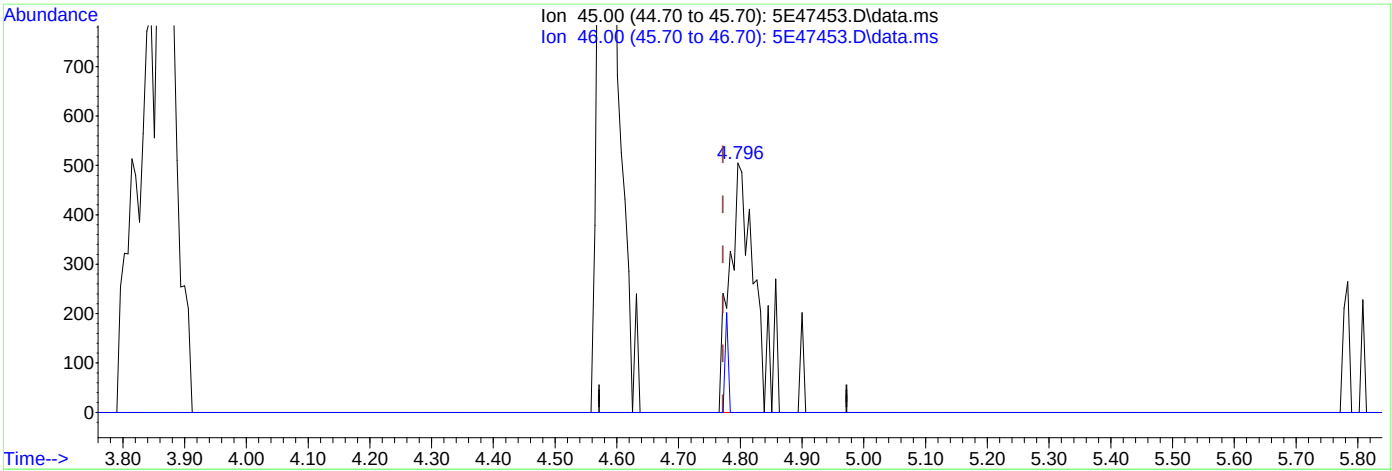
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

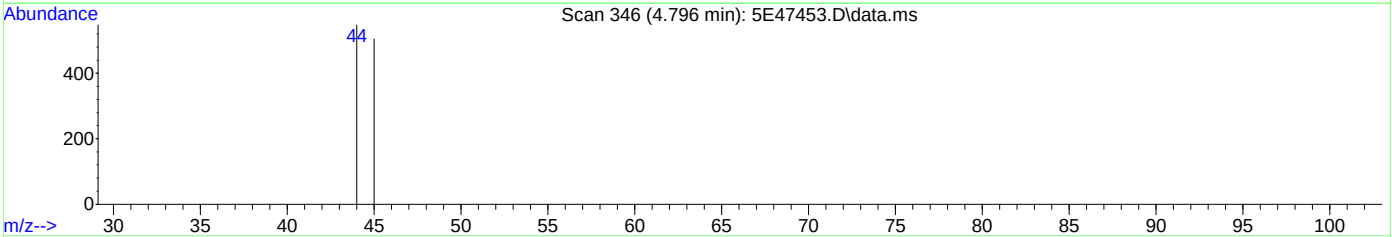
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.77	Missed peak
Isobutyl Alcohol	78-83-1		8.17	Missed peak

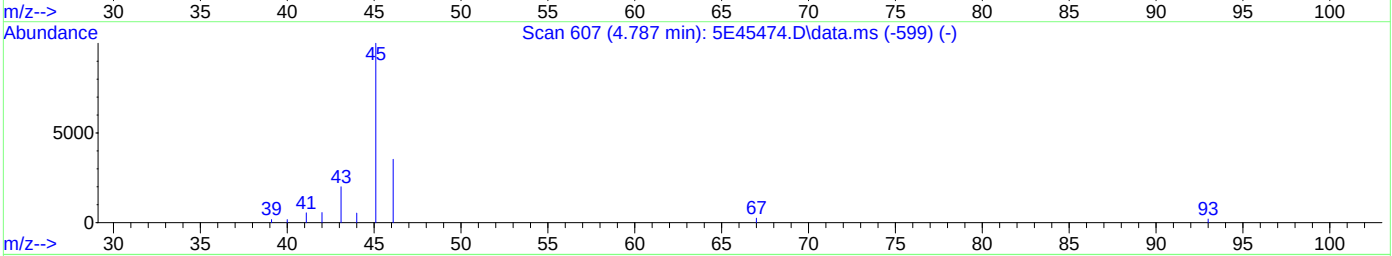
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.796min (+0.024) 90.31ug/L

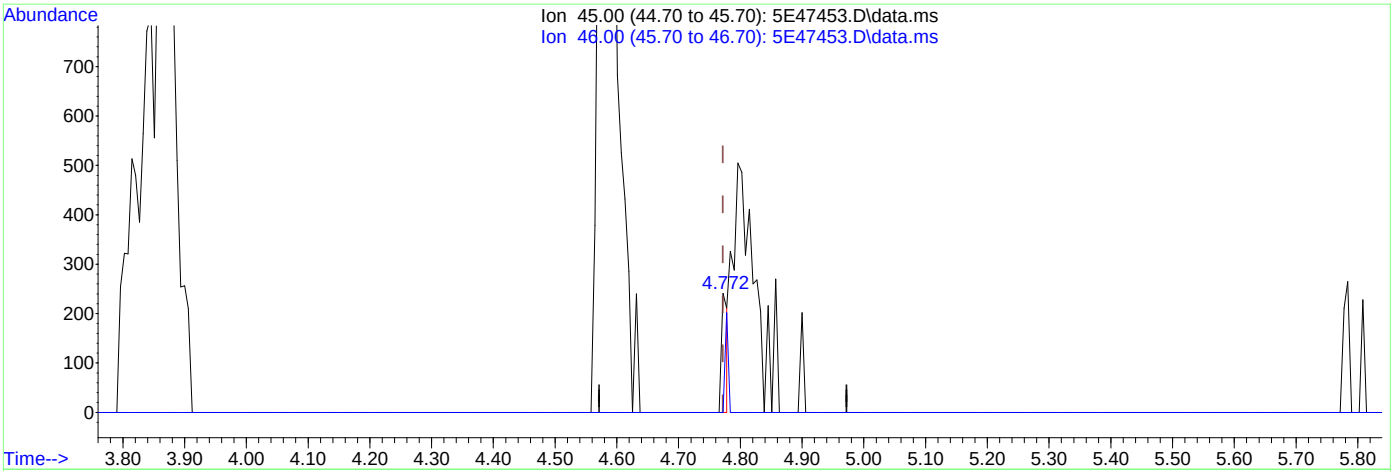
response 1287

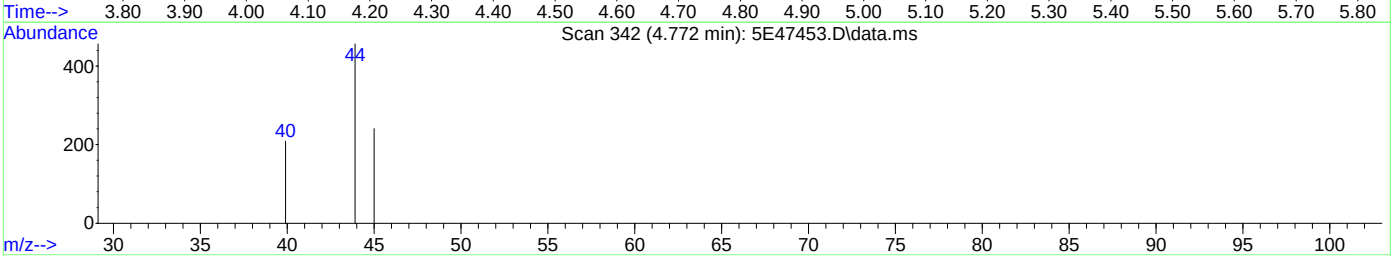
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

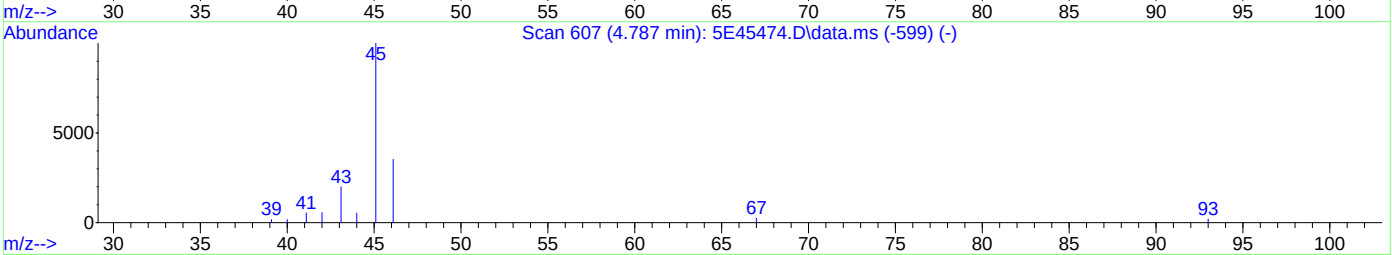
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(10) Ethanol

4.772min (-0.000) 11.89ug/L m

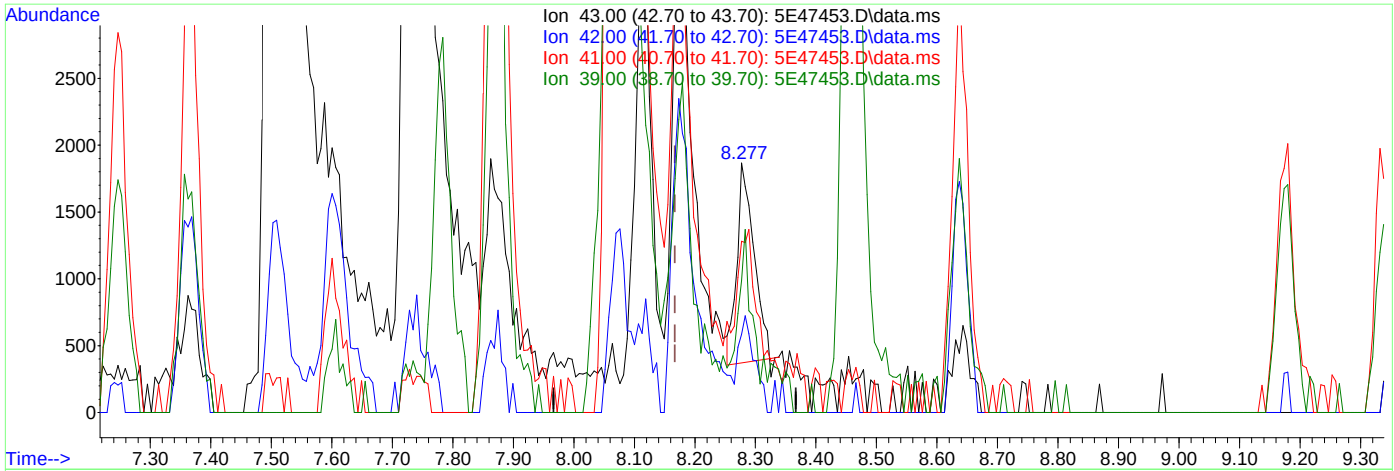
response 165

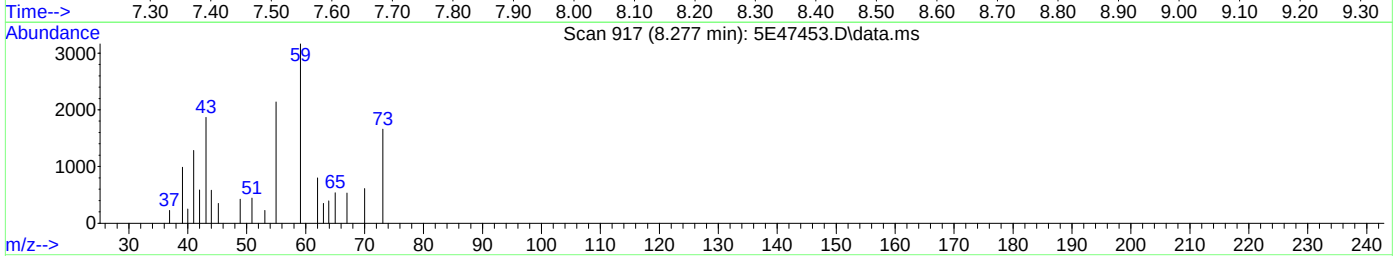
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

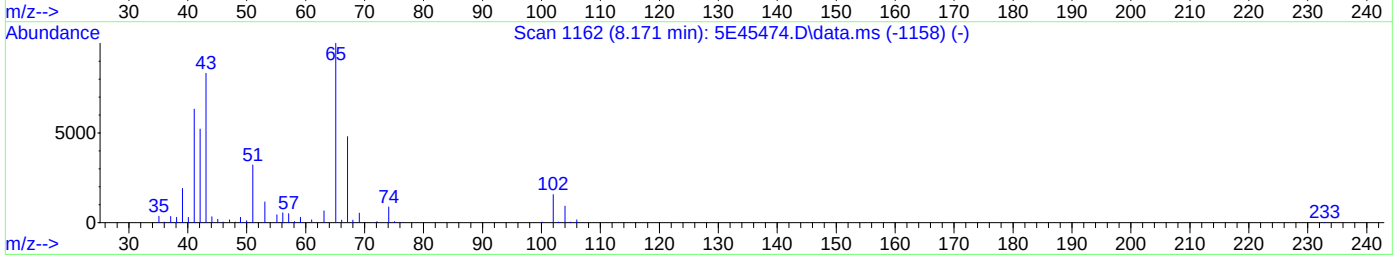
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.277min (+0.110) 35.73ug/L

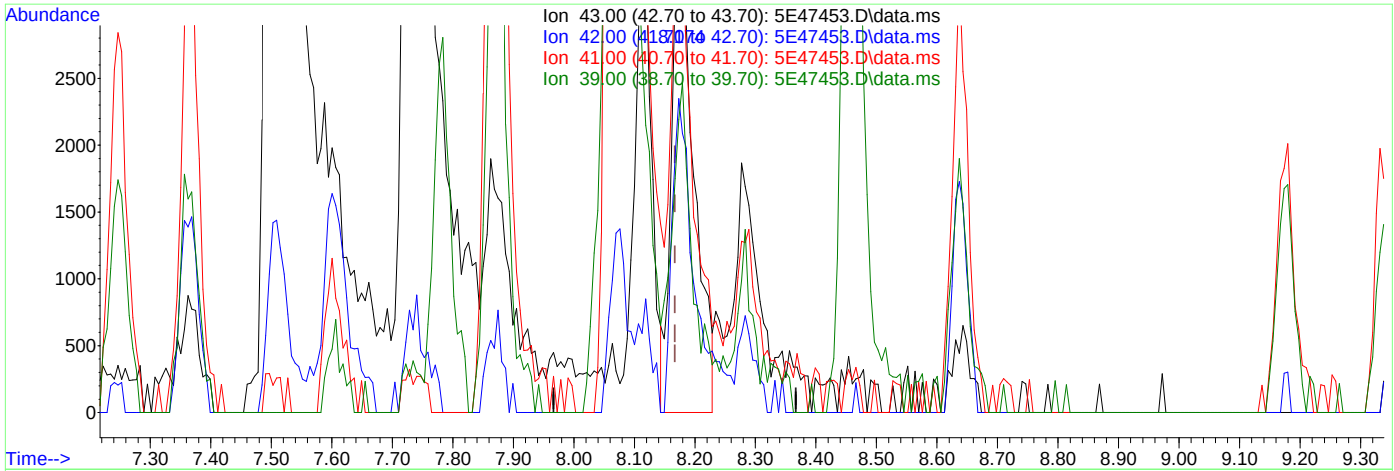
response 2901

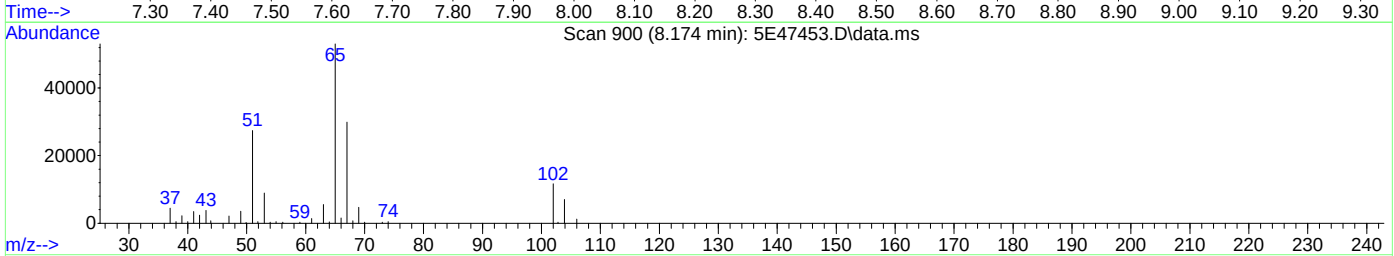
Ion	Exp%	Act%
43.00	100	100
42.00	59.60	40.26
41.00	72.00	66.69
39.00	30.20	45.63

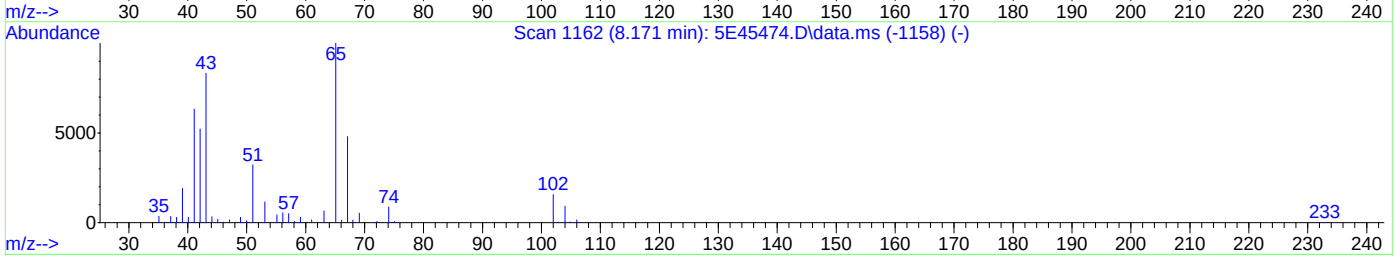
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47453.D
Acq On : 25 Jun 2024 1:34 pm
Operator : lianatr
Sample : IC2113-2
Misc : MS56906,V5E2113,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 13:51:35 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:35:25 2024
Response via : Initial Calibration







TIC: 5E47453.D\data.ms

(64) Isobutyl alcohol

8.174min (+0.007) 116.20ug/L m

response 9436

Ion	Exp%	Act%
43.00	100	100
42.00	59.60	62.75
41.00	72.00	91.61
39.00	30.20	58.52#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/26/24 08:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	8.460	96	379829	50.00	ug/L		0.00
61) Chlorobenzene-d5	11.594	117	241895	50.00	ug/L		0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	124924	50.00	ug/L		0.00
System Monitoring Compounds							
39) Dibromofluoromethane	7.607	113	97578	48.06	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.12%				
49) 1,2-Dichloroethane-d4	8.180	65	112652	51.18	ug/L		0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.36%				
62) Toluene-d8	10.033	98	355667	54.88	ug/L		0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.76%				
86) 4-Bromofluorobenzene	12.813	95	107132	53.67	ug/L		0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.809	85	11705	8.78	ug/L		94
3) Chloromethane	3.138	50	19195	9.43	ug/L		100
4) Vinyl Chloride	3.266	62	24199	9.68	ug/L		93
5) 1,3-Butadiene	3.297	39	37209	13.87	ug/L		94
6) Bromomethane	3.772	94	15436	8.59	ug/L		94
7) Chloroethane	3.949	64	17288	9.96	ug/L		97
8) Trichlorofluoromethane	4.162	101	21177	8.41	ug/L		99
9) Ethyl Ether	4.583	59	12210	10.97	ug/L		95
10) Ethanol	4.784	45	1275m	90.91	ug/L		
11) 1,2-Dichlorotrifluoroe...	4.827	67	11893	9.82	ug/L		90
12) 1,1-Dichloroethene	4.863	61	20694	9.98	ug/L		93
13) Freon 113	4.906	101	14287	10.10	ug/L		91
14) Carbon Disulfide	4.924	76	39363	9.28	ug/L		94
15) Iodomethane	5.064	142	13212	6.25	ug/L		96
16) Acrolein	5.296	56	12383	44.28	ug/L		83
17) Allyl chloride	5.461	41	20883	9.26	ug/L		97
18) Methylene Chloride	5.595	49	28851	13.43	ug/L		92
19) Acetone	5.644	43	31834	48.80	ug/L		97
20) Methyl acetate	5.784	43	78174	47.24	ug/L		96
21) trans-1,2-Dichloroethene	5.796	61	20388	9.09	ug/L		97
22) Hexane	5.875	56	13075	10.58	ug/L	#	84
23) Methyl Tert Butyl Ether	5.894	73	39046	10.02	ug/L		95
24) Acetonitrile	6.217	41	24353	100.93	ug/L		99
25) Di-isopropyl ether	6.320	45	55161	11.32	ug/L		96
26) Chloroprene	6.491	53	16198	9.07	ug/L		87
27) 1,1-Dichloroethane	6.521	63	28538	10.75	ug/L		96
28) Acrylonitrile	6.576	53	31019	43.77	ug/L		94
29) ETBE	6.741	59	43087	10.65	ug/L		92
30) Tert Butyl Alcohol	5.973	59	27324	105.16	ug/L		89
31) Vinyl acetate	6.771	43	159644	42.96	ug/L		100
32) cis-1,2-Dichloroethene	7.125	96	16012	10.18	ug/L		92
33) 2,2-Dichloropropane	7.253	77	17396	9.58	ug/L		96
34) Bromochloromethane	7.351	128	7320	10.36	ug/L	#	73
35) Cyclohexane	7.369	56	25916	10.45	ug/L		92
36) Chloroform	7.412	83	25943	10.23	ug/L		94
37) Ethyl acetate	7.503	43	103526	48.69	ug/L		96
38) Tetrahydrofuran	7.601	42	10617	13.07	ug/L		80
40) Carbon Tetrachloride	7.588	117	14626	10.00	ug/L		93
41) 1,1,1-Trichloroethane	7.649	97	19725	10.02	ug/L		95
42) 2-Butanone	7.729	43	55149	56.13	ug/L		98
43) 1,1-Dichloropropene	7.783	75	18602	10.02	ug/L		95
44) tert-Butyl formate	7.875	59	31553	98.87	ug/L	#	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	32278	110.38	ug/L		90
46)	Methacrylonitrile	8.070	41	141465	109.75	ug/L		98
47)	Benzene	8.046	78	60515	9.76	ug/L		98
48)	TAME	8.113	73	39757	9.96	ug/L		95
50)	1,2-Dichloroethane	8.253	62	19339	10.65	ug/L		92
51)	tert Amyl alcohol	8.283	59	19707	108.39	ug/L		90
52)	Trichloroethene	8.643	95	14999	9.56	ug/L		98
53)	Methylcyclohexane	8.637	83	24377	8.24	ug/L		98
54)	Dibromomethane	9.082	93	9327	9.10	ug/L		93
55)	1,2-Dichloropropane	9.173	63	15169	10.73	ug/L		94
56)	Bromodichloromethane	9.222	83	16685	8.75	ug/L		96
57)	Methyl methacrylate	9.332	41	14788	9.69	ug/L		97
58)	1,4-Dioxane	9.417	88	3141	187.21	ug/L		96
59)	2-Chloroethyl vinyl ether	9.753	63	33010	55.20	ug/L		97
60)	cis-1,3-Dichloropropene	9.850	75	19302	8.61	ug/L		96
63)	Toluene	10.088	91	60234	10.69	ug/L		100
64)	Isobutyl alcohol	8.174	43	18482	211.37	ug/L		94
65)	2-Nitropropane	10.313	41	13158	65.81	ug/L		91
66)	4-Methyl-2-pentanone	10.423	43	109816	53.53	ug/L		94
67)	trans-1,3-Dichloropropene	10.484	75	16762	9.62	ug/L		92
68)	Tetrachloroethene	10.490	166	13965	9.58	ug/L		90
69)	Ethyl methacrylate	10.588	69	16104	9.82	ug/L		95
70)	1,1,2-Trichloroethane	10.655	83	11417	11.52	ug/L		96
71)	Dibromochloromethane	10.844	129	10265	9.04	ug/L		96
72)	1,3-Dichloropropane	10.935	76	21905	12.39	ug/L		93
73)	1,2-Dibromoethane	11.118	107	12531	11.91	ug/L		86
74)	3,3-Dimethyl-1-butanol	11.185	57	45855	626.28	ug/L		93
75)	2-hexanone	11.252	43	74293	55.16	ug/L		99
76)	1-Chlorohexane	11.539	91	17746	10.88	ug/L		90
77)	Ethylbenzene	11.606	91	65821	10.09	ug/L		95
78)	Chlorobenzene	11.612	112	37393	10.37	ug/L		92
79)	1,1,1,2-Tetrachloroethane	11.661	131	10833	10.41	ug/L		92
80)	m,p-Xylene	11.746	91	96519	20.35	ug/L		99
81)	o-Xylene	12.191	91	48072	10.79	ug/L		97
82)	Styrene	12.240	104	32311	11.01	ug/L		97
83)	Bromoform	12.307	173	5939	7.18	ug/L		96
84)	Isopropylbenzene	12.490	105	54904	10.53	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.856	53	2513	6.62	ug/L		86
88)	n-Propylbenzene	12.911	91	70594	11.36	ug/L		96
89)	Bromobenzene	12.941	156	13495	11.32	ug/L		86
90)	1,1,2,2-Tetrachloroethane	12.978	83	20094	12.76	ug/L		96
91)	1,3,5-Trimethylbenzene	13.093	105	43384	11.13	ug/L		99
92)	2-Chlorotoluene	13.106	91	45863	11.44	ug/L		96
93)	trans-1,4-Dichloro-2-B...	13.173	53	2309	6.62	ug/L	#	52
94)	1,2,3-Trichloropropane	13.142	110	4936	12.66	ug/L		93
95)	Cyclohexanone	13.221	55	2225	47.05	ug/L	#	81
96)	4-Chlorotoluene	13.276	91	38976	11.44	ug/L		99
98)	tert-Butylbenzene	13.435	91	23429	10.65	ug/L		94
99)	1,2,4-Trimethylbenzene	13.502	105	42604	11.31	ug/L		99
100)	Pentachloroethane	13.490	167	5475	10.43	ug/L	#	78
101)	sec-Butylbenzene	13.618	105	53766	10.72	ug/L		96
102)	4-Isopropyltoluene	13.746	119	41702	10.96	ug/L		97
103)	1,3-Dichlorobenzene	13.886	146	24339	10.83	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	46792	10.89	ug/L		95
105)	1,4-Dichlorobenzene	13.971	146	28517	11.04	ug/L		95
106)	n-Butylbenzene	14.172	92	21209	11.01	ug/L		95
107)	Benzyl Chloride	14.197	126	2982	6.42	ug/L	#	52
108)	1,2-Dichlorobenzene	14.392	146	23024	11.30	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration

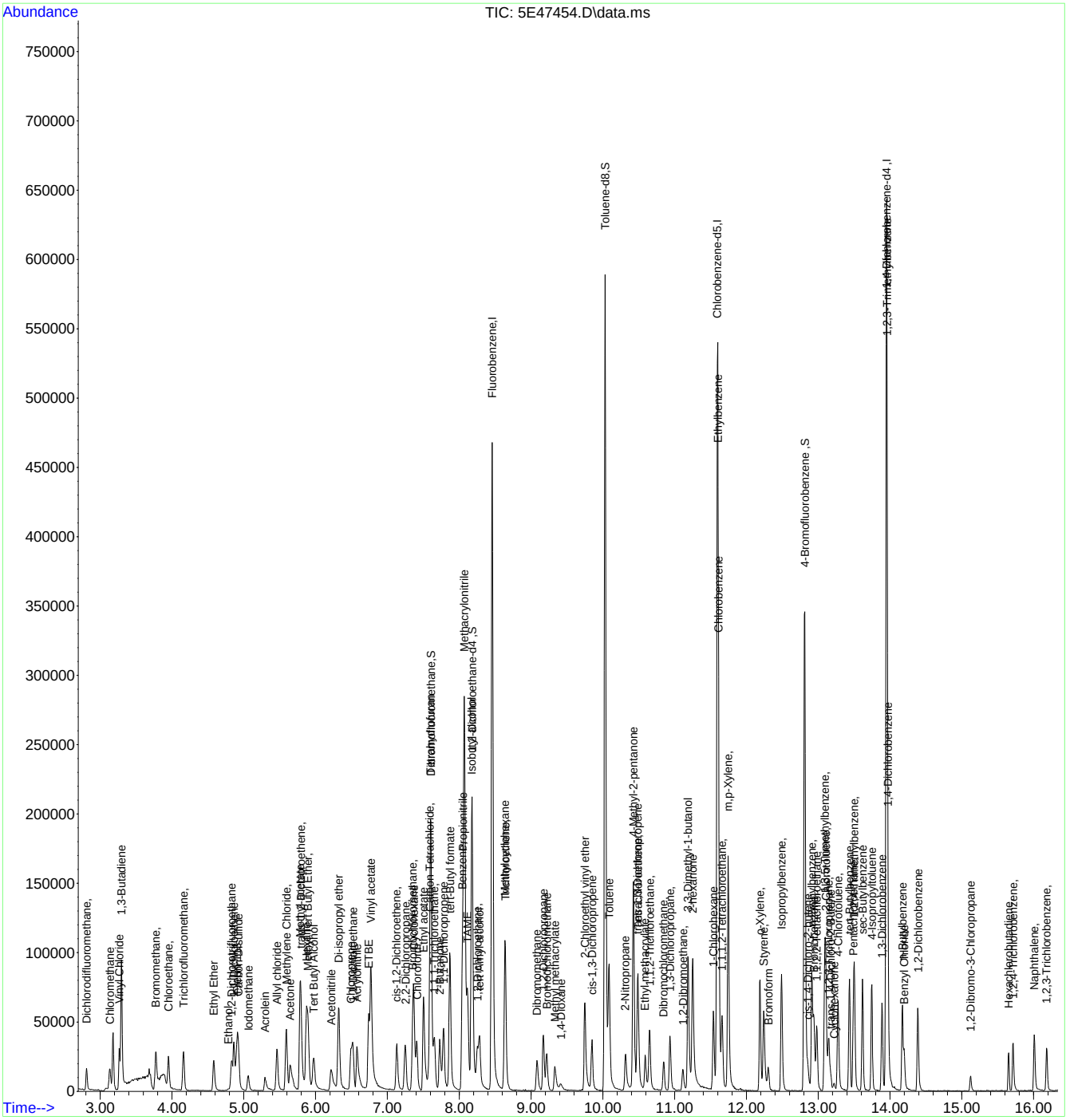
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.123	75	2106	9.38	ug/L	82
110) Hexachlorobutadiene	15.654	225	4184	9.61	ug/L	92
111) 1,2,4-Trichlorobenzene	15.715	180	11197	10.74	ug/L	97
112) Naphthalene	16.007	128	32879	11.62	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	9997	10.59	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56909,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:15:42 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5E2113-IC2113
Lab FileID: 5E47454.D
Injection Time: 06/25/24 13:57

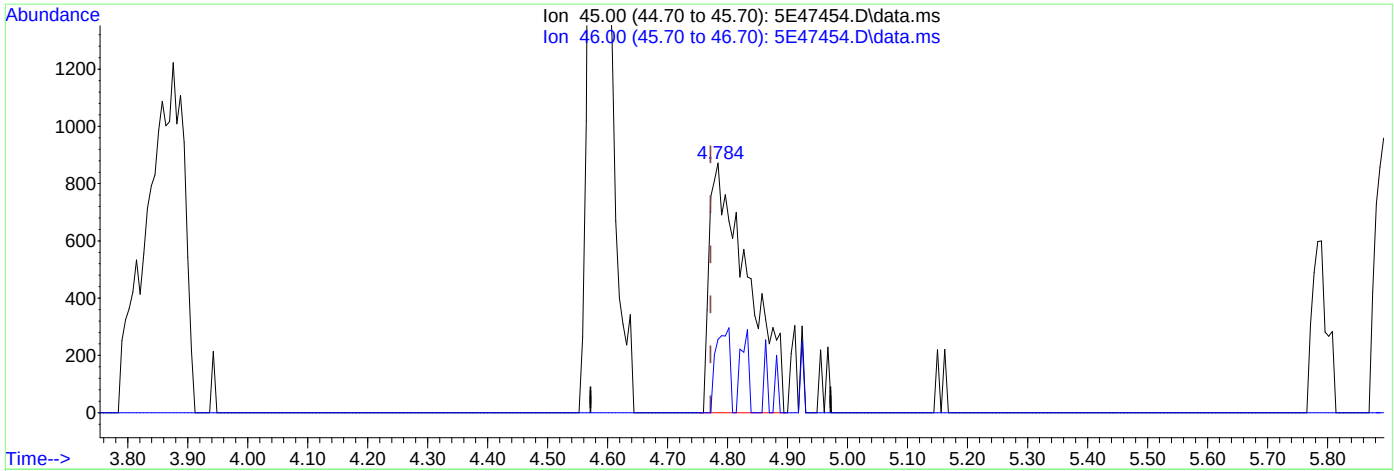
Method: SW846 8260D
Analyst approved: 06/26/24 07:08 Liana Tortrodriguez
Supervisor approved: 06/26/24 08:21 Karen Watson

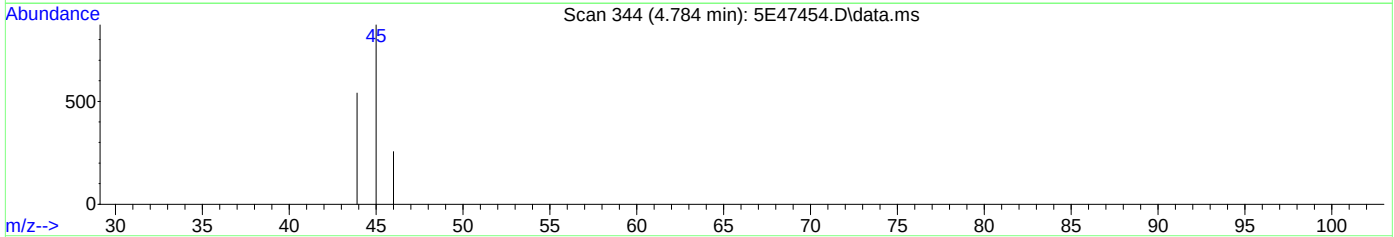
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.78	Missed peak

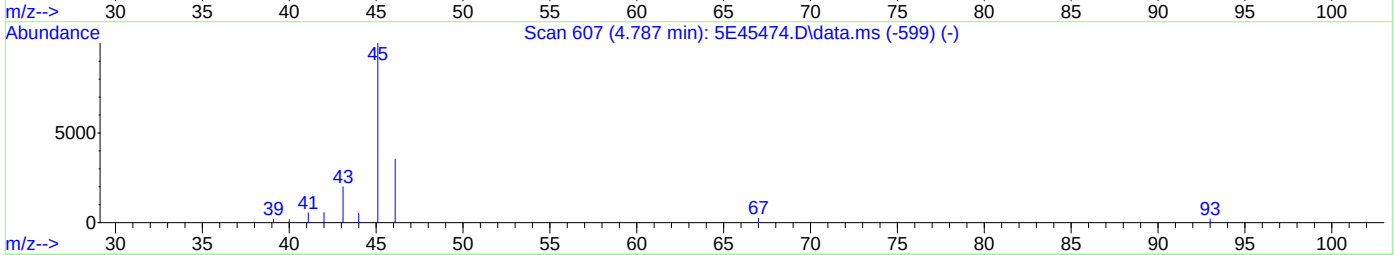
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 262.03ug/L

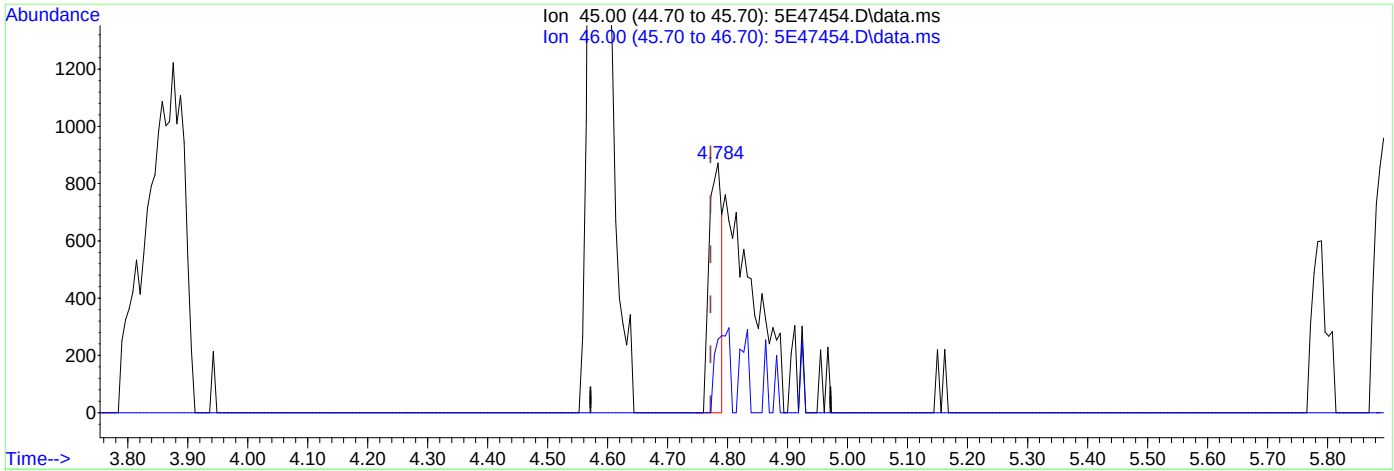
response 3896

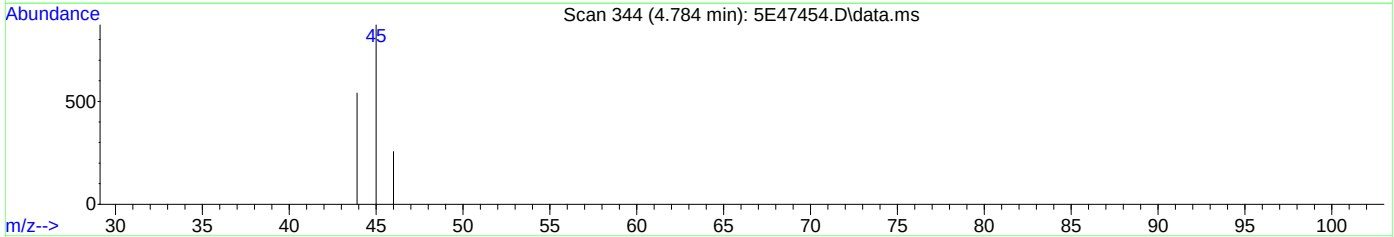
Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

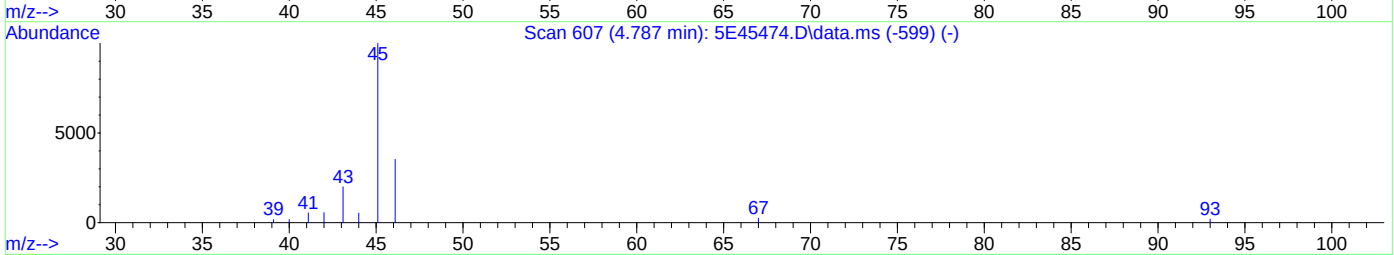
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47454.D
Acq On : 25 Jun 2024 1:57 pm
Operator : lianatr
Sample : IC2113-3
Misc : MS56906,V5E2113,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 14:14:38 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 13:56:41 2024
Response via : Initial Calibration







TIC: 5E47454.D\data.ms

(10) Ethanol

4.784min (+0.012) 90.91ug/L m

response 1275

Ion	Exp%	Act%
45.00	100	100
46.00	40.80	29.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	401373	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	261821	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	136803	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.601	113	102756	48.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.28%			
49) 1,2-Dichloroethane-d4	8.180	65	124516	53.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.08%			
62) Toluene-d8	10.033	98	373330	52.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.52%			
86) 4-Bromofluorobenzene	12.807	95	114004	51.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	28935	21.14	ug/L	98
3) Chloromethane	3.132	50	46452	21.79	ug/L	97
4) Vinyl Chloride	3.266	62	58821	22.41	ug/L	100
5) 1,3-Butadiene	3.296	39	82402	29.39	ug/L	98
6) Bromomethane	3.772	94	37197	19.86	ug/L	98
7) Chloroethane	3.949	64	52286	28.46	ug/L	96
8) Trichlorofluoromethane	4.156	101	55171	21.06	ug/L	98
9) Ethyl Ether	4.583	59	28449	23.54	ug/L	98
10) Ethanol	4.772	45	11571	699.73	ug/L	97
11) 1,2-Dichlorotrifluoroe...	4.833	67	30132	23.31	ug/L	93
12) 1,1-Dichloroethene	4.863	61	48127	21.70	ug/L	97
13) Freon 113	4.900	101	33330	22.04	ug/L	93
14) Carbon Disulfide	4.924	76	91709	20.37	ug/L	97
15) Iodomethane	5.058	142	36119	16.31	ug/L	96
16) Acrolein	5.290	56	38340	132.20	ug/L	98
17) Allyl chloride	5.461	41	54119	22.79	ug/L	95
18) Methylene Chloride	5.589	49	54175	23.55	ug/L	91
19) Acetone	5.644	43	88953	128.77	ug/L	98
20) Methyl acetate	5.778	43	201586	114.36	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	47746	20.06	ug/L	96
22) Hexane	5.875	56	30253	22.78	ug/L #	90
23) Methyl Tert Butyl Ether	5.894	73	95651	22.93	ug/L	93
24) Acetonitrile	6.211	41	65035	254.23	ug/L	96
25) Di-isopropyl ether	6.320	45	127355	23.97	ug/L	96
26) Chloroprene	6.491	53	44528	23.76	ug/L	94
27) 1,1-Dichloroethane	6.515	63	65875	23.00	ug/L	96
28) Acrylonitrile	6.570	53	97594	131.25	ug/L	96
29) ETBE	6.741	59	101826	23.30	ug/L	95
30) Tert Butyl Alcohol	5.973	59	70699	254.70	ug/L	95
31) Vinyl acetate	6.765	43	501239	127.35	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	37886	22.66	ug/L	92
33) 2,2-Dichloropropane	7.247	77	43143	22.39	ug/L	96
34) Bromochloromethane	7.351	128	16872	22.50	ug/L #	81
35) Cyclohexane	7.363	56	62219	23.34	ug/L	93
36) Chloroform	7.405	83	63591	23.47	ug/L	98
37) Ethyl acetate	7.497	43	304269	134.09	ug/L	98
38) Tetrahydrofuran	7.601	42	22433	24.77	ug/L	86
40) Carbon Tetrachloride	7.588	117	36028	21.97	ug/L	94
41) 1,1,1-Trichloroethane	7.655	97	46562	22.12	ug/L	95
42) 2-Butanone	7.722	43	164639	158.01	ug/L	94
43) 1,1-Dichloropropene	7.777	75	45722	23.03	ug/L	95
44) tert-Butyl formate	7.869	59	85524	232.66	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	88740	264.82	ug/L		93
46)	Methacrylonitrile	8.070	41	383620	259.36	ug/L		99
47)	Benzene	8.046	78	144322	21.74	ug/L		96
48)	TAME	8.113	73	100009	23.44	ug/L		89
50)	1,2-Dichloroethane	8.253	62	46593	23.76	ug/L		94
51)	tert Amyl alcohol	8.283	59	51992	265.73	ug/L		94
52)	Trichloroethene	8.637	95	35731	21.38	ug/L		92
53)	Methylcyclohexane	8.637	83	58415	18.63	ug/L		94
54)	Dibromomethane	9.082	93	22429	20.69	ug/L		91
55)	1,2-Dichloropropane	9.173	63	36281	23.82	ug/L		99
56)	Bromodichloromethane	9.216	83	40704	20.14	ug/L		99
57)	Methyl methacrylate	9.326	41	39604	24.49	ug/L		90
58)	1,4-Dioxane	9.417	88	9242	497.54	ug/L		88
59)	2-Chloroethyl vinyl ether	9.746	63	88253	137.03	ug/L		94
60)	cis-1,3-Dichloropropene	9.844	75	48632	20.45	ug/L		97
63)	Toluene	10.088	91	138665	22.28	ug/L		98
64)	Isobutyl alcohol	8.174	43	55959	580.19	ug/L		94
65)	2-Nitropropane	10.313	41	38815	158.39	ug/L		98
66)	4-Methyl-2-pentanone	10.423	43	332968	148.23	ug/L		97
67)	trans-1,3-Dichloropropene	10.484	75	43541	22.92	ug/L		93
68)	Tetrachloroethene	10.484	166	35579	22.53	ug/L		95
69)	Ethyl methacrylate	10.588	69	45271	25.48	ug/L		95
70)	1,1,2-Trichloroethane	10.649	83	28358	25.92	ug/L		97
71)	Dibromochloromethane	10.844	129	27738	22.47	ug/L		99
72)	1,3-Dichloropropane	10.935	76	52225	26.37	ug/L		95
73)	1,2-Dibromoethane	11.112	107	31270	26.83	ug/L		93
74)	3,3-Dimethyl-1-butanol	11.185	57	156635	1556.32	ug/L		97
75)	2-hexanone	11.246	43	232836	157.96	ug/L		96
76)	1-Chlorohexane	11.539	91	45239	25.20	ug/L		92
77)	Ethylbenzene	11.606	91	163735	22.74	ug/L		97
78)	Chlorobenzene	11.612	112	93797	23.63	ug/L		92
79)	1,1,1,2-Tetrachloroethane	11.661	131	27846	24.32	ug/L		90
80)	m,p-Xylene	11.746	91	237154	45.35	ug/L		99
81)	o-Xylene	12.185	91	116904	23.80	ug/L		100
82)	Styrene	12.240	104	83685	25.97	ug/L		95
83)	Bromoform	12.301	173	17901	19.95	ug/L		93
84)	Isopropylbenzene	12.490	105	133987	23.38	ug/L		96
87)	cis-1,4-Dichloro-2-butene	12.849	53	8439	21.19	ug/L	#	87
88)	n-Propylbenzene	12.910	91	169454	24.23	ug/L		99
89)	Bromobenzene	12.941	156	32991	24.70	ug/L		89
90)	1,1,2,2-Tetrachloroethane	12.977	83	48578	26.95	ug/L		99
91)	1,3,5-Trimethylbenzene	13.087	105	105541	24.09	ug/L		97
92)	2-Chlorotoluene	13.106	91	108721	23.98	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.160	53	8723	22.98	ug/L	#	73
94)	1,2,3-Trichloropropane	13.142	110	12160	27.51	ug/L		93
95)	Cyclohexanone	13.221	55	7176	141.92	ug/L		91
96)	4-Chlorotoluene	13.276	91	94673	24.57	ug/L		97
98)	tert-Butylbenzene	13.435	91	59051	23.99	ug/L		92
99)	1,2,4-Trimethylbenzene	13.502	105	105137	24.80	ug/L		99
100)	Pentachloroethane	13.490	167	15683	27.10	ug/L		94
101)	sec-Butylbenzene	13.618	105	132915	23.70	ug/L		99
102)	4-Isopropyltoluene	13.746	119	103155	24.26	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	59573	23.73	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	116624	24.21	ug/L		99
105)	1,4-Dichlorobenzene	13.965	146	69710	24.08	ug/L		97
106)	n-Butylbenzene	14.166	92	55833	25.89	ug/L		99
107)	Benzyl Chloride	14.197	126	10555	20.77	ug/L		94
108)	1,2-Dichlorobenzene	14.386	146	56380	24.81	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	6202	25.01	ug/L	90
110) Hexachlorobutadiene	15.654	225	10884	22.82	ug/L	91
111) 1,2,4-Trichlorobenzene	15.709	180	28091	24.28	ug/L	90
112) Naphthalene	16.007	128	86540	27.42	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	25611	24.59	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

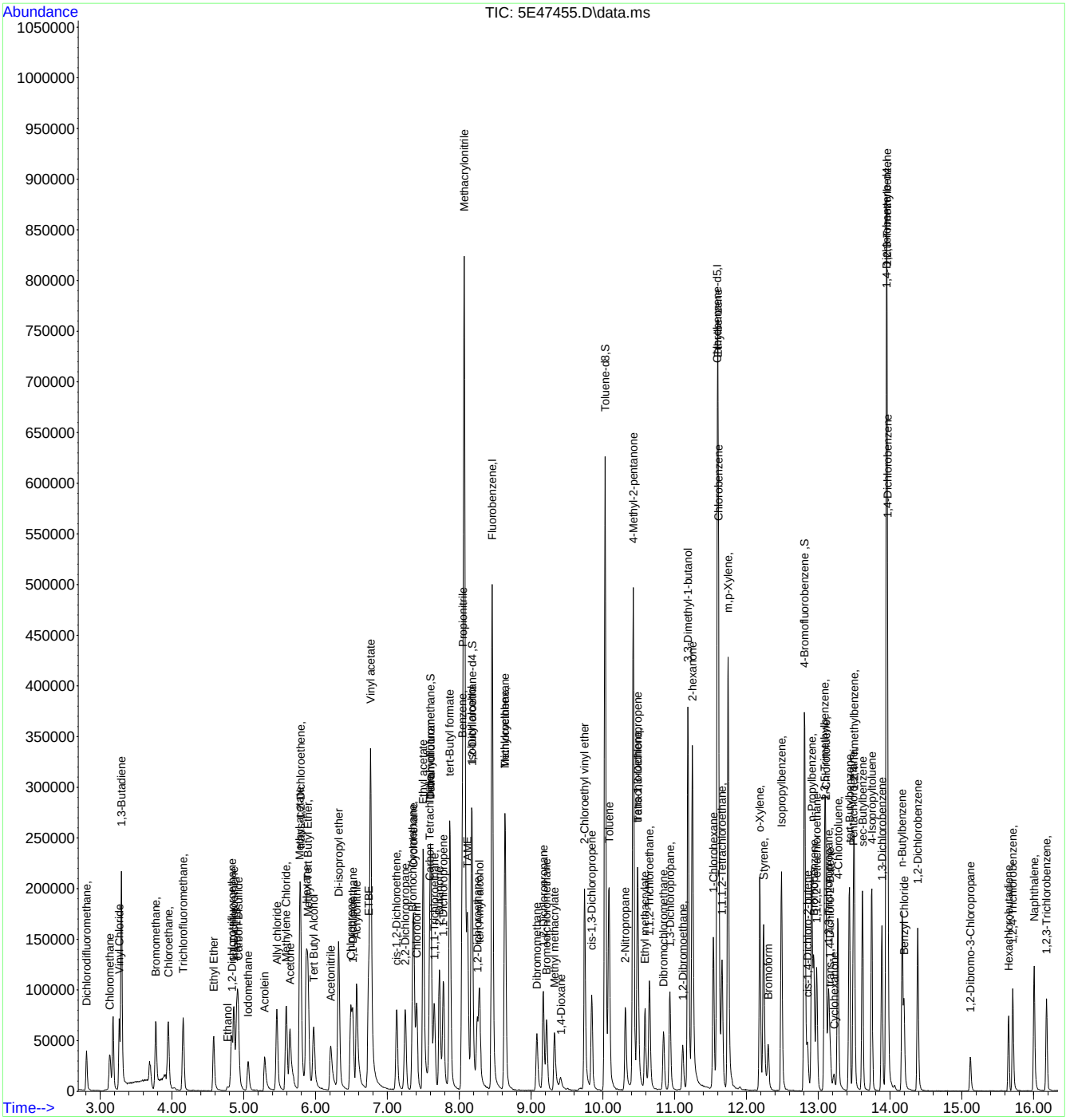
7.6.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47455.D
Acq On : 25 Jun 2024 2:20 pm
Operator : lianatr
Sample : IC2113-4
Misc : MS56909,V5E2113,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 06:29:31 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	422604	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.593	117	286059	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	149134	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.606	113	109528	48.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.48%			
49) 1,2-Dichloroethane-d4	8.180	65	128218	51.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.74%			
62) Toluene-d8	10.033	98	392942	50.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.66%			
86) 4-Bromofluorobenzene	12.807	95	121723	50.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	53380	37.05	ug/L	97
3) Chloromethane	3.132	50	79991	35.64	ug/L	99
4) Vinyl Chloride	3.266	62	104212	37.71	ug/L	97
5) 1,3-Butadiene	3.296	39	136914	48.44	ug/L	97
6) Bromomethane	3.772	94	67930	34.45	ug/L	97
7) Chloroethane	3.949	64	72073	37.26	ug/L	97
8) Trichlorofluoromethane	4.150	101	104194	37.78	ug/L	100
9) Ethyl Ether	4.583	59	51150	40.20	ug/L	97
10) Ethanol	4.772	45	20641	1041.81	ug/L	94
11) 1,2-Dichlorotrifluoroe...	4.827	67	54486	40.04	ug/L	95
12) 1,1-Dichloroethene	4.857	61	91299	39.10	ug/L	91
13) Freon 113	4.906	101	62115	39.02	ug/L	95
14) Carbon Disulfide	4.918	76	169823	35.82	ug/L	94
15) Iodomethane	5.058	142	66148	28.36	ug/L	94
16) Acrolein	5.290	56	68702	224.99	ug/L	100
17) Allyl chloride	5.461	41	97318	38.92	ug/L	98
18) Methylene Chloride	5.589	49	93207	38.48	ug/L	91
19) Acetone	5.643	43	142592	196.06	ug/L	99
20) Methyl acetate	5.778	43	355115	191.34	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	88863	35.45	ug/L	98
22) Hexane	5.869	56	57426	41.07	ug/L	92
23) Methyl Tert Butyl Ether	5.893	73	173600	39.52	ug/L	98
24) Acetonitrile	6.210	41	110420	409.96	ug/L	97
25) Di-isopropyl ether	6.320	45	225458	40.30	ug/L	97
26) Chloroprene	6.491	53	81838	41.47	ug/L	92
27) 1,1-Dichloroethane	6.515	63	118352	39.24	ug/L	99
28) Acrylonitrile	6.570	53	172270	220.04	ug/L	98
29) ETBE	6.741	59	186400	40.52	ug/L	96
30) Tert Butyl Alcohol	5.973	59	123917	424.00	ug/L	95
31) Vinyl acetate	6.765	43	920471	222.12	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	67187	38.16	ug/L	91
33) 2,2-Dichloropropane	7.247	77	79793	39.33	ug/L	99
34) Bromochloromethane	7.350	128	29766	37.69	ug/L	89
35) Cyclohexane	7.363	56	118104	42.07	ug/L	95
36) Chloroform	7.405	83	113009	39.62	ug/L	97
37) Ethyl acetate	7.497	43	537807	225.10	ug/L	98
38) Tetrahydrofuran	7.594	42	37527	39.35	ug/L	93
40) Carbon Tetrachloride	7.582	117	70066	38.18	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	85976	38.79	ug/L	98
42) 2-Butanone	7.722	43	260485	237.43	ug/L	95
43) 1,1-Dichloropropene	7.777	75	85373	40.83	ug/L	96
44) tert-Butyl formate	7.869	59	165624	390.55	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	155752	414.59	ug/L		99
46)	Methacrylonitrile	8.070	41	709301	426.30	ug/L		99
47)	Benzene	8.045	78	266557	38.14	ug/L		96
48)	TAME	8.112	73	181128	40.32	ug/L		95
50)	1,2-Dichloroethane	8.247	62	84206	40.78	ug/L		95
51)	tert Amyl alcohol	8.283	59	94038	456.48	ug/L		95
52)	Trichloroethene	8.637	95	65552	37.26	ug/L		97
53)	Methylcyclohexane	8.637	83	116515	35.30	ug/L		95
54)	Dibromomethane	9.082	93	40681	35.64	ug/L		91
55)	1,2-Dichloropropane	9.173	63	65204	40.65	ug/L		94
56)	Bromodichloromethane	9.216	83	75148	35.32	ug/L		98
57)	Methyl methacrylate	9.326	41	68864	40.44	ug/L		93
58)	1,4-Dioxane	9.411	88	17751	839.73	ug/L		94
59)	2-Chloroethyl vinyl ether	9.746	63	150909	222.54	ug/L		96
60)	cis-1,3-Dichloropropene	9.844	75	90139	36.01	ug/L		98
63)	Toluene	10.088	91	251915	37.05	ug/L		97
64)	Isobutyl alcohol	8.173	43	101798	966.03	ug/L		96
65)	2-Nitropropane	10.313	41	75897	266.53	ug/L		99
66)	4-Methyl-2-pentanone	10.423	43	534603	217.83	ug/L		97
67)	trans-1,3-Dichloropropene	10.484	75	83115	40.05	ug/L		94
68)	Tetrachloroethene	10.490	166	67186	38.94	ug/L		97
69)	Ethyl methacrylate	10.588	69	83934	43.24	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	50765	42.46	ug/L		97
71)	Dibromochloromethane	10.844	129	52405	38.85	ug/L		92
72)	1,3-Dichloropropane	10.935	76	92971	42.97	ug/L		96
73)	1,2-Dibromoethane	11.112	107	56418	44.30	ug/L		98
74)	3,3-Dimethyl-1-butanol	11.185	57	310140	2430.75	ug/L		95
75)	2-hexanone	11.246	43	382641	237.60	ug/L		97
76)	1-Chlorohexane	11.539	91	87414	44.57	ug/L		91
77)	Ethylbenzene	11.606	91	302357	38.44	ug/L		97
78)	Chlorobenzene	11.612	112	169426	39.06	ug/L		93
79)	1,1,1,2-Tetrachloroethane	11.661	131	52260	41.78	ug/L		98
80)	m,p-Xylene	11.746	91	450477	78.85	ug/L		98
81)	o-Xylene	12.185	91	212028	39.52	ug/L		100
82)	Styrene	12.240	104	152871	43.42	ug/L		98
83)	Bromoform	12.301	173	35158	35.87	ug/L		93
84)	Isopropylbenzene	12.490	105	251967	40.25	ug/L		97
87)	cis-1,4-Dichloro-2-butene	12.849	53	16268	37.47	ug/L		91
88)	n-Propylbenzene	12.910	91	319180	41.86	ug/L		100
89)	Bromobenzene	12.941	156	59709	41.01	ug/L		89
90)	1,1,2,2-Tetrachloroethane	12.977	83	88587	45.09	ug/L		96
91)	1,3,5-Trimethylbenzene	13.087	105	203846	42.67	ug/L		96
92)	2-Chlorotoluene	13.105	91	206408	41.75	ug/L		98
93)	trans-1,4-Dichloro-2-B...	13.160	53	16641	40.21	ug/L		93
94)	1,2,3-Trichloropropane	13.142	110	21733	45.10	ug/L		91
95)	Cyclohexanone	13.215	55	14244	258.40	ug/L		92
96)	4-Chlorotoluene	13.270	91	175140	41.70	ug/L		96
98)	tert-Butylbenzene	13.435	91	112031	41.75	ug/L		95
99)	1,2,4-Trimethylbenzene	13.502	105	196260	42.47	ug/L		99
100)	Pentachloroethane	13.489	167	31879	50.53	ug/L		97
101)	sec-Butylbenzene	13.617	105	257989	42.20	ug/L		98
102)	4-Isopropyltoluene	13.746	119	202363	43.66	ug/L		98
103)	1,3-Dichlorobenzene	13.886	146	111307	40.67	ug/L		99
104)	1,2,3-Trimethylbenzene	13.959	105	224865	42.81	ug/L		100
105)	1,4-Dichlorobenzene	13.965	146	129420	41.02	ug/L		98
106)	n-Butylbenzene	14.166	92	111240	47.31	ug/L		99
107)	Benzyl Chloride	14.197	126	20566	37.12	ug/L	#	69
108)	1,2-Dichlorobenzene	14.386	146	104587	42.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

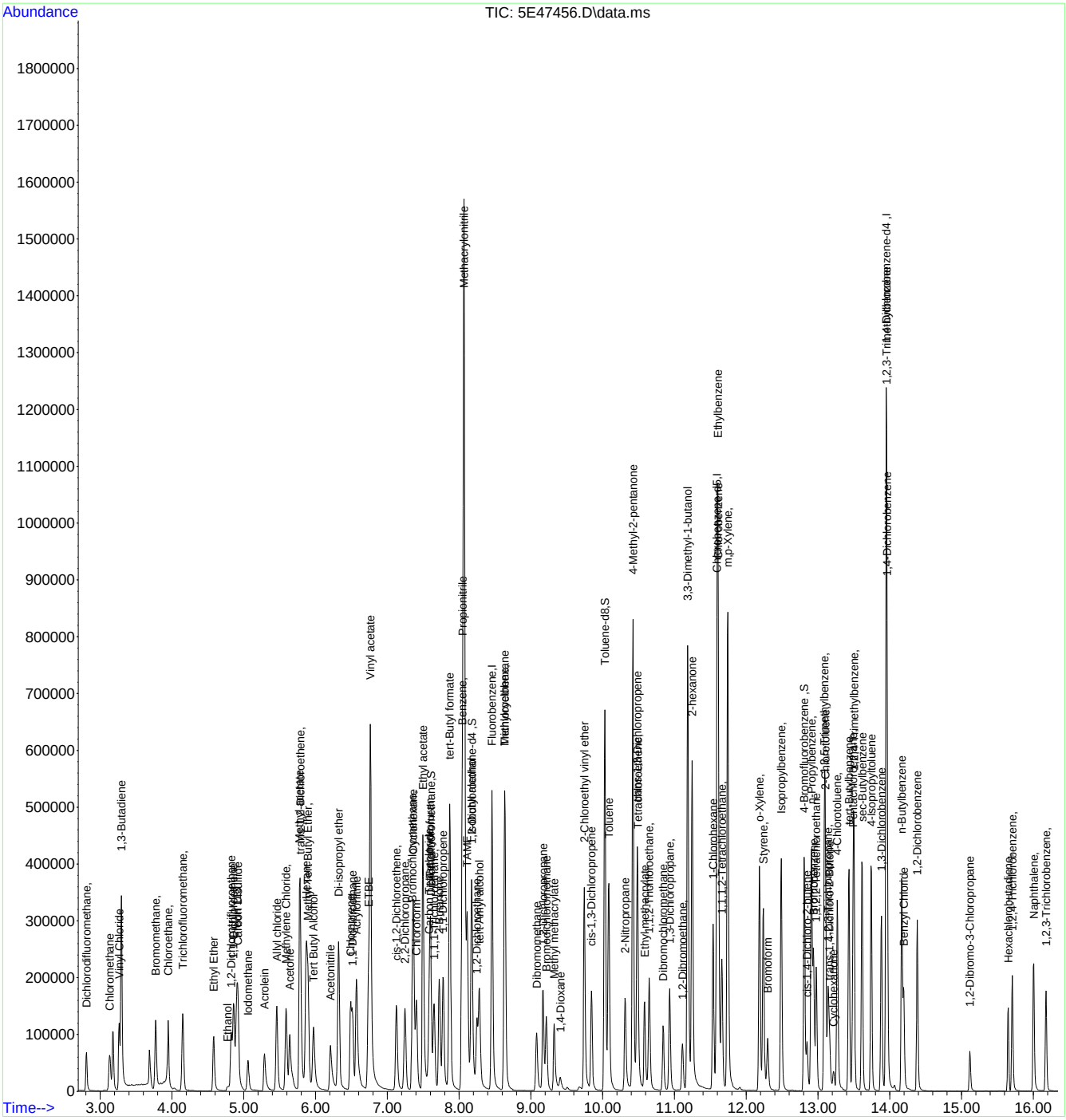
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11787	43.61	ug/L	86
110) Hexachlorobutadiene	15.654	225	20287	39.02	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	55154	43.73	ug/L	100
112) Naphthalene	16.007	128	161318	46.88	ug/L	98
113) 1,2,3-Trichlorobenzene	16.178	180	48397	42.63	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47456.D
Acq On : 25 Jun 2024 2:43 pm
Operator : lianatr
Sample : ICC2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 06:29:34 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	438665	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.600	117	314556	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	173521	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.600	113	117210	50.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.50%			
49) 1,2-Dichloroethane-d4	8.180	65	141413	55.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.24%			
62) Toluene-d8	10.033	98	412112	48.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.96%			
86) 4-Bromofluorobenzene	12.807	95	132293	47.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	97653	65.30	ug/L	100
3) Chloromethane	3.138	50	148177	63.61	ug/L	99
4) Vinyl Chloride	3.266	62	187649	65.41	ug/L	96
5) 1,3-Butadiene	3.296	39	229839	83.16	ug/L	98
6) Bromomethane	3.772	94	135811	66.35	ug/L	97
7) Chloroethane	3.943	64	73982	36.85	ug/L	96
8) Trichlorofluoromethane	4.144	101	198306	69.26	ug/L	98
9) Ethyl Ether	4.583	59	95692	72.46	ug/L	97
10) Ethanol	4.784	45	40574	1631.77	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	100091	70.86	ug/L	96
12) 1,1-Dichloroethene	4.857	61	172137	71.03	ug/L	92
13) Freon 113	4.900	101	115343	69.80	ug/L	96
14) Carbon Disulfide	4.918	76	321716	65.37	ug/L	96
15) Iodomethane	5.058	142	127640	52.73	ug/L	96
16) Acrolein	5.290	56	134965	425.81	ug/L	99
17) Allyl chloride	5.461	41	185166	71.35	ug/L	97
18) Methylene Chloride	5.589	49	168158	66.87	ug/L	93
19) Acetone	5.643	43	280185	371.13	ug/L	100
20) Methyl acetate	5.778	43	719431	373.45	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	173263	66.60	ug/L	96
22) Hexane	5.869	56	105178	72.46	ug/L	93
23) Methyl Tert Butyl Ether	5.893	73	334981	73.47	ug/L	99
24) Acetonitrile	6.210	41	226297	809.42	ug/L	97
25) Di-isopropyl ether	6.320	45	422578	72.76	ug/L	95
26) Chloroprene	6.485	53	160019	78.12	ug/L	92
27) 1,1-Dichloroethane	6.515	63	223395	71.36	ug/L	99
28) Acrylonitrile	6.570	53	341050	419.66	ug/L	98
29) ETBE	6.741	59	367126	76.88	ug/L	96
30) Tert Butyl Alcohol	5.979	59	256441	845.31	ug/L	97
31) Vinyl acetate	6.765	43	1874131	435.68	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	122652	67.11	ug/L	87
33) 2,2-Dichloropropane	7.247	77	147974	70.27	ug/L	98
34) Bromochloromethane	7.350	128	55189	67.33	ug/L #	84
35) Cyclohexane	7.363	56	222672	76.41	ug/L	95
36) Chloroform	7.405	83	214322	72.38	ug/L	97
37) Ethyl acetate	7.497	43	1054131	425.05	ug/L	99
38) Tetrahydrofuran	7.594	42	73083	73.83	ug/L	91
40) Carbon Tetrachloride	7.582	117	136861	65.35	ug/L	98
41) 1,1,1-Trichloroethane	7.655	97	161954	70.40	ug/L	98
42) 2-Butanone	7.722	43	515390	452.58	ug/L	93
43) 1,1-Dichloropropene	7.777	75	158980	73.25	ug/L	98
44) tert-Butyl formate	7.869	59	371320	715.12	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.052	54	334843	754.46	ug/L	90
46) Methacrylonitrile	8.070	41	1500798	768.23	ug/L	99
47) Benzene	8.045	78	517984	71.41	ug/L	97
48) TAME	8.112	73	348044	74.65	ug/L	92
50) 1,2-Dichloroethane	8.247	62	159489	74.41	ug/L	96
51) tert Amyl alcohol	8.283	59	191603	896.02	ug/L	96
52) Trichloroethene	8.637	95	129378	70.84	ug/L	94
53) Methylcyclohexane	8.637	83	218830	63.87	ug/L	95
54) Dibromomethane	9.082	93	79392	67.00	ug/L	90
55) 1,2-Dichloropropane	9.167	63	120400	72.32	ug/L	97
56) Bromodichloromethane	9.216	83	148432	67.21	ug/L	99
57) Methyl methacrylate	9.326	41	133995	75.80	ug/L	93
58) 1,4-Dioxane	9.411	88	36097	1451.16	ug/L	97
59) 2-Chloroethyl vinyl ether	9.746	63	308893	438.84	ug/L	97
60) cis-1,3-Dichloropropene	9.844	75	174919	67.31	ug/L	98
63) Toluene	10.082	91	477716	63.89	ug/L	99
64) Isobutyl alcohol	8.173	43	218281	1883.75	ug/L	97
65) 2-Nitropropane	10.313	41	170482	485.65	ug/L	92
66) 4-Methyl-2-pentanone	10.423	43	1096147	406.17	ug/L	97
67) trans-1,3-Dichloropropene	10.484	75	172880	75.76	ug/L	95
68) Tetrachloroethene	10.484	166	131391	69.25	ug/L	98
69) Ethyl methacrylate	10.582	69	165734	77.65	ug/L	93
70) 1,1,2-Trichloroethane	10.649	83	98111	74.63	ug/L	97
71) Dibromochloromethane	10.844	129	104625	70.54	ug/L	98
72) 1,3-Dichloropropane	10.935	76	177729	74.70	ug/L	97
73) 1,2-Dibromoethane	11.112	107	112167	80.10	ug/L	99
74) 3,3-Dimethyl-1-butanol	11.185	57	810598	4404.22	ug/L	97
75) 2-hexanone	11.246	43	802941	453.42	ug/L	99
76) 1-Chlorohexane	11.539	91	167240	77.55	ug/L	90
77) Ethylbenzene	11.606	91	601164	69.50	ug/L	97
78) Chlorobenzene	11.612	112	333753	69.98	ug/L	94
79) 1,1,1,2-Tetrachloroethane	11.661	131	102346	74.41	ug/L	97
80) m,p-Xylene	11.746	91	909849	144.83	ug/L	99
81) o-Xylene	12.185	91	408248	69.19	ug/L	99
82) Styrene	12.240	104	304110	78.55	ug/L	98
83) Bromoform	12.301	173	74850	69.45	ug/L	96
84) Isopropylbenzene	12.490	105	492106	71.49	ug/L	98
87) cis-1,4-Dichloro-2-butene	12.849	53	34585	68.46	ug/L	94
88) n-Propylbenzene	12.910	91	621427	70.04	ug/L	99
89) Bromobenzene	12.941	156	119201	70.37	ug/L	94
90) 1,1,2,2-Tetrachloroethane	12.977	83	175127	76.61	ug/L	99
91) 1,3,5-Trimethylbenzene	13.087	105	413007	74.31	ug/L	95
92) 2-Chlorotoluene	13.105	91	405413	70.49	ug/L	98
93) trans-1,4-Dichloro-2-B...	13.160	53	37242	77.34	ug/L	92
94) 1,2,3-Trichloropropane	13.142	110	44462	79.30	ug/L	93
95) Cyclohexanone	13.221	55	30314	472.64	ug/L	95
96) 4-Chlorotoluene	13.270	91	343938	70.39	ug/L	95
98) tert-Butylbenzene	13.435	91	223203	71.49	ug/L	94
99) 1,2,4-Trimethylbenzene	13.502	105	395062	73.47	ug/L	99
100) Pentachloroethane	13.489	167	67128	91.44	ug/L	99
101) sec-Butylbenzene	13.618	105	499955	70.28	ug/L	98
102) 4-Isopropyltoluene	13.746	119	400260	74.22	ug/L	98
103) 1,3-Dichlorobenzene	13.886	146	221713	69.63	ug/L	97
104) 1,2,3-Trimethylbenzene	13.959	105	460622	75.38	ug/L	99
105) 1,4-Dichlorobenzene	13.965	146	261049	71.10	ug/L	98
106) n-Butylbenzene	14.166	92	222250	81.24	ug/L	97
107) Benzyl Chloride	14.197	126	46380	71.95	ug/L	93
108) 1,2-Dichlorobenzene	14.386	146	207203	71.89	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

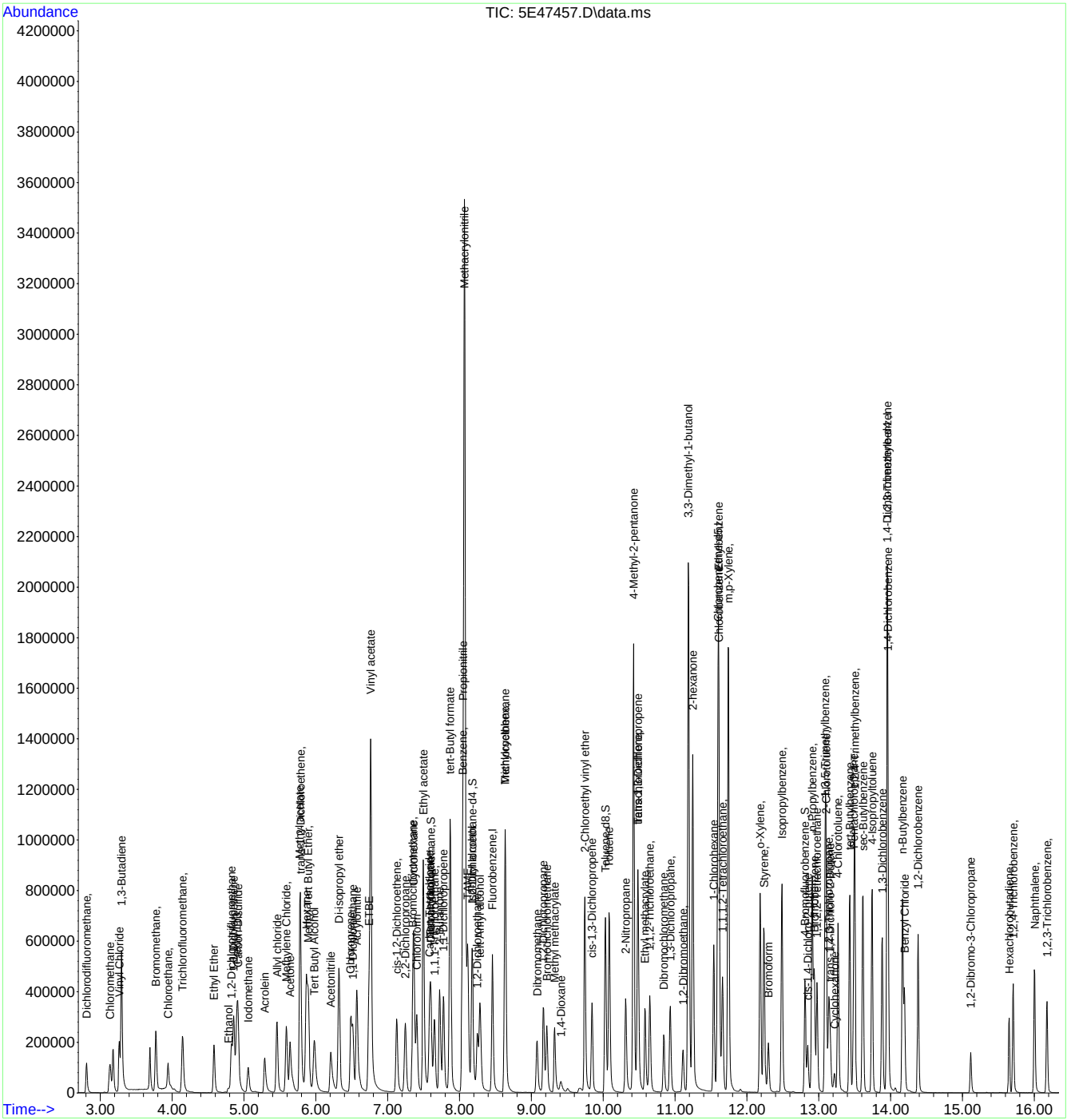
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	25933	82.46	ug/L	88
110) Hexachlorobutadiene	15.654	225	41637	68.84	ug/L	96
111) 1,2,4-Trichlorobenzene	15.709	180	111560	76.02	ug/L	97
112) Naphthalene	16.007	128	332543	83.06	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	97217	73.60	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47457.D
Acq On : 25 Jun 2024 3:06 pm
Operator : lianatr
Sample : IC2113-6
Misc : MS56909,V5E2113,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 06:29:37 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	459709	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	348733	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	198638	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	124396	50.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.78%			
49) 1,2-Dichloroethane-d4	8.180	65	151204	56.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.48%			
62) Toluene-d8	10.033	98	425830	45.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 90.36%			
86) 4-Bromofluorobenzene	12.807	95	139058	43.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 87.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	148915	95.01	ug/L	98
3) Chloromethane	3.138	50	226826	92.91	ug/L	99
4) Vinyl Chloride	3.266	62	267443	88.96	ug/L	97
5) 1,3-Butadiene	3.297	39	336485	123.92	ug/L	97
6) Bromomethane	3.772	94	216343	100.86	ug/L	98
7) Chloroethane	3.943	64	102718	48.82	ug/L	96
8) Trichlorofluoromethane	4.144	101	340922	113.62	ug/L	98
9) Ethyl Ether	4.589	59	151498	109.47	ug/L	99
10) Ethanol	4.790	45	64176	2142.29	ug/L	98
11) 1,2-Dichlorotrifluoroe...	4.827	67	160532	108.44	ug/L	94
12) 1,1-Dichloroethene	4.857	61	275413	108.44	ug/L	93
13) Freon 113	4.900	101	180976	104.50	ug/L	96
14) Carbon Disulfide	4.918	76	515584	99.97	ug/L	99
15) Iodomethane	5.058	142	202188	79.70	ug/L	96
16) Acrolein	5.290	56	205839	619.69	ug/L	96
17) Allyl chloride	5.461	41	284608	104.64	ug/L	99
18) Methylene Chloride	5.589	49	261769	99.34	ug/L	93
19) Acetone	5.644	43	430367	543.97	ug/L	99
20) Methyl acetate	5.778	43	1141635	565.49	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	283345	103.92	ug/L	96
22) Hexane	5.869	56	165708	108.93	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	527364	110.37	ug/L	98
24) Acetonitrile	6.211	41	348533	1189.57	ug/L	98
25) Di-isopropyl ether	6.320	45	663473	109.01	ug/L	96
26) Chloroprene	6.485	53	257369	119.89	ug/L	91
27) 1,1-Dichloroethane	6.515	63	358298	109.21	ug/L	100
28) Acrylonitrile	6.570	53	529225	621.40	ug/L	98
29) ETBE	6.741	59	596173	119.12	ug/L	95
30) Tert Butyl Alcohol	5.985	59	395496	1244.01	ug/L	99
31) Vinyl acetate	6.765	43	2998408	665.14	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	198632	103.71	ug/L	89
33) 2,2-Dichloropropane	7.247	77	237759	107.73	ug/L	98
34) Bromochloromethane	7.351	128	88346	102.85	ug/L	88
35) Cyclohexane	7.363	56	352764	115.52	ug/L	95
36) Chloroform	7.405	83	341777	110.14	ug/L	96
37) Ethyl acetate	7.497	43	1630023	627.17	ug/L	99
38) Tetrahydrofuran	7.594	42	108220	104.32	ug/L	94
40) Carbon Tetrachloride	7.582	117	223074	93.07	ug/L	99
41) 1,1,1-Trichloroethane	7.655	97	262342	108.81	ug/L	98
42) 2-Butanone	7.722	43	784577	657.42	ug/L	95
43) 1,1-Dichloropropene	7.777	75	253171	111.32	ug/L	96
44) tert-Butyl formate	7.875	59	607296	989.01	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	543921	1055.83	ug/L		86
46) Methacrylonitrile	8.070	41	2419345	1071.53	ug/L		98
47) Benzene	8.046	78	839025	110.37	ug/L		99
48) TAME	8.113	73	562104	115.04	ug/L		95
50) 1,2-Dichloroethane	8.247	62	251750	112.07	ug/L		96
51) tert Amyl alcohol	8.289	59	300573	1341.27	ug/L		97
52) Trichloroethene	8.637	95	209376	109.39	ug/L		95
53) Methylcyclohexane	8.637	83	354787	98.81	ug/L		96
54) Dibromomethane	9.076	93	122422	98.59	ug/L		89
55) 1,2-Dichloropropane	9.167	63	191399	109.70	ug/L		97
56) Bromodichloromethane	9.216	83	236883	102.35	ug/L		98
57) Methyl methacrylate	9.326	41	204321	110.29	ug/L		95
58) 1,4-Dioxane	9.411	88	56923	1981.20	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	450256	610.39	ug/L		96
60) cis-1,3-Dichloropropene	9.844	75	277076	101.74	ug/L		98
63) Toluene	10.088	91	766274	92.44	ug/L		98
64) Isobutyl alcohol	8.180	43	341637	2659.36	ug/L		97
65) 2-Nitropropane	10.313	41	283634	668.53	ug/L		94
66) 4-Methyl-2-pentanone	10.423	43	1747046	583.91	ug/L		98
67) trans-1,3-Dichloropropene	10.484	75	284105	112.30	ug/L		98
68) Tetrachloroethene	10.484	166	215910	102.64	ug/L		99
69) Ethyl methacrylate	10.582	69	257864	108.98	ug/L		93
70) 1,1,2-Trichloroethane	10.649	83	152471	104.62	ug/L		97
71) Dibromochloromethane	10.844	129	171404	104.24	ug/L		95
72) 1,3-Dichloropropane	10.935	76	276581	104.85	ug/L		96
73) 1,2-Dibromoethane	11.112	107	172812	111.31	ug/L		98
74) 3,3-Dimethyl-1-butanol	11.191	57	1429008	5921.30	ug/L		99
75) 2-hexanone	11.246	43	1271566	647.68	ug/L		97
76) 1-Chlorohexane	11.539	91	270143	112.99	ug/L		91
77) Ethylbenzene	11.606	91	1010558	105.38	ug/L		97
78) Chlorobenzene	11.612	112	556587	105.27	ug/L		94
79) 1,1,1,2-Tetrachloroethane	11.661	131	166934	109.48	ug/L		97
80) m,p-Xylene	11.740	91	1556179	223.44	ug/L		96
81) o-Xylene	12.185	91	668062	102.13	ug/L		97
82) Styrene	12.234	104	501634	116.87	ug/L		96
83) Bromoform	12.301	173	125369	104.92	ug/L		97
84) Isopropylbenzene	12.490	105	813734	106.62	ug/L		97
87) cis-1,4-Dichloro-2-butene	12.850	53	58165	100.58	ug/L		95
88) n-Propylbenzene	12.910	91	1024488	100.87	ug/L		100
89) Bromobenzene	12.935	156	191755	98.89	ug/L		83
90) 1,1,2,2-Tetrachloroethane	12.978	83	273049	104.34	ug/L		98
91) 1,3,5-Trimethylbenzene	13.087	105	707266	111.16	ug/L		95
92) 2-Chlorotoluene	13.099	91	691788	105.07	ug/L		93
93) trans-1,4-Dichloro-2-B...	13.160	53	60598	109.92	ug/L		90
94) 1,2,3-Trichloropropane	13.142	110	69302	107.97	ug/L		91
95) Cyclohexanone	13.215	55	47039	640.67	ug/L		97
96) 4-Chlorotoluene	13.270	91	568609	101.65	ug/L		96
98) tert-Butylbenzene	13.435	91	374540	104.80	ug/L		94
99) 1,2,4-Trimethylbenzene	13.502	105	672479	109.25	ug/L		99
100) Pentachloroethane	13.490	167	112623	134.02	ug/L		95
101) sec-Butylbenzene	13.612	105	829119	101.82	ug/L		96
102) 4-Isopropyltoluene	13.746	119	672694	108.97	ug/L		98
103) 1,3-Dichlorobenzene	13.886	146	365891	100.38	ug/L		98
104) 1,2,3-Trimethylbenzene	13.959	105	793887	113.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	446539	106.25	ug/L		99
106) n-Butylbenzene	14.166	92	365821	116.81	ug/L		99
107) Benzyl Chloride	14.191	126	78438	106.30	ug/L	#	78
108) 1,2-Dichlorobenzene	14.386	146	337660	102.34	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	42049	116.79	ug/L	91
110) Hexachlorobutadiene	15.654	225	65837	95.08	ug/L	95
111) 1,2,4-Trichlorobenzene	15.709	180	179650	106.94	ug/L	99
112) Naphthalene	16.001	128	524837	114.52	ug/L	99
113) 1,2,3-Trichlorobenzene	16.178	180	153751	101.68	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

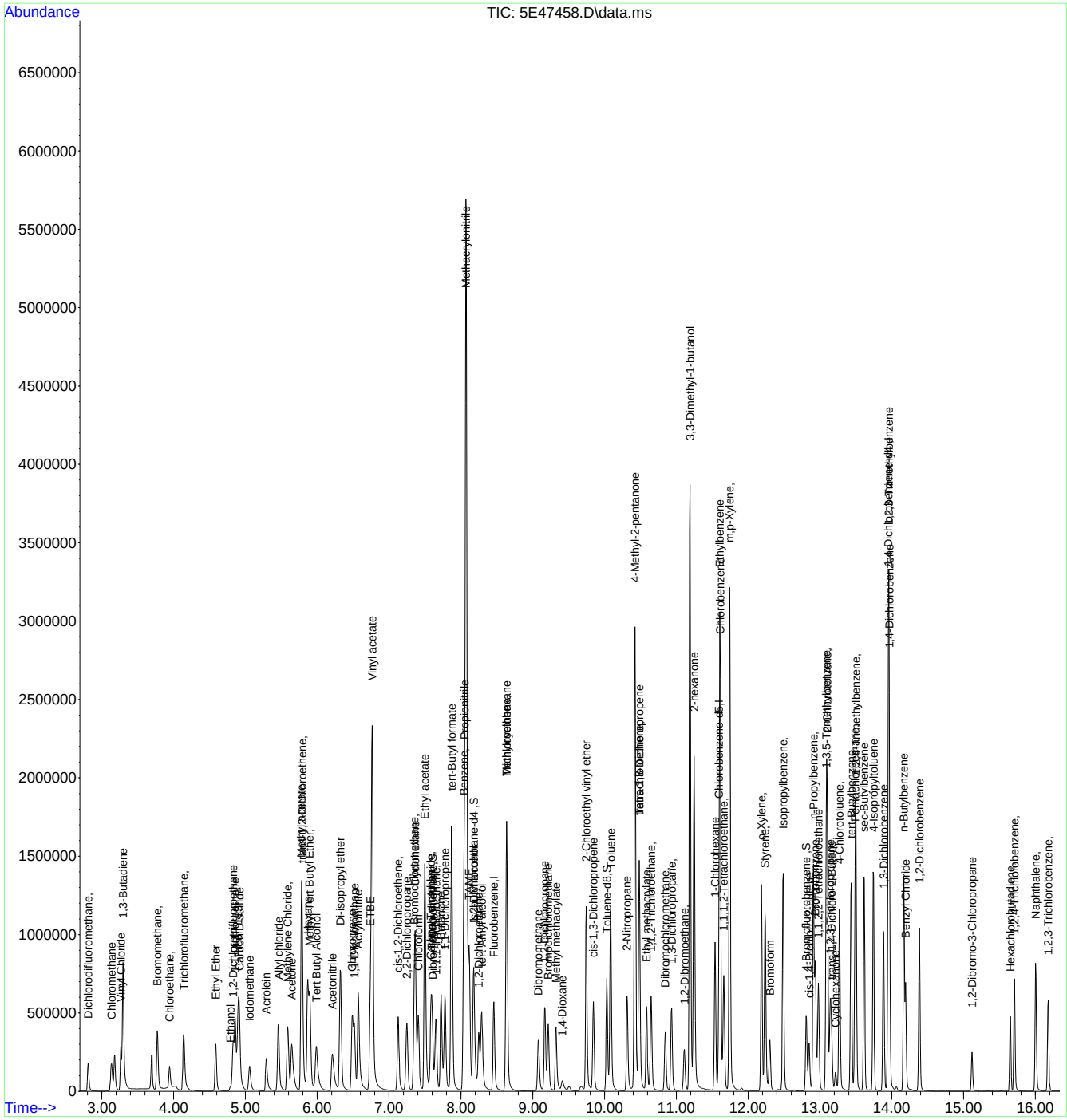
7.6.30

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47458.D
Acq On : 25 Jun 2024 3:29 pm
Operator : lianatr
Sample : IC2113-7
Misc : MS56909,V5E2113,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 06:29:40 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 25 14:17:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	448133	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	302796	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	162149	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	119111	51.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.50%			
49) 1,2-Dichloroethane-d4	8.180	65	146738	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
62) Toluene-d8	10.033	98	420439	49.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.42%			
86) 4-Bromofluorobenzene	12.807	95	131859	49.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	66036	47.14	ug/L	99
3) Chloromethane	3.132	50	91079	41.81	ug/L	99
4) Vinyl Chloride	3.266	62	116632	40.70	ug/L	98
5) 1,3-Butadiene	3.297	39	143318	40.96	ug/L	95
6) Bromomethane	3.772	94	76785	39.11	ug/L	99
7) Chloroethane	3.943	64	93577	44.92	ug/L	99
8) Trichlorofluoromethane	4.156	101	111030	39.97	ug/L	98
9) Ethyl Ether	4.583	59	51900	38.62	ug/L	97
10) Ethanol	4.772	45	21354	759.84	ug/L	99
11) 1,2-Dichlorotrifluoroe...	4.827	67	82631	58.21	ug/L	99
12) 1,1-Dichloroethene	4.863	61	97472	40.76	ug/L	97
13) Freon 113	4.900	101	65217	38.75	ug/L	95
14) Carbon Disulfide	4.924	76	155466	33.02	ug/L	96
15) Iodomethane	5.058	142	61521	33.75	ug/L	99
16) Acrolein	5.290	56	86003	226.46	ug/L	99
17) Allyl chloride	5.461	41	107119	40.05	ug/L	94
18) Methylene Chloride	5.589	49	102012	39.18	ug/L	97
19) Acetone	5.644	43	165552	209.40	ug/L	97
20) Methyl acetate	5.778	43	394898	191.92	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	97178	40.80	ug/L	98
22) Hexane	5.869	56	55649	36.07	ug/L	98
23) Methyl Tert Butyl Ether	5.894	73	186057	41.21	ug/L	98
24) Acetonitrile	6.205	41	121913	409.03	ug/L	98
25) Di-isopropyl ether	6.320	45	230519	38.14	ug/L	96
26) Chloroprene	6.485	53	92615	44.66	ug/L	96
27) 1,1-Dichloroethane	6.515	63	125370	39.71	ug/L	99
28) Acrylonitrile	6.570	53	171018	195.22	ug/L	99
29) ETBE	6.741	59	194147	40.11	ug/L	97
30) Tert Butyl Alcohol	5.973	59	130044	360.93	ug/L	98
31) Vinyl acetate	6.765	43	980800	185.43	ug/L	99
32) cis-1,2-Dichloroethene	7.125	96	71619	40.73	ug/L	98
33) 2,2-Dichloropropane	7.247	77	91333	44.91	ug/L	99
34) Bromochloromethane	7.351	128	32006	42.48	ug/L	96
35) Cyclohexane	7.363	56	122515	41.66	ug/L	99
36) Chloroform	7.406	83	124734	42.60	ug/L	97
37) Ethyl acetate	7.497	43	551902	201.54	ug/L	100
38) Tetrahydrofuran	7.594	42	39534	37.26	ug/L	99
40) Carbon Tetrachloride	7.582	117	78288	39.51	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	92474	41.13	ug/L	96
42) 2-Butanone	7.723	43	265817	180.86	ug/L	100
43) 1,1-Dichloropropene	7.777	75	93480	43.51	ug/L	98
44) tert-Butyl formate	7.869	59	188199	423.89	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) Propionitrile	8.052	54	171637	404.33	ug/L		99
46) Methacrylonitrile	8.070	41	755769	399.82	ug/L		99
47) Benzene	8.046	78	289343	40.32	ug/L		99
48) TAME	8.113	73	184137	39.94	ug/L		97
50) 1,2-Dichloroethane	8.247	62	90676	41.76	ug/L		96
51) tert Amyl alcohol	8.283	59	104499	386.59	ug/L		95
52) Trichloroethene	8.637	95	71145	40.37	ug/L		95
53) Methylcyclohexane	8.637	83	121266	38.00	ug/L		98
54) Dibromomethane	9.082	93	44715	39.45	ug/L		95
55) 1,2-Dichloropropane	9.173	63	72146	42.78	ug/L		96
56) Bromodichloromethane	9.216	83	79931	41.63	ug/L		97
57) Methyl methacrylate	9.326	41	72487	38.12	ug/L		99
58) 1,4-Dioxane	9.411	88	18070	717.11	ug/L		96
59) 2-Chloroethyl vinyl ether	9.746	63	160280	188.31	ug/L		97
60) cis-1,3-Dichloropropene	9.844	75	100026	39.84	ug/L		97
63) Toluene	10.088	91	273368	38.06	ug/L		97
64) Isobutyl alcohol	8.168	43	111391	878.94	ug/L		94
65) 2-Nitropropane	10.313	41	82673	208.22	ug/L		97
66) 4-Methyl-2-pentanone	10.423	43	599818	211.22	ug/L		100
67) trans-1,3-Dichloropropene	10.484	75	86390	37.43	ug/L		99
68) Tetrachloroethene	10.490	166	72124	41.61	ug/L		97
69) Ethyl methacrylate	10.588	69	89055	40.48	ug/L		97
70) 1,1,2-Trichloroethane	10.649	83	54233	41.96	ug/L		97
71) Dibromochloromethane	10.844	129	57003	40.25	ug/L		99
72) 1,3-Dichloropropane	10.935	76	104765	44.35	ug/L		98
73) 1,2-Dibromoethane	11.112	107	59238	39.57	ug/L		96
74) 3,3-Dimethyl-1-butanol	11.185	57	341686	2039.78	ug/L		97
75) 2-hexanone	11.246	43	438915	205.00	ug/L		99
76) 1-Chlorohexane	11.539	91	92249	44.57	ug/L		99
77) Ethylbenzene	11.606	91	326400	38.93	ug/L		98
78) Chlorobenzene	11.612	112	182346	40.27	ug/L		98
79) 1,1,1,2-Tetrachloroethane	11.661	131	55741	43.11	ug/L		96
80) m,p-Xylene	11.746	91	479406	79.03	ug/L		100
81) o-Xylene	12.185	91	222070	38.96	ug/L		99
82) Styrene	12.240	104	166416	40.02	ug/L		97
83) Bromoform	12.301	173	37084	41.71	ug/L		96
84) Isopropylbenzene	12.490	105	268615	40.97	ug/L		99
87) cis-1,4-Dichloro-2-butene	12.850	53	18855	43.85	ug/L		89
88) n-Propylbenzene	12.911	91	339177	39.40	ug/L		99
89) Bromobenzene	12.935	156	66606	41.92	ug/L		94
90) 1,1,2,2-Tetrachloroethane	12.978	83	93918	41.28	ug/L		99
91) 1,3,5-Trimethylbenzene	13.087	105	222048	41.69	ug/L		99
92) 2-Chlorotoluene	13.106	91	219540	39.11	ug/L		99
93) trans-1,4-Dichloro-2-B...	13.160	53	19846	42.70	ug/L		93
94) 1,2,3-Trichloropropane	13.142	110	24821	42.84	ug/L		95
95) Cyclohexanone	13.215	55	23173	306.62	ug/L		91
96) 4-Chlorotoluene	13.270	91	185702	39.20	ug/L		97
98) tert-Butylbenzene	13.435	91	120143	39.78	ug/L		96
99) 1,2,4-Trimethylbenzene	13.502	105	214351	41.30	ug/L		99
100) Pentachloroethane	13.490	167	33875	39.01	ug/L		98
101) sec-Butylbenzene	13.618	105	260837	38.14	ug/L		99
102) 4-Isopropyltoluene	13.746	119	213410	41.74	ug/L		99
103) 1,3-Dichlorobenzene	13.886	146	117226	39.12	ug/L		97
104) 1,2,3-Trimethylbenzene	13.959	105	238982	40.49	ug/L		99
105) 1,4-Dichlorobenzene	13.965	146	139562	40.06	ug/L		97
106) n-Butylbenzene	14.166	92	122700	41.96	ug/L		99
107) Benzyl Chloride	14.197	126	22417	42.74	ug/L	#	89
108) 1,2-Dichlorobenzene	14.386	146	111316	40.90	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

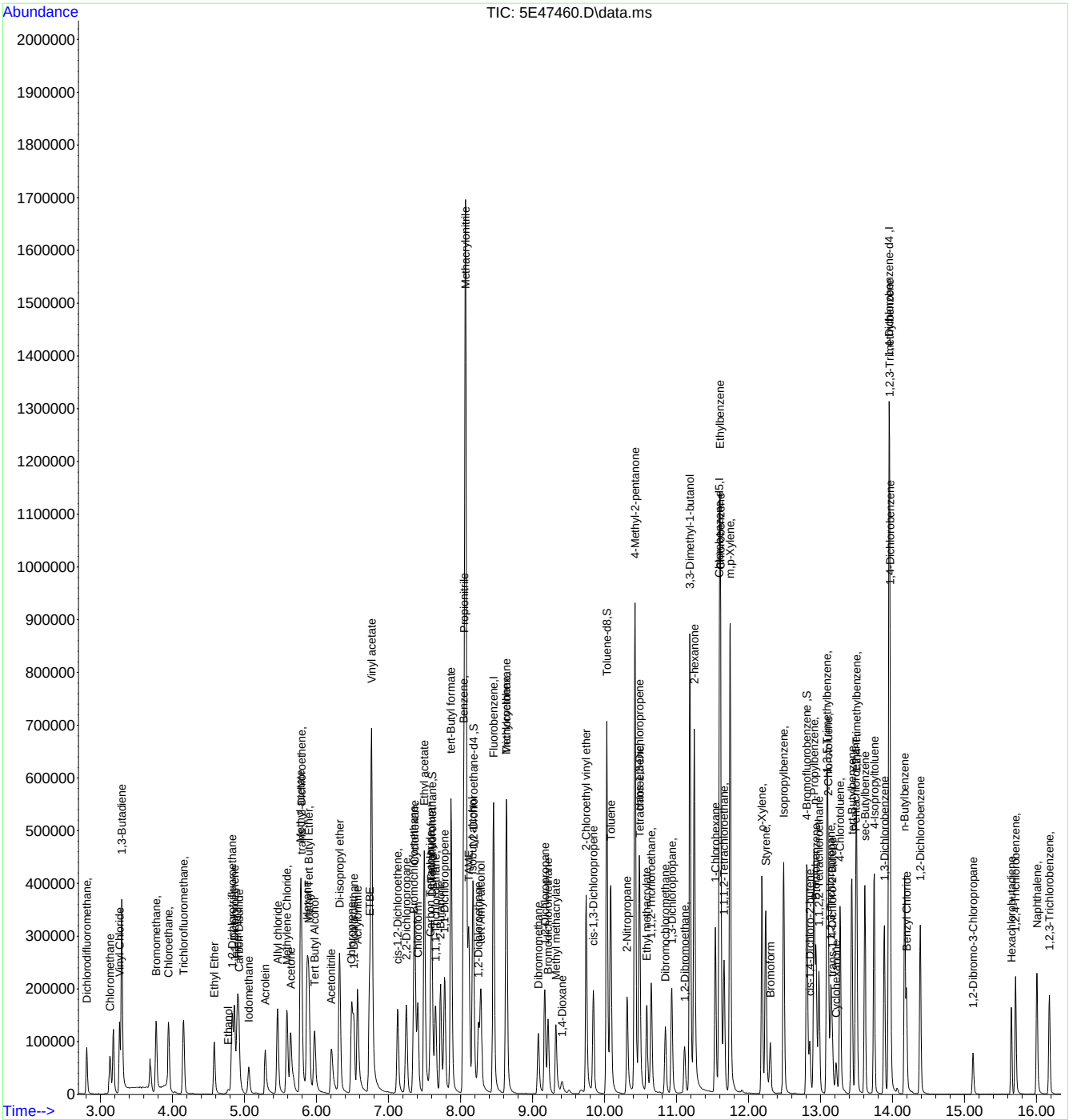
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	13936	42.52	ug/L	95
110) Hexachlorobutadiene	15.654	225	23429	42.03	ug/L	99
111) 1,2,4-Trichlorobenzene	15.709	180	58524	42.61	ug/L	98
112) Naphthalene	16.007	128	169150	39.39	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	51034	41.23	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-25-2024\
Data File : 5E47460.D
Acq On : 25 Jun 2024 4:14 pm
Operator : lianatr
Sample : ICV2113-5
Misc : MS56909,V5E2113,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 06:42:10 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	385180	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	260456	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	141008	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.600	113	98888	49.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	99.02%		
49) 1,2-Dichloroethane-d4	8.180	65	115653	49.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery =	98.72%		
62) Toluene-d8	10.033	98	358465	49.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery =	98.54%		
86) 4-Bromofluorobenzene	12.807	95	112575	48.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery =	96.86%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	50911	42.29	ug/L	96
3) Chloromethane	3.132	50	81074	43.30	ug/L	98
4) Vinyl Chloride	3.266	62	103194	41.89	ug/L	98
5) 1,3-Butadiene	3.296	39	133268	44.31	ug/L	94
6) Bromomethane	3.772	94	78574	46.56	ug/L	99
7) Chloroethane	3.949	64	89644	50.06	ug/L	98
8) Trichlorofluoromethane	4.150	101	103183	43.22	ug/L	100
9) Ethyl Ether	4.583	59	49893	43.20	ug/L	93
10) Ethanol	4.772	45	21283	881.08	ug/L	95
11) 1,2-Dichlorotrifluoroe...	4.827	67	80662	66.11	ug/L	98
12) 1,1-Dichloroethene	4.857	61	96503	46.95	ug/L	97
13) Freon 113	4.900	101	63174	43.67	ug/L	95
14) Carbon Disulfide	4.918	76	186529	46.10	ug/L	96
15) Iodomethane	5.058	142	65881	42.05	ug/L	94
16) Acrolein	5.290	56	66147	202.64	ug/L	99
17) Allyl chloride	5.461	41	101781	44.27	ug/L	93
18) Methylene Chloride	5.589	49	94752	42.34	ug/L	98
19) Acetone	5.637	43	143778	211.58	ug/L	99
20) Methyl acetate	5.778	43	359430	203.23	ug/L	99
21) trans-1,2-Dichloroethene	5.790	61	92107	44.99	ug/L	99
22) Hexane	5.869	56	59660	44.98	ug/L	96
23) Methyl Tert Butyl Ether	5.893	73	162975	41.99	ug/L	96
24) Acetonitrile	6.204	41	119415	466.13	ug/L	99
25) Di-isopropyl ether	6.320	45	225437	43.40	ug/L	97
26) Chloroprene	6.485	53	83815	47.02	ug/L	98
27) 1,1-Dichloroethane	6.515	63	120455	44.38	ug/L	99
28) Acrylonitrile	6.570	53	166917	221.68	ug/L	99
29) ETBE	6.741	59	181983	43.74	ug/L	98
30) Tert Butyl Alcohol	5.973	59	120436	388.90	ug/L	98
31) Vinyl acetate	6.765	43	880401	193.65	ug/L	100
32) cis-1,2-Dichloroethene	7.125	96	64615	42.75	ug/L	98
33) 2,2-Dichloropropane	7.247	77	81555	46.65	ug/L	99
34) Bromochloromethane	7.350	128	29875	46.13	ug/L	97
35) Cyclohexane	7.363	56	123394	48.81	ug/L	96
36) Chloroform	7.405	83	111481	44.30	ug/L	99
37) Ethyl acetate	7.497	43	519708	220.80	ug/L	100
38) Tetrahydrofuran	7.594	42	38372	42.08	ug/L	99
40) Carbon Tetrachloride	7.582	117	70478	41.38	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	86228	44.62	ug/L	97
42) 2-Butanone	7.722	43	261342	206.87	ug/L	98
43) 1,1-Dichloropropene	7.777	75	87404	47.33	ug/L	98
44) tert-Butyl formate	7.869	59	172280	445.50	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.052	54	165113	444.77	ug/L		97
46)	Methacrylonitrile	8.070	41	713709	433.06	ug/L		99
47)	Benzene	8.045	78	270093	43.79	ug/L		98
48)	TAME	8.112	73	173035	43.67	ug/L		99
50)	1,2-Dichloroethane	8.253	62	79832	42.78	ug/L		98
51)	tert Amyl alcohol	8.283	59	95587	411.41	ug/L		98
52)	Trichloroethene	8.637	95	65702	43.37	ug/L		97
53)	Methylcyclohexane	8.637	83	116947	42.64	ug/L		99
54)	Dibromomethane	9.082	93	39285	40.33	ug/L		97
55)	1,2-Dichloropropane	9.173	63	64818	44.72	ug/L		97
56)	Bromodichloromethane	9.216	83	76053	46.09	ug/L		98
57)	Methyl methacrylate	9.326	41	68924	42.17	ug/L		98
58)	1,4-Dioxane	9.411	88	16560	764.59	ug/L		96
59)	2-Chloroethyl vinyl ether	9.746	63	172845	236.27	ug/L		97
60)	cis-1,3-Dichloropropene	9.844	75	89888	41.65	ug/L		98
63)	Toluene	10.088	91	252827	40.93	ug/L		97
64)	Isobutyl alcohol	8.173	43	110025	1009.29	ug/L		99
65)	2-Nitropropane	10.313	41	96352	267.59	ug/L		94
66)	4-Methyl-2-pentanone	10.423	43	516168	211.32	ug/L		99
67)	trans-1,3-Dichloropropene	10.484	75	81709	41.16	ug/L		98
68)	Tetrachloroethene	10.490	166	66169	44.38	ug/L		98
69)	Ethyl methacrylate	10.588	69	79078	41.79	ug/L		96
70)	1,1,2-Trichloroethane	10.649	83	48585	43.70	ug/L		98
71)	Dibromochloromethane	10.844	129	50059	41.09	ug/L		97
72)	1,3-Dichloropropane	10.935	76	90571	44.58	ug/L		99
73)	1,2-Dibromoethane	11.112	107	52560	40.82	ug/L		92
74)	3,3-Dimethyl-1-butanol	11.185	57	297897	2060.15	ug/L		100
75)	2-hexanone	11.246	43	381035	206.90	ug/L		100
76)	1-Chlorohexane	11.539	91	89055	50.02	ug/L		97
77)	Ethylbenzene	11.606	91	304124	42.17	ug/L		99
78)	Chlorobenzene	11.612	112	167166	42.92	ug/L		97
79)	1,1,1,2-Tetrachloroethane	11.661	131	50384	45.30	ug/L		94
80)	m,p-Xylene	11.746	91	450574	86.36	ug/L		99
81)	o-Xylene	12.185	91	212258	43.29	ug/L		97
82)	Styrene	12.240	104	152409	42.61	ug/L		98
83)	Bromoform	12.301	173	35136	45.26	ug/L		95
84)	Isopropylbenzene	12.490	105	252728	44.81	ug/L		100
87)	cis-1,4-Dichloro-2-butene	12.849	53	17243	45.92	ug/L		96
88)	n-Propylbenzene	12.910	91	323305	43.18	ug/L		100
89)	Bromobenzene	12.941	156	57284	41.46	ug/L		98
90)	1,1,2,2-Tetrachloroethane	12.977	83	86008	43.48	ug/L		95
91)	1,3,5-Trimethylbenzene	13.093	105	203825	44.00	ug/L		99
92)	2-Chlorotoluene	13.105	91	205700	42.13	ug/L		100
93)	trans-1,4-Dichloro-2-B...	13.160	53	18095	44.77	ug/L		98
94)	1,2,3-Trichloropropane	13.142	110	20651	40.99	ug/L		96
95)	Cyclohexanone	13.221	55	13487	205.21	ug/L		92
96)	4-Chlorotoluene	13.270	91	175993	42.72	ug/L		99
98)	tert-Butylbenzene	13.435	91	110994	42.26	ug/L		98
99)	1,2,4-Trimethylbenzene	13.502	105	196088	43.44	ug/L		99
100)	Pentachloroethane	13.489	167	31717	42.00	ug/L		95
101)	sec-Butylbenzene	13.618	105	258207	43.42	ug/L		100
102)	4-Isopropyltoluene	13.746	119	202316	45.50	ug/L		97
103)	1,3-Dichlorobenzene	13.886	146	109176	41.89	ug/L		98
104)	1,2,3-Trimethylbenzene	13.959	105	222582	43.37	ug/L		100
105)	1,4-Dichlorobenzene	13.965	146	125428	41.40	ug/L		98
106)	n-Butylbenzene	14.166	92	113067	44.46	ug/L		96
107)	Benzyl Chloride	14.197	126	22756	48.60	ug/L	#	85
108)	1,2-Dichlorobenzene	14.386	146	99787	42.16	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

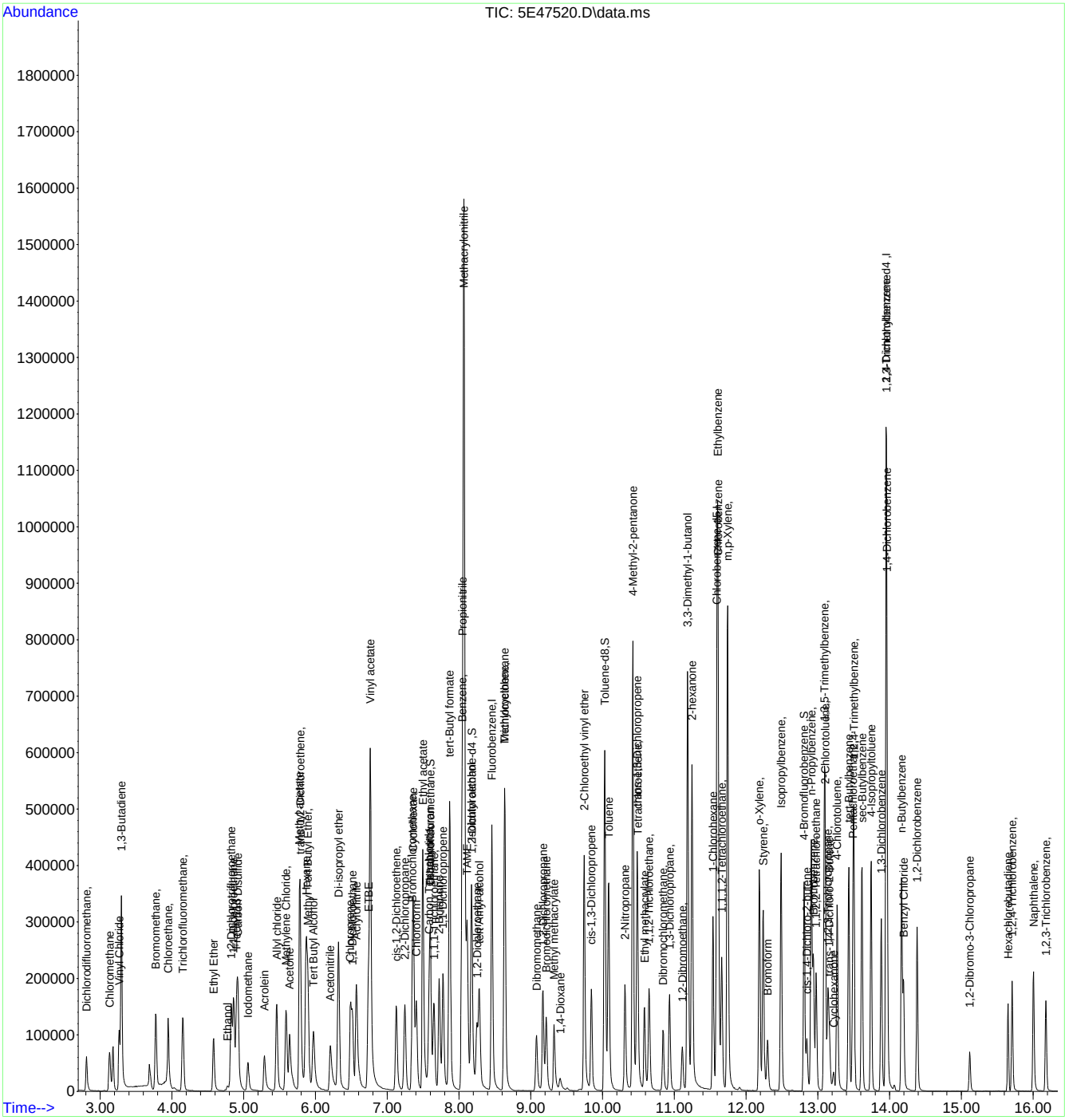
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	11412	40.04	ug/L	86
110) Hexachlorobutadiene	15.654	225	20936	43.19	ug/L	98
111) 1,2,4-Trichlorobenzene	15.709	180	50911	42.63	ug/L	95
112) Naphthalene	16.007	128	148607	39.79	ug/L	95
113) 1,2,3-Trichlorobenzene	16.178	180	43466	40.38	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\06-28-2024\
Data File : 5E47520.D
Acq On : 28 Jun 2024 9:44 am
Operator : lianatr
Sample : CC2113-5
Misc : MS56925,V5E2118,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:02:33 2024
Quant Method : C:\msdchem\1\methods\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.460	96	320948	50.00	ug/L	0.00
61) Chlorobenzene-d5	11.594	117	222025	50.00	ug/L	0.00
85) 1,4-Dichlorobenzene-d4	13.953	152	118502	50.00	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.607	113	82418	49.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.04%			
49) 1,2-Dichloroethane-d4	8.180	65	97946	50.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.34%			
62) Toluene-d8	10.033	98	303650	48.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.92%			
86) 4-Bromofluorobenzene	12.807	95	94024	48.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.809	85	42712	42.5764	ug/L	96
3) Chloromethane	3.132	50	70557	45.2205	ug/L	99
4) Vinyl Chloride	3.266	62	83875	40.8656	ug/L	99
5) 1,3-Butadiene	3.296	39	131316	52.3960	ug/L	91
6) Bromomethane	3.772	94	54178	38.5282	ug/L	99
7) Chloroethane	3.943	64	74175	49.7156	ug/L	99
8) Trichlorofluoromethane	4.156	101	78739	39.5801	ug/L	99
9) Ethyl Ether	4.577	59	44426	46.1607	ug/L	95
10) Ethanol	4.772	45	14083	699.6957	ug/L	91
11) 1,2-Dichlorotrifluoroe...	4.827	67	67965	66.8504	ug/L	96
12) 1,1-Dichloroethene	4.863	61	77799	45.4258	ug/L	98
13) Freon 113	4.900	101	49372	40.9625	ug/L	97
14) Carbon Disulfide	4.924	76	142719	42.3308	ug/L	100
15) Iodomethane	5.058	142	57913	44.3639	ug/L	94
16) Acrolein	5.290	56	47218	173.6004	ug/L	100
17) Allyl chloride	5.461	41	81331	42.4577	ug/L	95
18) Methylene Chloride	5.589	49	81247	43.5678	ug/L	96
19) Acetone	5.637	43	103690	183.1222	ug/L	99
20) Methyl acetate	5.778	43	292786	198.6785	ug/L	97
21) trans-1,2-Dichloroethene	5.790	61	75327	44.1598	ug/L	98
22) Hexane	5.869	56	47816	43.2694	ug/L	96
23) Methyl Tert Butyl Ether	5.894	73	141299	43.6945	ug/L	94
24) Acetonitrile	6.204	41	84891	397.6811	ug/L	97
25) Di-isopropyl ether	6.320	45	199507	46.0902	ug/L	98
26) Chloroprene	6.491	53	66713	44.9161	ug/L	97
27) 1,1-Dichloroethane	6.515	63	100912	44.6253	ug/L	98
28) Acrylonitrile	6.570	53	129389	206.2305	ug/L	98
29) ETBE	6.741	59	156530	45.1490	ug/L	98
30) Tert Butyl Alcohol	5.973	59	86330	334.5558	ug/L	98
31) Vinyl acetate	6.765	43	752996	198.7773	ug/L	99
32) cis-1,2-Dichloroethene	7.131	96	54633	43.3836	ug/L	98
33) 2,2-Dichloropropane	7.247	77	59708	40.9928	ug/L	97
34) Bromochloromethane	7.351	128	24932	46.1990	ug/L #	86
35) Cyclohexane	7.363	56	104070	49.4067	ug/L	97
36) Chloroform	7.405	83	92333	44.0317	ug/L	98
37) Ethyl acetate	7.497	43	418949	213.6185	ug/L	99
38) Tetrahydrofuran	7.594	42	30382	39.9840	ug/L	95
40) Carbon Tetrachloride	7.582	117	55797	39.3155	ug/L	97
41) 1,1,1-Trichloroethane	7.655	97	68465	42.5142	ug/L	97
42) 2-Butanone	7.722	43	195462	185.6902	ug/L	98
43) 1,1-Dichloropropene	7.777	75	69660	45.2702	ug/L	95
44) tert-Butyl formate	7.869	59	127261	404.9632	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45)	Propionitrile	8.046	54	115810	384.2560	ug/L		88
46)	Methacrylonitrile	8.070	41	574594	420.6467	ug/L		99
47)	Benzene	8.046	78	222202	43.2364	ug/L		98
48)	TAME	8.113	73	155086	46.9709	ug/L		99
50)	1,2-Dichloroethane	8.253	62	69299	44.5643	ug/L		97
51)	tert Amyl alcohol	8.283	59	61097	315.5936	ug/L		99
52)	Trichloroethene	8.637	95	53229	42.1723	ug/L		98
53)	Methylcyclohexane	8.637	83	94394	41.3032	ug/L		98
54)	Dibromomethane	9.082	93	34021	41.9148	ug/L		96
55)	1,2-Dichloropropane	9.167	63	54790	45.3655	ug/L		98
56)	Bromodichloromethane	9.216	83	61562	44.7712	ug/L		96
57)	Methyl methacrylate	9.326	41	54571	40.0694	ug/L		98
58)	1,4-Dioxane	9.411	88	11919	660.4460	ug/L		88
59)	2-Chloroethyl vinyl ether	9.746	63	122809	201.4662	ug/L		97
60)	cis-1,3-Dichloropropene	9.844	75	71652	39.8461	ug/L		98
63)	Toluene	10.088	91	209733	39.8261	ug/L		98
64)	Isobutyl alcohol	8.167	43	73043	786.0274	ug/L		95
65)	2-Nitropropane	10.313	41	59684	205.5100	ug/L		98
66)	4-Methyl-2-pentanone	10.423	43	426429	204.7953	ug/L		98
67)	trans-1,3-Dichloropropene	10.484	75	66160	39.0919	ug/L		90
68)	Tetrachloroethene	10.484	166	57149	44.9686	ug/L		97
69)	Ethyl methacrylate	10.588	69	67967	42.1358	ug/L		95
70)	1,1,2-Trichloroethane	10.649	83	42346	44.6777	ug/L		96
71)	Dibromochloromethane	10.844	129	40909	39.3910	ug/L		96
72)	1,3-Dichloropropane	10.935	76	77730	44.8779	ug/L		94
73)	1,2-Dibromoethane	11.112	107	44763	40.7790	ug/L		97
74)	3,3-Dimethyl-1-butanol	11.185	57	191162	1665.1028	ug/L		98
75)	2-hexanone	11.246	43	288182	183.5650	ug/L		97
76)	1-Chlorohexane	11.539	91	70745	46.6127	ug/L		96
77)	Ethylbenzene	11.606	91	248950	40.4899	ug/L		98
78)	Chlorobenzene	11.612	112	139989	42.1617	ug/L		98
79)	1,1,1,2-Tetrachloroethane	11.661	131	41493	43.7615	ug/L		92
80)	m,p-Xylene	11.746	91	371710	83.5725	ug/L		98
81)	o-Xylene	12.185	91	173891	41.6025	ug/L		99
82)	Styrene	12.240	104	127661	41.8663	ug/L		96
83)	Bromoform	12.301	173	25517	39.5156	ug/L		96
84)	Isopropylbenzene	12.490	105	207920	43.2505	ug/L		99
87)	cis-1,4-Dichloro-2-butene	12.849	53	8663	28.4718	ug/L		85
88)	n-Propylbenzene	12.910	91	263995	41.9573	ug/L		98
89)	Bromobenzene	12.941	156	49360	42.5108	ug/L		96
90)	1,1,2,2-Tetrachloroethane	12.977	83	71378	42.9326	ug/L		95
91)	1,3,5-Trimethylbenzene	13.087	105	166528	42.7801	ug/L		96
92)	2-Chlorotoluene	13.106	91	167448	40.8121	ug/L		99
93)	trans-1,4-Dichloro-2-B...	13.166	53	9348	27.5209	ug/L	#	71
94)	1,2,3-Trichloropropane	13.142	110	16779	39.6306	ug/L		94
95)	Cyclohexanone	13.221	55	9530	172.5448	ug/L		95
96)	4-Chlorotoluene	13.270	91	144599	41.7618	ug/L		98
98)	tert-Butylbenzene	13.435	91	91835	41.6037	ug/L		99
99)	1,2,4-Trimethylbenzene	13.502	105	160248	42.2470	ug/L		99
100)	Pentachloroethane	13.490	167	21458	33.8091	ug/L		98
101)	sec-Butylbenzene	13.618	105	207966	41.6085	ug/L		99
102)	4-Isopropyltoluene	13.746	119	164852	44.1171	ug/L		99
103)	1,3-Dichlorobenzene	13.886	146	90557	41.3491	ug/L		97
104)	1,2,3-Trimethylbenzene	13.959	105	186193	43.1679	ug/L		99
105)	1,4-Dichlorobenzene	13.965	146	105718	41.5224	ug/L		99
106)	n-Butylbenzene	14.166	92	87124	40.7686	ug/L		98
107)	Benzyl Chloride	14.197	126	13353	35.9492	ug/L	#	88
108)	1,2-Dichlorobenzene	14.386	146	84353	42.4075	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration

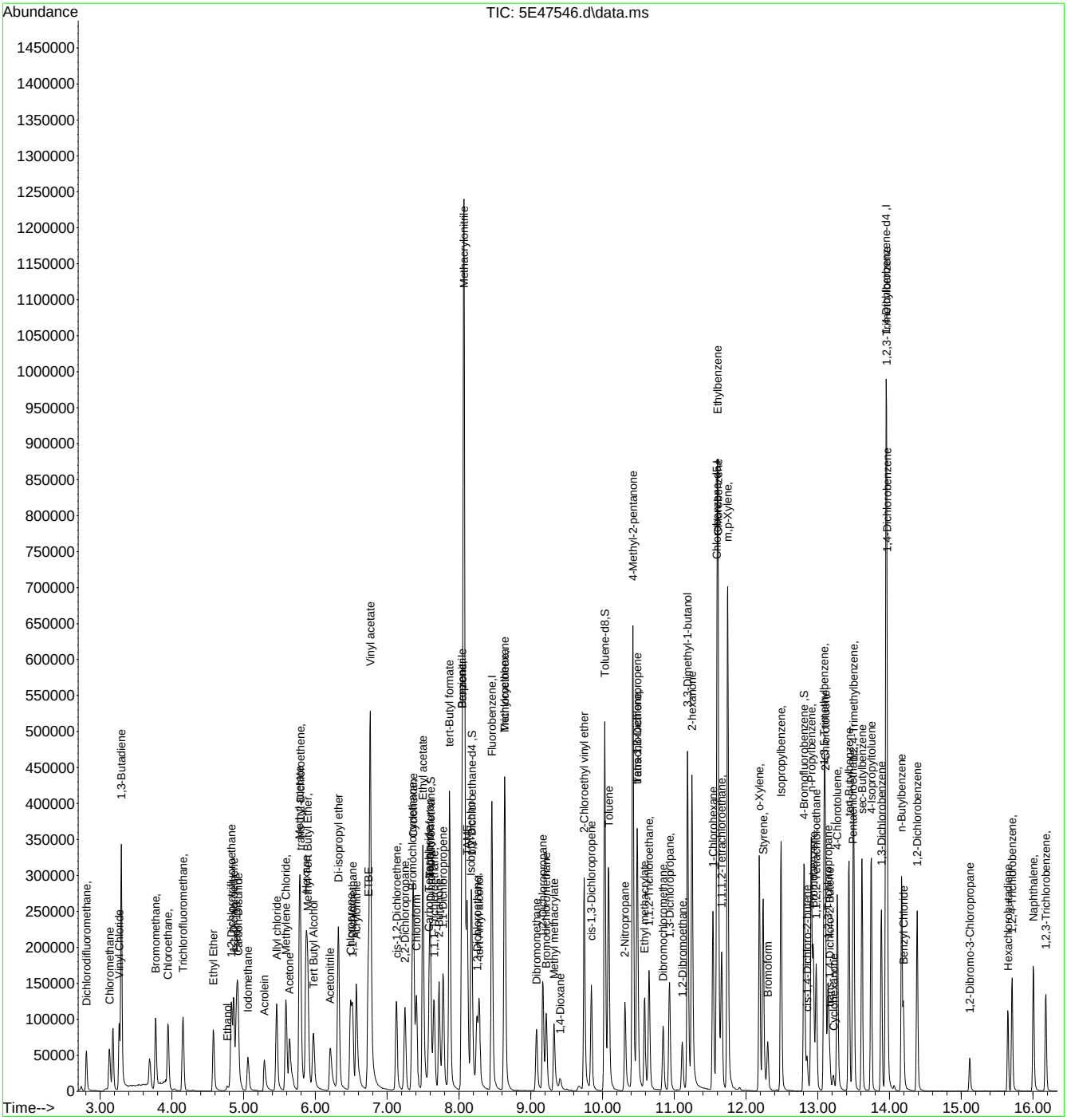
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) 1,2-Dibromo-3-Chloropr...	15.117	75	7982	33.3237	ug/L	94
110) Hexachlorobutadiene	15.654	225	15890	39.0021	ug/L	92
111) 1,2,4-Trichlorobenzene	15.709	180	42451	42.2935	ug/L	98
112) Naphthalene	16.001	128	121696	38.7775	ug/L	97
113) 1,2,3-Trichlorobenzene	16.178	180	37190	41.1136	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\V5E2118\
Data File : 5E47546.d
Acq On : 28 Jun 2024 7:53 pm
Operator : lianatr
Sample : ECC2113-5 Inst : MSVOA20_5E
Misc : MS56934,V5E2118,,,,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 01 06:41:37 2024
Quant Method : R:\GBS Manila Data Validator\LotusA\July-2024\V5E2118\METHOD\V5E2113_06252024_.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 26 06:41:21 2024
Response via : Initial Calibration



SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA12-2O
Date:	06/02/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.1 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V1O3054_06022024.M
Calibration Date:	06/02/2024
Acq. Method:	RTXFAST.M
EM Voltage:	1529V
Run ID:	**V1O3054**

BFB:	VS3934
ICAL/CC:	VS3971, VS3985, VS3979
VS3976, VS3995, VS3991,VS4003,,	
ICV/BS:	VS3986, VS3950, VS3996
VS3972, VS3981, VS3990,	
ISTD/Surr.:	VS3934

pH Paper Lot#:	230320/206722
KI Paper Lot#:	14-860 5/9/2022
AFA Lot#:	VS3667
Data processed by:	Jenifer W/Antonett
Sample ID Ver. by:	Jenifer W
Date Verified:	06/02/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
1O84557	BFB	-	-	Water	1	-	-	-	-	Passed autofind✓
1O84558	IC3054-1	-	-	Water	2	-	-	-	-	1uL→100mL w/ 273uL MeOH PBL#49,76 MP#4,6,15,34,59,83,87,94,95,100,105,107,109,110
1O84559	IC3054-8	-	-	Water	2	-	-	-	-	2uL→100mL w/ 266uL MeOH- GC lost connection; discard
1O84560	rinse	-	-	Water	3	-	-	-	-	
1O84561	IC3054-8	-	-	Water	4	-	-	-	-	2uL→100mL w/ 266uL MeOH PBL#49,76 MP#6,15,95,105
1O84562	IC3054-2	-	-	Water	5	-	-	-	-	5uL→100mL w/ 245uL MeOH PBL#49,76
1O84563	IC3054-3	-	-	Water	6	-	-	-	-	10uL→100mL w/ 210uL MeOH PBL#49,76
1O84564	IC3054-4	-	-	Water	7	-	-	-	-	25uL→100mL w/ 105uL MeOH OP#40 PBL#49,76
1O84565	IC3054-5	-	-	Water	8	-	-	-	-	40uL→100mL OP#40 PBL#49,76
1O84566	IC3054-6	-	-	Water	9	-	-	-	-	70uL→100mL OP#40 PBL#49,76
1O84567	IC3054-7	-	-	Water	10	-	-	-	-	100uL→100mL OP#40 PBL#49,76
1O84568	rinse	-	-	Water	11	-	-	-	-	
1O84569	ICV3054-5	-	-	Water	12	-	-	-	-	40uL→100mL OP#40 PBL#49,76
1O84570	BS	-	-	Water	13	-	-	-	-	25uL→100mL w/ 105uL MeOH OP#40 PBL#49,76
1O84571	rinse	-	-	Water	14	-	-	-	-	
1O84572	MB	-	-	Water	15	-	-	-	-	AFA, ND
1O84573	FC15887-9	-	2	Water	16	MS56723	1	N	-	Pass
1O84574	FC16026-13	-	1	Water	17	MS56723	1	N	-	ND Pass
1O84575	FC15988-10	-	1	Water	18	MS56723	7	N	-	ND Pass
1O84576	FC15988-8	-	4	Water	19	MS56723	7	N	-	ND Pass
1O84577	FC15988-9	-	4	Water	20	MS56723	7	N	-	ND Pass
1O84578	FC15976-1	-	1	Water	21	MS56723	1	N	-	Pass
1O84579	FC15976-2	-	1	Water	22	MS56723	1	N	-	Pass
1O84580	FC15887-9MS	5X	2	Water	23	MS56723	1	N	-	20mL→100mL spike 25uL→100mL OP#40 PBL#49,76
1O84581	FC15887-9MSD	5X	2	Water	24	MS56723	1	N	-	20mL→100mL spike 25uL→100mL OP#40 PBL#49,76
1O84582	ECC3054-4	-	-	Water	25	-	-	-	-	40uL→100mL OP#40 PBL#49,76

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA12-2O
Date:	07/01/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.1 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V1O3054_06022024.M
Calibration Date:	06/02/2024
Acq. Method:	VO_8260.M
EM Voltage:	1529V
Run ID:	**V1O3089**

BFB:	VS4055
ICAL/CC:	VS4004, VS4045, VS4031
VS4032, VS4029, VS4028,VS4062,,	
ICV/BS:	VS4054, VS4020, VS4027
VS4038, VS4039, VS4063,	
ISTD/Surr.:	VS4055

pH Paper Lot#:	230320/206722
KI Paper Lot#:	14-860 5/9/2022
AFA Lot#:	VS3860
Data processed by:	Jenifer W/LotusA
Sample ID Ver. by:	Jenifer W
Date Verified:	07/01/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
1O85452	BFB	-	-	Water	1	-	-	-	-	Passed autofind✓
1O85453	CC3054-4	-	-	Water	2	-	-	-	-	25uL→100mL w/ 100uL MeOH OP#40 PBL#49,76 ✓
1O85454	BS	-	-	Water	3	-	-	-	-	25uL→100mL w/ 100uL MeOH OP#40 PBL#49,76 ✓
1O85455	rinse	-	-	Water	4	-	-	-	-	
1O85456	MB	-	-	Water	5	-	-	-	-	AFA, ND ✓
1O85457	FC16592-1	10X	6	Water	6	MS56946	1	N	-	5mL→50mL ✓
1O85458	FC16745-8	-	3	Water	7	MS56946	1	N	-	ND ✓
1O85459	FC16745-9	-	1	Water	8	MS56946	1	N	-	ND ✓
1O85460	FC16745-10	-	1	Water	9	MS56946	1	N	-	ND ✓
1O85461	FC16745-11	-	1	Water	10	MS56946	1	N	-	ND ✓
1O85462	FC16724-12	-	2	Water	11	MS56946	7	N	-	✓
1O85463	FC16724-11	5X	2	Water	12	MS56946	7	N	-	10mL→50mL ✓
1O85464	FC16694-1	-	1	Water	13	MS56946	1	N	-	✓
1O85465	**FC16694-2**	**-**	**1**	**Water**	**14**	**MS56946**	1	N	**2X**	**✓ TCE O/R**
1O85466	FC16694-3	2.5X	1	Water	15	MS56946	1	N	-	20mL→50mL ✓
1O85467	FC16694-4	2.5X	1	Water	16	MS56946	1	N	-	20mL→50mL ✓
1O85468	FC16694-5	20X	1	Water	17	MS56946	1	N	-	2.5mL→50mL ✓
1O85469	**FC16694-6**	**100X**	**1**	**Water**	**18**	**MS56946**	1	N	**20X**	**500uL→50mL ✓ RR O/D**
1O85470	FC16694-7	-	2	Water	19	MS56946	1	N	-	✓
1O85471	FC16694-8	2,500X	4	Water	20	MS56946	1	N	-	20uL→50mL ✓
1O85472	**FC16694-9**	**100X**	**4**	**Water**	**21**	**MS56946**	1	N	**200X**	**500uL→50mL ✓ TCE O/R**
1O85473	FC16722-2	-	2	Water	22	MS56946	1	N	-	AFA ✓
1O85474	FC16722-4	5X	2	Water	23	MS56946	1	N	-	AFA 10mL→50mL ✓
1O85475	FC16722-5	-	2	Water	24	MS56946	1	N	-	AFA ✓
1O85476	FC16722-6	2.5X	2	Water	25	MS56946	1	N	-	AFA 20mL→50mL ✓
1O85477	FC16592-1MS	10X	6	Water	26	MS56946	1	N	-	10mL→100mL spike 25uL→100mL OP#40 PBL#49,76 ✓
1O85478	FC16592-1MSD	10X	6	Water	27	MS56946	1	N	-	10mL→100mL spike 25uL→100mL OP#40 PBL#49,76 ✓
1O85479	ECC3054-4	-	-	Water	28	-	-	-	-	25uL→100mL w/ 100uL MeOH OP#40 PBL#49,76 ✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA17-1A
Date:	06/25/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.4 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V2A1910_06252024.M
Calibration Date:	06/25/2024
Acq. Method:	VA_8260.M
EM Voltage:	1576V
Run ID:	**V2A1910**

BFB:	VS4022
ICAL/CC:	VS4004, VS4045, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4022

pH Paper Lot#:	230320A/211623A
KI Paper Lot#:	14-860 03/13/23
AFA Lot#:	VS3860
Data processed by:	Jenifer W
Sample ID Ver. by:	Jenifer W
Date Verified:	06/25/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
2A56264	BFB	-	-	Water	51	-	-	-	-	Autofind Tune Passed✓
2A56266	IC1910-1	-	-	Water	52	-	-	-	-	1uL→100mL OP#40 PBL#76,77 MP#15,59,87,94,95,104,106,108
2A56268	IC1910-8	-	-	Water	53	-	-	-	-	2uL→100mL OP#40 PBL#76,77 MP#36,59,94,104,106,108
2A56270	IC1910-2	-	-	Water	54	-	-	-	-	5uL→100mL OP#40 PBL#10,76,77
2A56272	IC1910-3	-	-	Water	55	-	-	-	-	10uL→100mL OP#40 PBL#10,76,77
2A56274	IC1910-4	-	-	Water	56	-	-	-	-	25uL→100mL OP#40 PBL #76,77
2A56276	ICC1910-5	-	-	Water	57	-	-	-	-	40uL→100mL OP#40 PBL #76,77
2A56278	IC1910-6	-	-	Water	58	-	-	-	-	70uL→100mL OP#40 PBL #76,77
2A56280	IC1910-7	-	-	Water	59	-	-	-	-	100uL→100mL OP#40 PBL #76,77
2A56282	rinse	-	-	Water	60	-	-	-	-	
2A56284	ICV1910-5	-	-	Water	61	-	-	-	-	40uL→100mL OP#40 PBL #76,77
2A56286	BS	-	-	Water	62	-	-	-	-	25uL→100mL OP#40 PBL #76,77
2A56287	rinse	-	-	Water	63	-	-	-	-	
2A56288	MB	-	-	Water	64	-	-	-	-	AFA, ND✓
2A56290	FC16589-2	-	12	Water	65	MS56910	1	N	-	DCFM only; PBL#77 ✓
2A56291	FC16485-13	-	5	Water	66	MS56910	1	N	-	TCFM only ✓
2A56292	FC16447-2	-	2	Water	67	MS56910	1	N	-	✓
2A56293	FC16447-23	-	3	Water	68	MS56910	1	N	-	CH only ✓
2A56294	FC16443-6	-	1	Water	69	MS56910	1	N	-	✓
2A56295	FC16589-2MS	-	1	Water	70	MS56910	1	N	-	spike 10uL→40mL OP#40,76,77 ✓
2A56296	FC16589-2MSD	-	14	Water	71	MS56910	1	N	-	spike 10uL→40mL OP#40,76,77 ✓
2A56297	ECC1910-4	-	-	Water	72	-	-	-	-	25uL→100mL OP#40,76,77 ✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA17-1A
Date:	06/27/2024
Analyst:	Jenifer W
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	1.4 psi
Purge Volume	5mL

Method(s):	VMS8260
Method File:	V2A1910_06252024.M
Calibration Date:	06/25/2024
Acq. Method:	VA_8260.M
EM Voltage:	1576V
Run ID:	**V2A1913**

BFB:	VS4022
ICAL/CC:	VS4004, VS4045, VS4031
VS4032, VS4056, VS4057,VS4052,,	
ICV/BS:	VS4054, VS4020, VS4058
VS4038, VS4039, VS4053,	
ISTD/Surr.:	VS4022

pH Paper Lot#:	230320A/211623A
KI Paper Lot#:	14-860 03/13/23
AFA Lot#:	VS3860
Data processed by:	Jenifer W/ Jhenelle B
Sample ID Ver. by:	Jenifer W
Date Verified:	06/27/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
2A56353	BFB	-	-	Water	1	-	-	-	-	Autofind Tune Passed✓
2A56354	CC1910-4	-	-	Water	2	-	-	-	-	25uL→100mL OP#40,76,77 ✓
2A56355	BS	-	-	Water	3	-	-	-	-	25uL→100mL PBL#76,77 OP#40 ✓
2A56356	rinse	-	-	Water	4	-	-	-	-	
2A56357	MB	-	-	Water	5	-	-	-	-	AFA, ND✓
2A56358	FC16592-20	-	2	Water	6	MS56922	1	N	-	ND✓
2A56359	FC16724-1	-	1	Water	7	MS56922	1	N	-	ND✓
2A56360	FC16724-2	-	1	Water	8	MS56922	7	N	-	✓
2A56361	FC16724-3	-	1	Water	9	MS56922	7	N	-	✓
2A56362	FC16724-4	-	1	Water	10	MS56922	7	N	-	✓
2A56363	FC16724-5	-	1	Water	11	MS56922	7	N	-	ND✓
2A56364	FC16724-6	-	1	Water	12	MS56922	7	N	-	ND✓
2A56365	FC16724-7	-	1	Water	13	MS56922	7	N	-	✓
2A56366	FC16724-8	-	1	Water	14	MS56922	7	N	-	ND✓
2A56367	FC16724-9	-	1	Water	15	MS56922	7	N	-	✓
2A56368	FC16724-10	-	1	Water	16	MS56922	7	N	-	✓
2A56369	**FC16724-11**	**-**	**1**	**Water**	**17**	**MS56922**	7	N	**5x**	**c12DCE O/R**
2A56370	FC16724-12	-	1	Water	18	MS56922	7	N	1x	**c12DCE C/O**
2A56371	FC16724-13	-	1	Water	19	MS56922	7	N	-	✓
2A56372	FC16592-14	-	1	Water	20	MS56922	1	N	-	✓
2A56373	FC16592-15	-	1	Water	21	MS56922	1	N	-	ND✓
2A56374	FC16592-16	-	1	Water	22	MS56922	1	N	-	✓
2A56375	FC16592-17	-	1	Water	23	MS56922	1	N	-	✓
2A56376	FC16592-18	-	1	Water	24	MS56922	1	N	-	✓
2A56377	FC16592-19	-	1	Water	25	MS56922	1	N	-	✓
2A56378	FC16724-2MS	5x	1	Water	26	MS56922	7	N	-	20mL→100mL spike 25uL→100mL OP#40,76,77 ✓
2A56379	FC16724-2MSD	5x	1	Water	27	MS56922	7	N	-	20mL→100mL spike 25uL→100mL OP#40,76,77 ✓
2A56380	ECC1910-4	-	-	Water	28	-	-	-	-	25uL→100mL OP#40,76,77 ✓

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA20-5E
Date:	6/25/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2113**

BFB:	VS4048
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS4048

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/2022
AFA Lot#:	VS3511
Data processed by:	Liana T
Sample ID Ver. by:	Liana T
Date Verified:	6/25/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47450	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47451	IC2113-1	-	-	Water	2	-	-	-	-	1uL(-)100mL✓
5E47452	IC2113-8	-	-	Water	3	-	-	-	-	2uL(-)100mL✓
5E47453	IC2113-2	-	-	Water	4	-	-	-	-	5uL(-)100mL✓
5E47454	IC2113-3	-	-	Water	5	-	-	-	-	5uL(-)50mL✓
5E47455	IC2113-4	-	-	Water	6	-	-	-	-	12.5uL(-)50mL✓
5E47456	ICC2113-5	-	-	Water	7	-	-	-	-	20uL(-)50mL✓
5E47457	IC2113-6	-	-	Water	8	-	-	-	-	35uL(-)50mL✓
5E47458	IC2113-7	-	-	Water	9	-	-	-	-	50uL(-)50mL✓
5E47459	BLANK	-	-	Water	10	-	-	-	-	-
5E47460	ICV2113-5	-	-	Water	11	-	-	-	-	20uL(-)50mL✓
5E47461	ICV2113-4	-	-	Water	12	-	-	-	-	12.5uL(-)50mL

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

SGS -ORLANDO **VOA-GCMS ANALYSIS LOG**

Instrument:	MSVOA20-5E
Date:	6/28/2024
Analyst:	Liana T
Column Type	RTXVMS
Detector	5975 MSD
Purge Pressure	1.1 PSI
Purge Volume	5 mL

Method(s):	8260
Method File:	V5E2113_06252024_.M
Calibration Date:	6/25/2024
Acq. Method:	8260VMSVI
EM Voltage:	1000V
Run ID:	**V5E2118**

BFB:	VS3987
ICAL/CC:	VS4004, VS4019, VS4031
VS4032, VS4029, VS4028,VS4033,,	
ICV/BS:	VS4021, VS4020, VS4027
VS4038, VS4039, VS4034,	
ISTD/Surr.:	VS3987

pH Paper Lot#:	206722
KI Paper Lot#:	14-860;05/09/2022
AFA Lot#:	VS3511
Data processed by:	Liana T/LotusA
Sample ID Ver. by:	Liana T
Date Verified:	6/28/2024

Data File	Sample ID	Dilution Factor	Vial #	Matrix	A.S. Pos.	Work Group	pH	CI? (Y/N)	RR	Comments and Manually Integrated Peaks (Peak # and Rational)
5E47519	BFB	-	-	Water	1	-	-	-	-	Autotune Passed✓
5E47520	CC2113-5	-	-	Water	2	-	-	-	-	40uL(-)100mL✓
5E47521	BS	-	-	Water	3	-	-	-	-	25uL(-)100mL
5E47522	BLANK	-	-	Water	4	-	-	-	-	-
5E47523	MB	-	-	Water	5	-	-	-	-	AFA
5E47524	**FC16592-1**	**-**	**1**	**Water**	**6**	**MS56934**	**1**	**N**	**10X**	**cis12DCE, TCE OR ✓**
5E47525	FC16592-2	-	1	Water	7	MS56934	1	N	-	✓
5E47526	FC16592-3	-	1	Water	8	MS56934	1	N	-	ND ✓
5E47527	FC16592-4	-	1	Water	9	MS56934	1	N	-	ND ✓
5E47528	FC16592-5	-	1	Water	10	MS56934	1	N	-	ND ✓
5E47529	FC16592-6	-	1	Water	11	MS56934	1	N	-	✓
5E47530	FC16592-7	-	1	Water	12	MS56934	1	N	-	ND ✓
5E47531	FC16592-8	-	1	Water	13	MS56934	1	N	-	✓
5E47532	FC16592-9	-	1	Water	14	MS56934	1	N	-	ND ✓
5E47533	FC16592-10	10X	1	Water	15	MS56934	1	N	-	5mL(-)50mL ✓
5E47534	FC16592-11	-	1	Water	16	MS56934	1	N	-	ND ✓
5E47535	FC16592-12	-	1	Water	17	MS56934	1	N	-	✓
5E47536	FC16592-13	-	1	Water	18	MS56934	1	N	-	ND ✓
5E47537	FC16634-1	-	1	Water	19	MS56934	1	N	-	✓
5E47538	FC16634-2	-	1	Water	20	MS56934	1	N	-	✓
5E47539	FC16634-3	-	1	Water	21	MS56934	1	N	-	✓
5E47540	FC16634-4	-	1	Water	22	MS56934	1	N	-	✓
5E47541	FC16634-5	-	1	Water	23	MS56934	1	N	-	✓
5E47542	FC16634-6	-	1	Water	24	MS56934	1	N	-	✓
5E47543	FC16634-7	-	1	Water	25	MS56934	1	N	-	ND ✓
5E47544	FC16592-2MS	5X	1	Water	26	MS56934	1	N	-	20mL(-)100mL, Spiked 25uL(-)100mL
5E47545	FC16592-2MSD	5X	1	Water	27	MS56934	1	N	-	20mL(-)100mL, Spiked 25uL(-)100mL
5E47546	ECC2113-5	-	-	Water	28	-	-	-	-	40uL(-)100mL

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate
Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3144-MB	LL90284.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-1, FC16592-3, FC16592-20

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3145-MB	LL90316.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-3

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3144-BS	LL90280.D	1	06/27/24	JR	n/a	n/a	GLL3144
GLL3144-BSD	LL90281.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-1, FC16592-3, FC16592-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	106	98	109	101	3	62-139/30
74-84-0	Ethane	219	215	98	221	101	3	67-141/30
74-85-1	Ethene	290	296	102	303	104	2	68-141/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLL3145-BS	LL90312.D	1	06/28/24	JR	n/a	n/a	GLL3145
GLL3145-BSD	LL90313.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
74-82-8	Methane	108	102	94	110	102	8	62-139/30

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5MS	LL90287.D	1	06/27/24	JR	n/a	n/a	GLL3144
FC16561-5	LL90285.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-1, FC16592-3, FC16592-20

CAS No.	Compound	FC16561-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	0.50 U		108	105	97	62-139
74-84-0	Ethane	1.0 U		219	214	98	67-141
74-85-1	Ethene	1.0 U		290	295	102	68-141

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16768-1MS	LL90321.D	1	06/28/24	JR	n/a	n/a	GLL3145
FC16768-1	LL90317.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-3

CAS No.	Compound	FC16768-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	2.2		108	103	93	62-139

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16561-5DUP	LL90286.D	1	06/27/24	JR	n/a	n/a	GLL3144
FC16561-5	LL90285.D	1	06/27/24	JR	n/a	n/a	GLL3144

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-1, FC16592-3, FC16592-20

CAS No.	Compound	FC16561-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.50 U		0.20	J	200*	30
74-84-0	Ethane	1.0 U		ND		nc	30
74-85-1	Ethene	1.0 U		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC16768-6DUP	LL90324.D	1	06/28/24	JR	n/a	n/a	GLL3145
FC16768-6 [a]	LL90319.D	1	06/28/24	JR	n/a	n/a	GLL3145

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FC16592-3

CAS No.	Compound	FC16768-6 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	0.50 U		0.27	J	200*	30

(a) Associated DUP RPD outside DOD QSM control limits due to ND J-value result.

* = Outside of Control Limits.

Initial Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3025-ICC3025
Lab FileID: LL87265.D

Response Factor Report FID4-LL

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Initial Calibration

Calibration Files
1 =LL87261.D 2 =LL87262.D 3 =LL87263.D 4 =LL87264.D
5 =LL87265.D 6 =LL87266.D 7 =LL87267.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methane	8.943	6.012	6.518	6.828	6.925	7.025	6.881	7.019 E5	13.04

---- Linear regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 691014.23613 *A

2) Acetylene	1.389	1.402	1.513	1.637	1.670	1.629	1.617	1.551 E6	7.54
3) Ethylene	1.120	1.229	1.113	1.186	1.193	1.242	1.213	1.185 E6	4.27
4) Ethane	1.171	1.253	1.166	1.260	1.253	1.315	1.261	1.240 E6	4.30
5) Propane	1.059	1.278	1.467	1.652	1.667	1.766	1.713	1.515 E6	17.26

---- Linear regr., Force(0,0) ---- Coefficient = 0.9998
Response Ratio = 0.00000 + 1722955.23426 *A

(#) = Out of Range

RSK01102024.M Thu Jan 11 07:59:25 2024

8.5.1

Initial Calibration Verification

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3025-ICV3025
Lab FileID: LL87269.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	944.620	5.5	94	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	970.589	2.9	90	0.00	0.29- 0.89
3	Ethylene	1000.000	968.908	3.1	96	0.00	0.35- 1.15
4	Ethane	1000.000	952.404	4.8	94	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	930.516	6.9	96	0.00	0.00- 6.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Thu Jan 11 07:57:59 2024

8.5.2

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90279.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90279.d Vial: 2
Acq On : 27-Jun-24, 08:44:56 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1007.802	-0.8	101	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1065.223	-6.5	99	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.962	-0.4	100	0.00	0.35- 1.15
4	Ethane	1000.000	1007.205	-0.7	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	940.056	6.0	97	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Fri Jun 28 09:08:37 2024

8.5.3

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90290.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90290.d Vial: 13
Acq On : 27-Jun-24, 11:11:47 Operator: jennr
Sample : cc3025-4 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,250,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	500.000	523.932	-4.8	106	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	500.000	553.185	-10.6	105	0.00	0.28- 0.88
3	Ethylene	500.000	525.041	-5.0	105	0.00	0.35- 1.15
4	Ethane	500.000	530.393	-6.1	104	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	500.000	497.354	0.5	104	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87264.D RSK01102024.M Fri Jun 28 09:09:02 2024

8.5.4

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3144-CC3025
Lab FileID: LL90301.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062724\LL90301.d Vial: 24
Acq On : 27-Jun-24, 12:50:13 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24887,gll3144,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	987.292	1.3	99	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1049.883	-5.0	97	0.00	0.28- 0.88
3	Ethylene	1000.000	991.180	0.9	98	0.00	0.35- 1.15
4	Ethane	1000.000	996.381	0.4	99	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	934.175	6.6	97	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Fri Jun 28 09:08:40 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90311.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90311.d Vial: 2
Acq On : 28-Jun-24, 09:16:24 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1001.887	-0.2	100	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1059.730	-6.0	98	0.00	0.28- 0.88
3	Ethylene	1000.000	1003.894	-0.4	100	0.00	0.35- 1.15
4	Ethane	1000.000	1007.497	-0.7	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	932.678	6.7	96	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Tue Jul 02 07:51:07 2024

8.5.6

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90322.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90322.d Vial: 13
Acq On : 28-Jun-24, 11:33:12 Operator: jennr
Sample : cc3025-4 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,250,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
		Amount	Calc.	%Drift			
1	Methane	500.000	538.117	-7.6	109	0.00	0.02- 0.55
		Amount	Calc.	%Drift			
2	Acetylene	500.000	567.405	-13.5	108	0.00	0.28- 0.88
3	Ethylene	500.000	539.768	-8.0	108	0.00	0.35- 1.15
4	Ethane	500.000	545.069	-9.0	107	0.00	0.56- 1.36
		Amount	Calc.	%Drift			
5	Propane	500.000	507.283	-1.5	106	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87264.D RSK01102024.M Tue Jul 02 07:51:33 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-CC3025
Lab FileID: LL90333.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90333.d Vial: 24
Acq On : 28-Jun-24, 13:05:46 Operator: jennr
Sample : cc3025-5 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	1014.850	-1.5	101	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1077.297	-7.7	100	0.00	0.28- 0.88
3	Ethylene	1000.000	1018.469	-1.8	101	0.00	0.35- 1.15
4	Ethane	1000.000	1024.572	-2.5	101	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	962.593	3.7	100	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Tue Jul 02 07:51:09 2024

Continuing Calibration Summary

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Sample: GLL3145-ECC3025
Lab FileID: LL90341.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\062824\LL90341.d Vial: 32
Acq On : 28-Jun-24, 14:08:41 Operator: jennr
Sample : ecc3025-5 Inst : HP G1530A
Misc : gc24892,gll3145,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\msdchem\1\methods\RSK01102024.M (ChemStation Integrator)
Title : Dissolved Gases in Water
Last Update : Tue Feb 13 08:59:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
	----------	Amount	Calc.	%Drift	----------		
1	Methane	1000.000	991.623	0.8	99	0.00	0.02- 0.55
	----------	Amount	Calc.	%Drift	----------		
2	Acetylene	1000.000	1056.386	-5.6	98	0.00	0.28- 0.88
3	Ethylene	1000.000	999.583	0.0	99	0.00	0.35- 1.15
4	Ethane	1000.000	1008.593	-0.9	100	0.00	0.56- 1.36
	----------	Amount	Calc.	%Drift	----------		
5	Propane	1000.000	949.047	5.1	98	0.00	0.00- 6.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
LL87265.D RSK01102024.M Tue Jul 02 07:51:11 2024

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3025 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3025-IC3025	LL87261.D	01/10/24 12:04	n/a	Initial cal 1
GLL3025-IC3025	LL87262.D	01/10/24 12:12	n/a	Initial cal 2
GLL3025-IC3025	LL87263.D	01/10/24 12:21	n/a	Initial cal 3
GLL3025-IC3025	LL87264.D	01/10/24 12:30	n/a	Initial cal 4
GLL3025-ICC3025	LL87265.D	01/10/24 12:39	n/a	Initial cal 5
GLL3025-IC3025	LL87266.D	01/10/24 12:49	n/a	Initial cal 6
GLL3025-IC3025	LL87267.D	01/10/24 12:57	n/a	Initial cal 7
GLL3025-ICV3025	LL87269.D	01/10/24 13:14	n/a	Initial cal verification 5
GLL3025-CC3025	LL87269A.D	01/10/24 13:14	n/a	Continuing cal 5
GLL3025-BS	LL87270.D	01/10/24 13:32	n/a	Blank Spike
GLL3025-BSD	LL87271.D	01/10/24 13:42	n/a	Blank Spike Duplicate
GLL3025-MB	LL87272.D	01/10/24 13:49	n/a	Method Blank
FC12419-1B	LL87273.D	01/10/24 13:56	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	LL87274.D	01/10/24 14:04	n/a	(unrelated sample)
ZZZZZZ	LL87275.D	01/10/24 14:11	n/a	(unrelated sample)
ZZZZZZ	LL87276.D	01/10/24 14:18	n/a	(unrelated sample)
FC12419-1BMS	LL87277.D	01/10/24 14:26	n/a	Matrix Spike
FC12419-6B	LL87278.D	01/10/24 14:34	n/a	(used for QC only; not part of job FC16592)
FC12419-6BDUP	LL87279.D	01/10/24 14:41	n/a	Duplicate
GLL3025-ECC3025	LL87280.D	01/10/24 14:48	n/a	Ending cal 4

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3144 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3144-CC3025	LL90279.D	06/27/24 08:44	n/a	Continuing cal 5
GLL3144-BS	LL90280.D	06/27/24 08:55	n/a	Blank Spike
GLL3144-BSD	LL90281.D	06/27/24 09:03	n/a	Blank Spike Duplicate
GLL3144-MB	LL90284.D	06/27/24 10:14	n/a	Method Blank
FC16561-5	LL90285.D	06/27/24 10:26	n/a	(used for QC only; not part of job FC16592)
FC16561-5DUP	LL90286.D	06/27/24 10:34	n/a	Duplicate
FC16561-5MS	LL90287.D	06/27/24 10:43	n/a	Matrix Spike
ZZZZZZ	LL90288.D	06/27/24 10:51	n/a	(unrelated sample)
ZZZZZZ	LL90289.D	06/27/24 10:58	n/a	(unrelated sample)
GLL3144-CC3025	LL90290.D	06/27/24 11:11	n/a	Continuing cal 4
FC16592-1	LL90292.D	06/27/24 11:26	n/a	SEAD-AL-PT-18A-20240619
FC16592-3	LL90293.D	06/27/24 11:33	n/a	SEAD-AL-MWT-28-20240619
FC16592-20	LL90294.D	06/27/24 11:43	n/a	TRIP BLANK
ZZZZZZ	LL90295.D	06/27/24 11:53	n/a	(unrelated sample)
ZZZZZZ	LL90296.D	06/27/24 12:01	n/a	(unrelated sample)
ZZZZZZ	LL90297.D	06/27/24 12:09	n/a	(unrelated sample)
ZZZZZZ	LL90298.D	06/27/24 12:16	n/a	(unrelated sample)
ZZZZZZ	LL90299.D	06/27/24 12:25	n/a	(unrelated sample)
ZZZZZZ	LL90300.D	06/27/24 12:32	n/a	(unrelated sample)
GLL3144-CC3025	LL90301.D	06/27/24 12:50	n/a	Continuing cal 5
ZZZZZZ	LL90303.D	06/27/24 13:05	n/a	(unrelated sample)
ZZZZZZ	LL90304.D	06/27/24 13:21	n/a	(unrelated sample)
ZZZZZZ	LL90305.D	06/27/24 13:48	n/a	(unrelated sample)
ZZZZZZ	LL90306.D	06/27/24 13:55	n/a	(unrelated sample)
ZZZZZZ	LL90307.D	06/27/24 14:04	n/a	(unrelated sample)
ZZZZZZ	LL90308.D	06/27/24 14:11	n/a	(unrelated sample)
GLL3144-ECC3025	LL90309.D	06/27/24 14:19	n/a	Ending cal 5

Run Sequence Report

Job Number: FC16592
Account: EAENYS EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Run ID: GLL3145 **Method:** RSKSOP-147/175 **Instrument ID:** GCLL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GLL3145-CC3025	LL90311.D	06/28/24 09:16	n/a	Continuing cal 5
GLL3145-BS	LL90312.D	06/28/24 09:25	n/a	Blank Spike
GLL3145-BSD	LL90313.D	06/28/24 09:36	n/a	Blank Spike Duplicate
GLL3145-MB	LL90316.D	06/28/24 10:41	n/a	Method Blank
FC16768-1	LL90317.D	06/28/24 10:56	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	LL90318.D	06/28/24 11:03	n/a	(unrelated sample)
FC16768-6	LL90319.D	06/28/24 11:11	n/a	(used for QC only; not part of job FC16592)
ZZZZZZ	LL90320.D	06/28/24 11:18	n/a	(unrelated sample)
FC16768-1MS	LL90321.D	06/28/24 11:25	n/a	Matrix Spike
GLL3145-CC3025	LL90322.D	06/28/24 11:33	n/a	Continuing cal 4
FC16768-6DUP	LL90324.D	06/28/24 11:48	n/a	Duplicate
ZZZZZZ	LL90325.D	06/28/24 11:56	n/a	(unrelated sample)
ZZZZZZ	LL90326.D	06/28/24 12:03	n/a	(unrelated sample)
ZZZZZZ	LL90327.D	06/28/24 12:15	n/a	(unrelated sample)
ZZZZZZ	LL90328.D	06/28/24 12:25	n/a	(unrelated sample)
ZZZZZZ	LL90329.D	06/28/24 12:34	n/a	(unrelated sample)
ZZZZZZ	LL90330.D	06/28/24 12:43	n/a	(unrelated sample)
ZZZZZZ	LL90331.D	06/28/24 12:50	n/a	(unrelated sample)
ZZZZZZ	LL90332.D	06/28/24 12:57	n/a	(unrelated sample)
GLL3145-CC3025	LL90333.D	06/28/24 13:05	n/a	Continuing cal 5
ZZZZZZ	LL90335.D	06/28/24 13:21	n/a	(unrelated sample)
ZZZZZZ	LL90336.D	06/28/24 13:28	n/a	(unrelated sample)
FC16592-3	LL90337.D	06/28/24 13:38	n/a	SEAD-AL-MWT-28-20240619
ZZZZZZ	LL90338.D	06/28/24 13:45	n/a	(unrelated sample)
ZZZZZZ	LL90339.D	06/28/24 13:53	n/a	(unrelated sample)
ZZZZZZ	LL90340.D	06/28/24 14:00	n/a	(unrelated sample)
GLL3145-ECC3025	LL90341.D	06/28/24 14:08	n/a	Ending cal 5

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90292.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:26:48
Operator : jennr
Sample : fc16592-1
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:33:14 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.252	59309699	85.830	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv d
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv d

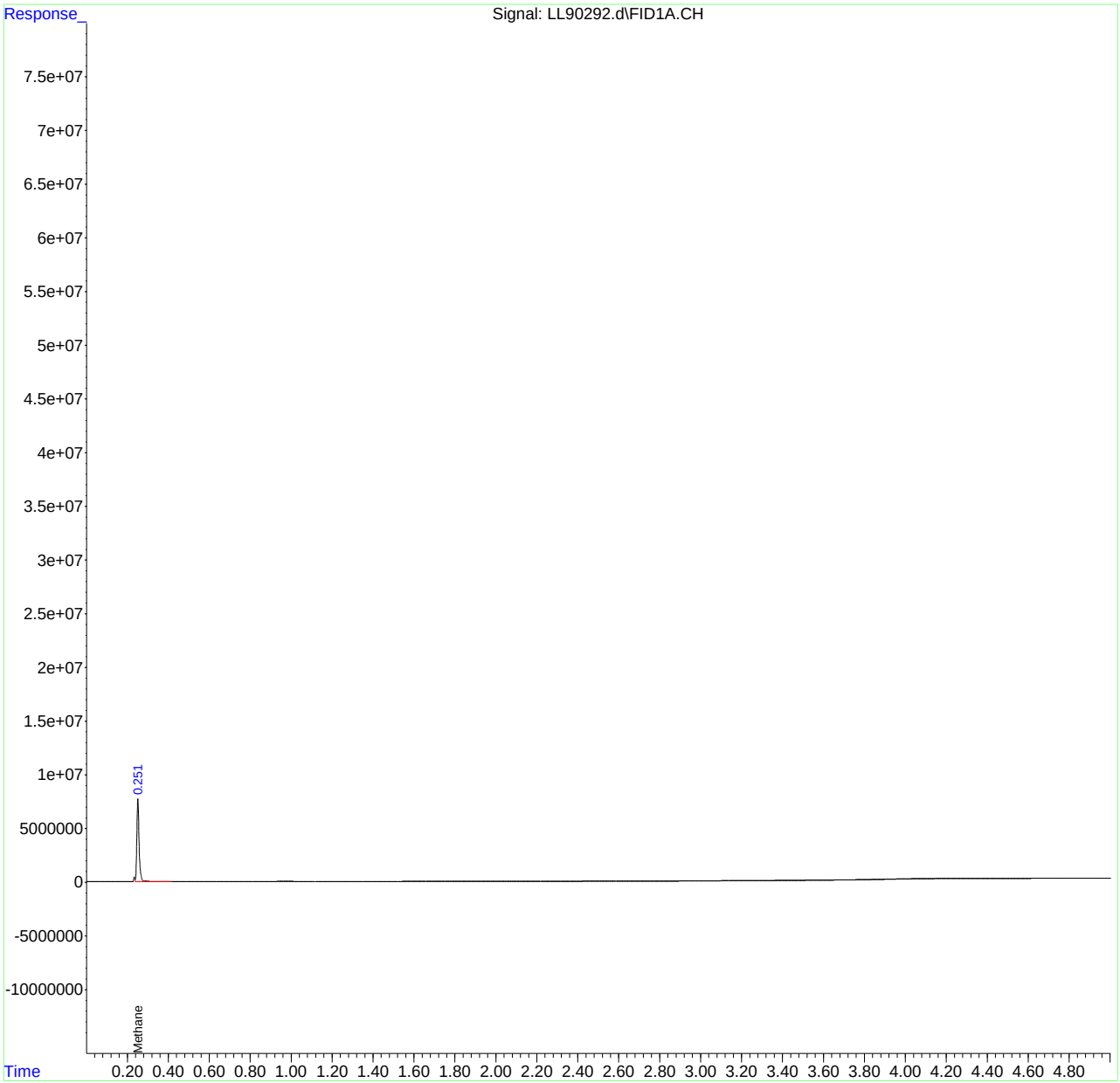
(f)=RT Delta > 1/2 Window (m)=manual int.

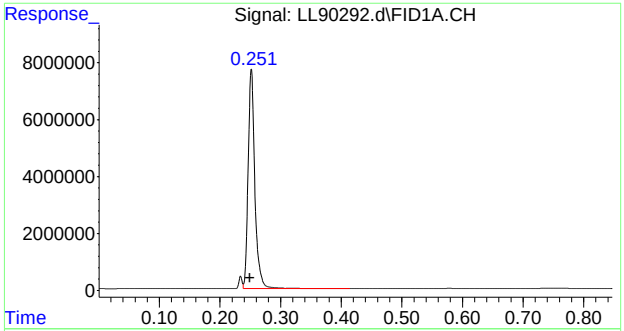
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90292.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:26:48
Operator : jennr
Sample : fc16592-1
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:33:14 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

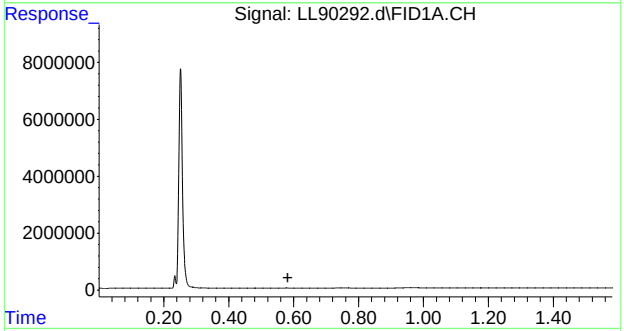
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





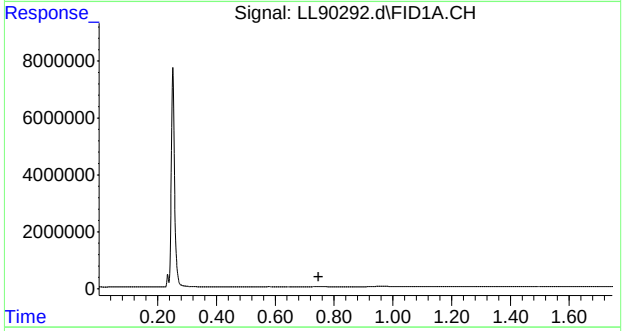
#1 Methane

R.T.: 0.252 min
Delta R.T.: 0.003 min
Response: 59309699
Conc: 85.83 ppmv



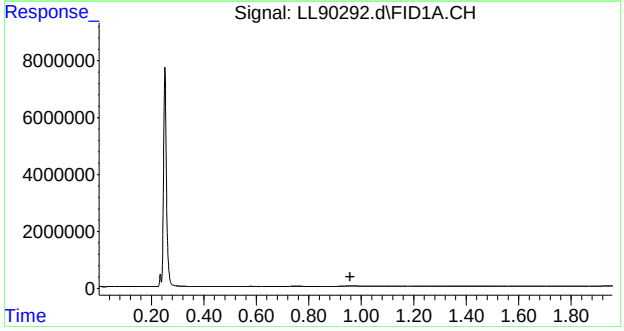
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



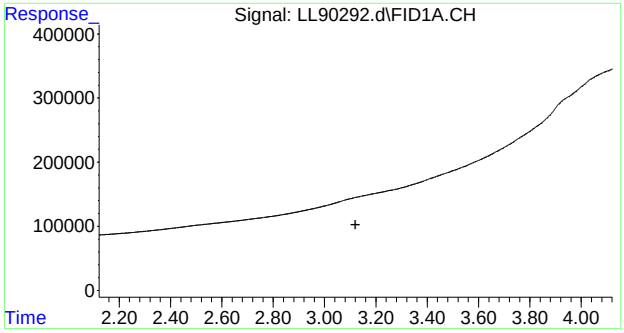
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16592-1	**Sample Volume:**	39.0 ml
Lab FileID:	LL90292.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 11:26	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	85.83	38340	9.3	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90293.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:33:51
Operator : jennr
Sample : fc16592-3
Misc : gc24887,gll3144,38.5,21,500,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:39:57 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.248	25523332495	36936.044	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.954	16169365	13.042	ppmv
5)	Propane	0.000	0	N.D.	ppmv d

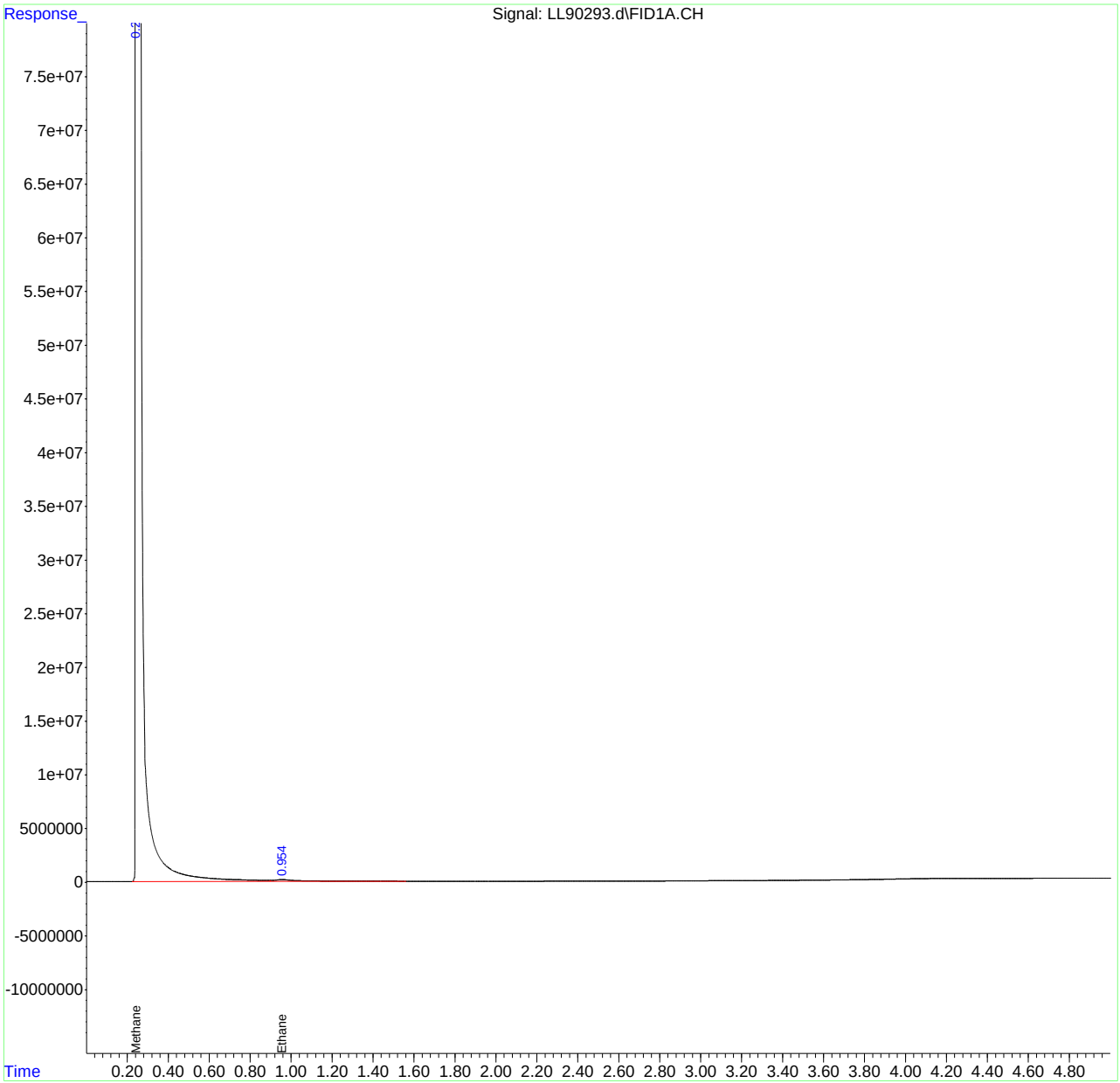
(f)=RT Delta > 1/2 Window (m)=manual int.

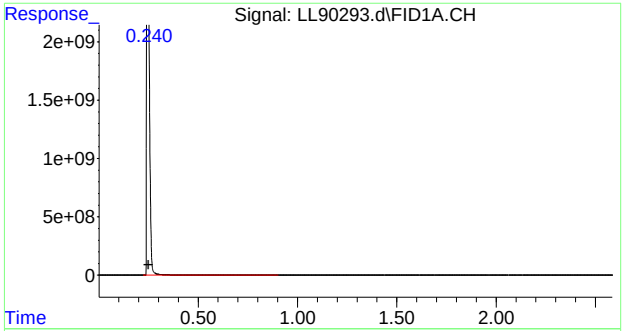
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90293.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:33:51
Operator : jennr
Sample : fc16592-3
Misc : gc24887,gll3144,38.5,21,500,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:39:57 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

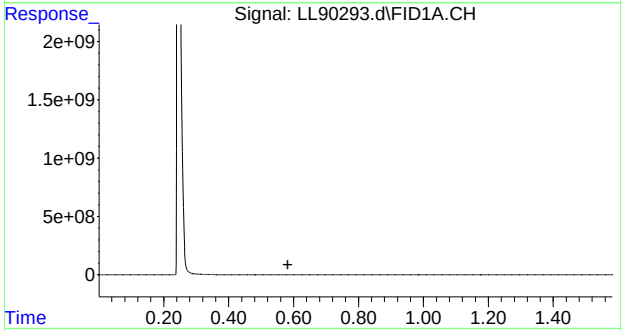
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





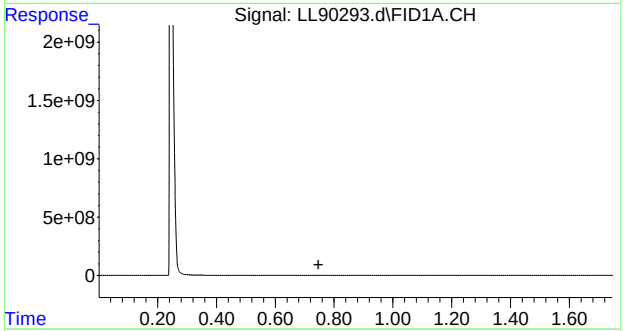
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.000 min
Response: 25523332495
Conc: 36936.04 ppmv



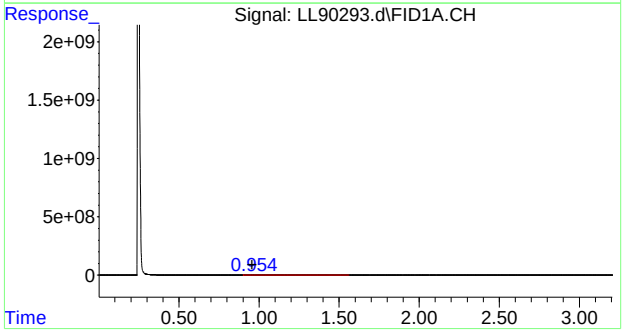
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



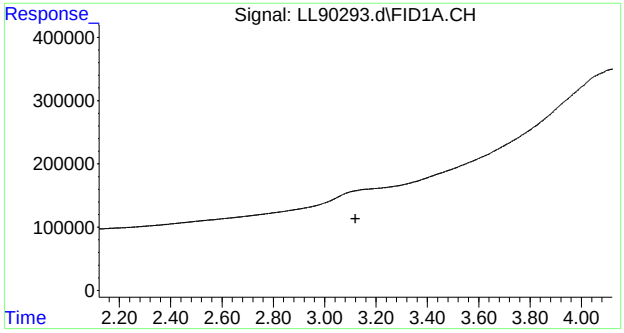
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.954 min
Delta R.T.: -0.002 min
Response: 16169365
Conc: 13.04 ppmv



#5 Propane

R.T.: 0.000 min
Exp R.T. : 3.120 min
Response: 0
Conc: N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16592-3	**Sample Volume:**	38.5 ml
Lab FileID:	LL90293.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 11:33	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	36936.04	38340	4040	ug/l
Ethane	74-84-0	30	13.04	27080	2.9	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90337.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:38:45
Operator : jennr
Sample : fc16592-3, 10x
Misc : gc24887,gll3145,38,21,500,5,10
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:44:12 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.253	4776794460	6912.729	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

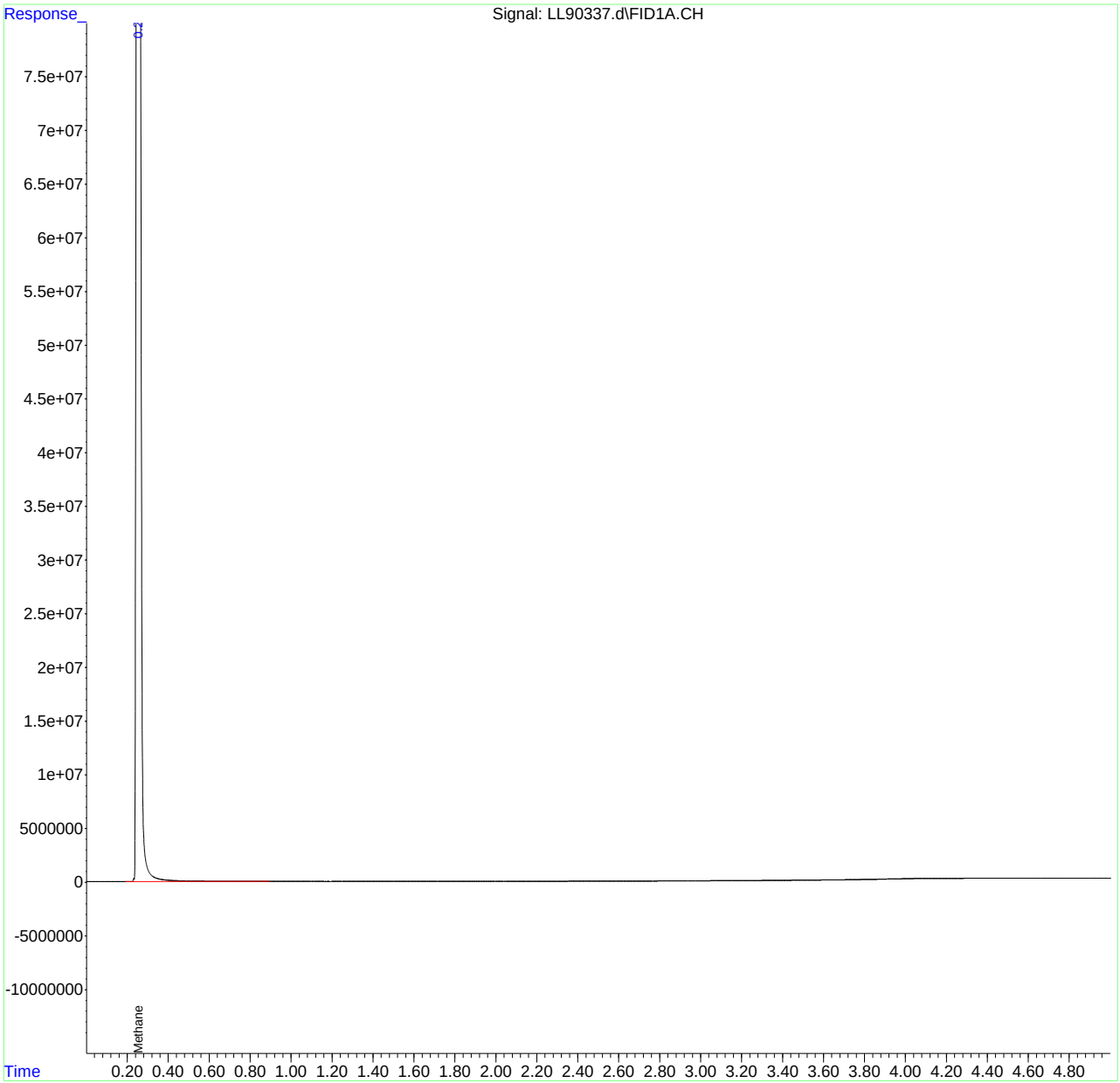
9.13.3

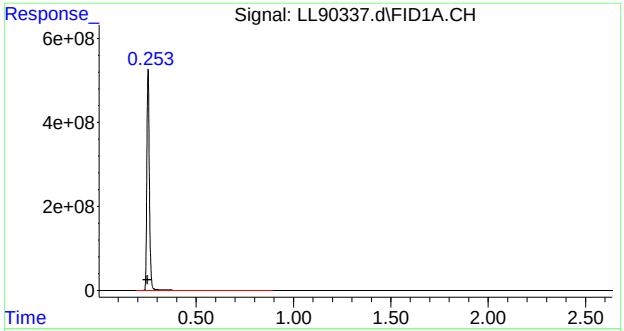
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90337.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:38:45
Operator : jennr
Sample : fc16592-3, 10x
Misc : gc24887,gll3145,38,21,500,5,10
ALS Vial : 28 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:44:12 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

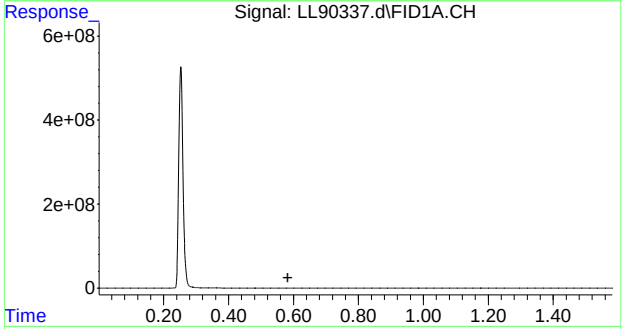
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





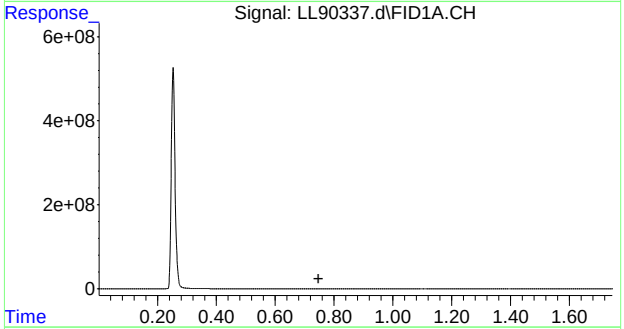
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 4776794460
Conc: 6912.73 ppmv



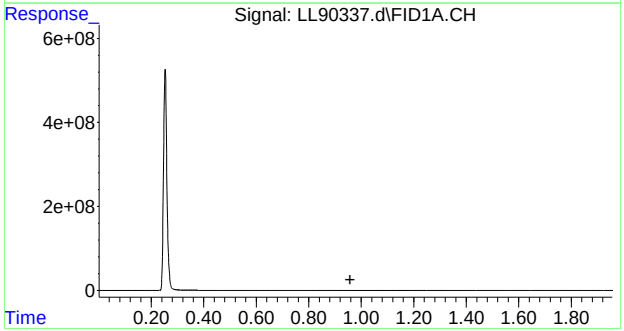
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



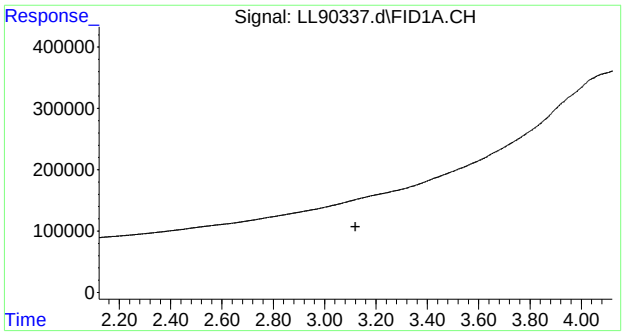
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16592-3	**Sample Volume:**	38.0 ml
Lab FileID:	LL90337.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 13:38	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	6912.73	38340	7630	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90294.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:43:04
Operator : jennr
Sample : fc16592-20
Misc : gc24887,gll3144,39,21,500,5.1,1
ALS Vial : 17 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:48:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.247	897790	1.299	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

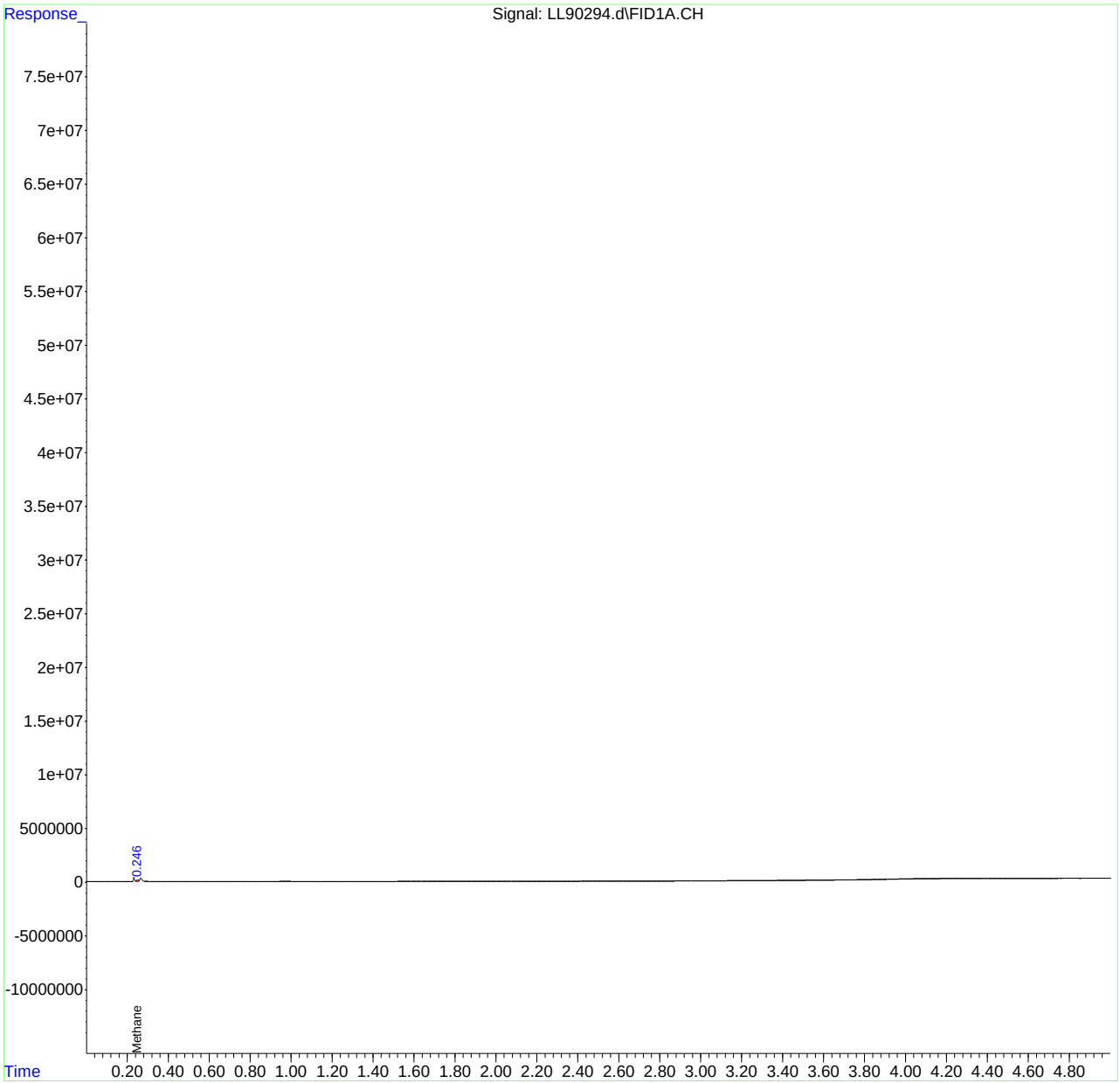
(f)=RT Delta > 1/2 Window (m)=manual int.

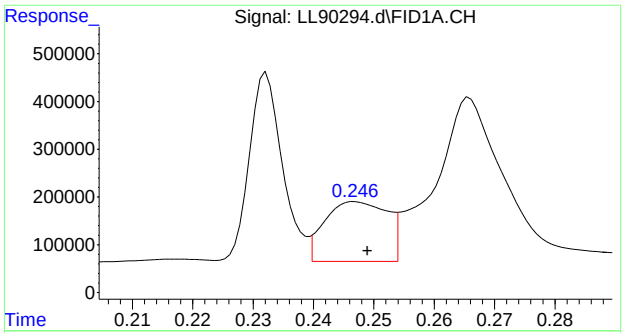
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90294.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:43:04
Operator : jennr
Sample : fc16592-20
Misc : gc24887,gll3144,39,21,500,5.1,1
ALS Vial : 17 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:48:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

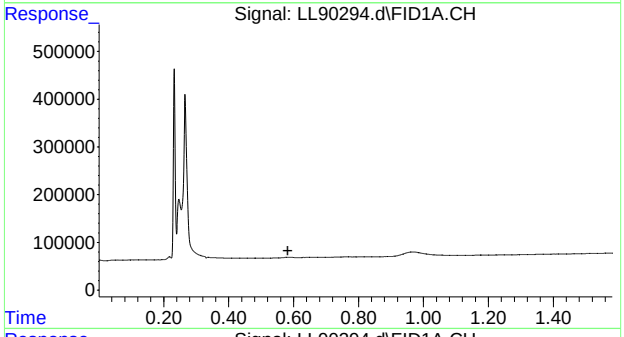
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





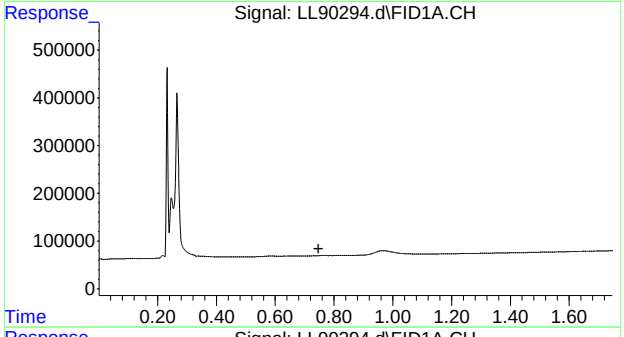
#1 Methane

R.T.: 0.247 min
Delta R.T.: -0.002 min
Response: 897790
Conc: 1.30 ppmv



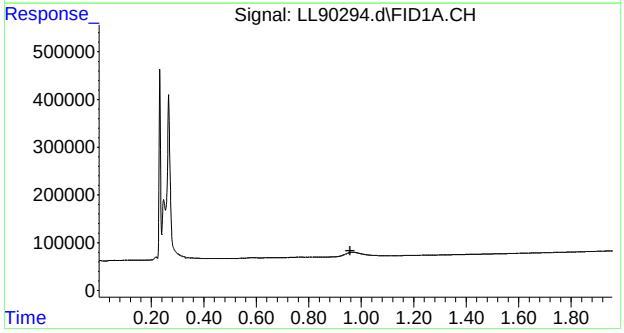
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



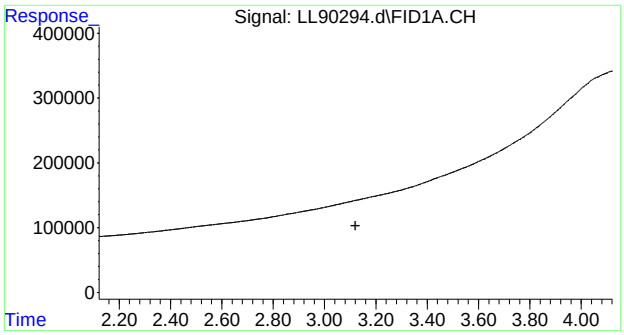
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16592-20	**Sample Volume:**	39.0 ml
Lab FileID:	LL90294.D	**Headspace:**	5.1 ml
Injection Time:	06/27/24 11:43	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.3	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90284.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:14:39
Operator : jennr
Sample : mb
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:20:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.246	649738	0.940	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

9.2.1

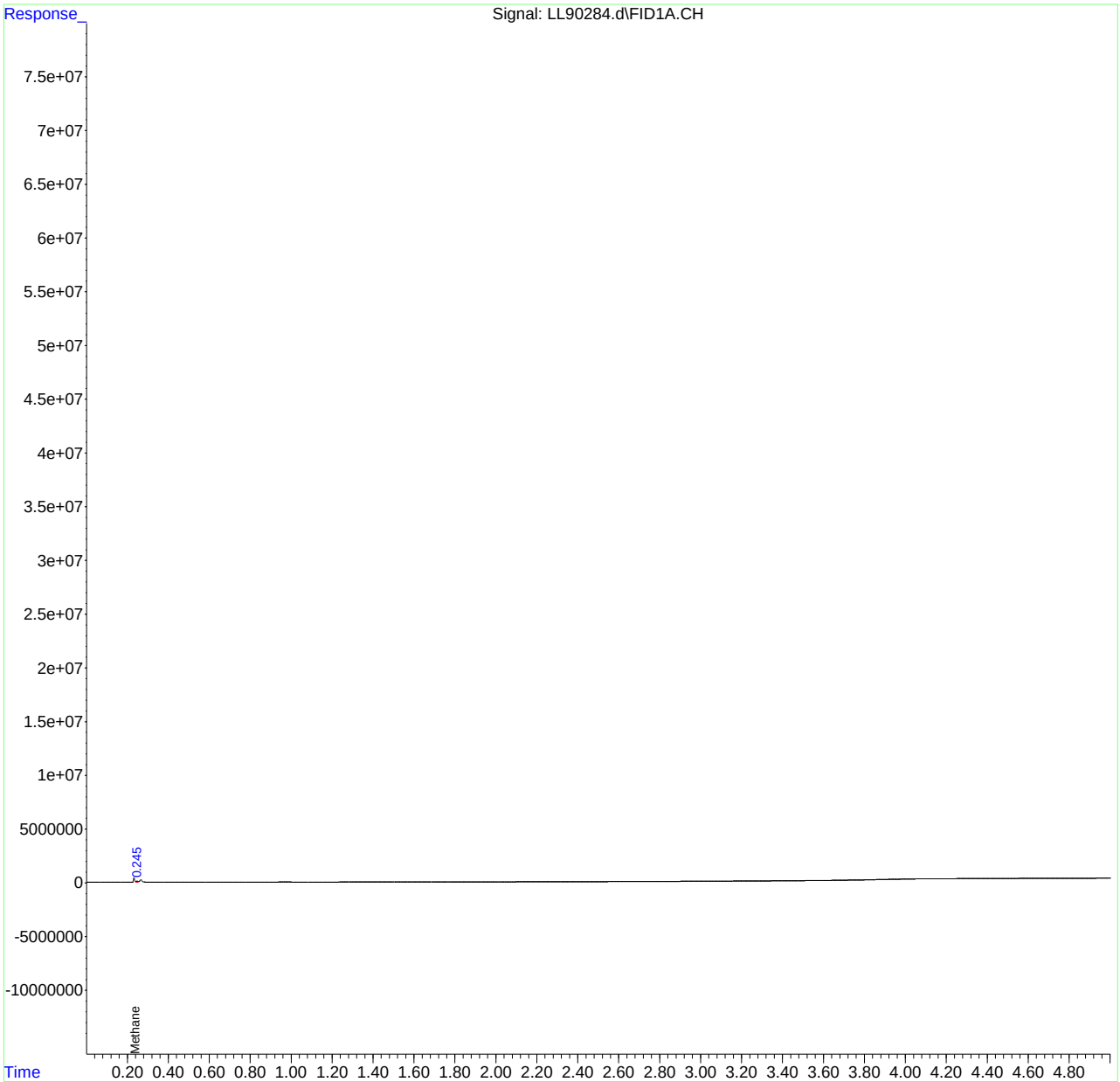
9

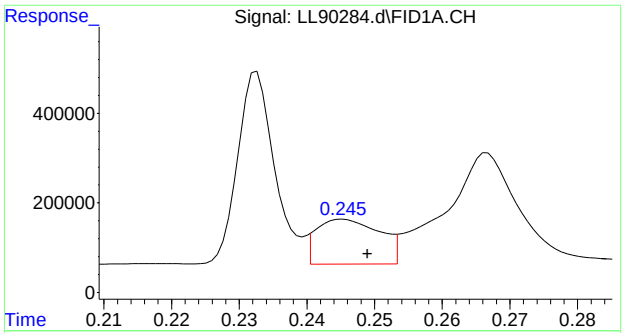
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90284.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:14:39
Operator : jennr
Sample : mb
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:20:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

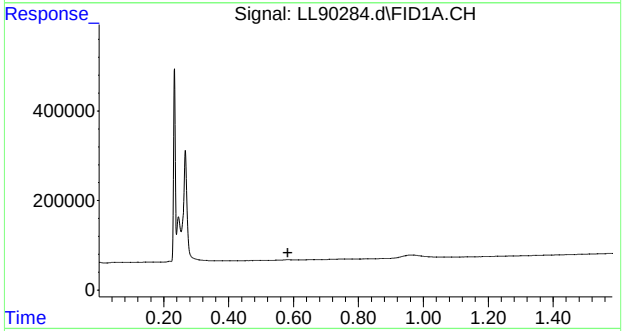
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





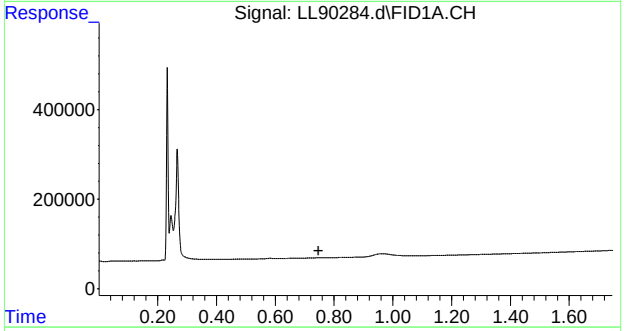
#1 Methane

R.T.:	0.246 min
Delta R.T.:	-0.003 min
Response:	649738
Conc:	0.94 ppmv



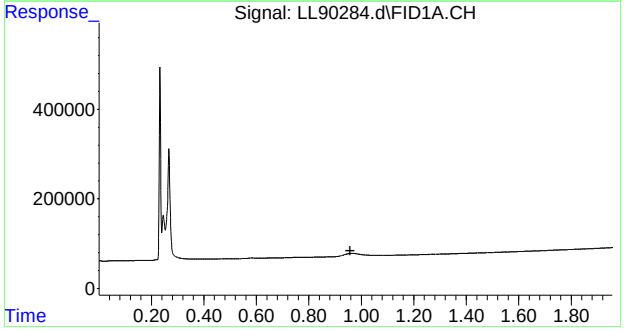
#2 Acetylene

R.T.:	0.000 min
Exp R.T. :	0.582 min
Response:	0
Conc:	N.D.



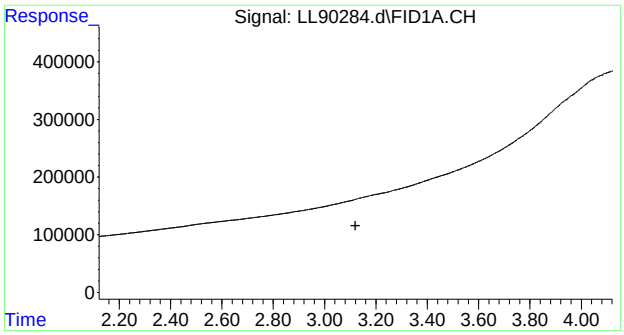
#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	0.746 min
Response:	0
Conc:	N.D.



#4 Ethane

R.T.:	0.000 min
Exp R.T. :	0.956 min
Response:	0
Conc:	N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-MB	**Sample Volume:**	38.0 ml
Lab FileID:	LL90284.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:14	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0.94	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90316.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 10:41:29
Operator : jennr
Sample : mb
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 10:46:53 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.000	0	N.D.	ppmv d
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv

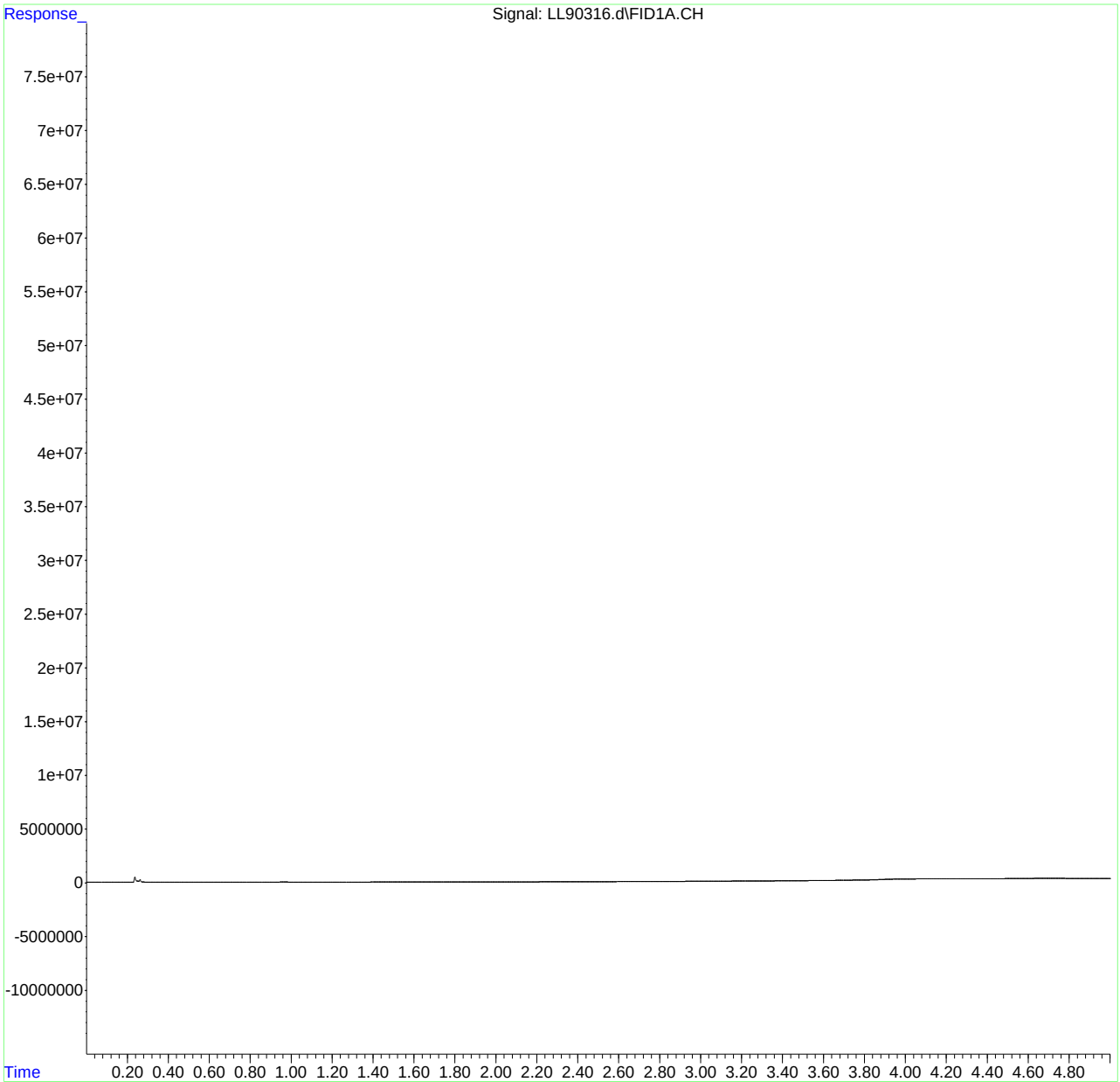
(f)=RT Delta > 1/2 Window (m)=manual int.

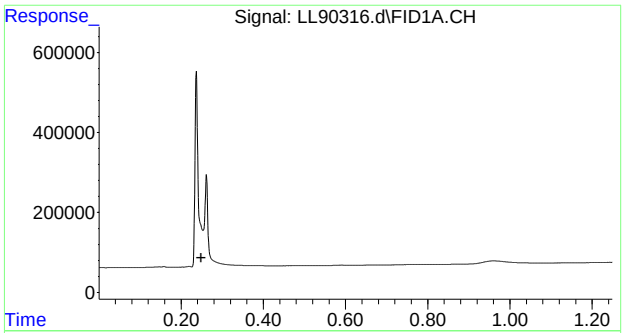
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90316.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 10:41:29
Operator : jennr
Sample : mb
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 10:46:53 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

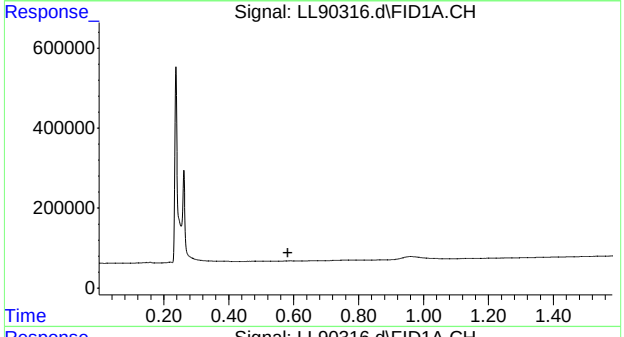
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





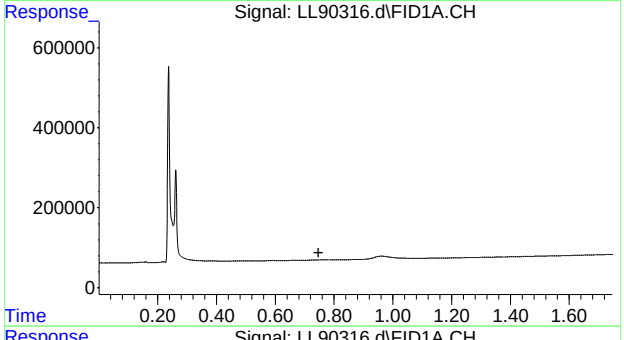
#1 Methane

R.T.: 0.000 min
Exp R.T. : 0.249 min
Response: 0
Conc: N.D.



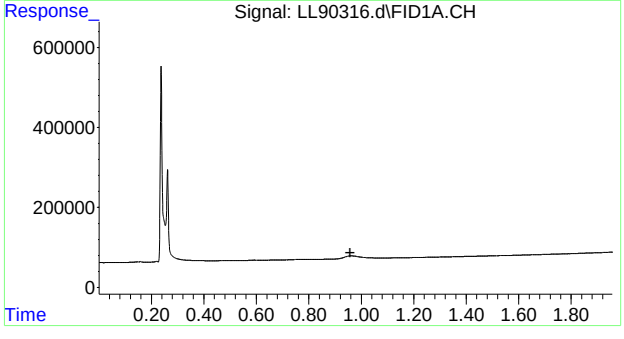
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



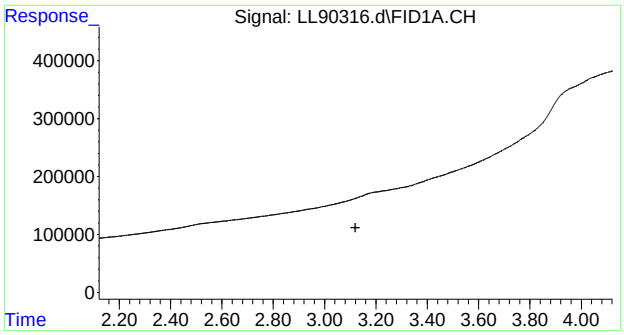
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-MB	**Sample Volume:**	38.0 ml
Lab FileID:	LL90316.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 10:41	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	0	38340	0.0	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:31 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.254	664214917	961.217 ppmv m
2)	Acetylene	0.577	1516797148	977.915 ppmv
3)	Ethylene	0.746	1163062732	981.241 ppmv
4)	Ethane	0.957	1184790268	955.652 ppmv
5)	Propane	3.117	1611412016	935.261 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

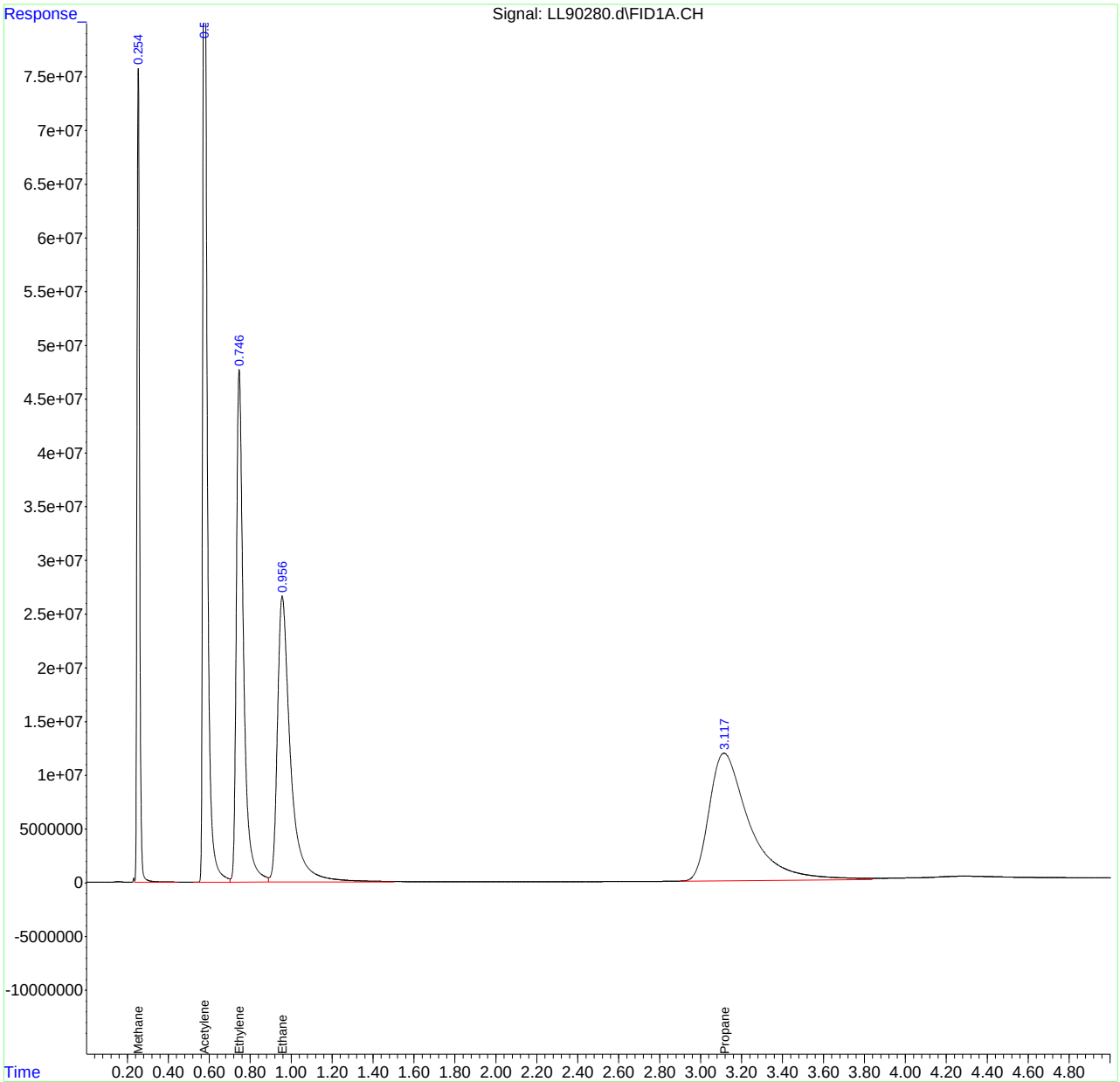
9.3.1
9

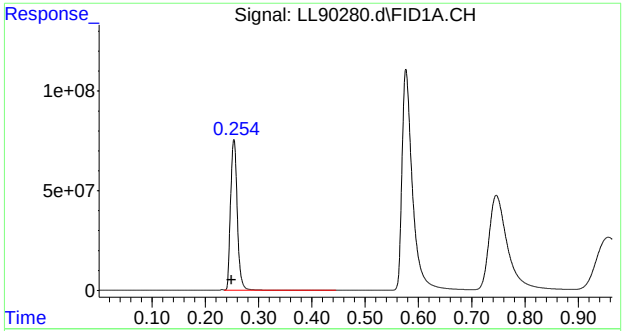
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:31 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

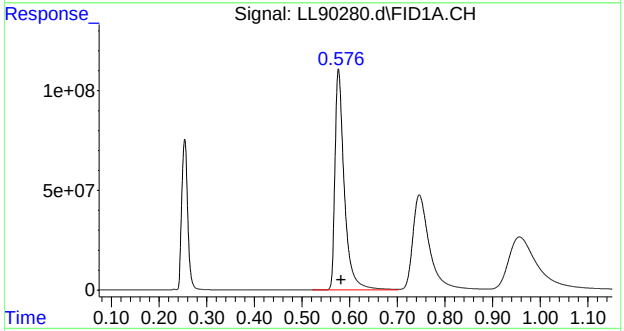
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





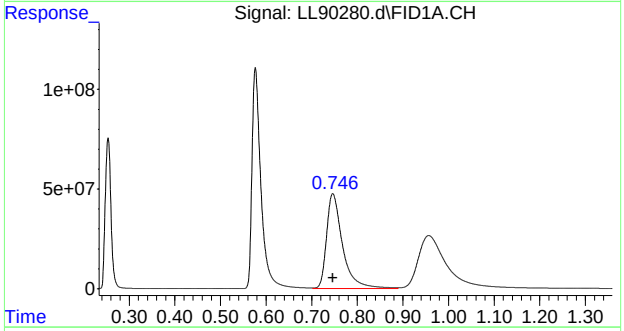
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 664214917
Conc: 961.22 ppmv m



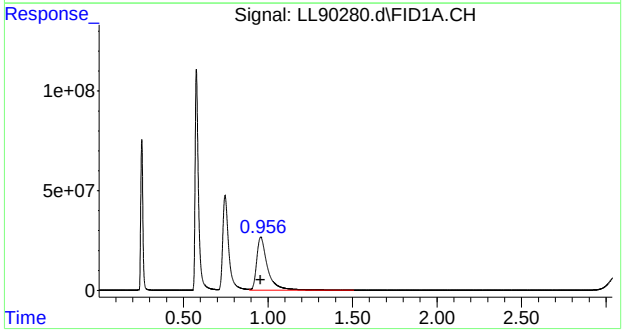
#2 Acetylene

R.T.: 0.577 min
Delta R.T.: -0.005 min
Response: 1516797148
Conc: 977.91 ppmv



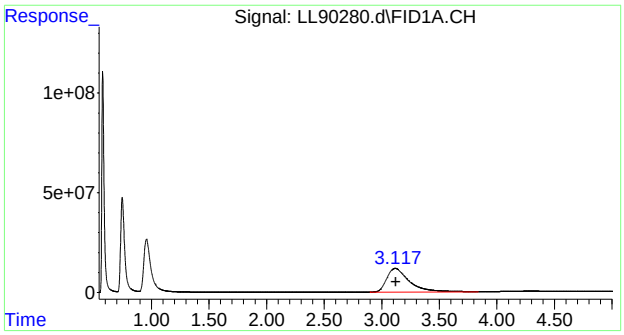
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1163062732
Conc: 981.24 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1184790268
Conc: 955.65 ppmv



#5 Propane

R.T.: 3.117 min
Delta R.T.: -0.004 min
Response: 1611412016
Conc: 935.26 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-BS
Lab FileID: LL90280.D
Injection Time: 06/27/24 08:55
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-BS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90280.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 08:55	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	961.22	38340	106	ug/l
Ethane	74-84-0	30	955.65	27080	215	ug/l
Ethene	74-85-1	28	981.24	10440	296	ug/l
Acetylene	74-86-2	26	977.91	12200	254	ug/l
Propane	74-98-6	44	935.26	32552	295	ug/l

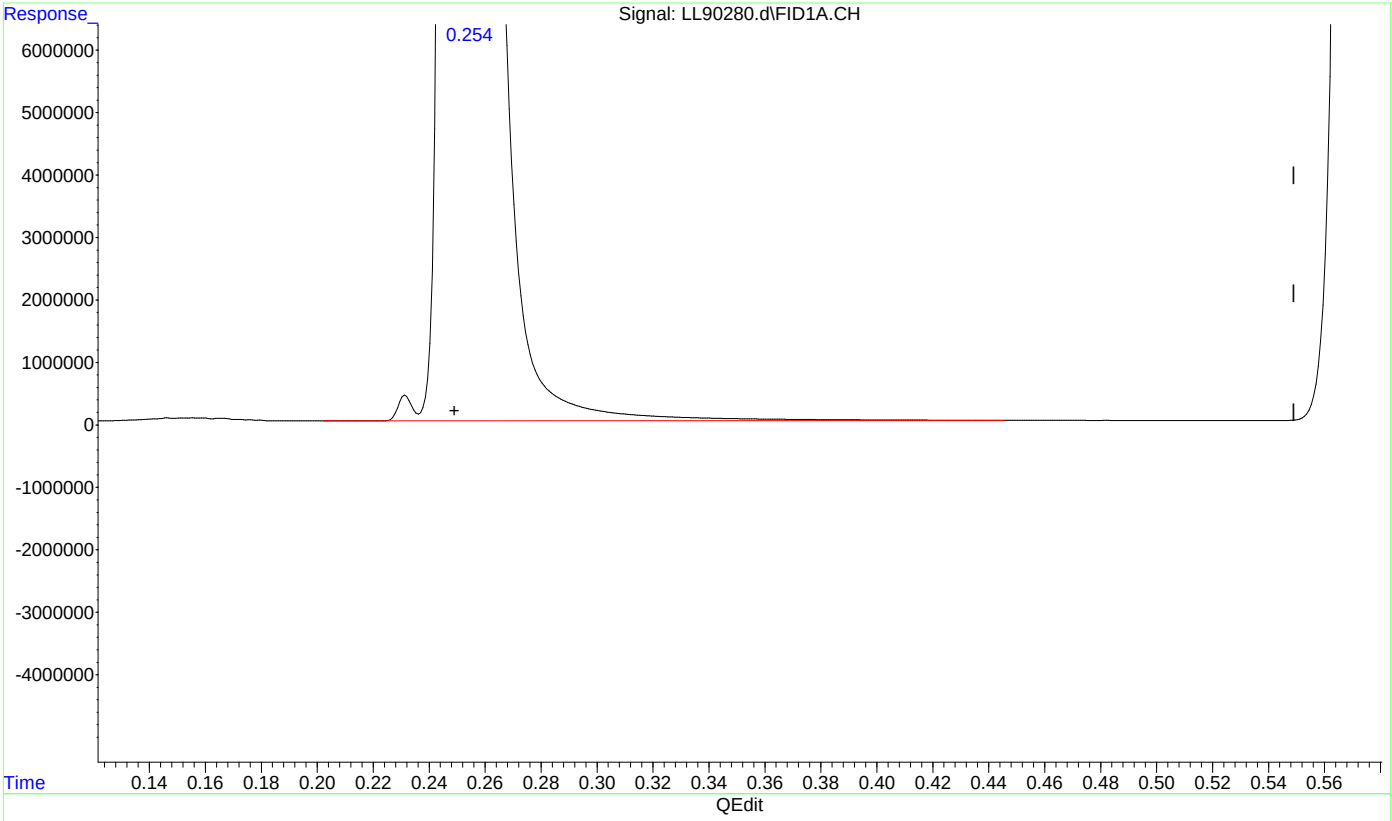
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 963.046 ppmv

response 665478718

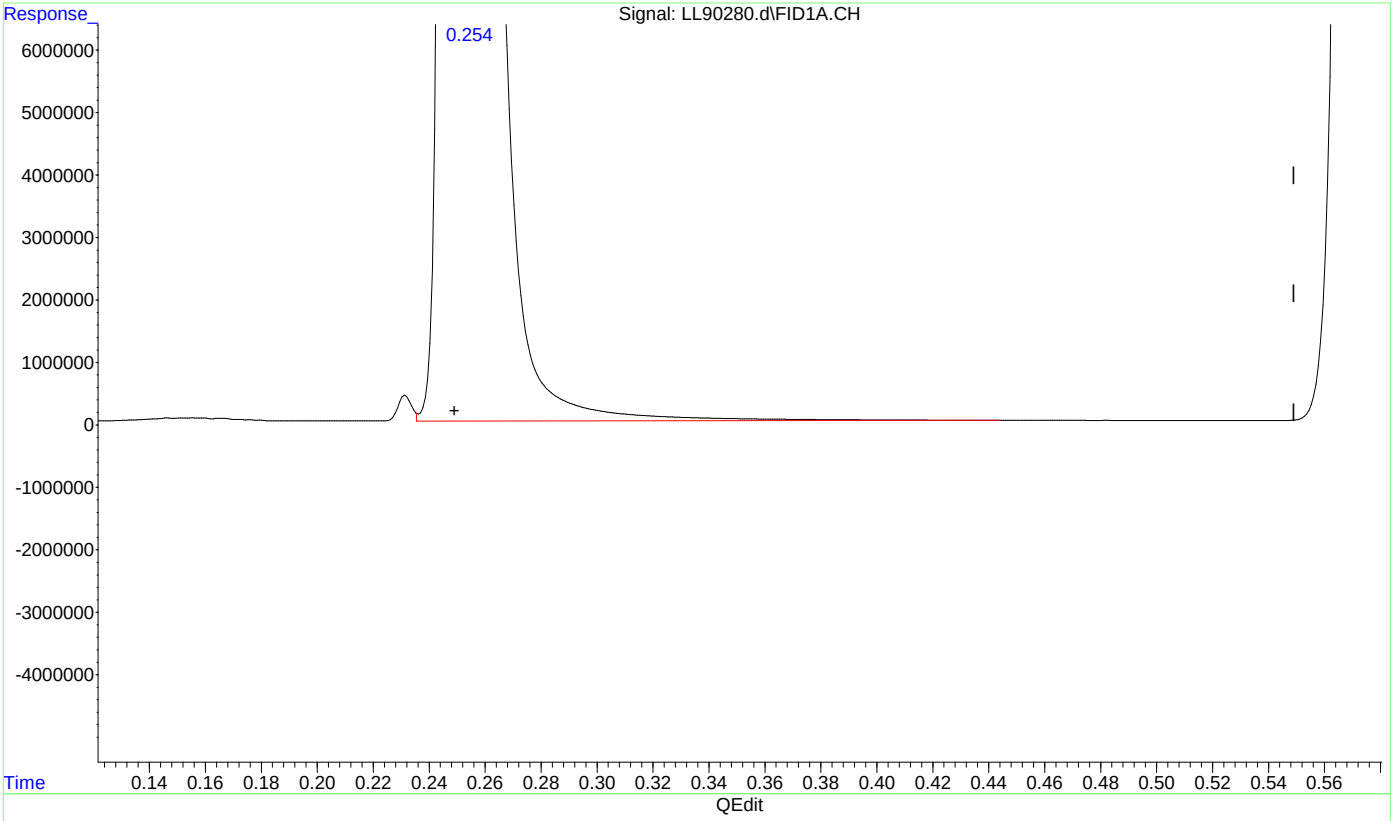
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:10 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 961.217 ppmv m

response 664214917

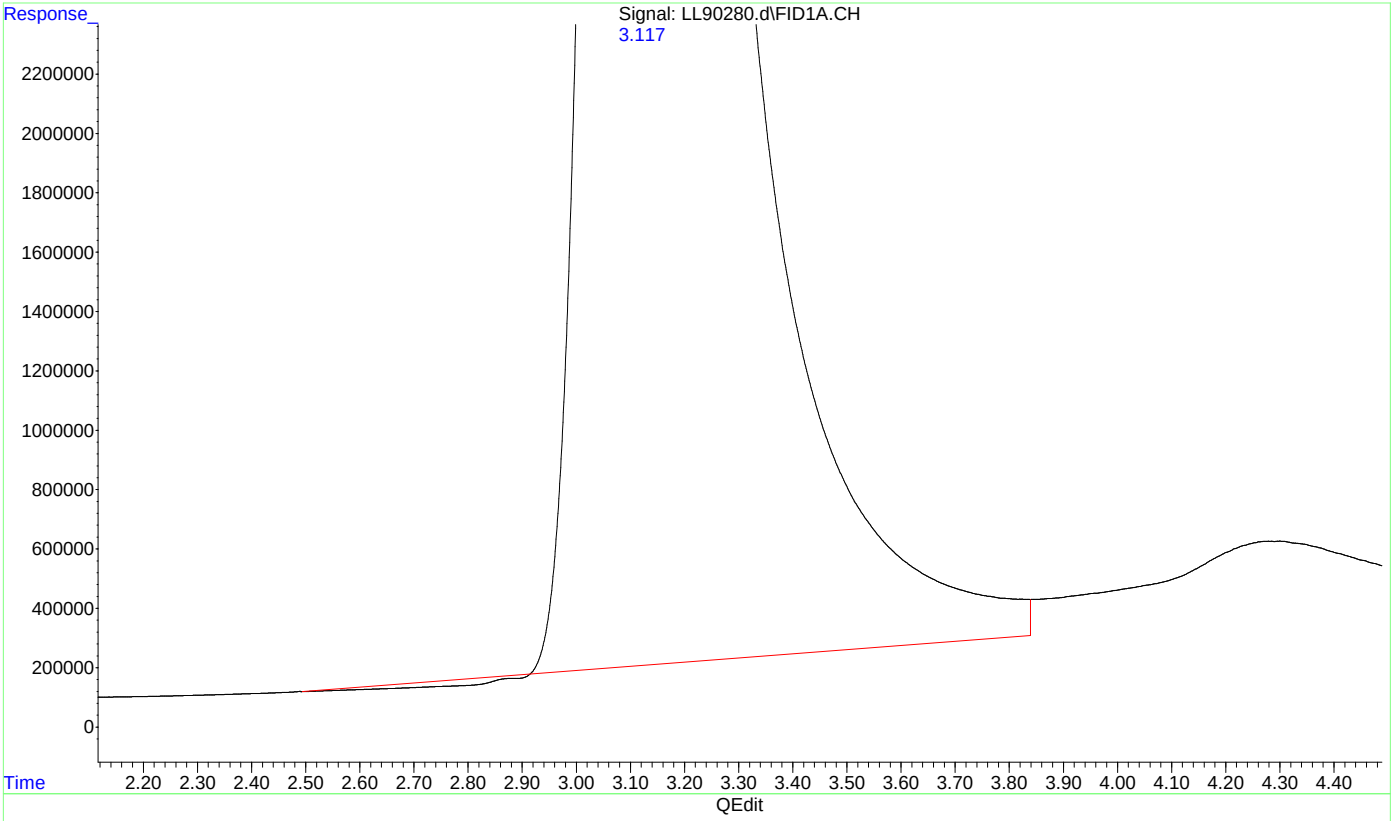
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:20 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 931.333 ppmv

response 1604645546

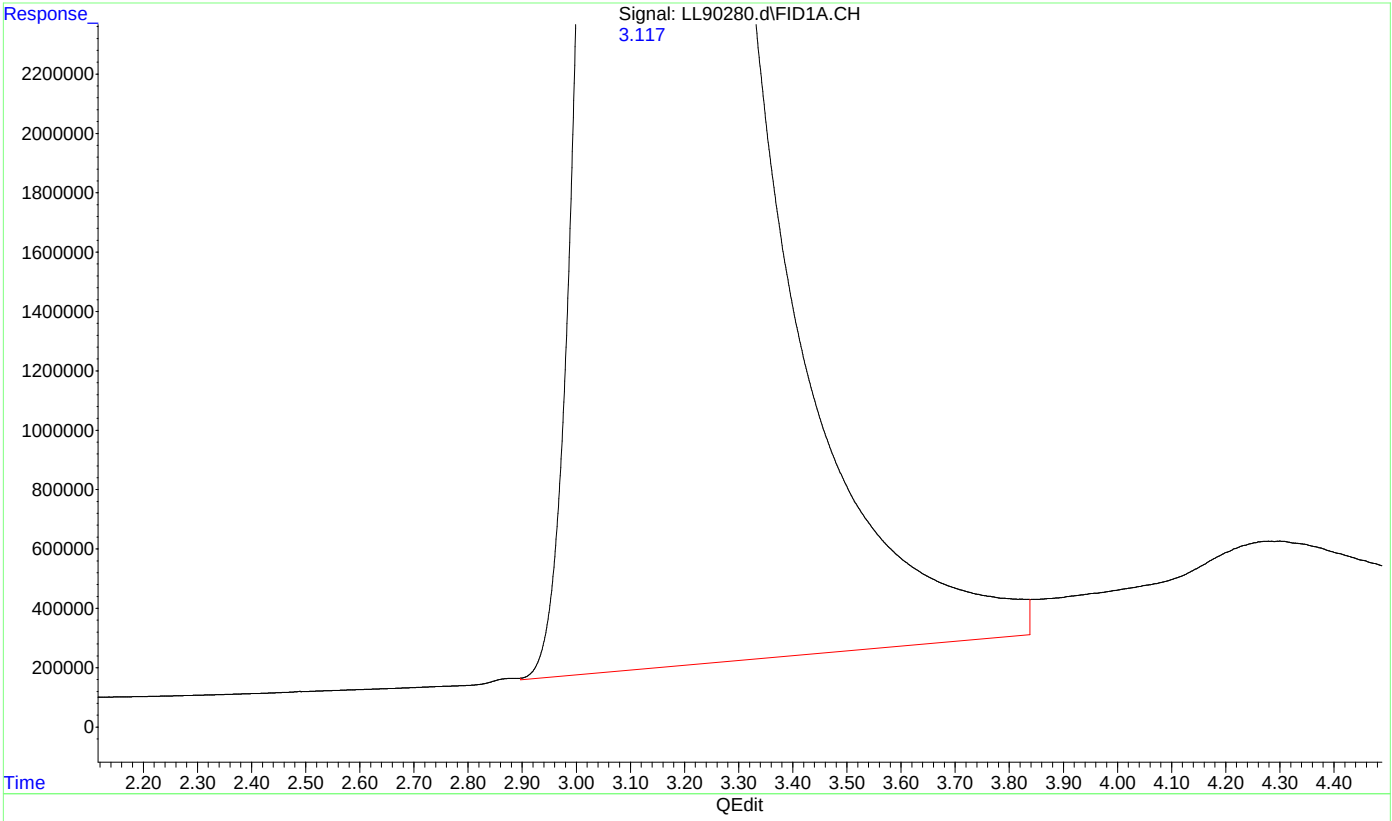
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:27 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90280.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:55:52
Operator : jennr
Sample : bs
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:01:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 935.261 ppmv m

response 1611412016

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:01:32 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:13:01 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	680106833	984.215	ppmv	m
2)	Acetylene	0.575	1558353458	1004.707	ppmv	
3)	Ethylene	0.746	1191612344	1005.327	ppmv	
4)	Ethane	0.956	1219192790	983.401	ppmv	
5)	Propane	3.114	1634814449	948.843	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

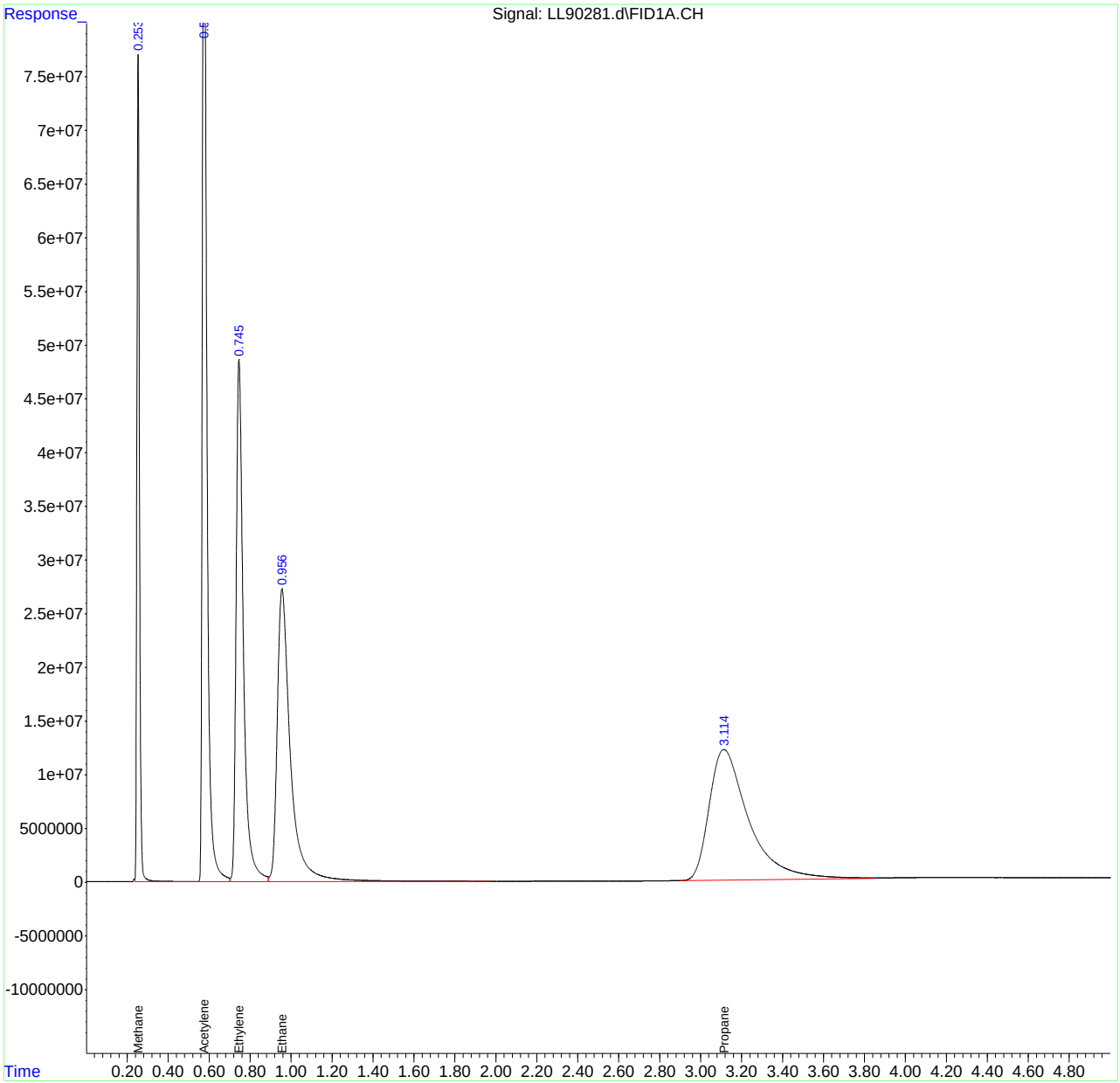
9.3.2
9

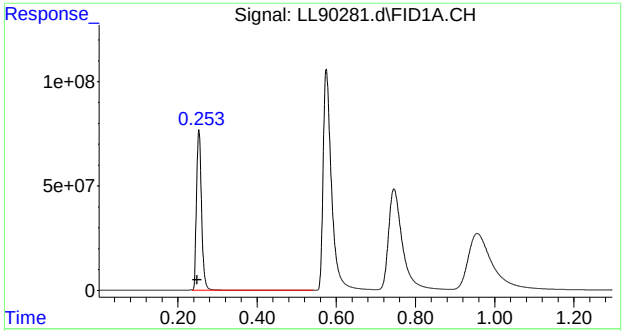
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:13:01 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

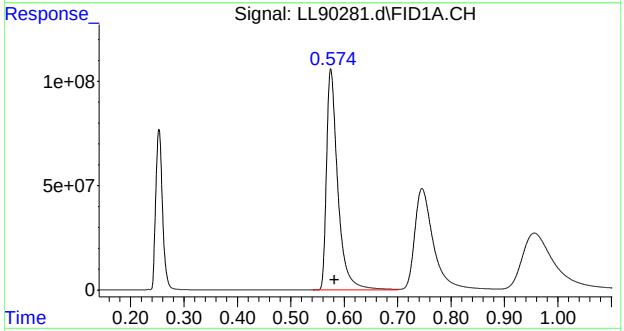
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





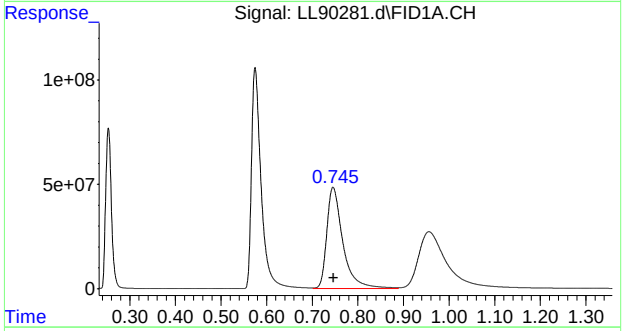
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 680106833
Conc: 984.22 ppmv m



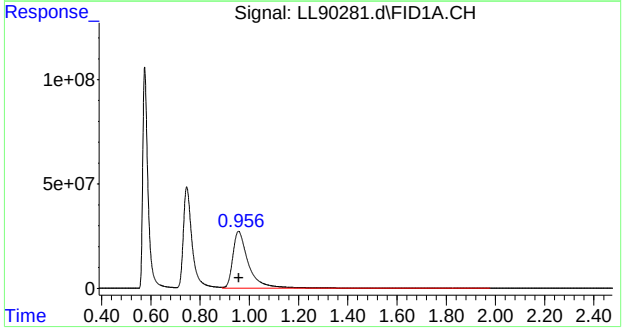
#2 Acetylene

R.T.: 0.575 min
Delta R.T.: -0.007 min
Response: 1558353458
Conc: 1004.71 ppmv



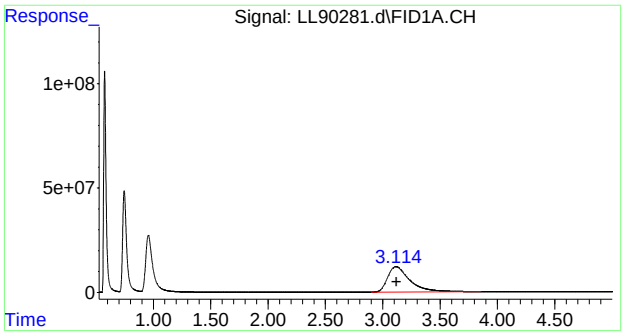
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1191612344
Conc: 1005.33 ppmv



#4 Ethane

R.T.: 0.956 min
Delta R.T.: 0.000 min
Response: 1219192790
Conc: 983.40 ppmv



#5 Propane

R.T.:	3.114 min
Delta R.T.:	-0.006 min
Response:	1634814449
Conc:	948.84 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-BSD
Lab FileID: LL90281.D
Injection Time: 06/27/24 09:03
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3144-BSD	**Sample Volume:**	38.0 ml
Lab FileID:	LL90281.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 09:03	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	984.22	38340	109	ug/l
Ethane	74-84-0	30	983.4	27080	221	ug/l
Ethene	74-85-1	28	1005.33	10440	303	ug/l
Acetylene	74-86-2	26	1004.71	12200	261	ug/l
Propane	74-98-6	44	948.84	32552	299	ug/l

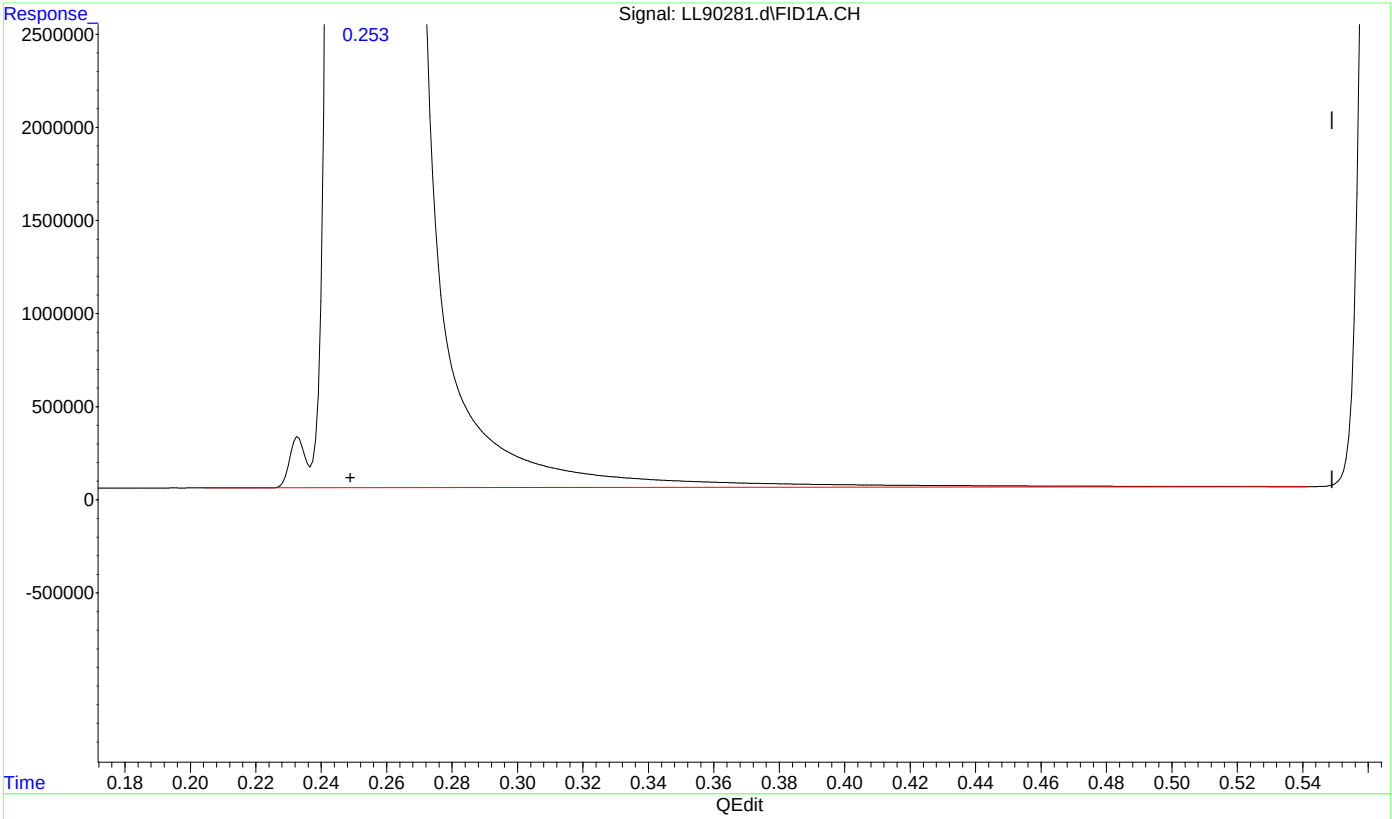
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 984.313 ppmv

response 680174018

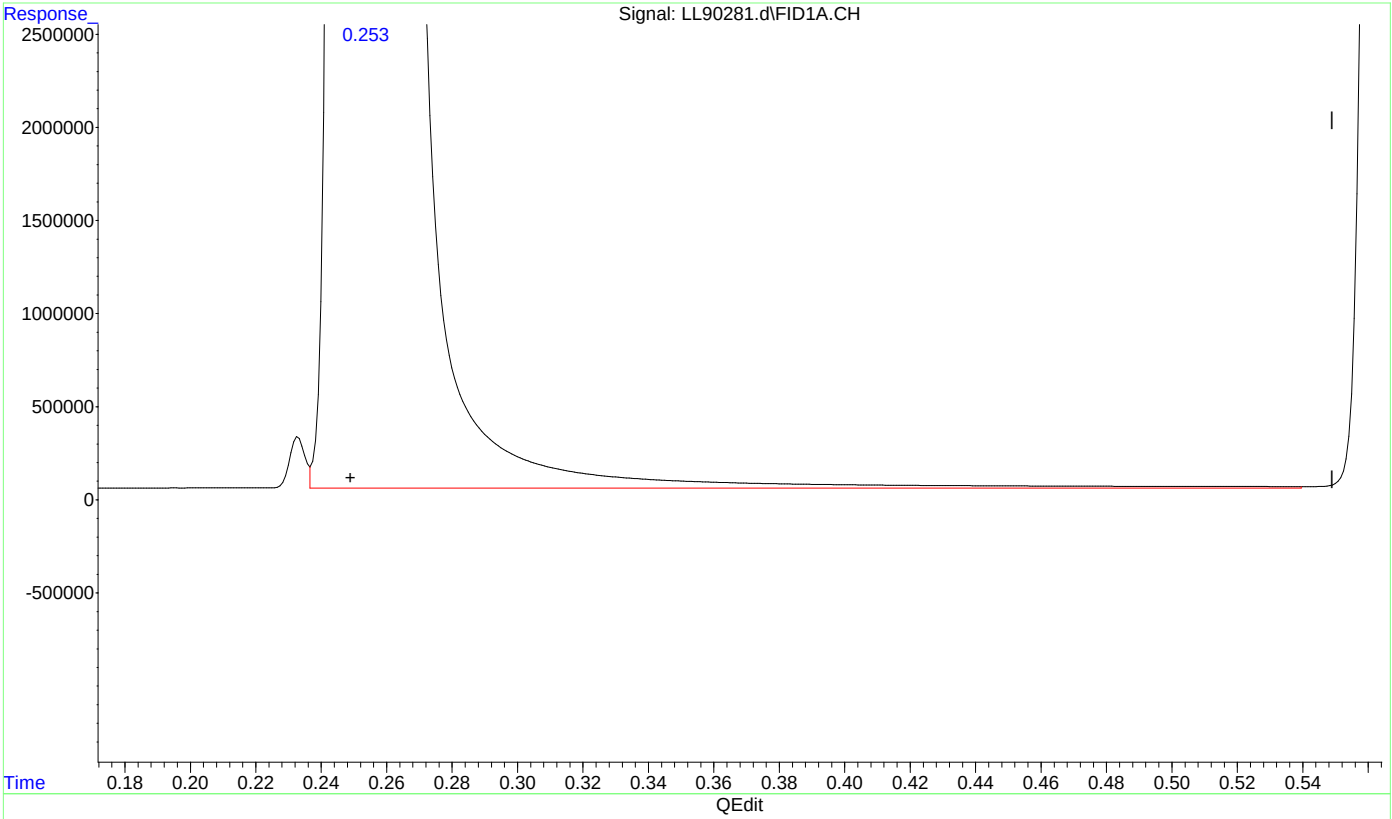
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:12:43 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 984.215 ppmv m

response 680106833

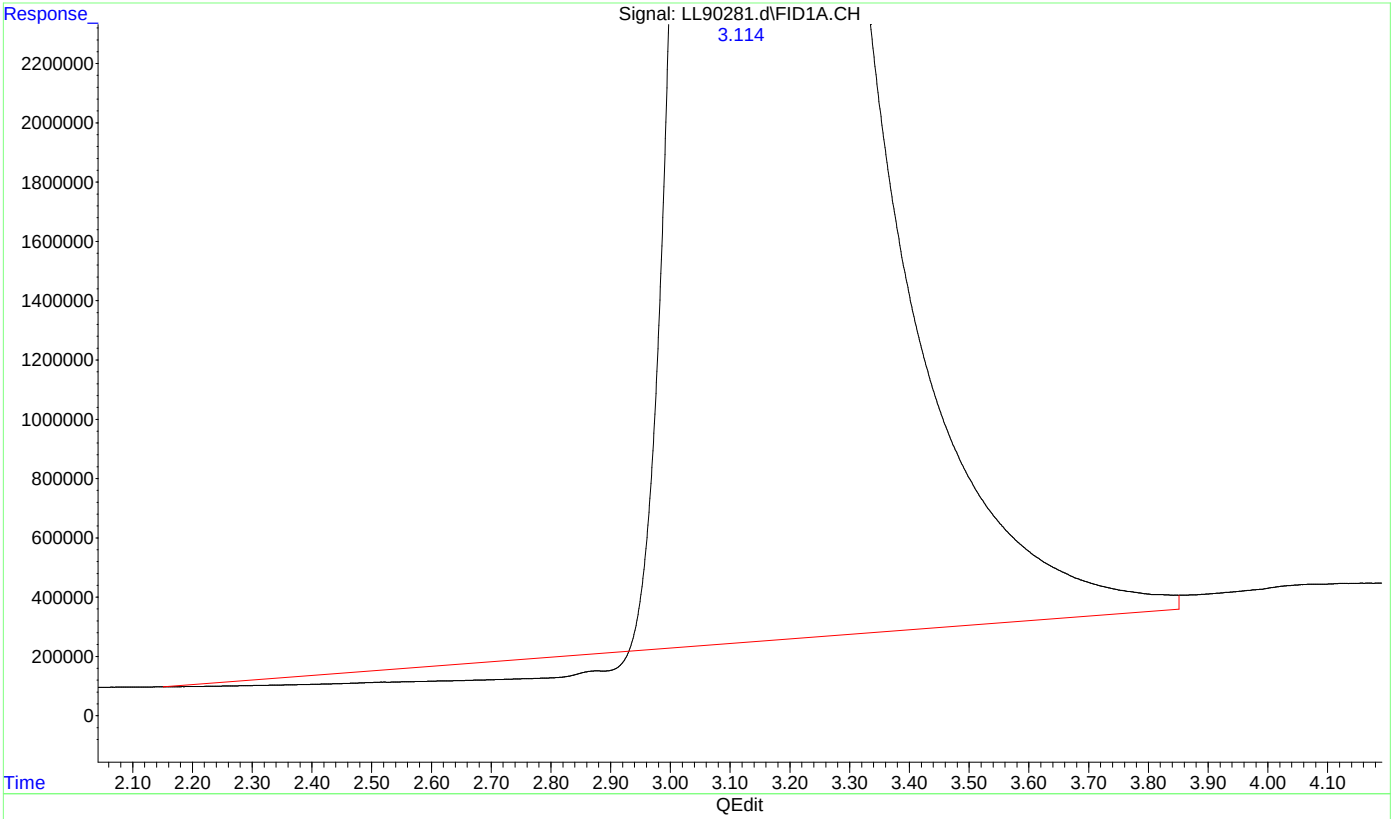
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 09:12:51 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 927.716 ppmv

response 1598413378

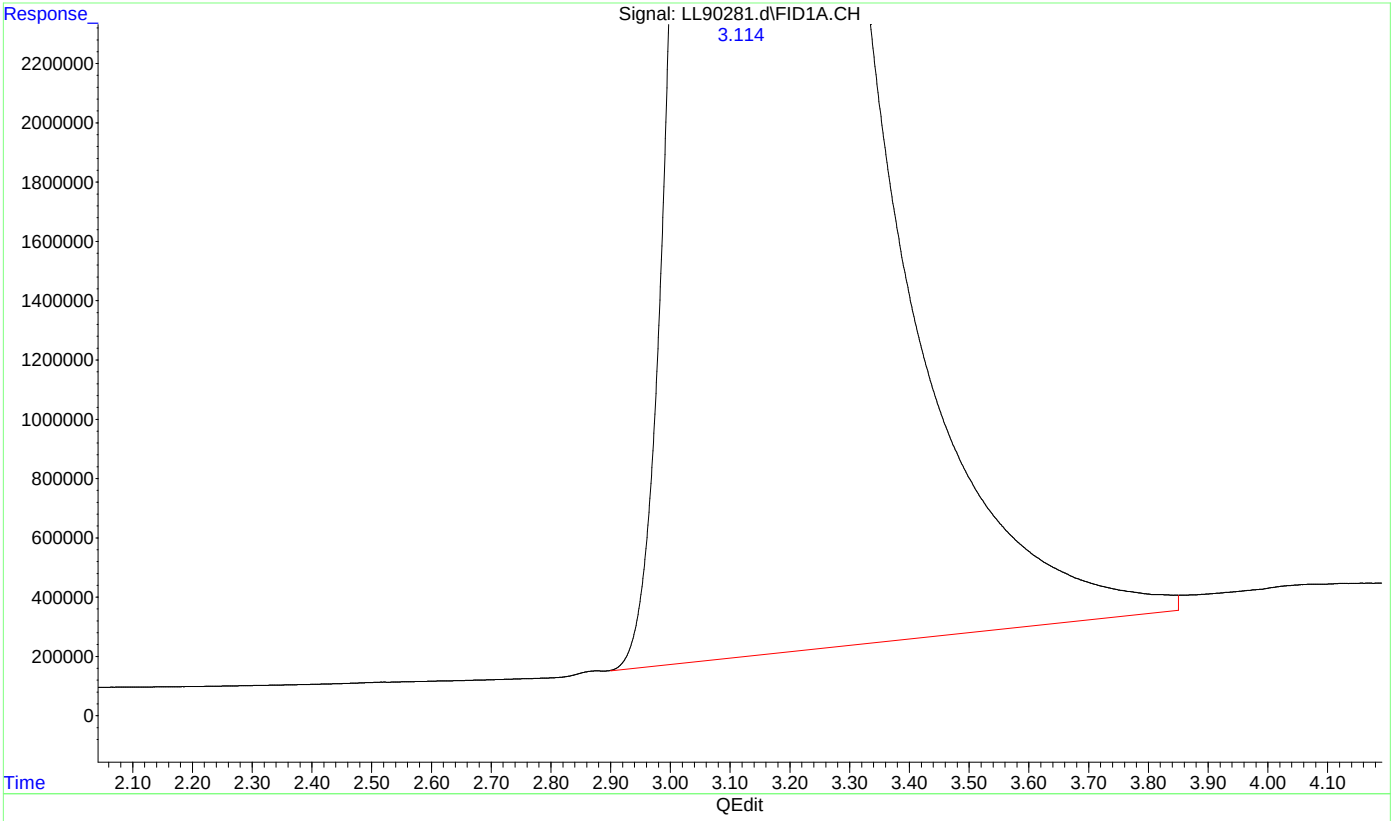
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90281.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 09:03:39
Operator : jennr
Sample : bsd
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 09:12:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 948.843 ppmv m

response 1634814449

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.255	637852546	923.067 ppmv m
2)	Acetylene	0.578	1433802377	924.406 ppmv
3)	Ethylene	0.748	1115965093	941.506 ppmv
4)	Ethane	0.958	1144887048	923.466 ppmv
5)	Propane	3.109	1551703096	900.606 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

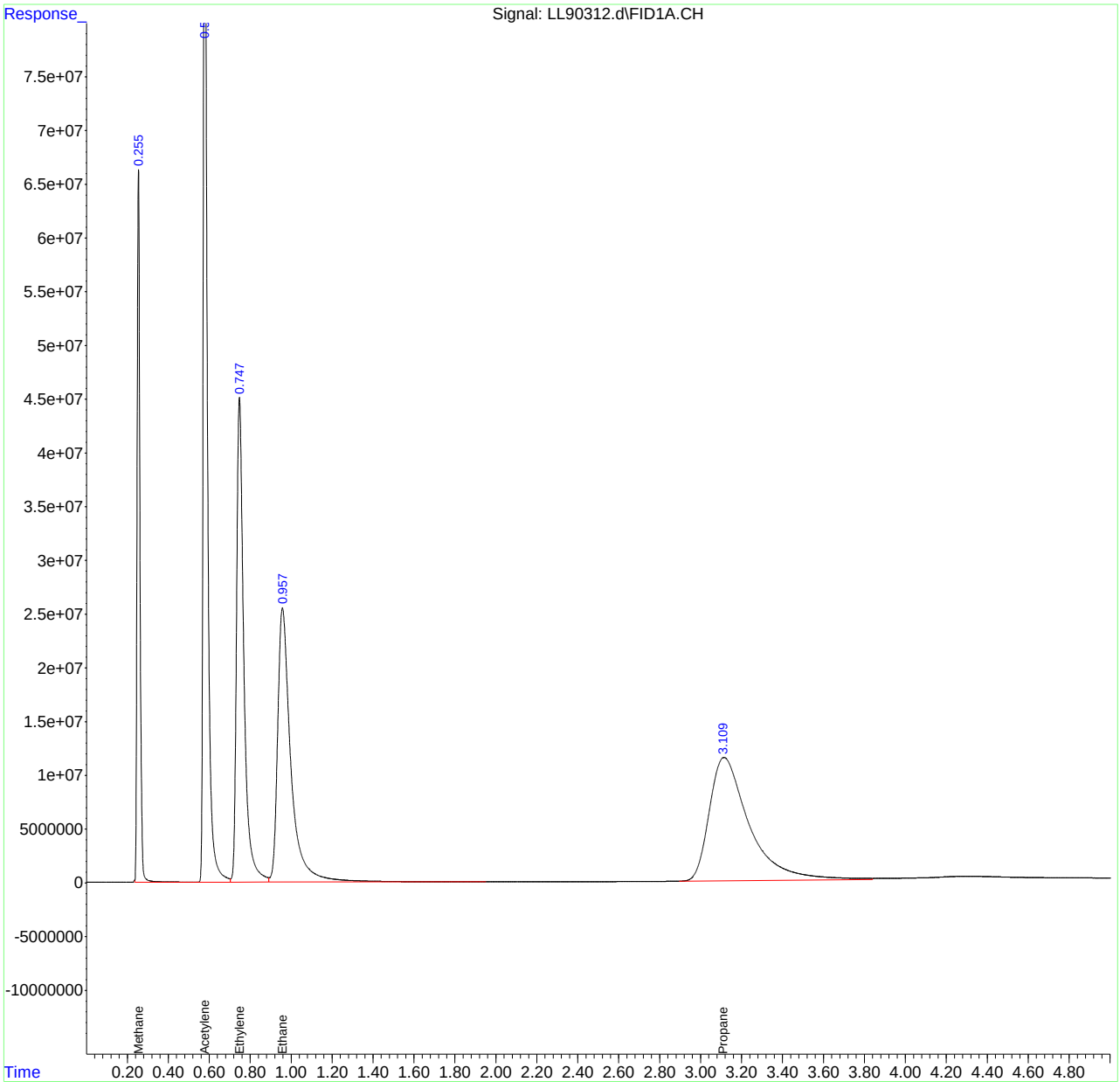
9.3.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-BS
Lab FileID: LL90312.D
Injection Time: 06/28/24 09:25
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-BS	**Sample Volume:**	38.0 ml
Lab FileID:	LL90312.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 09:25	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	923.07	38340	102	ug/l
Ethane	74-84-0	30	923.47	27080	208	ug/l
Ethene	74-85-1	28	941.51	10440	284	ug/l
Acetylene	74-86-2	26	924.41	12200	240	ug/l
Propane	74-98-6	44	900.61	32552	284	ug/l

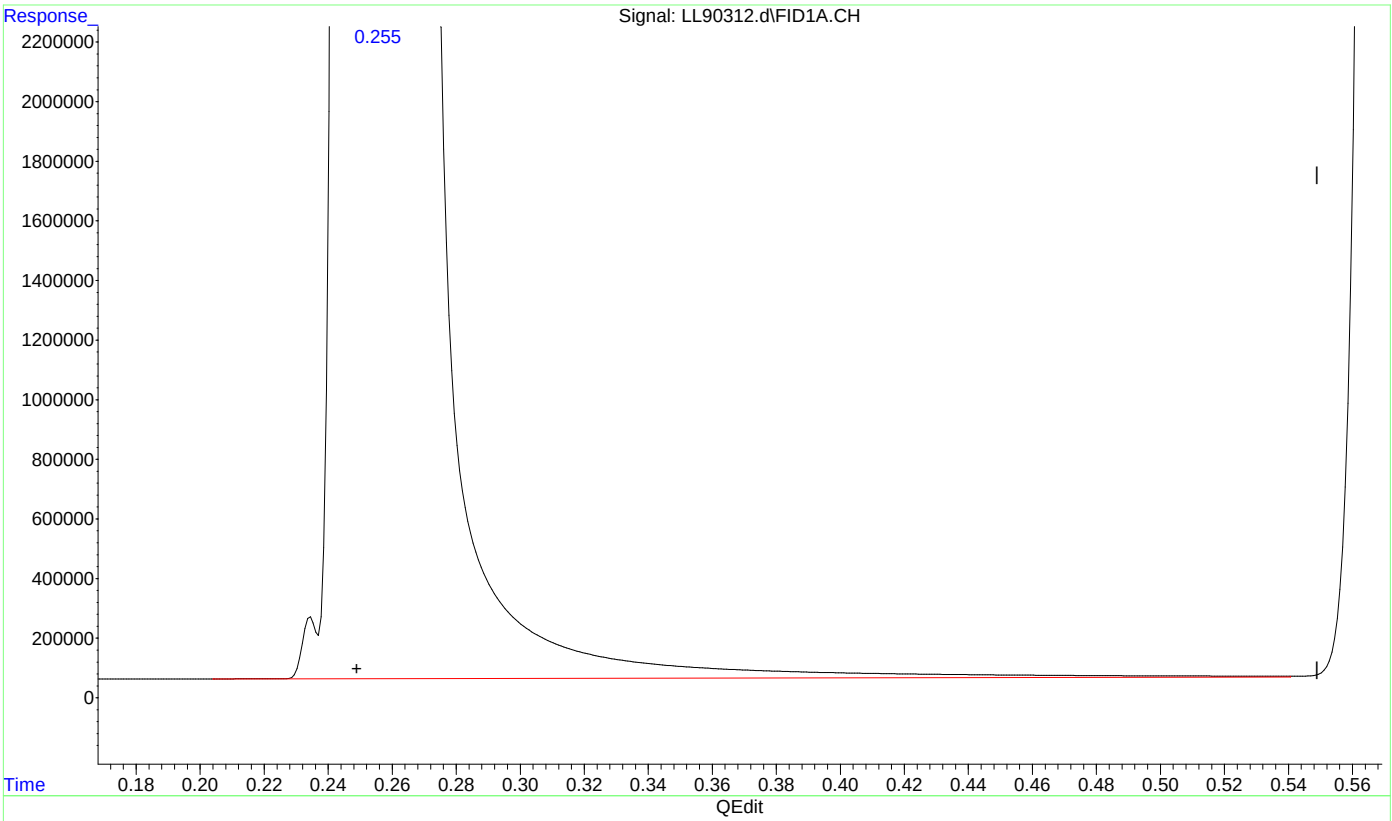
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.255min 923.637 ppmv

response 638246473

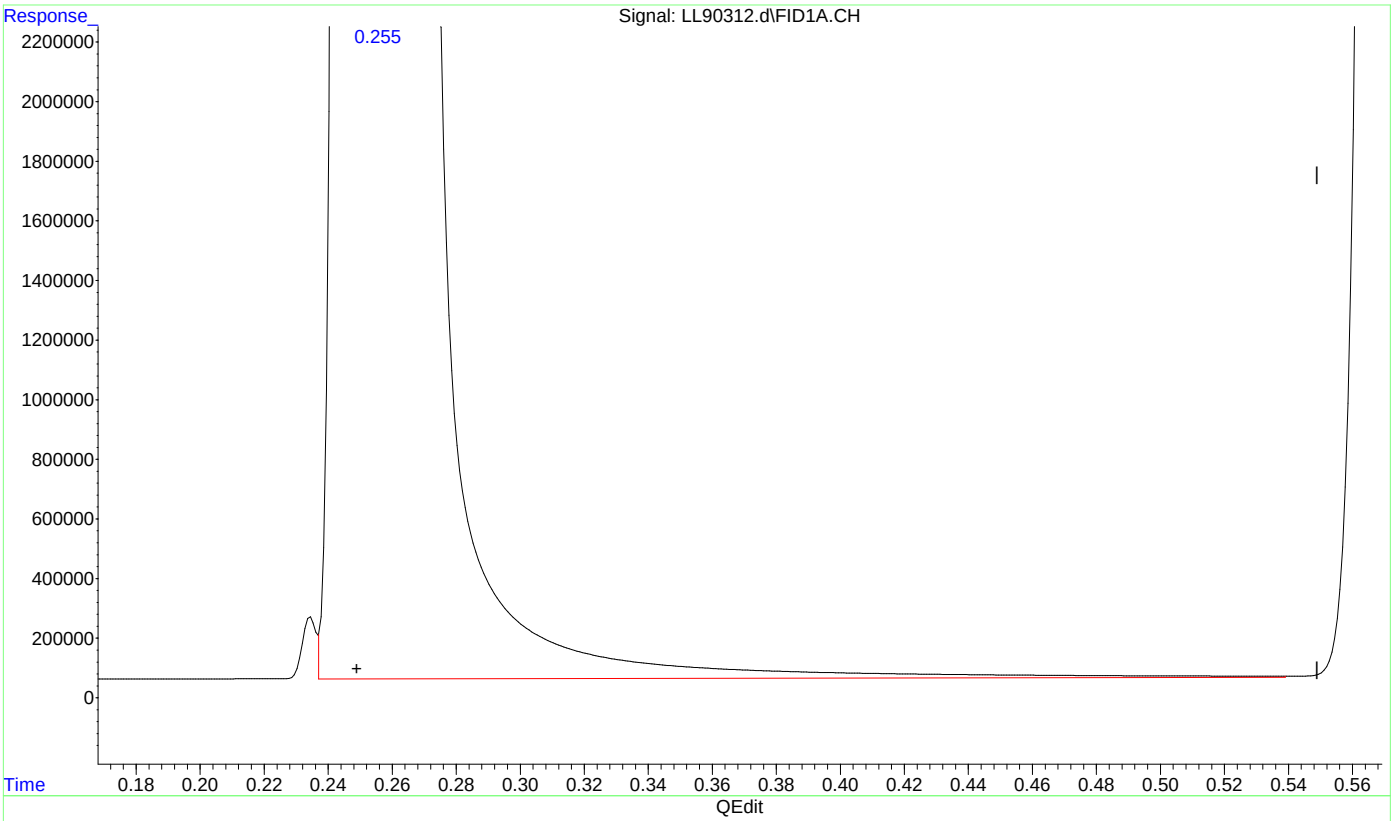
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:14 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.255min 923.067 ppmv m

response 637852546

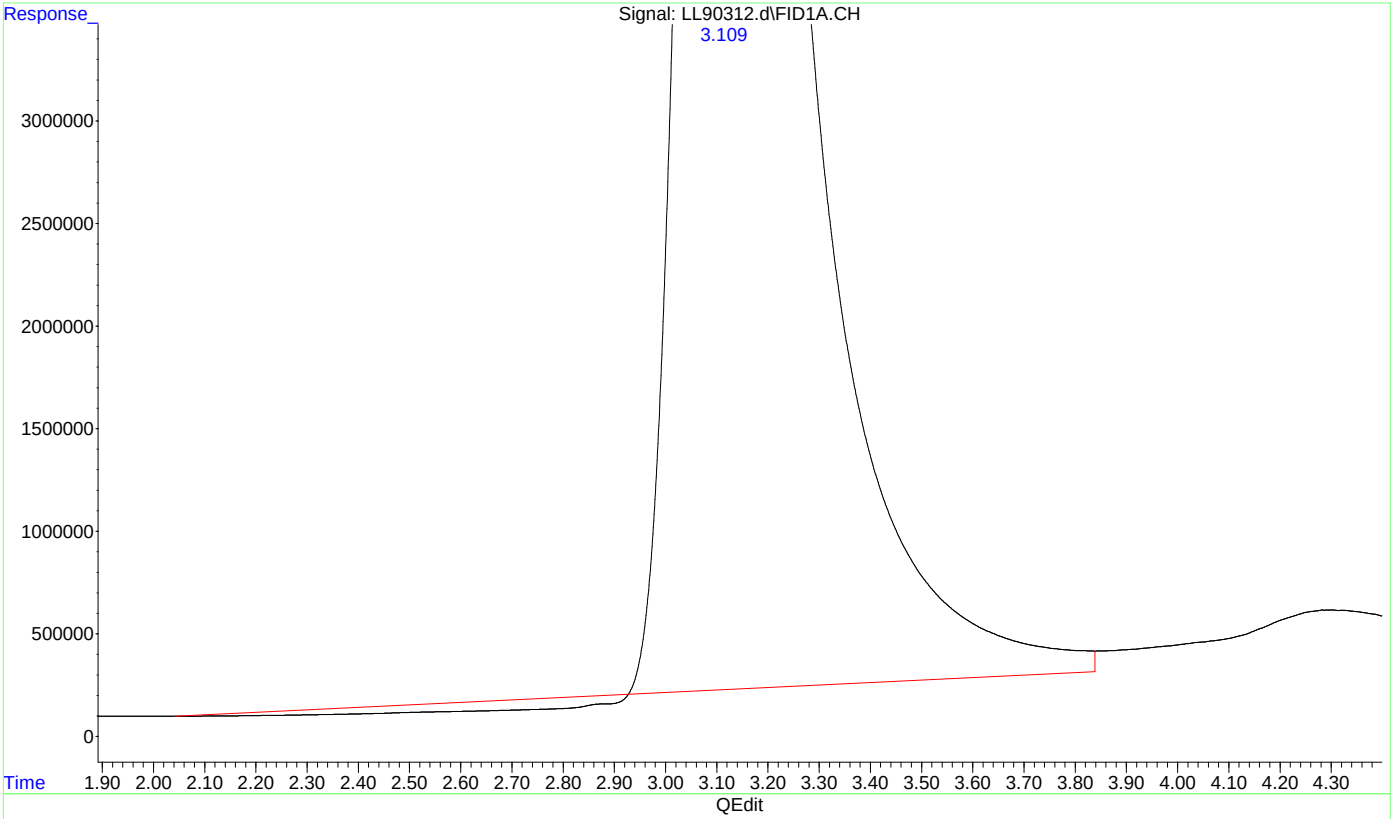
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:33 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 882.533 ppmv

response 1520565211

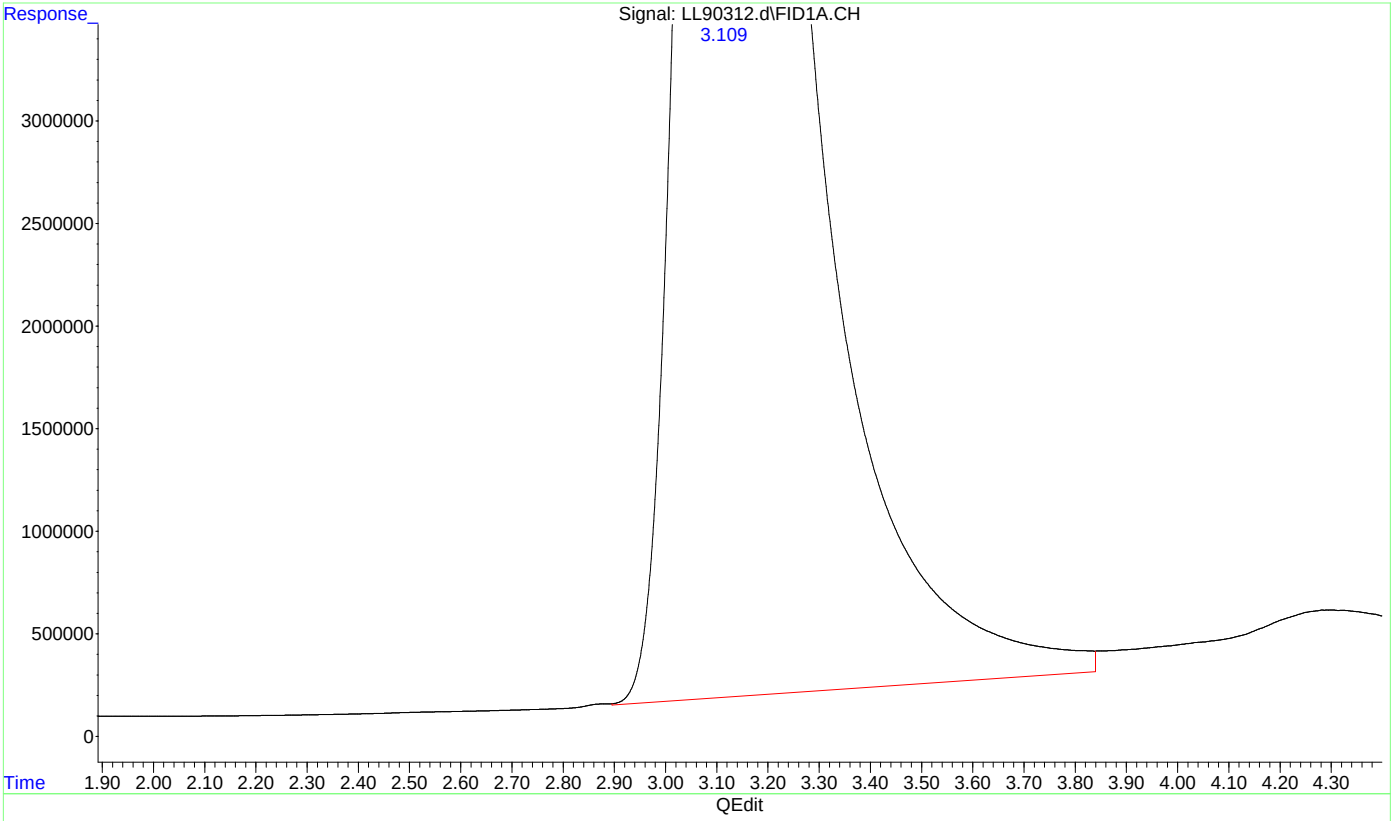
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:40 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90312.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:25:44
Operator : jennr
Sample : bs
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:34:02 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.109min 900.606 ppmv m

response 1551703096

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:34:45 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:54 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	687405768	994.778	ppmv	m
2)	Acetylene	0.577	1565818701	1009.520	ppmv	
3)	Ethylene	0.748	1207414076	1018.659	ppmv	
4)	Ethane	0.958	1238894894	999.293	ppmv	
5)	Propane	3.112	1665042061	966.387	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

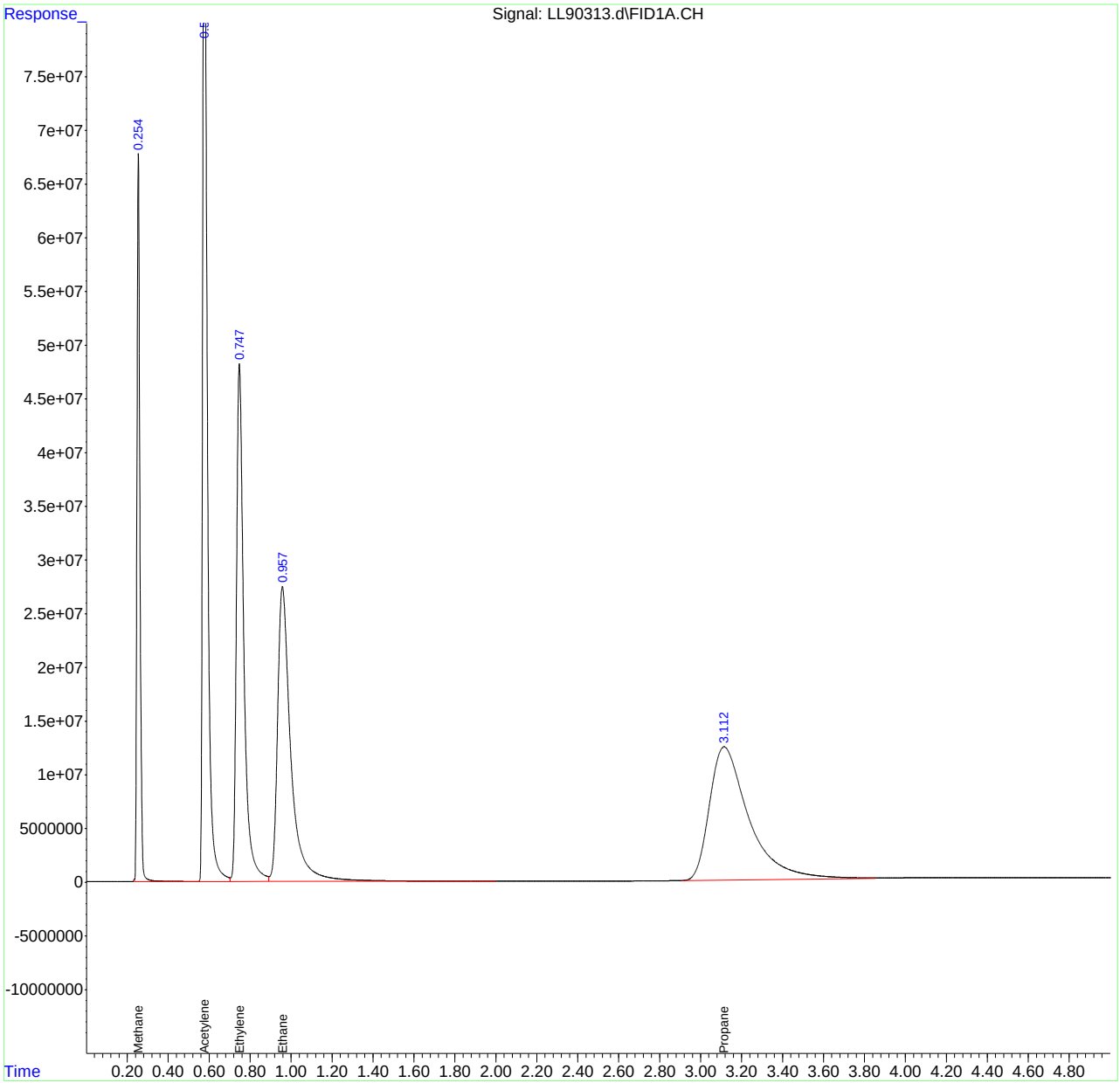
9.3.4
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:54 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-BSD
Lab FileID: LL90313.D
Injection Time: 06/28/24 09:36
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	GLL3145-BSD	**Sample Volume:**	38.0 ml
Lab FileID:	LL90313.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 09:36	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	994.78	38340	110	ug/l
Ethane	74-84-0	30	999.29	27080	225	ug/l
Ethene	74-85-1	28	1018.66	10440	307	ug/l
Acetylene	74-86-2	26	1009.52	12200	263	ug/l
Propane	74-98-6	44	966.39	32552	304	ug/l

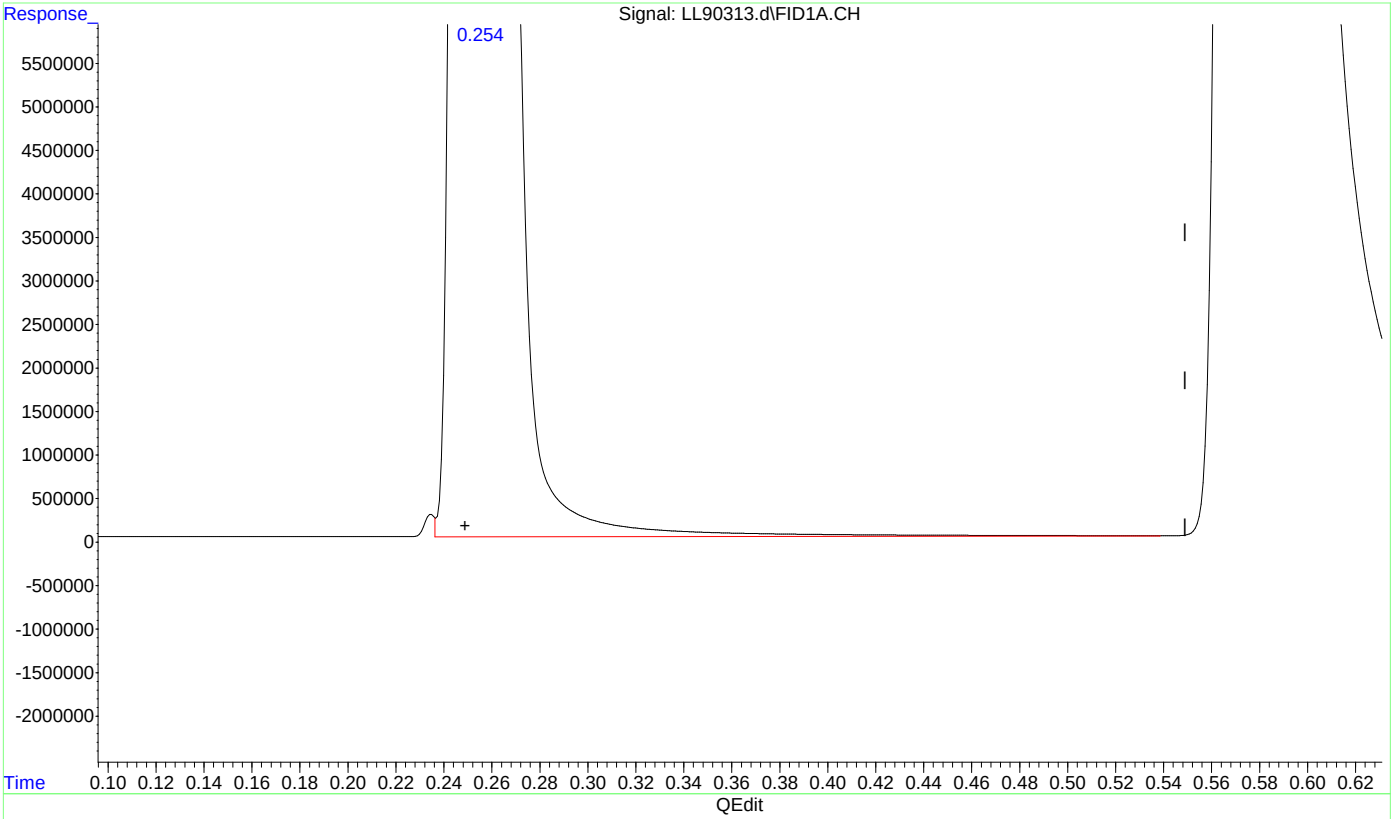
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 994.778 ppmv m

response 687405768

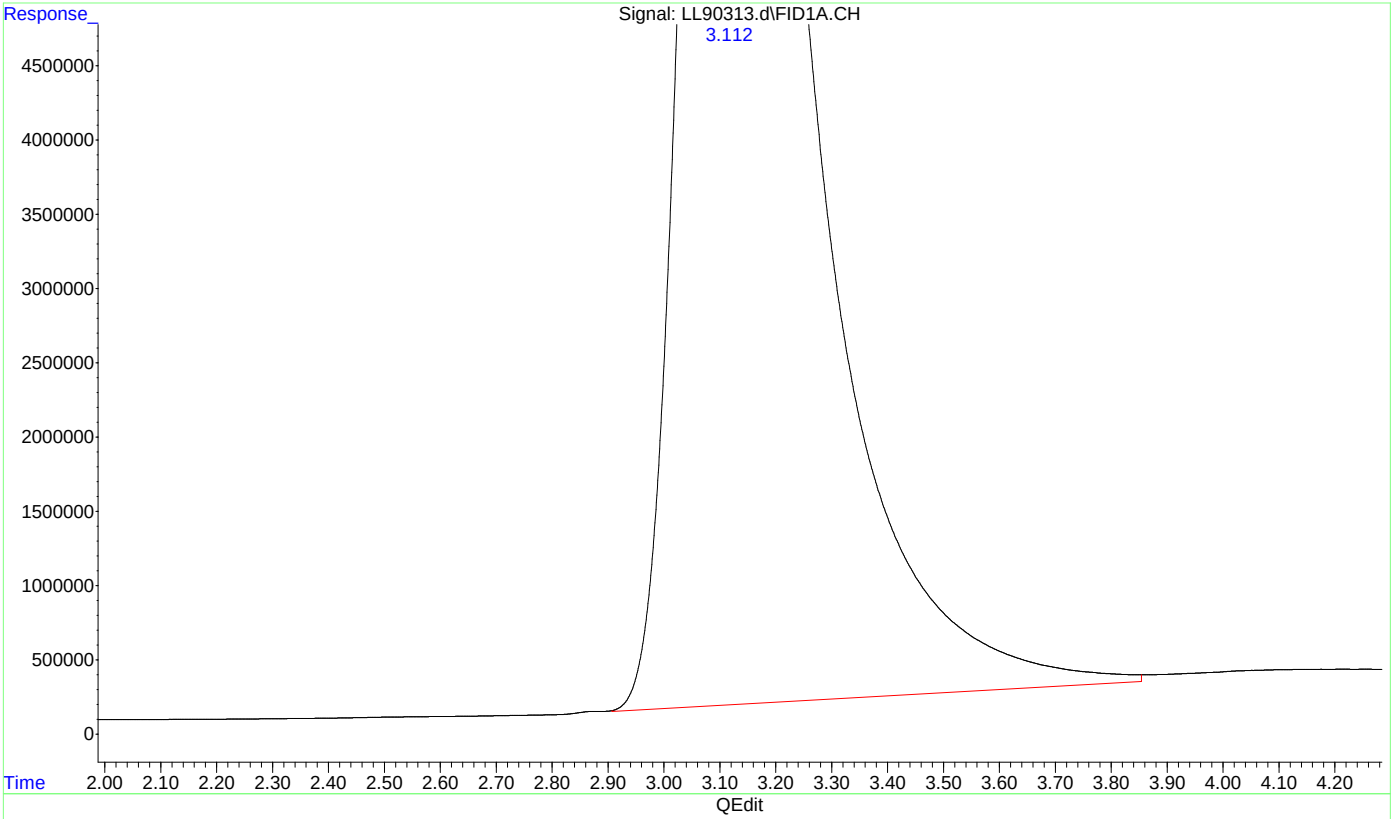
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90313.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:36:01
Operator : jennr
Sample : bsd
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:41:29 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.112min 966.387 ppmv m

response 1665042061

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 09:41:55 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:49 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.253	669225109	968.468 ppmv
2)	Acetylene	0.575	1529432248	986.061 ppmv
3)	Ethylene	0.746	1173907012	990.390 ppmv
4)	Ethane	0.956	1202248827	969.734 ppmv
5)	Propane	3.114	1610505122	934.734 ppmv m

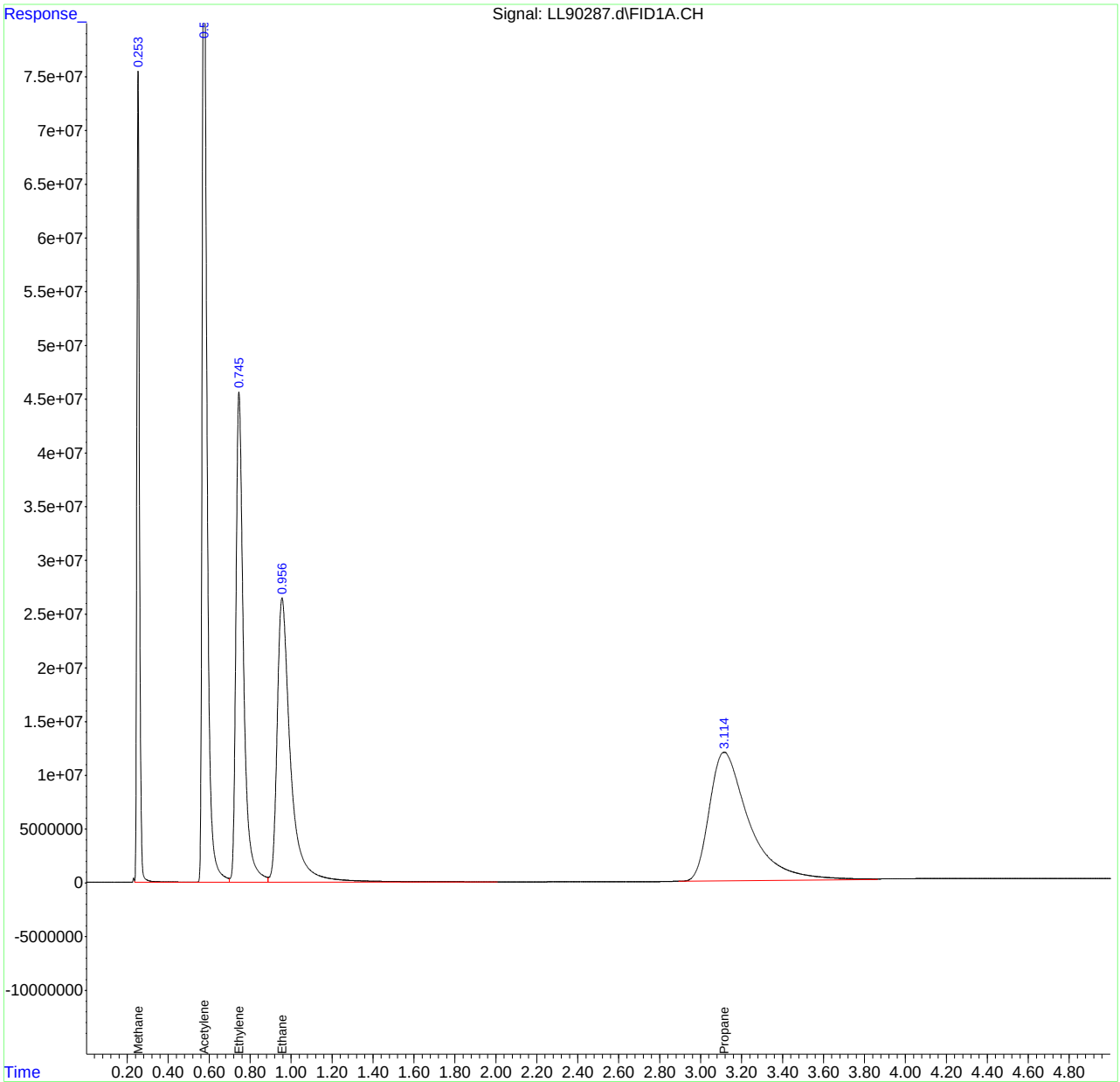
(f)=RT Delta > 1/2 Window (m)=manual int.

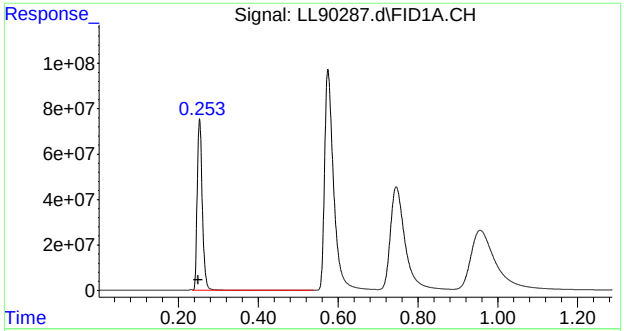
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:49 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

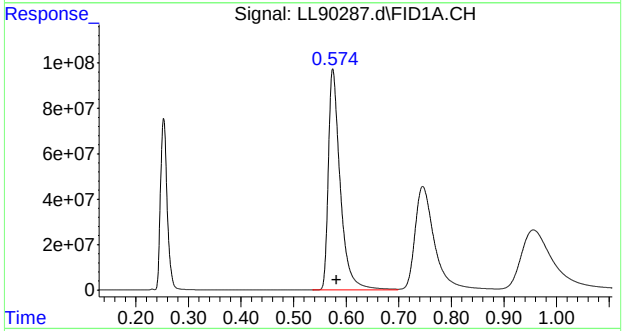
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





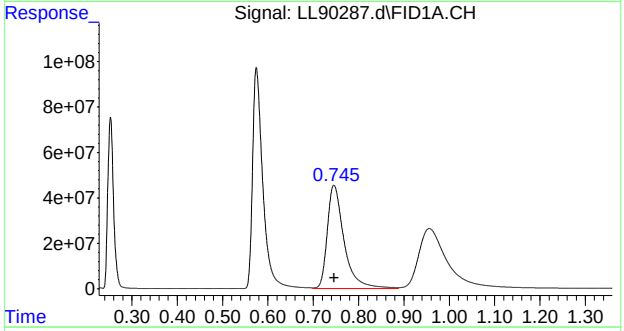
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 669225109
Conc: 968.47 ppmv



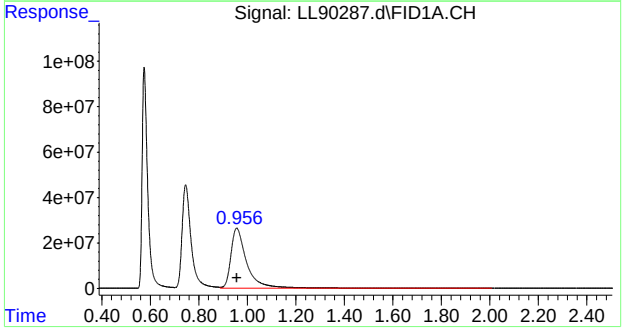
#2 Acetylene

R.T.: 0.575 min
Delta R.T.: -0.007 min
Response: 1529432248
Conc: 986.06 ppmv



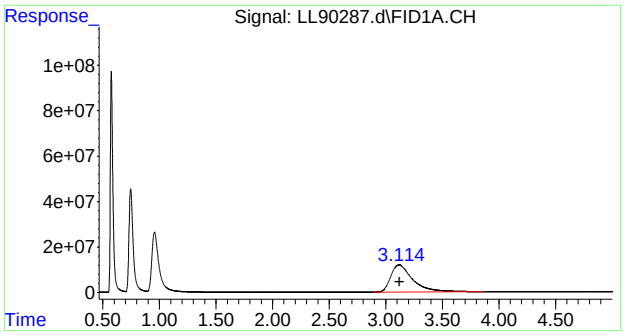
#3 Ethylene

R.T.: 0.746 min
Delta R.T.: 0.000 min
Response: 1173907012
Conc: 990.39 ppmv



#4 Ethane

R.T.: 0.956 min
Delta R.T.: 0.000 min
Response: 1202248827
Conc: 969.73 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.007 min
Response: 1610505122
Conc: 934.73 ppmv m

Manual Integration Approval Summary

Sample Number: FC16561-5MS
Lab FileID: LL90287.D
Injection Time: 06/27/24 10:43
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-5MS	**Sample Volume:**	39.0 ml
Lab FileID:	LL90287.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:43	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	968.47	38340	105	ug/l
Ethane	74-84-0	30	969.73	27080	214	ug/l
Ethene	74-85-1	28	990.39	10440	295	ug/l
Acetylene	74-86-2	26	986.06	12200	253	ug/l
Propane	74-98-6	44	934.73	32552	289	ug/l

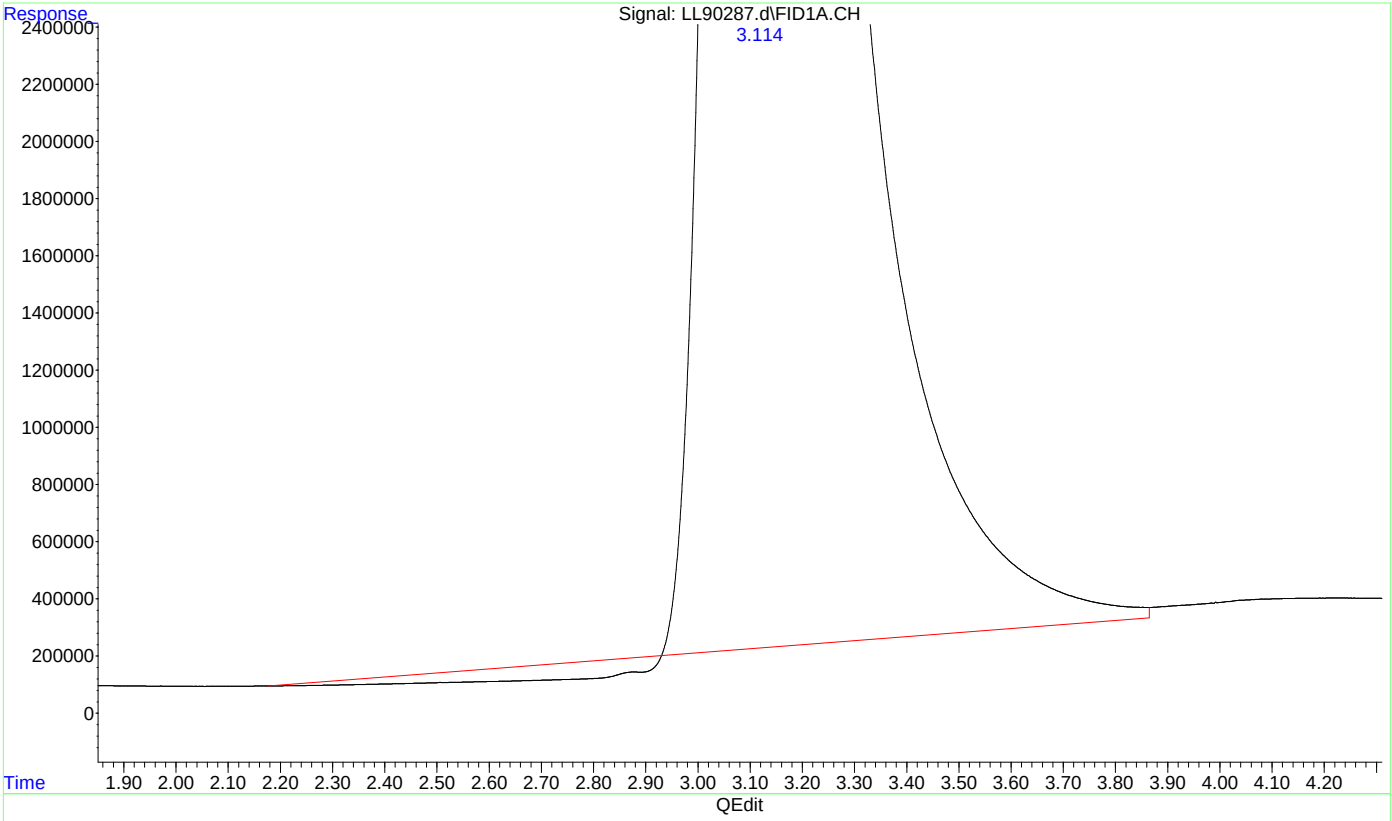
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 914.868 ppmv

response 1576276614

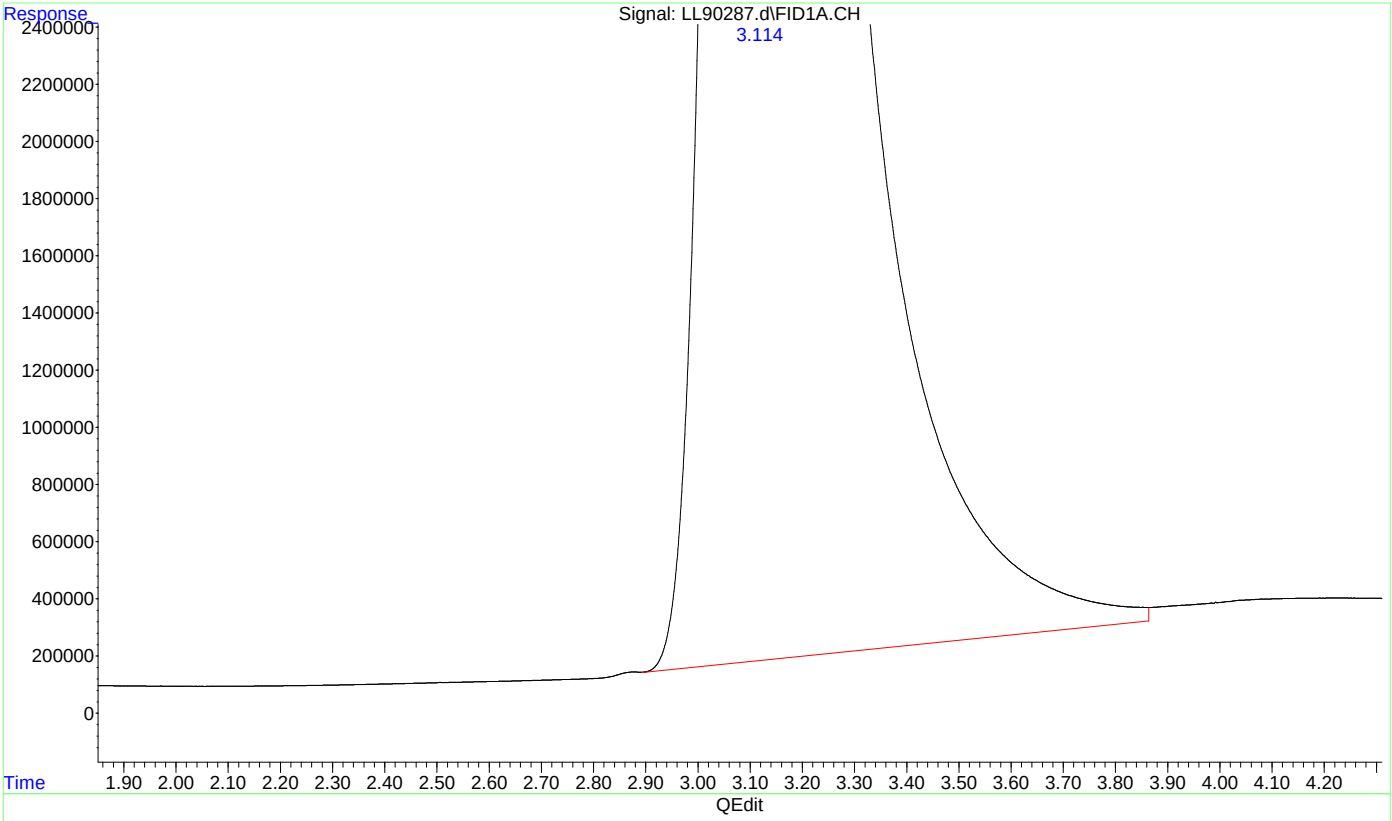
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:50:46 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90287.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:43:25
Operator : jennr
Sample : fc16561-5ms
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:50:35 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 934.734 ppmv m

response 1610505122

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:50:50 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,39,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.255	659467915	954.348 ppmv
2)	Acetylene	0.576	1482242736	955.637 ppmv
3)	Ethylene	0.747	1141844694	963.340 ppmv
4)	Ethane	0.957	1169366312	943.211 ppmv
5)	Propane	3.113	1572303723	912.562 ppmv m

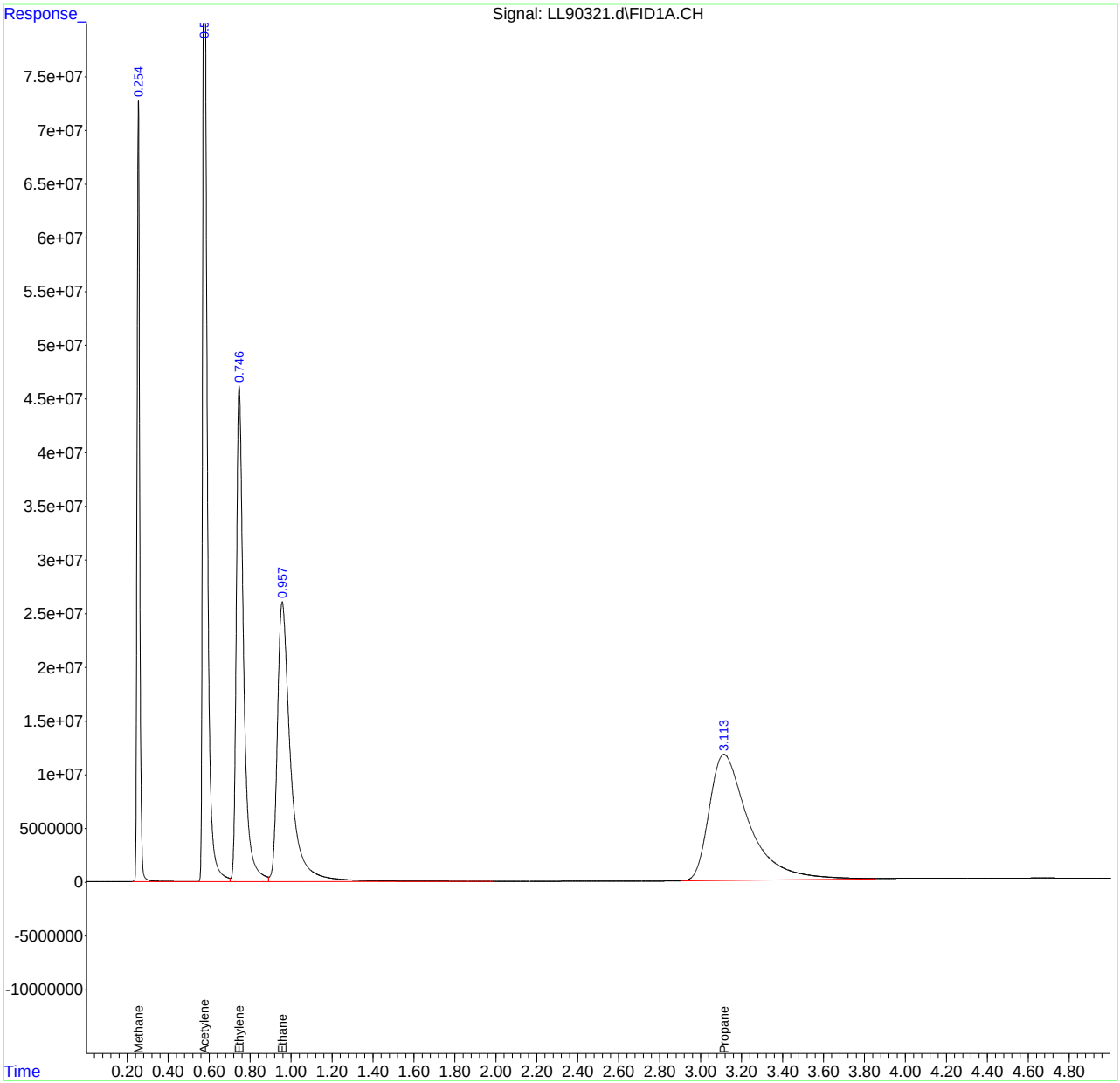
(f)=RT Delta > 1/2 Window (m)=manual int.

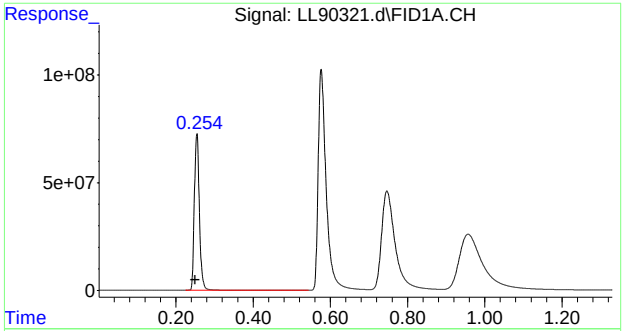
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,39,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:34 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

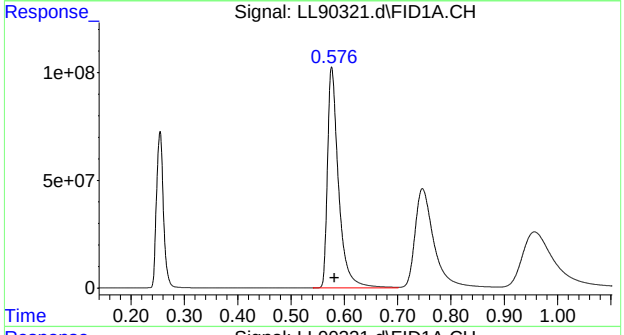
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





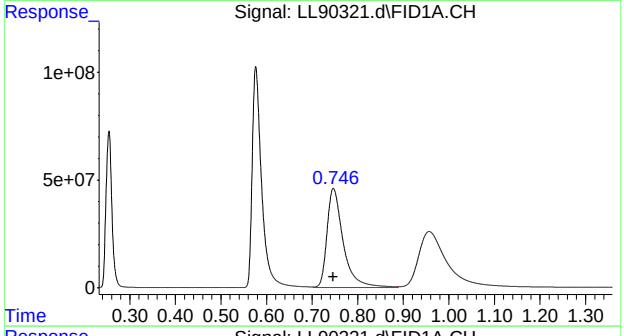
#1 Methane

R.T.: 0.255 min
Delta R.T.: 0.006 min
Response: 659467915
Conc: 954.35 ppmv



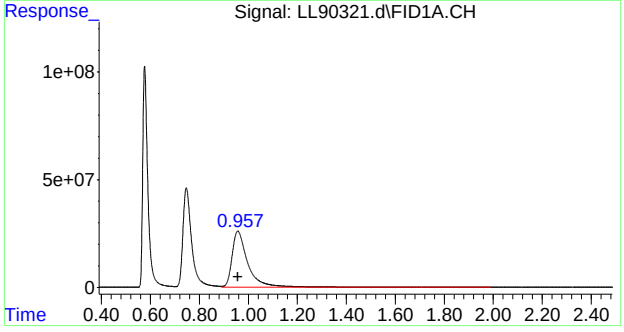
#2 Acetylene

R.T.: 0.576 min
Delta R.T.: -0.005 min
Response: 1482242736
Conc: 955.64 ppmv



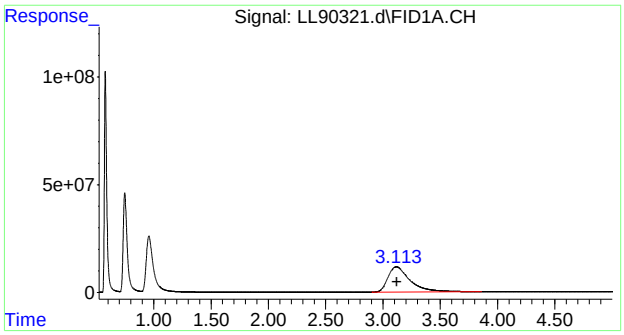
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.000 min
Response: 1141844694
Conc: 963.34 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1169366312
Conc: 943.21 ppmv



#5 Propane

R.T.: 3.113 min
Delta R.T.: -0.008 min
Response: 1572303723
Conc: 912.56 ppmv m

Manual Integration Approval Summary

Sample Number: FC16768-1MS
Lab FileID: LL90321.D
Injection Time: 06/28/24 11:25
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Dissolved Gases Raw Data Summary

Sample Number:	FC16768-1MS	**Sample Volume:**	39.0 ml
Lab FileID:	LL90321.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 11:25	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	954.35	38340	103	ug/l
Ethane	74-84-0	30	943.21	27080	208	ug/l
Ethene	74-85-1	28	963.34	10440	287	ug/l
Acetylene	74-86-2	26	955.64	12200	245	ug/l
Propane	74-98-6	44	912.56	32552	282	ug/l

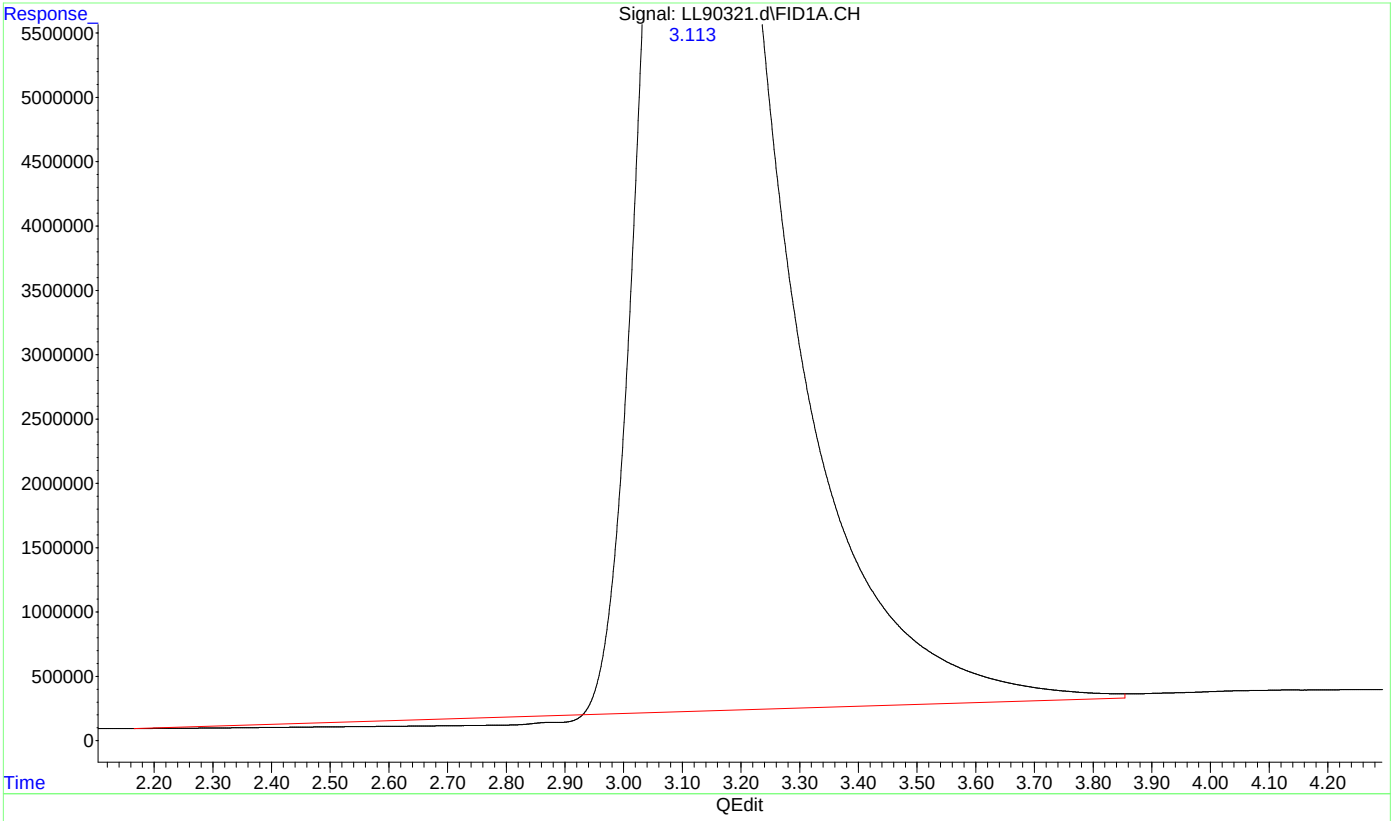
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:19 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 892.871 ppmv

response 1538376615

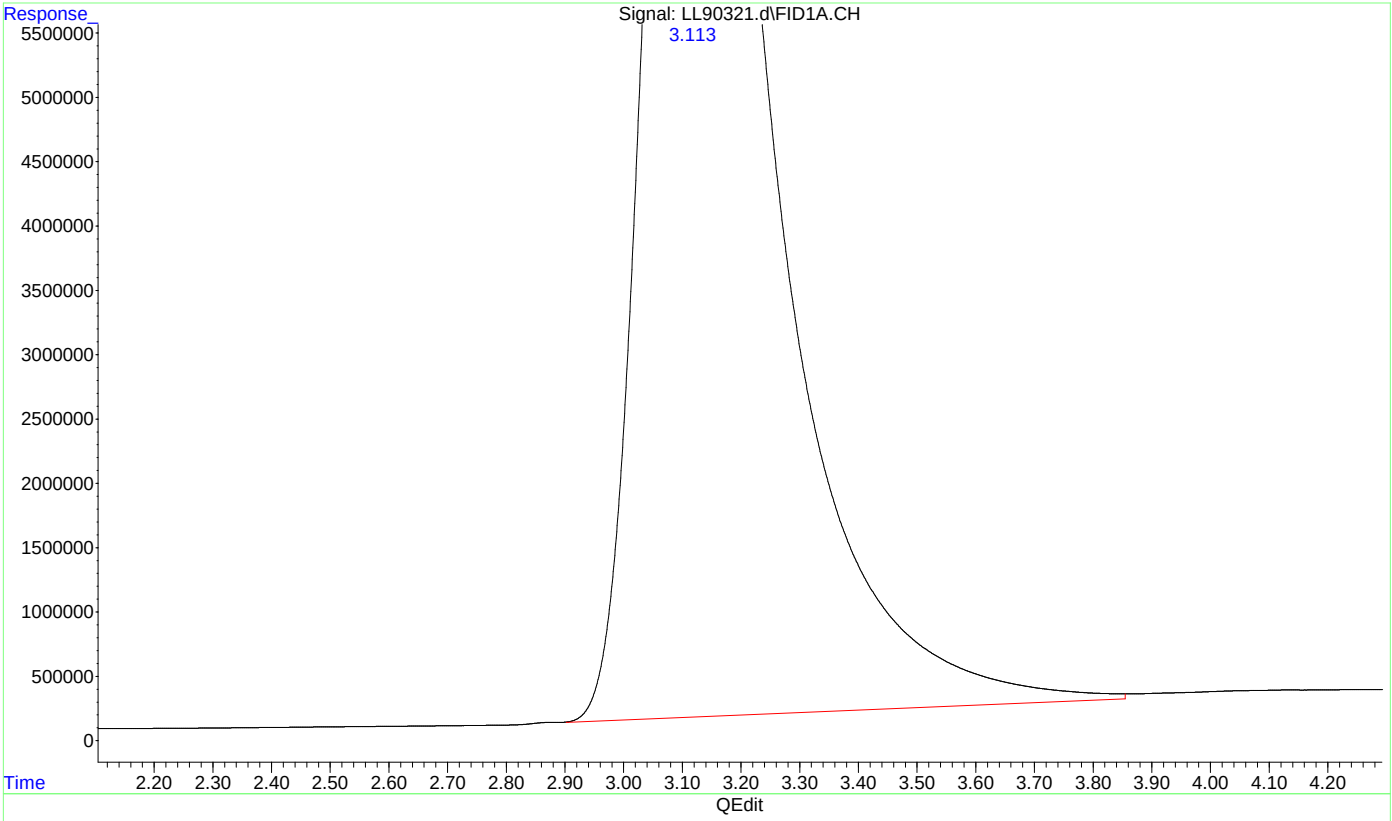
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:31:31 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90321.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:25:38
Operator : jennr
Sample : fc16768-1ms
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:31:19 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 912.562 ppmv m

response 1572303723

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:31:35 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:41:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.250	1284839	1.859	ppmv m
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv
4)	Ethane	0.000	0	N.D.	ppmv
5)	Propane	0.000	0	N.D.	ppmv

(f)=RT Delta > 1/2 Window (m)=manual int.

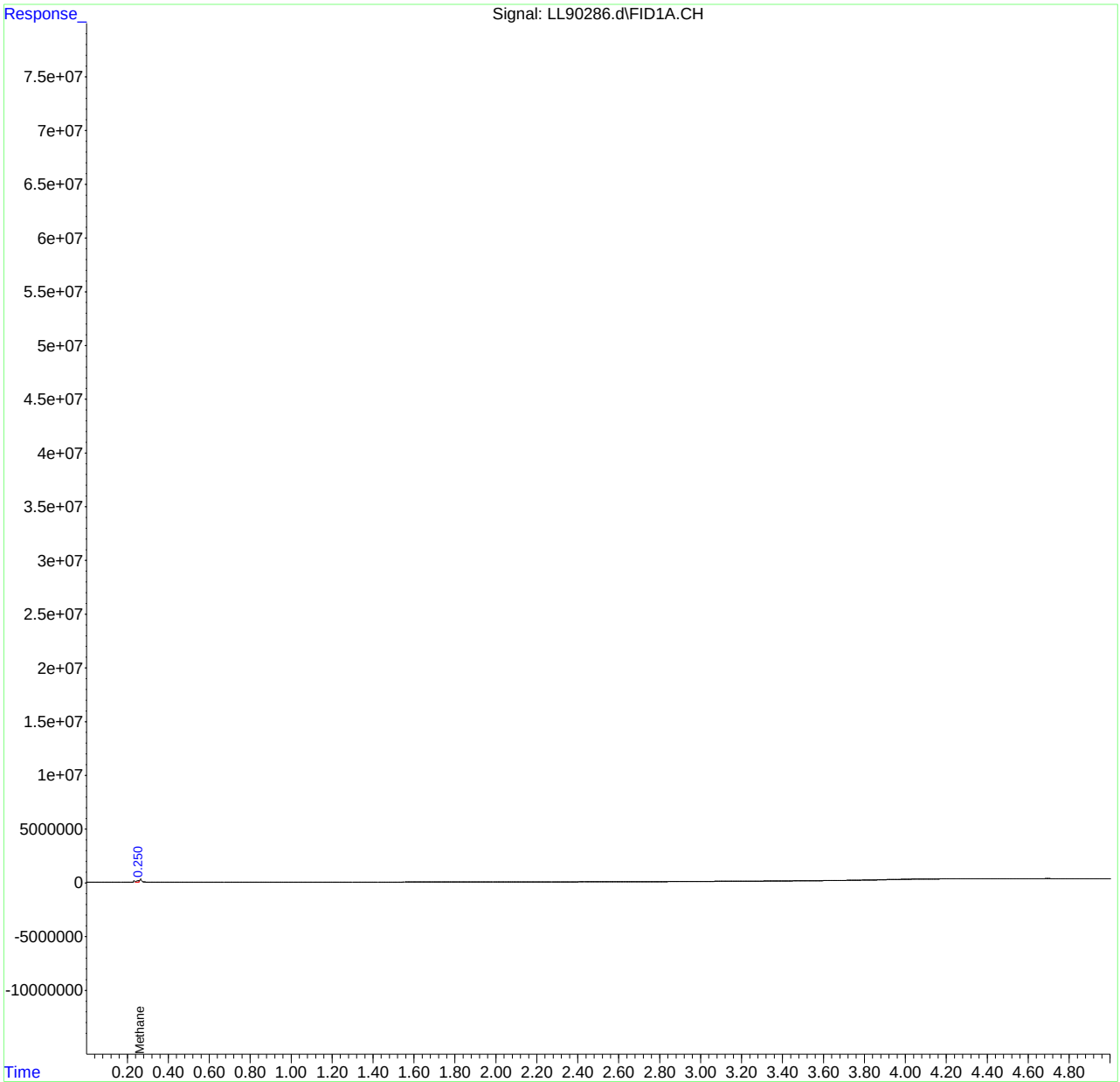
9.5.1
9

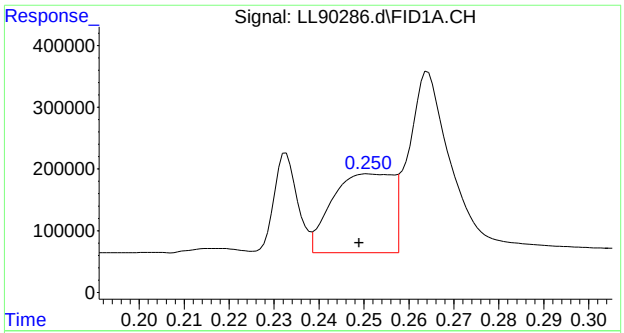
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,39,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:41:18 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

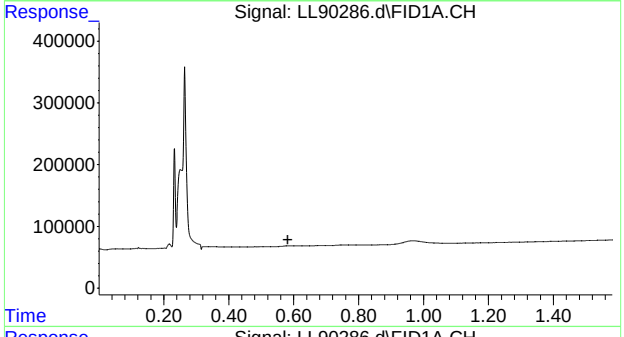
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





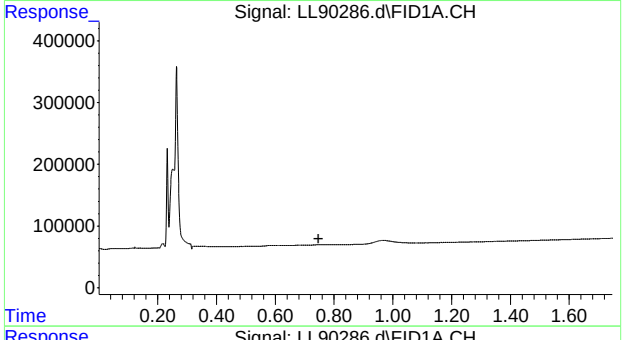
#1 Methane

R.T.:	0.250 min
Delta R.T.:	0.001 min
Response:	1284839
Conc:	1.86 ppmv m



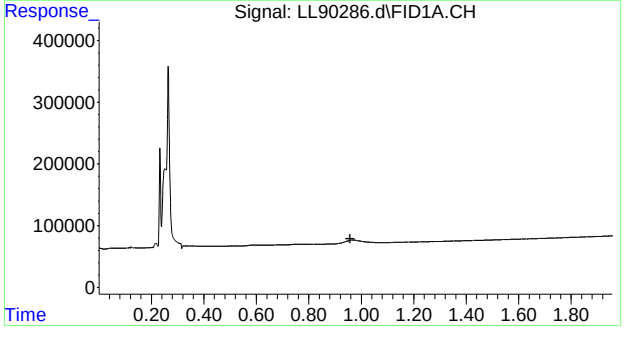
#2 Acetylene

R.T.:	0.000 min
Exp R.T. :	0.582 min
Response:	0
Conc:	N.D.



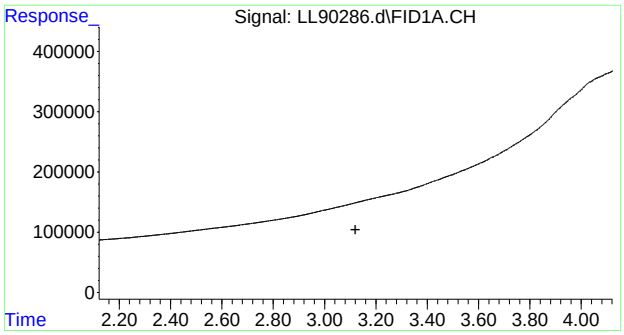
#3 Ethylene

R.T.:	0.000 min
Exp R.T. :	0.746 min
Response:	0
Conc:	N.D.



#4 Ethane

R.T.:	0.000 min
Exp R.T. :	0.956 min
Response:	0
Conc:	N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Manual Integration Approval Summary

Sample Number: FC16561-5DUP
Lab FileID: LL90286.D
Injection Time: 06/27/24 10:34
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak

Dissolved Gases Raw Data Summary

Sample Number:	FC16561-5DUP	**Sample Volume:**	39.0 ml
Lab FileID:	LL90286.D	**Headspace:**	5.0 ml
Injection Time:	06/27/24 10:34	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	1.86	38340	0.20	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

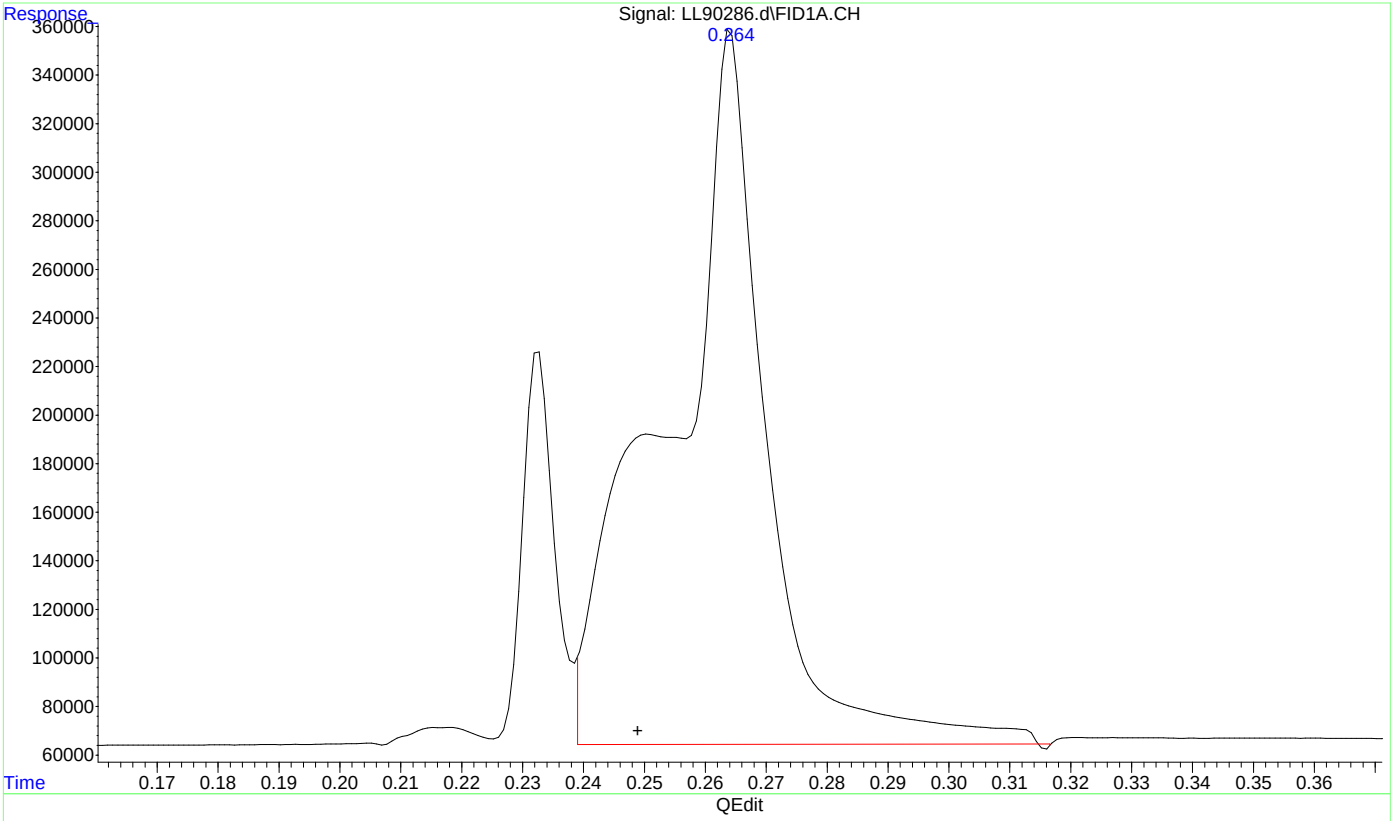
Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:40:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.264min 4.768 ppmv

response 3294797

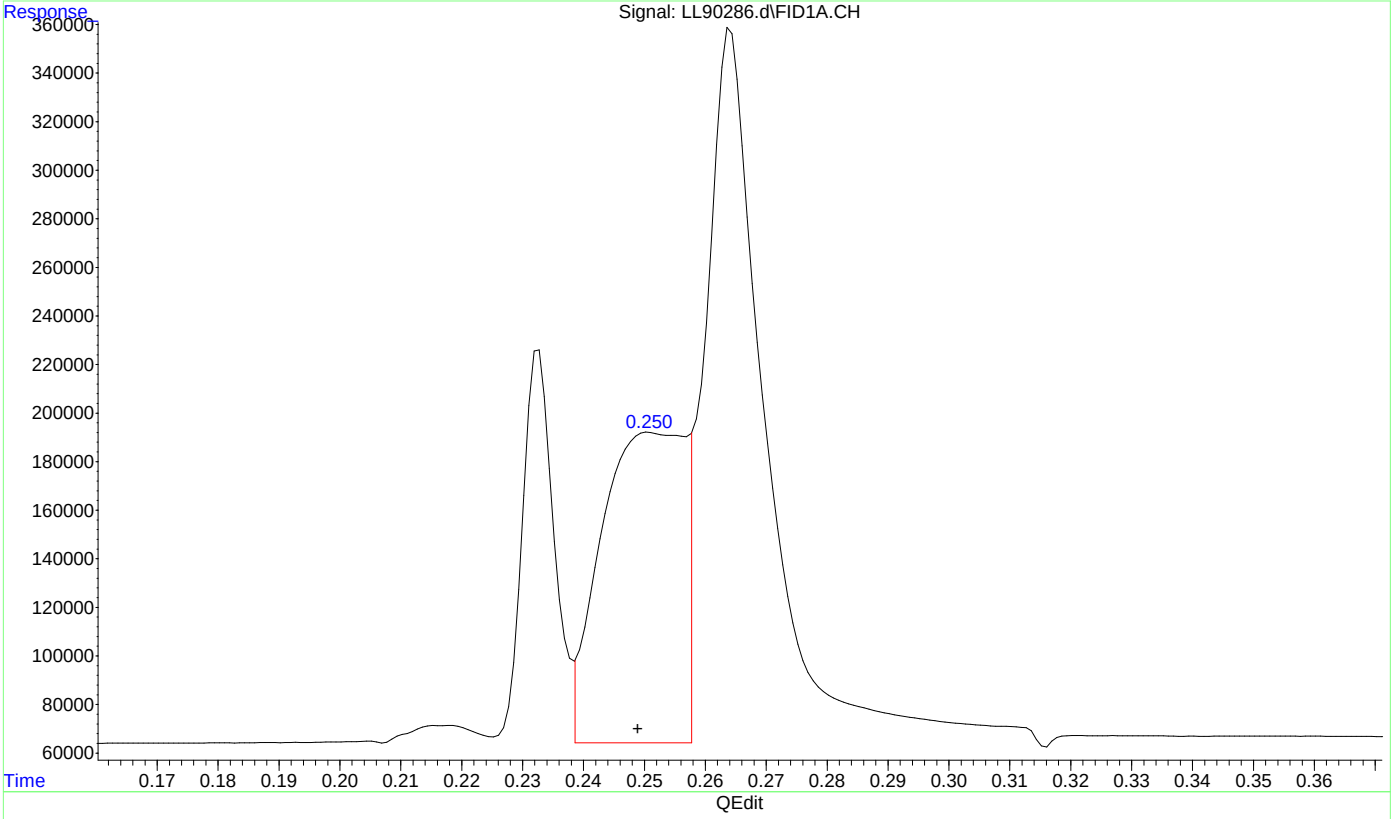
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:40:53 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90286.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 10:34:16
Operator : jennr
Sample : fc16561-5dup
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 10:40:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.250min 1.859 ppmv m

response 1284839

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 10:41:20 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90324.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:48:23
Operator : jennr
Sample : fc16768-6dup
Misc : gc24892,gll3145,38.5,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:59:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.249	1698428	2.458	ppmv
2)	Acetylene	0.000	0	N.D.	ppmv
3)	Ethylene	0.000	0	N.D.	ppmv d
4)	Ethane	0.000	0	N.D.	ppmv d
5)	Propane	0.000	0	N.D.	ppmv d

(f)=RT Delta > 1/2 Window (m)=manual int.

9.5.2

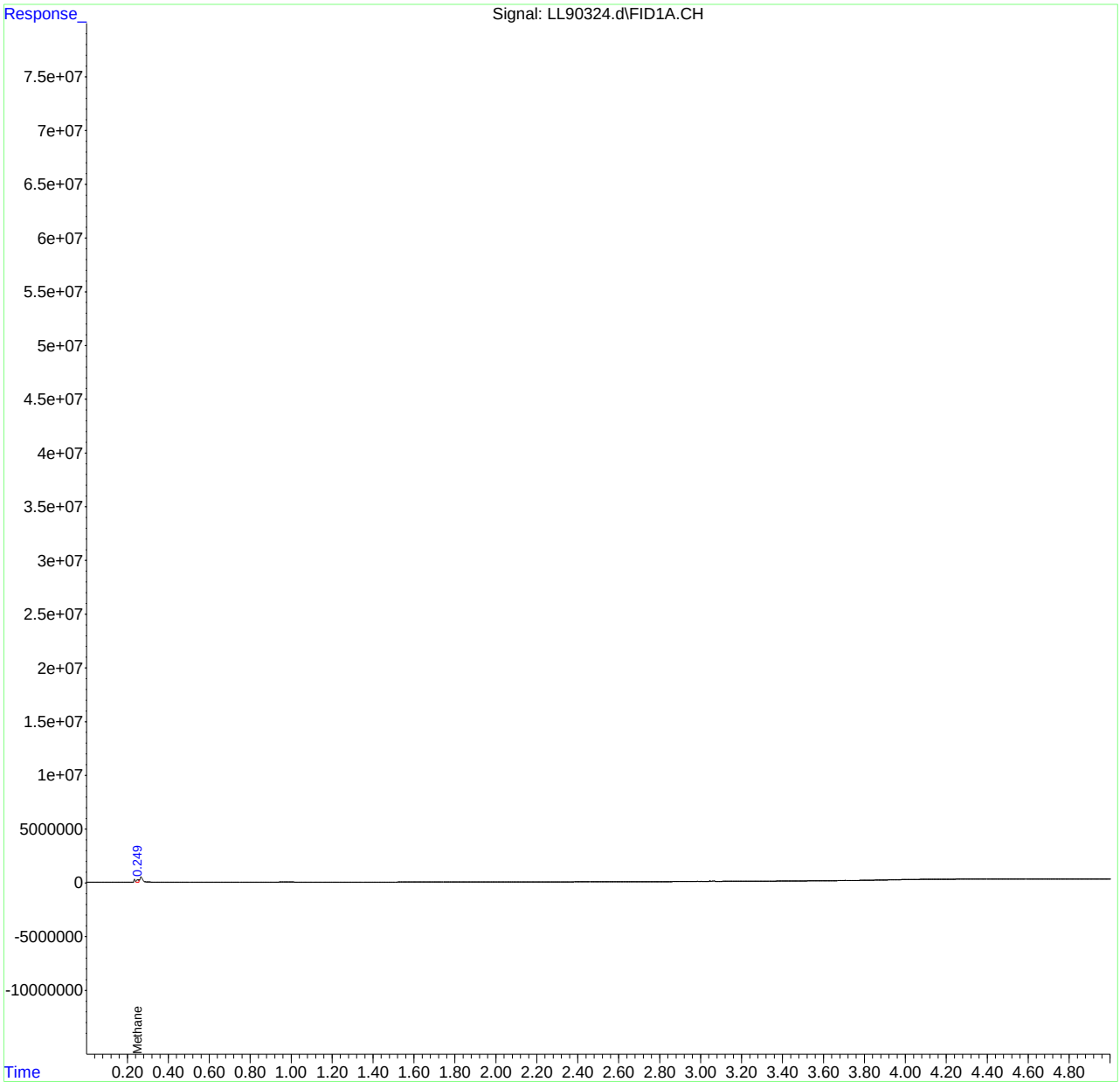
9

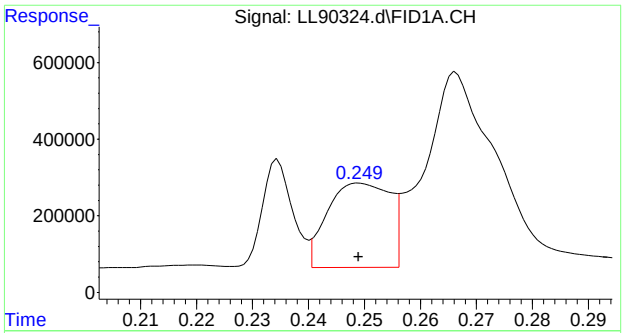
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90324.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:48:23
Operator : jennr
Sample : fc16768-6dup
Misc : gc24892,gll3145,38.5,21,500,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:59:45 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

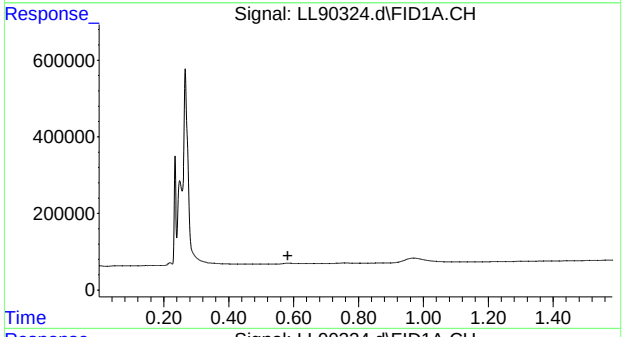
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





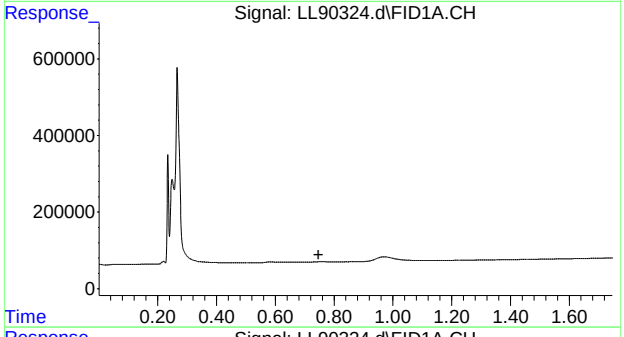
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.000 min
Response: 1698428
Conc: 2.46 ppmv



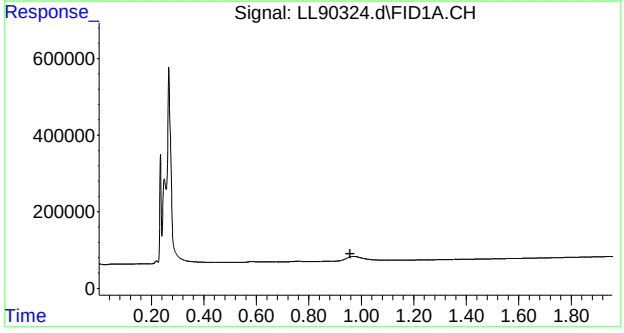
#2 Acetylene

R.T.: 0.000 min
Exp R.T. : 0.582 min
Response: 0
Conc: N.D.



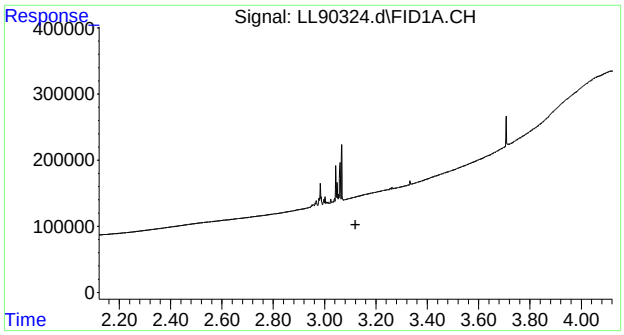
#3 Ethylene

R.T.: 0.000 min
Exp R.T. : 0.746 min
Response: 0
Conc: N.D.



#4 Ethane

R.T.: 0.000 min
Exp R.T. : 0.956 min
Response: 0
Conc: N.D.



#5 Propane

R.T.:	0.000 min
Exp R.T. :	3.120 min
Response:	0
Conc:	N.D.

Dissolved Gases Raw Data Summary

Sample Number:	FC16768-6DUP	**Sample Volume:**	38.5 ml
Lab FileID:	LL90324.D	**Headspace:**	5.0 ml
Injection Time:	06/28/24 11:48	**Volume Injected:**	500 ul
Method:	RSKSOP-147/175	**Temperature:**	21 Deg. C

Parameter	CAS	MW	Result (ppmv)	Henry's Constant	Total	Units
Methane	74-82-8	16	2.46	38340	0.27	ug/l
Ethane	74-84-0	30	0	27080	0.0	ug/l
Ethene	74-85-1	28	0	10440	0.0	ug/l
Acetylene	74-86-2	26	0	12200	0.0	ug/l
Propane	74-98-6	44	0	32552	0.0	ug/l

Henry's Constants	20	21	22	23	24	25	26	27	28	29	30
Methane	37600	38340	39080	39820	40560	41300	42020	42740	43360	44180	44900
Ethane	26300	27080	27860	28640	29420	30200	31000	31800	32600	33400	34200
Ethene	10200	10440	10680	10920	11160	11400	11660	11920	12180	12440	12700
Acetylene	11940	12200	12470	12730	13000	13260	13530	13800	14060	14330	14600
Propane	31474	32552	33643	34744	35857	36978	38107	39244	40387	41535	42688

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09:26 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	1341398	2.022	ppmv	
2)	Acetylene	0.58	2082792	1.769	ppmv	m
3)	Ethylene	0.75	1680636	1.642	ppmv	m
4)	Ethane	0.97	1755778	1.669	ppmv	m
5)	Propane	3.29	1588808	1.038	ppmv	m

9.6.1
9

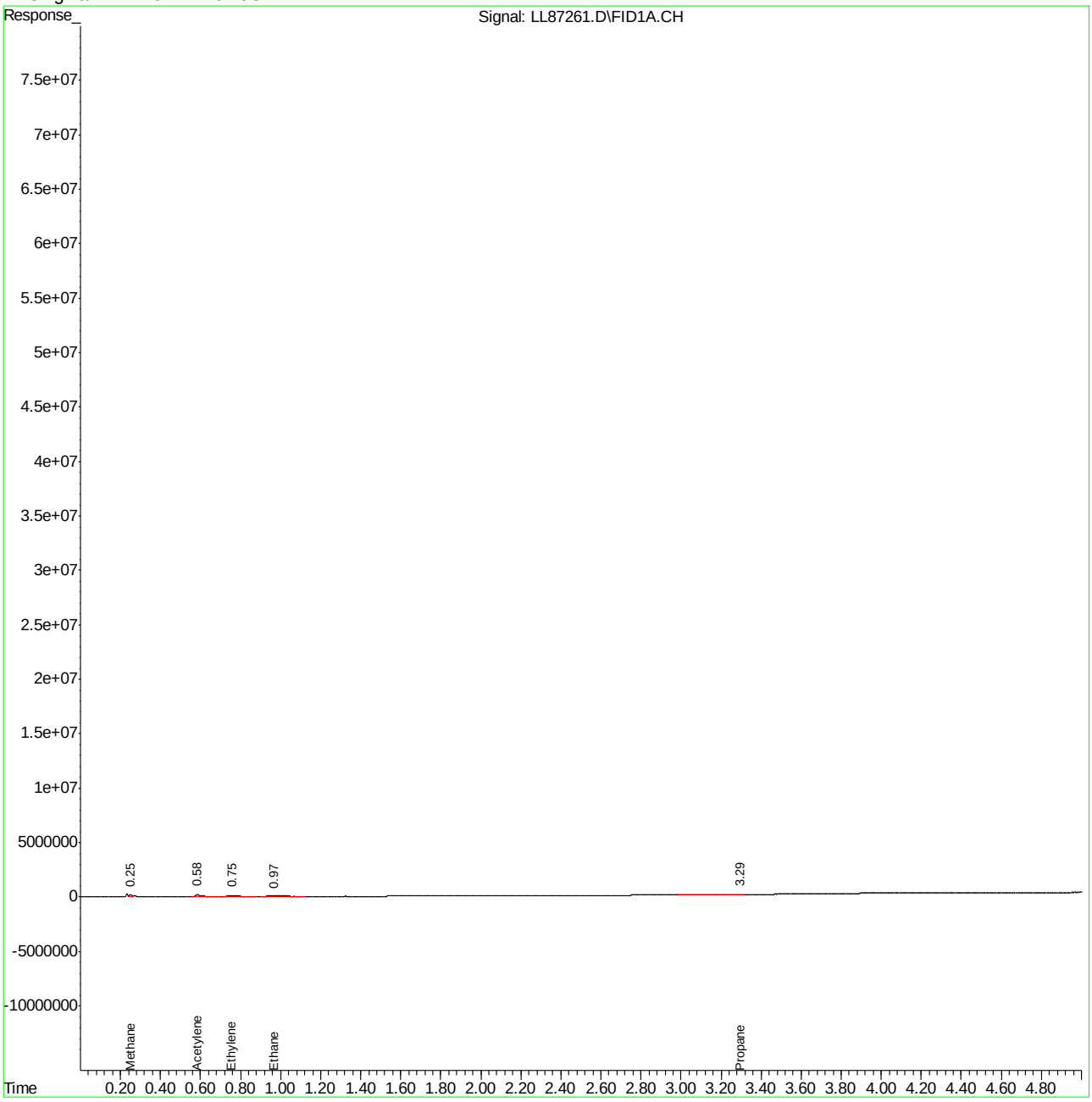
(f)=RT Delta > 1/2 Window (m)=manual int.

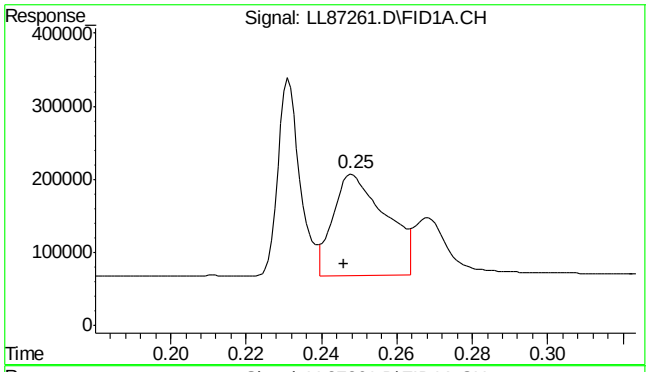
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:10 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

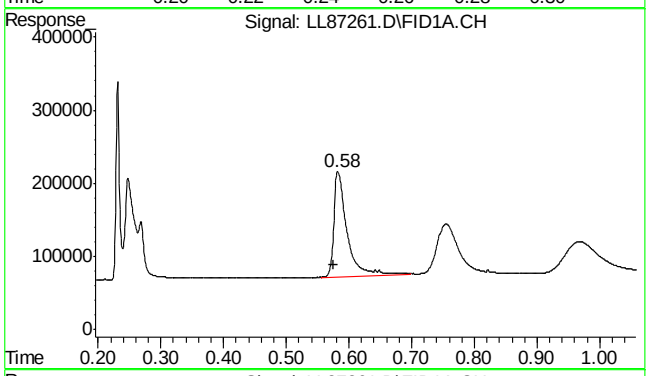
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





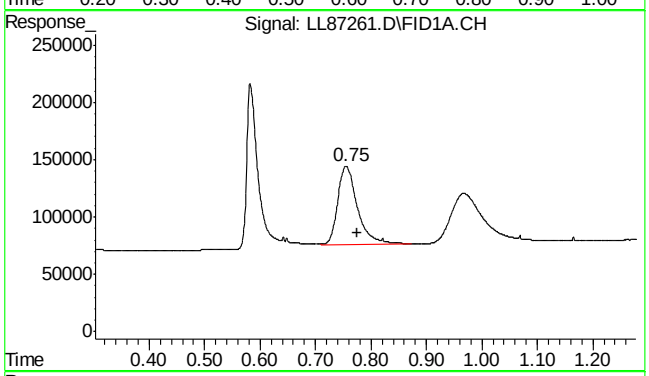
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.002 min
Response: 1341398
Conc: 2.02 ppmv



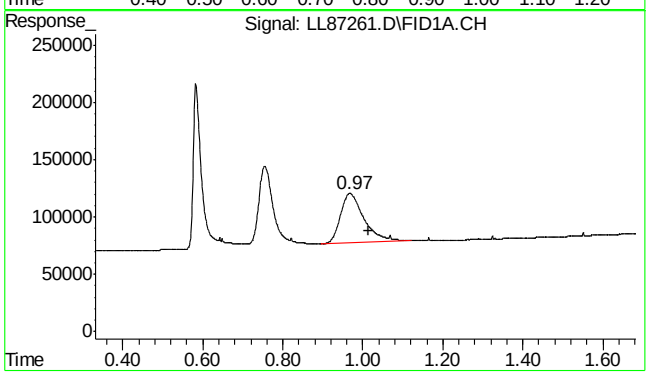
#2 Acetylene

R.T.: 0.582 min
Delta R.T.: 0.007 min
Response: 2082792
Conc: 1.77 ppmv m



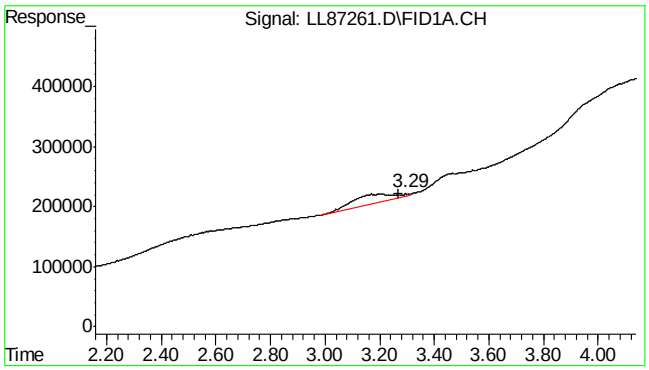
#3 Ethylene

R.T.: 0.754 min
Delta R.T.: -0.022 min
Response: 1680636
Conc: 1.64 ppmv m



#4 Ethane

R.T.: 0.968 min
Delta R.T.: -0.046 min
Response: 1755778
Conc: 1.67 ppmv m



#5 Propane

R.T.:	3.293 min
Delta R.T.:	0.022 min
Response:	1588808
Conc:	1.04 ppmv m

Manual Integration Approval Summary

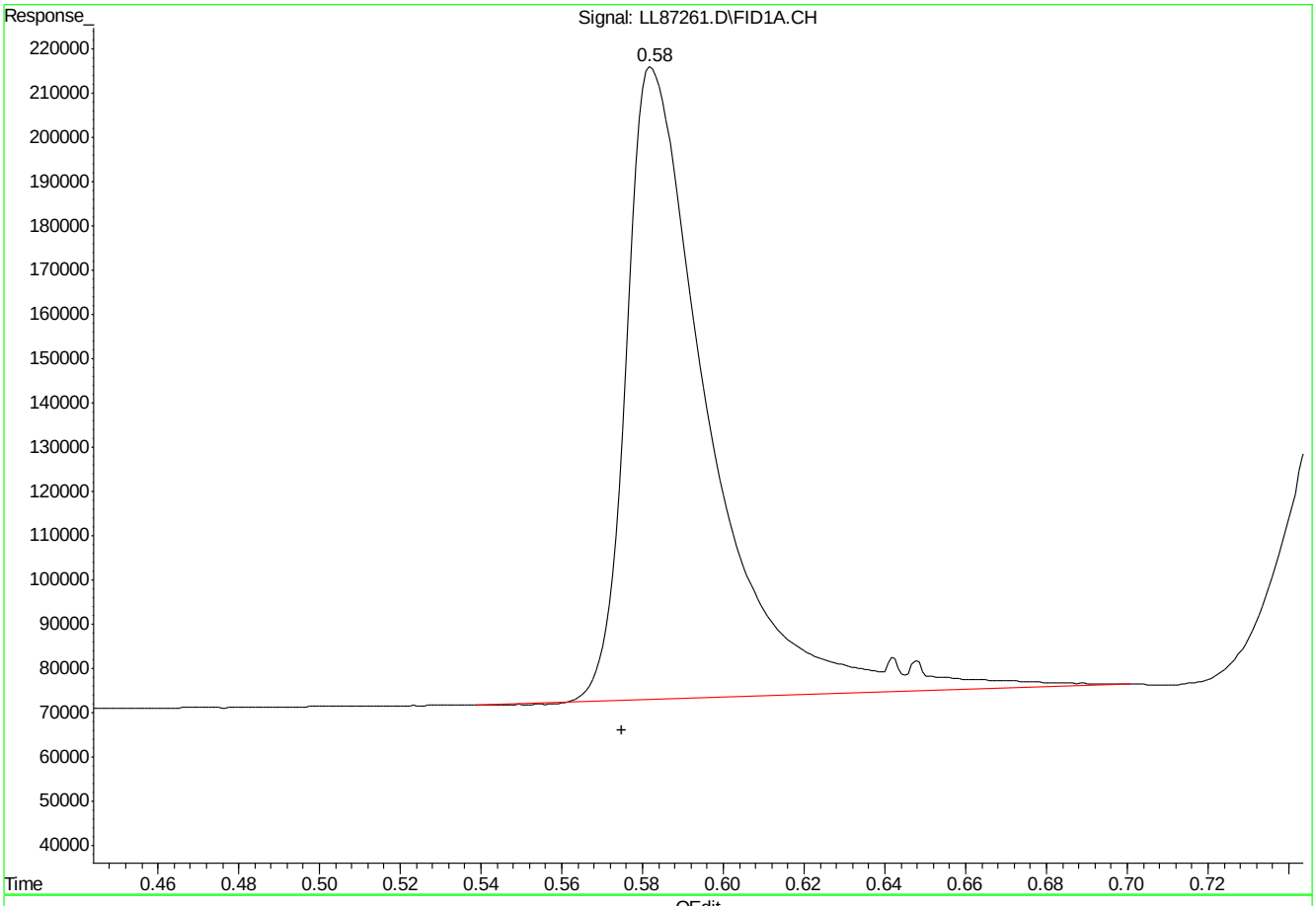
Sample Number: GLL3025-IC3025
Lab FileID: LL87261.D
Injection Time: 01/10/24 12:04
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetylene	74-86-2	1	0.58	Poor instrument integration
Ethene	74-85-1	1	0.75	Poor instrument integration
Ethane	74-84-0	1	0.97	Poor instrument integration
Propane	74-98-6	1	3.29	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(2) Acetylene

0.58min 1.743ppmv

response 2051910

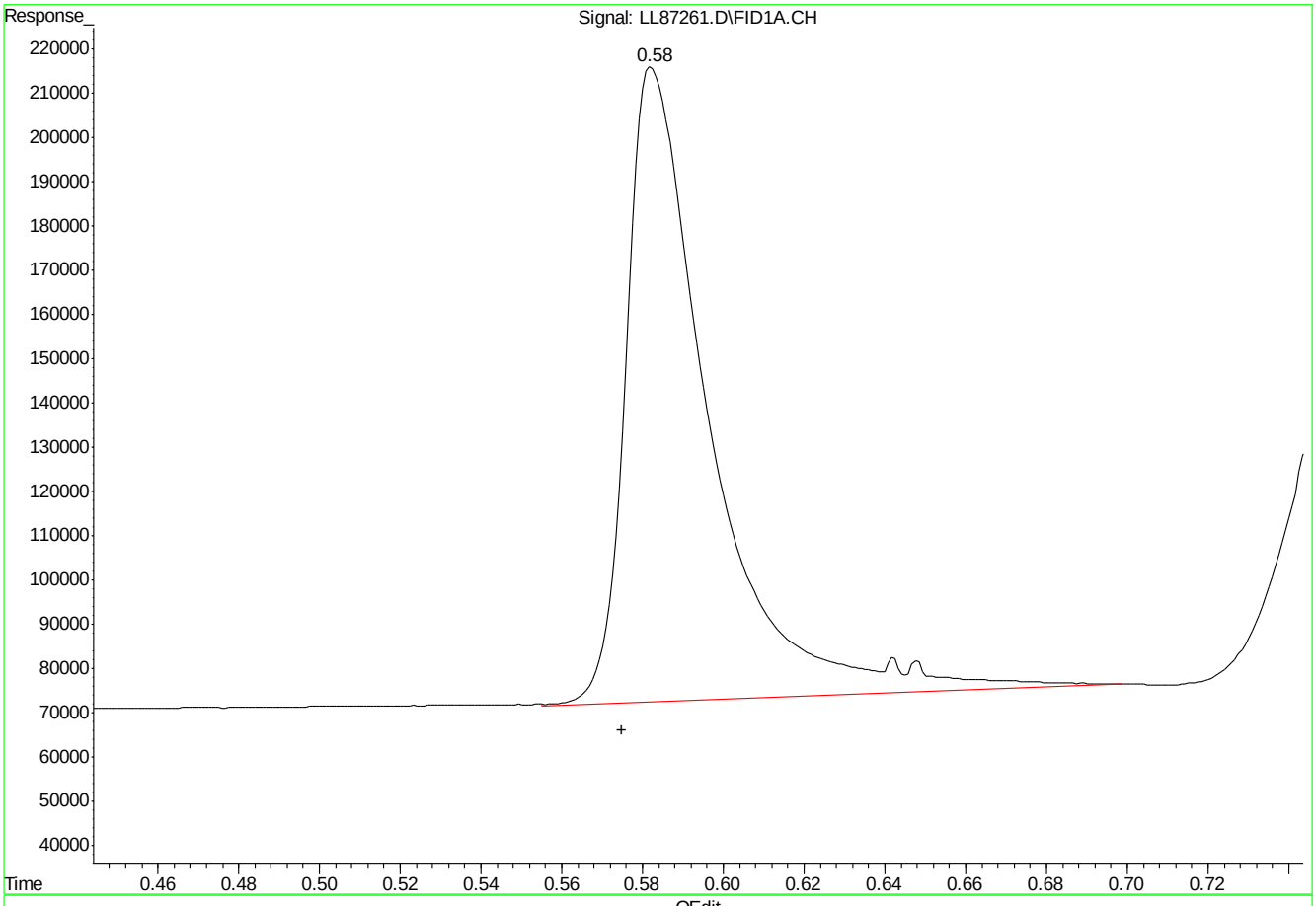
(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:42 2024

LL87261.D edits: Acetylene

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(2) Acetylene

0.58min 1.769ppmv m

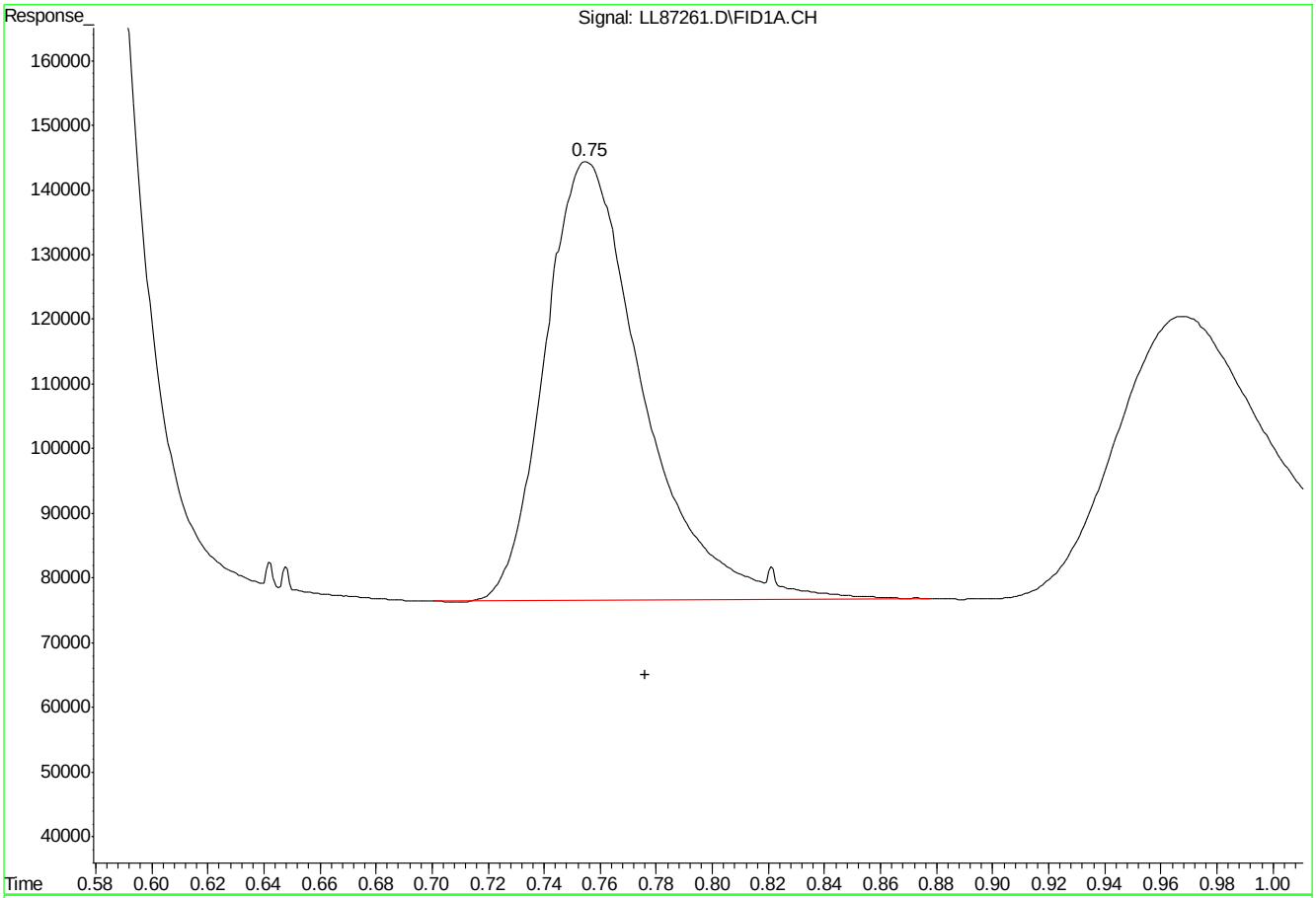
response 2082792

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:49 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(3) Ethylene

0.76min 1.610ppmv

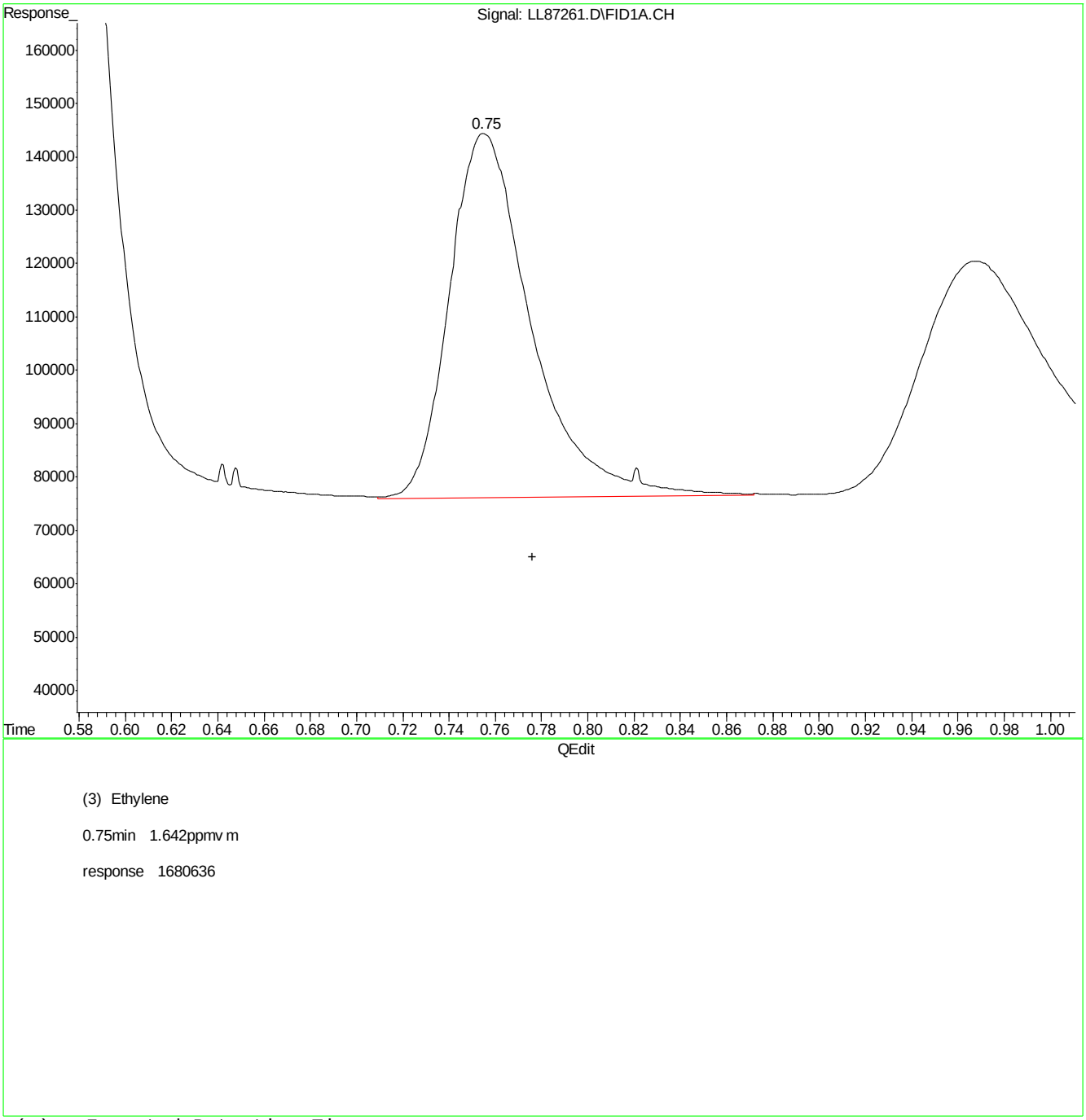
response 1648414

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:09:56 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(3) Ethylene

0.75min 1.642ppmv m

response 1680636

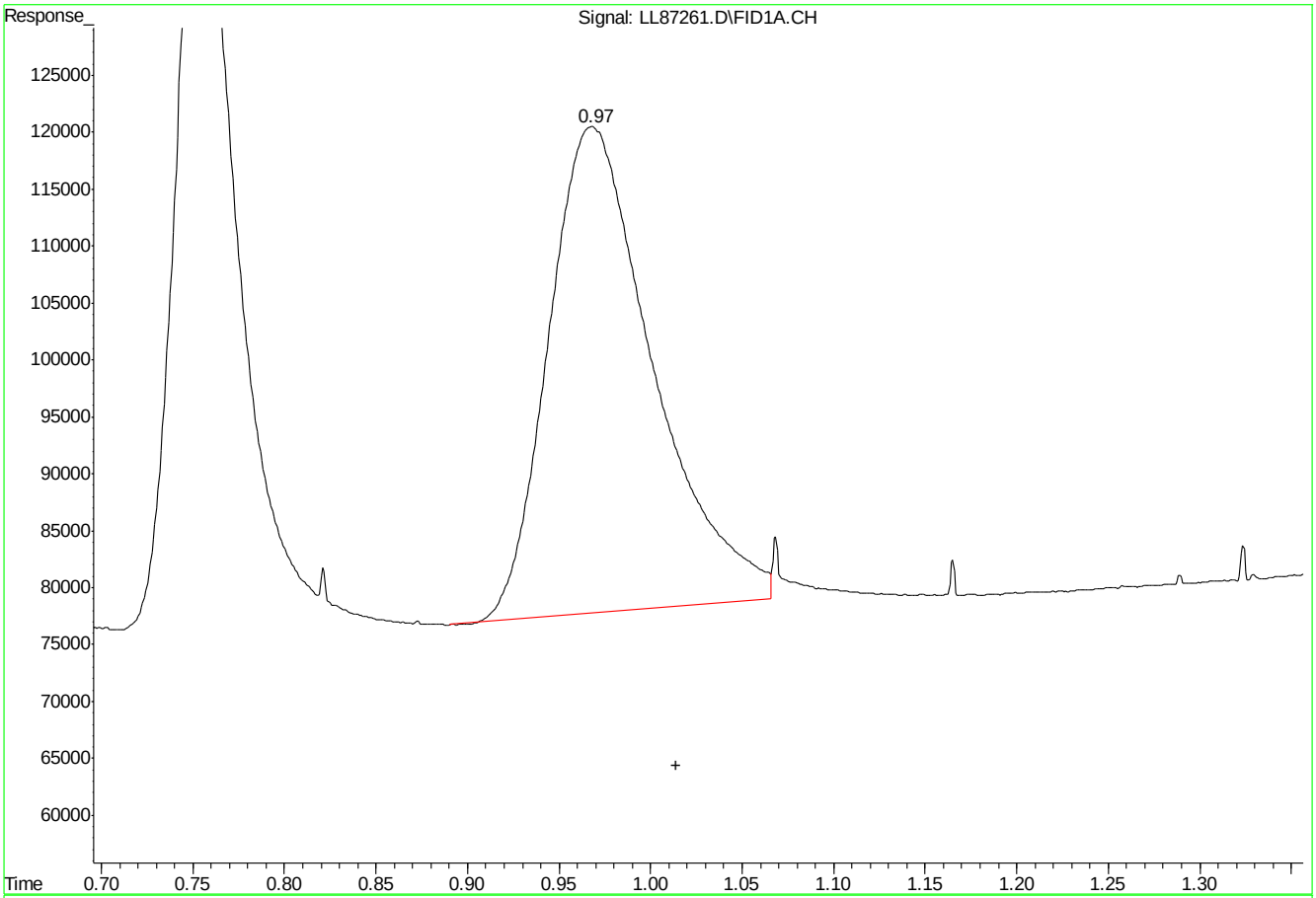
(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:04 2024

LL87261.D edits: Ethylene

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(4) Ethane

0.97min 1.604ppmv

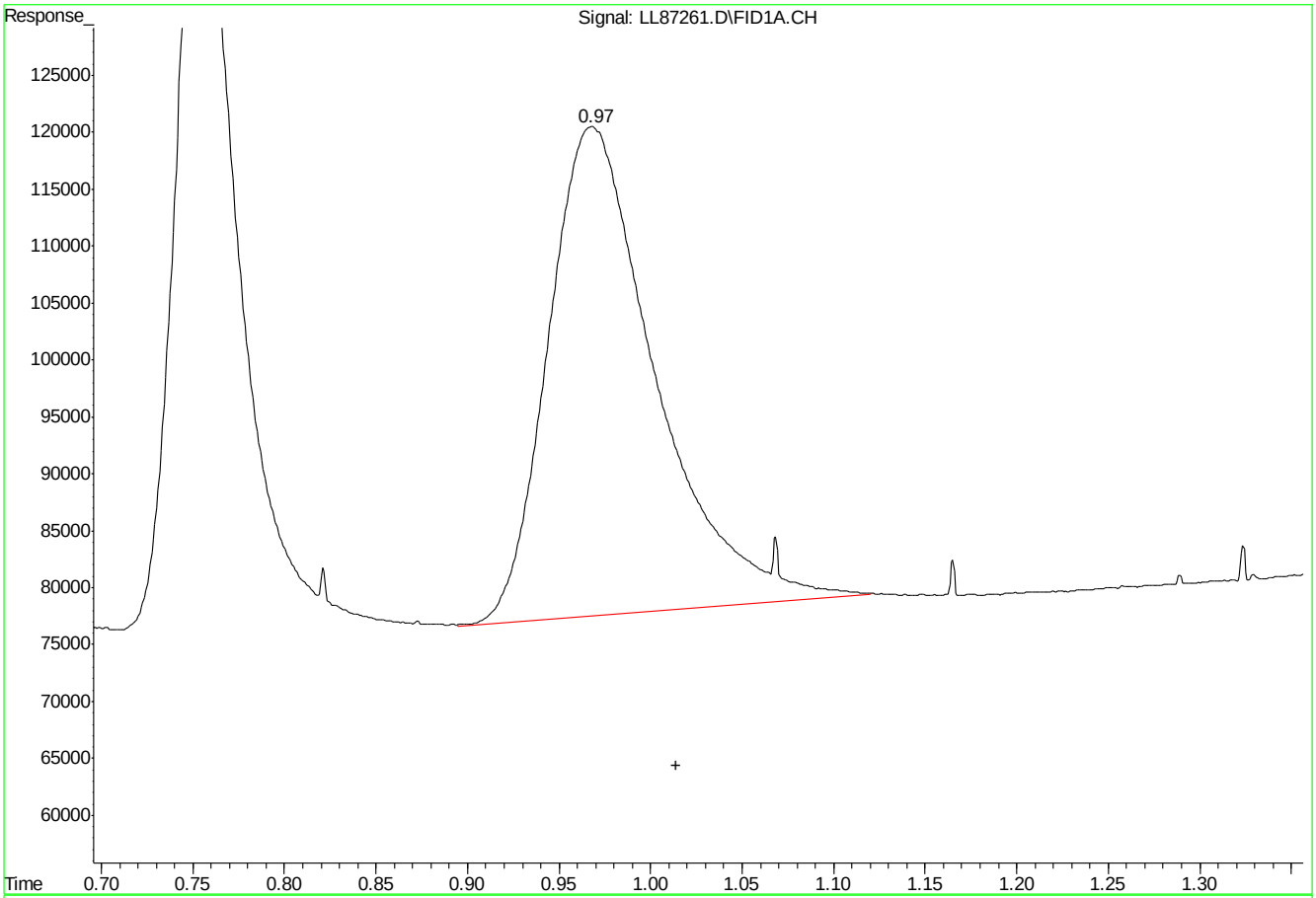
response 1687857

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:11 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(4) Ethane

0.97min 1.669ppmv m

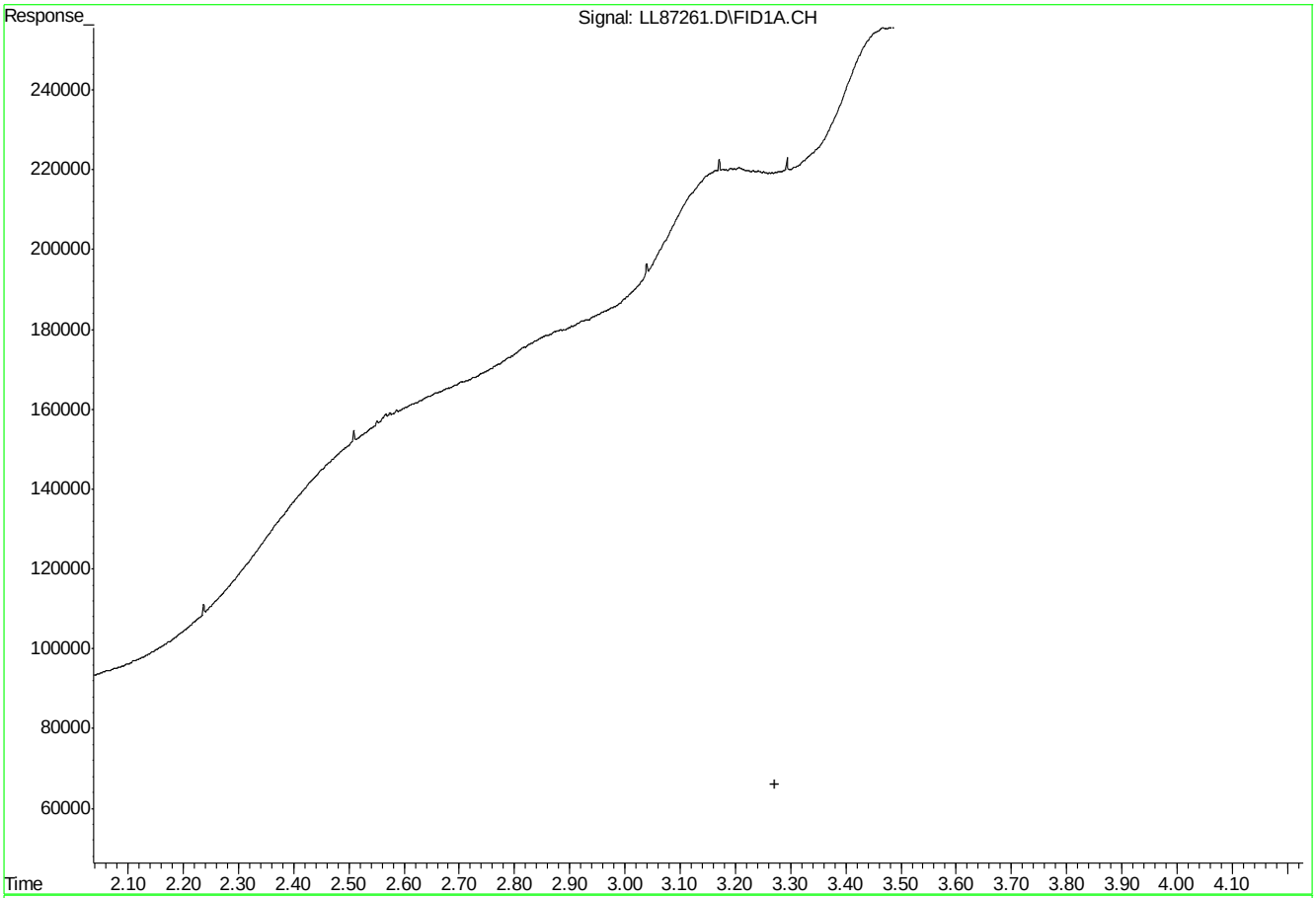
response 1755778

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(5) Propane

3.27min 0.000ppmv

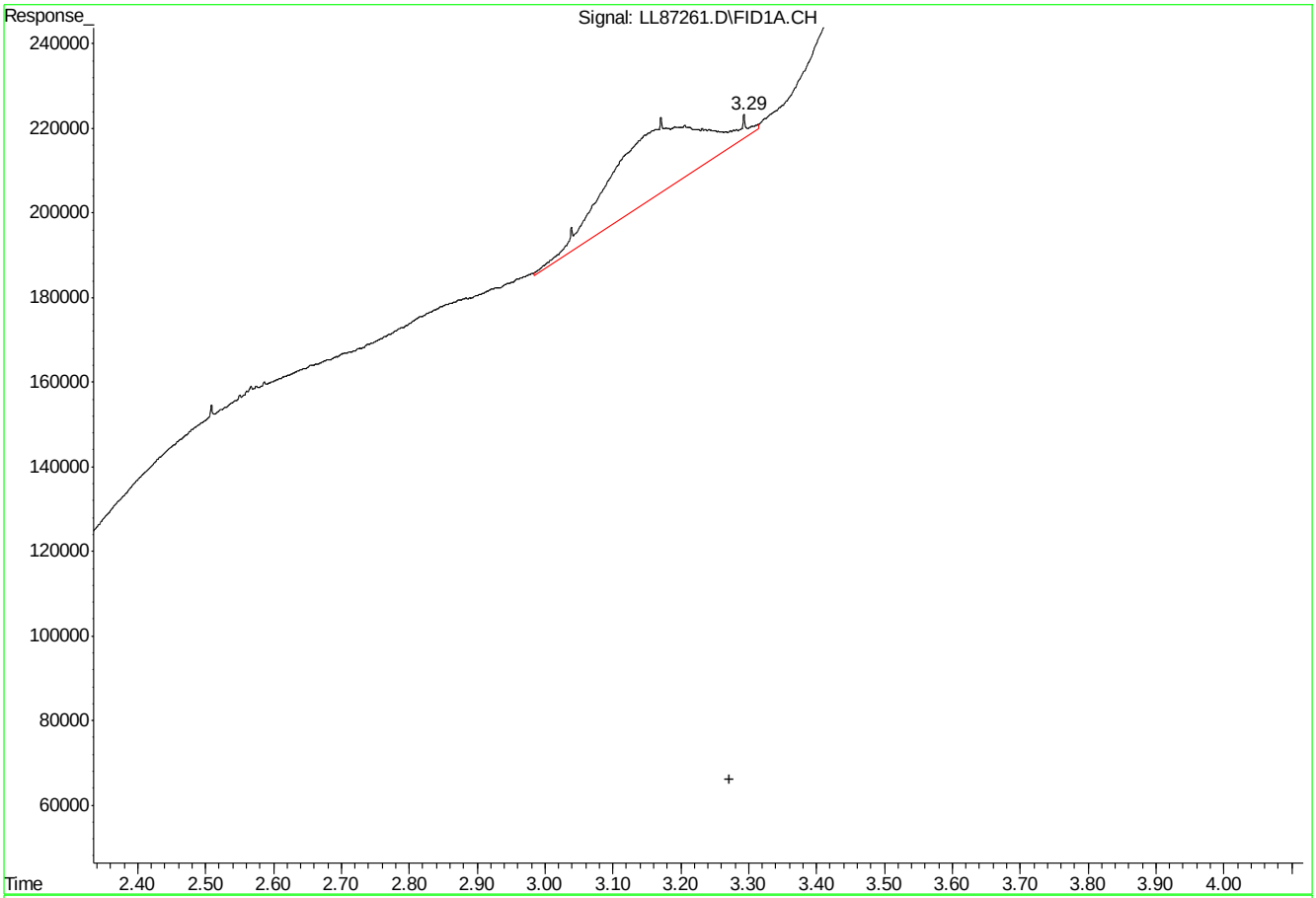
response 0

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:24 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87261.D Vial: 3
Acq On : 10 Jan 2024 12:04 pm Operator: jennr
Sample : ic3025-1 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:09 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:02:02 2024
Response via : Multiple Level Calibration



(5) Propane

3.29min 1.038ppmv m

response 1588808

(+) = Expected Retention Time
LL87261.D RSK01102024.M Wed Jan 10 12:10:41 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17:37 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	9018652	13.362	ppmv	m
2)	Acetylene	0.59	21036786	16.821	ppmv	
3)	Ethylene	0.76	18440889	17.257	ppmv	
4)	Ethane	0.97	18801261	17.232	ppmv	
5)	Propane	3.14	19171082	13.218	ppmv	m

9.6.2
9

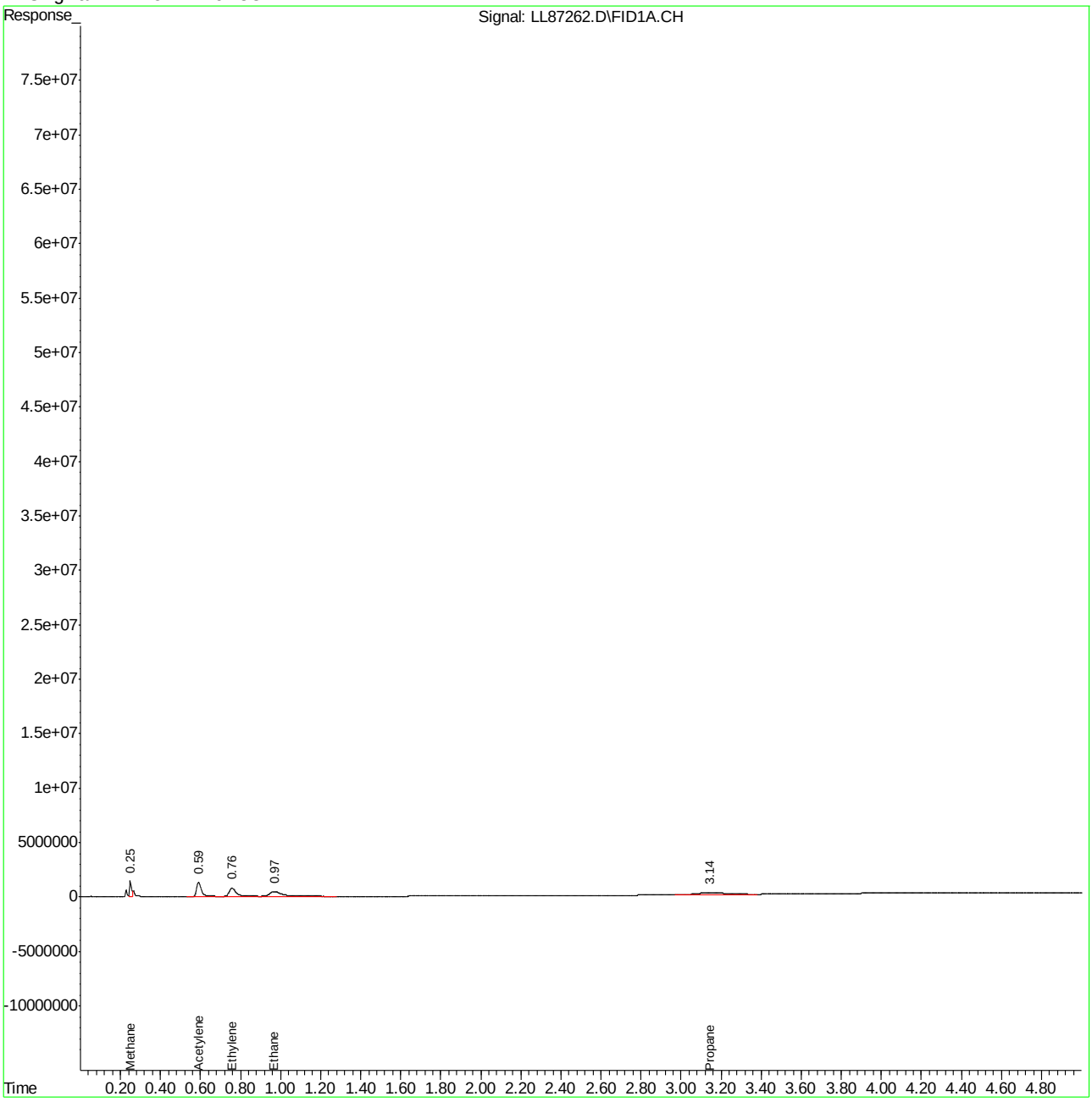
(f)=RT Delta > 1/2 Window (m)=manual int.

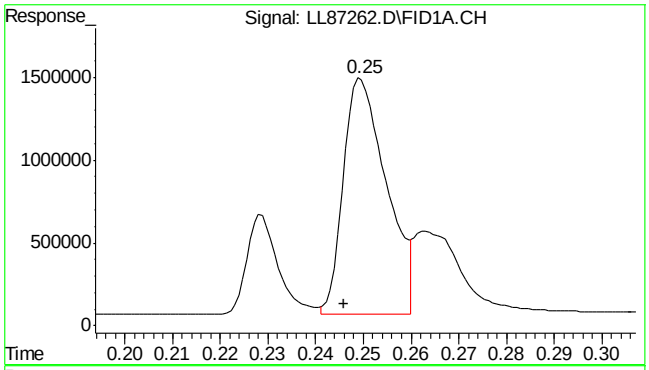
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:18 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

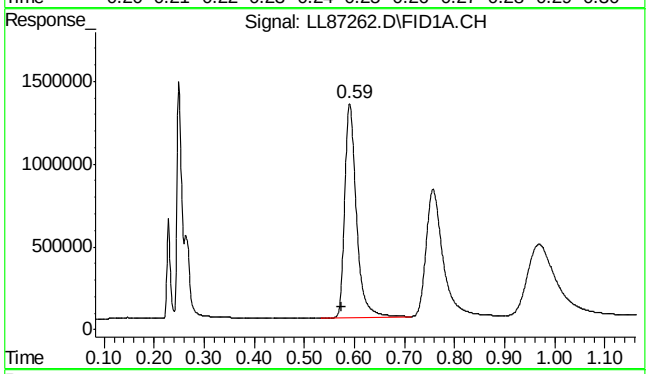
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





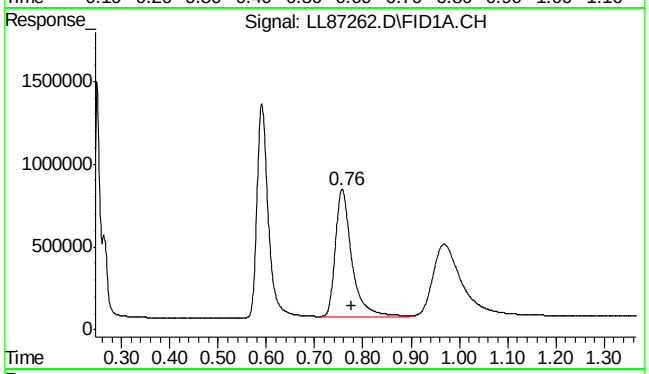
#1 Methane

R.T.: 0.249 min
Delta R.T.: 0.003 min
Response: 9018652
Conc: 13.36 ppmv m



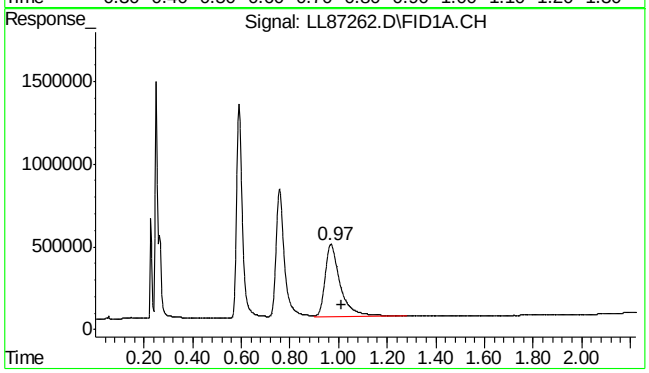
#2 Acetylene

R.T.: 0.591 min
Delta R.T.: 0.016 min
Response: 21036786
Conc: 16.82 ppmv



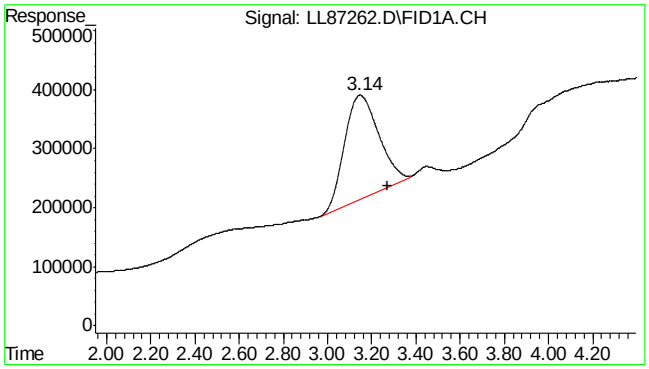
#3 Ethylene

R.T.: 0.757 min
Delta R.T.: -0.019 min
Response: 18440889
Conc: 17.26 ppmv



#4 Ethane

R.T.: 0.969 min
Delta R.T.: -0.045 min
Response: 18801261
Conc: 17.23 ppmv



#5 Propane

R.T.:	3.145 min
Delta R.T.:	-0.126 min
Response:	19171082
Conc:	13.22 ppmv m

Manual Integration Approval Summary

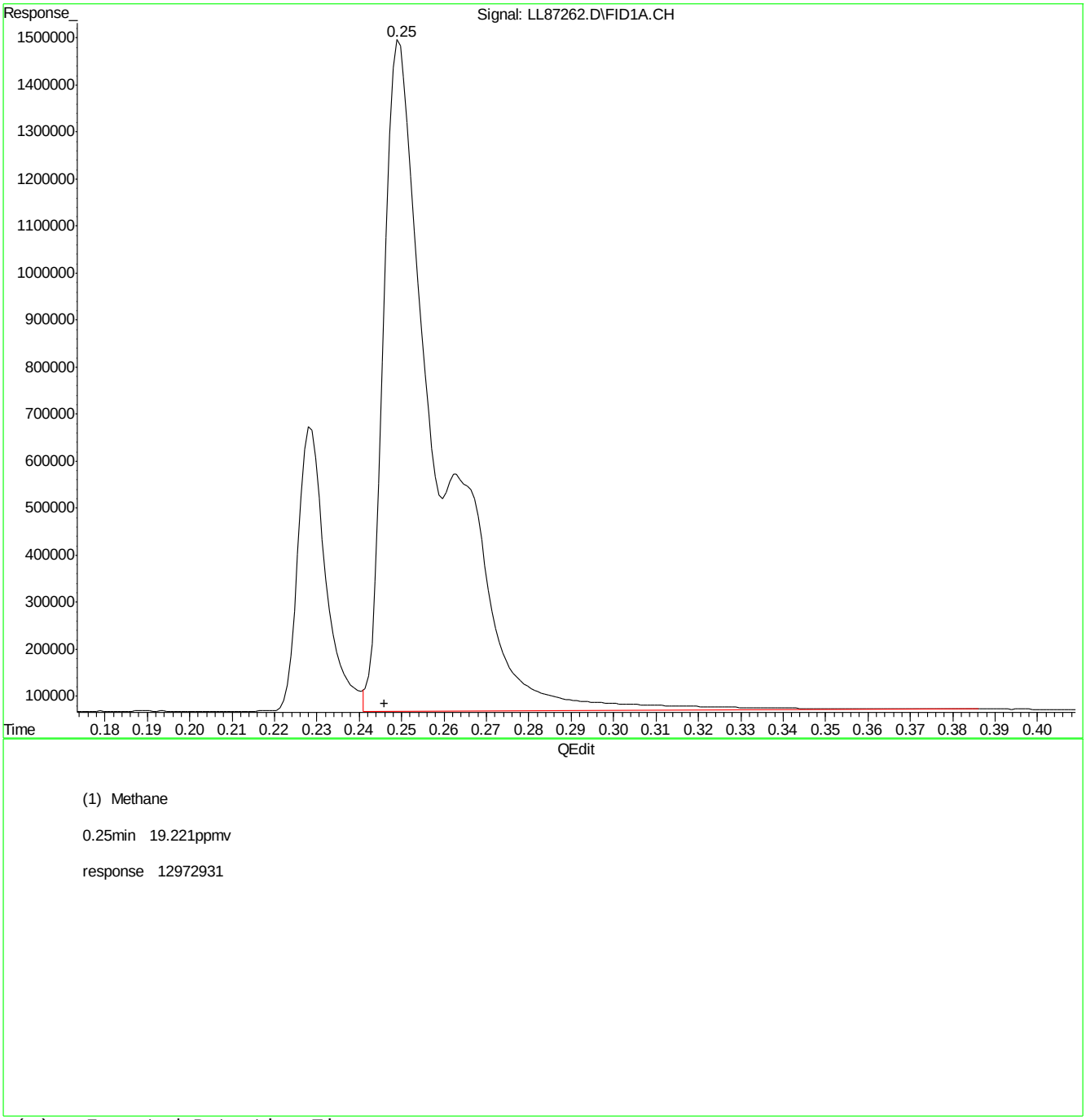
Sample Number: GLL3025-IC3025
Lab FileID: LL87262.D
Injection Time: 01/10/24 12:12
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration

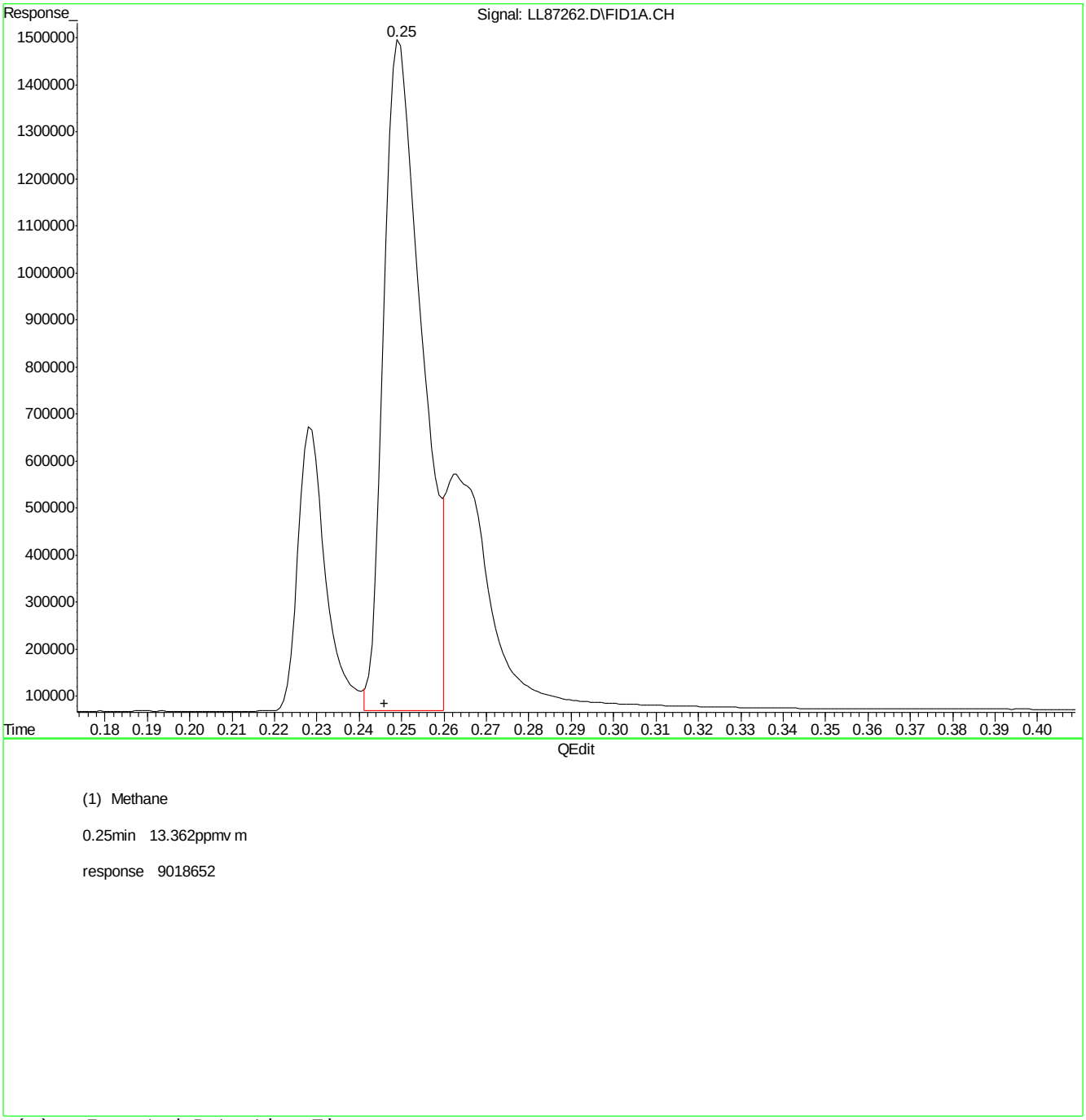


(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:17:50 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration

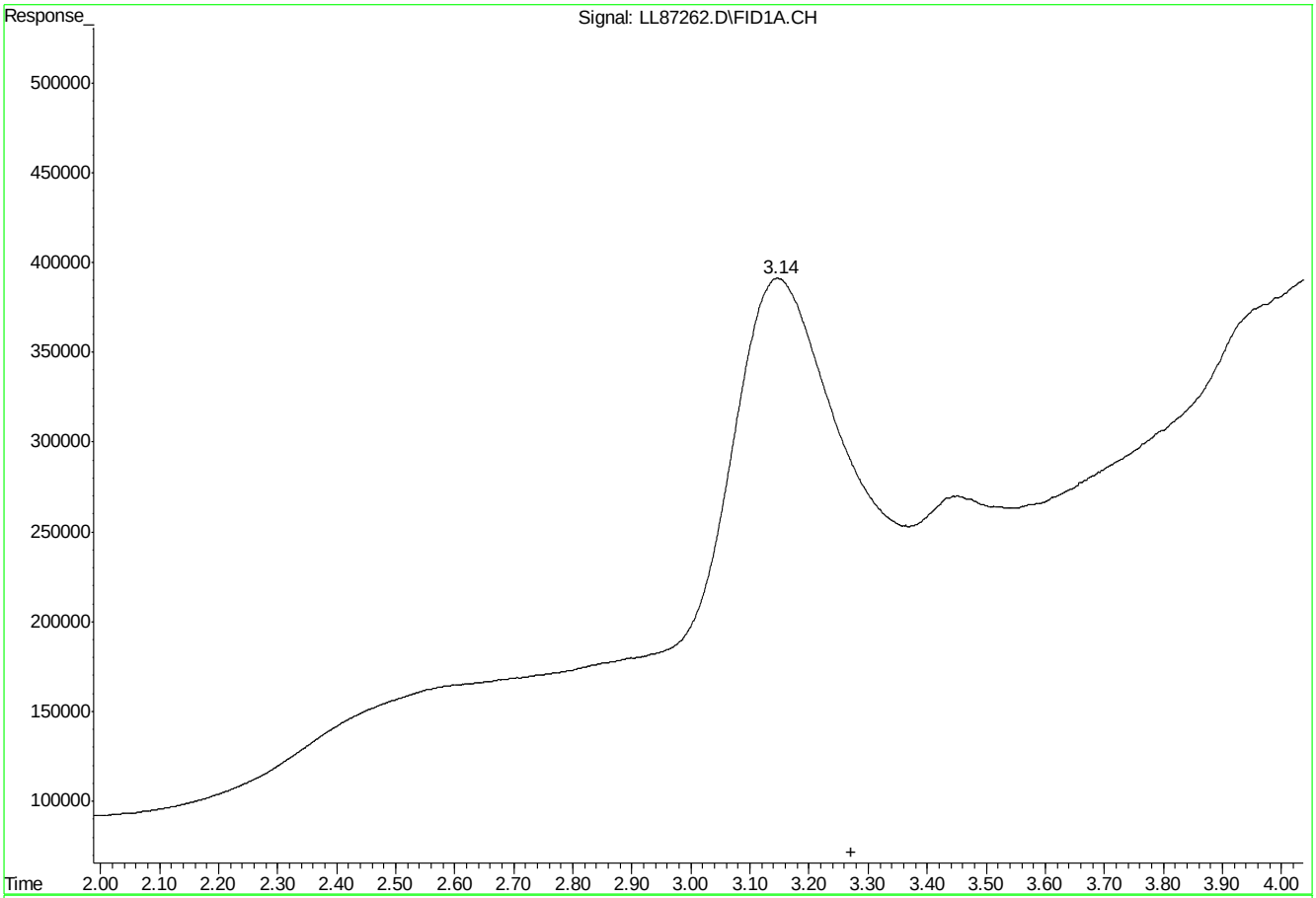


(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:08 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(5) Propane

3.15min 10.921ppmv

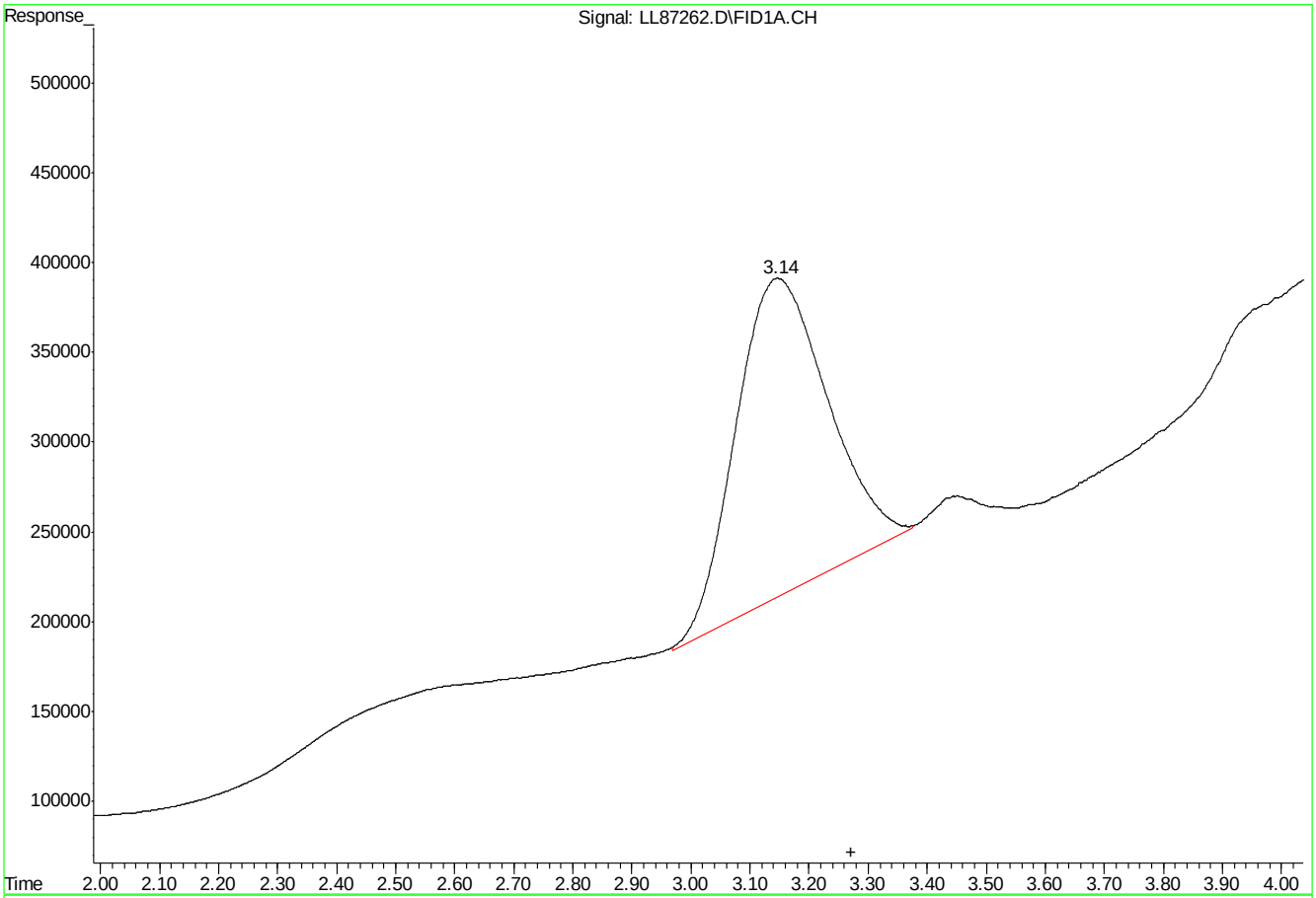
response 15839777

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:21 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87262.D Vial: 4
Acq On : 10 Jan 2024 12:12 pm Operator: jennr
Sample : ic3025-2 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:17 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:11:04 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 13.218ppmv m

response 19171082

(+) = Expected Retention Time
LL87262.D RSK01102024.M Wed Jan 10 12:18:30 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27:29 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	65183960	100.342	ppmv	m
2)	Acetylene	0.59	151262790	117.506	ppmv	
3)	Ethylene	0.75	111349981	101.004	ppmv	
4)	Ethane	0.97	116602597	103.601	ppmv	
5)	Propane	3.14	146680091	109.820	ppmv	m

9.6.3
9

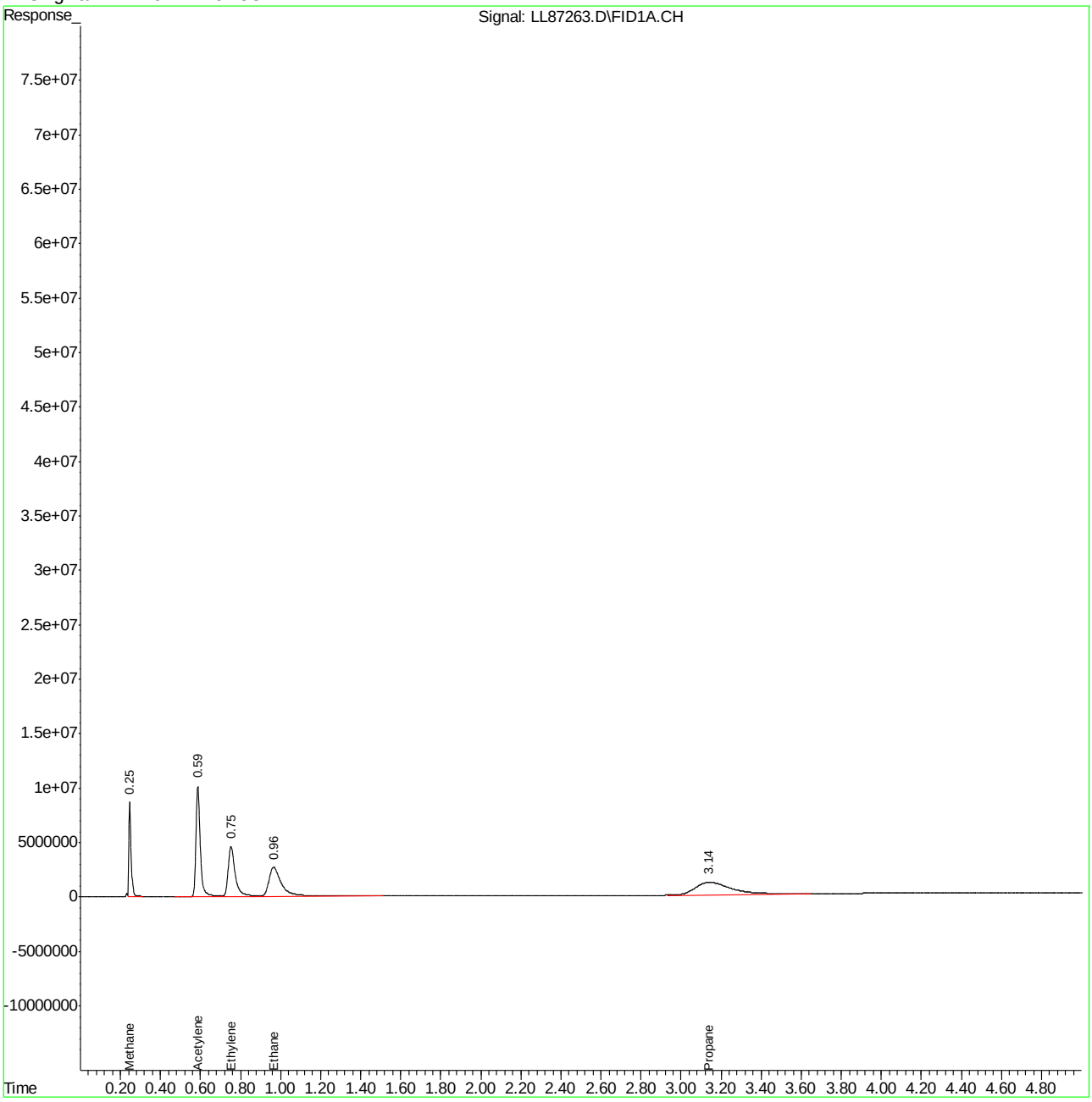
(f)=RT Delta > 1/2 Window (m)=manual int.

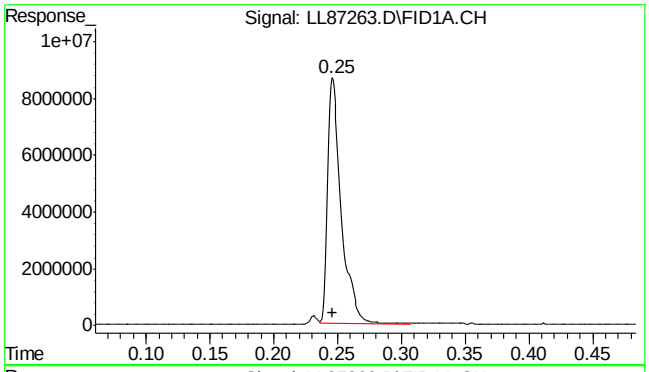
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:28 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

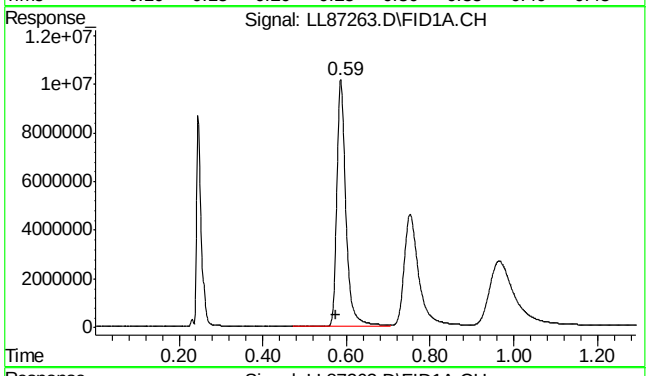
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





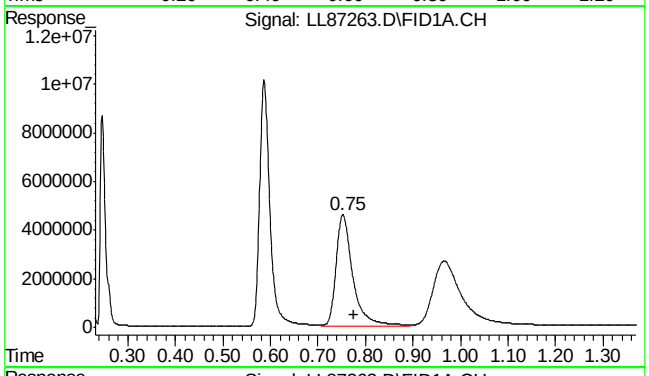
#1 Methane

R.T.: 0.246 min
Delta R.T.: 0.000 min
Response: 65183960
Conc: 100.34 ppmv m



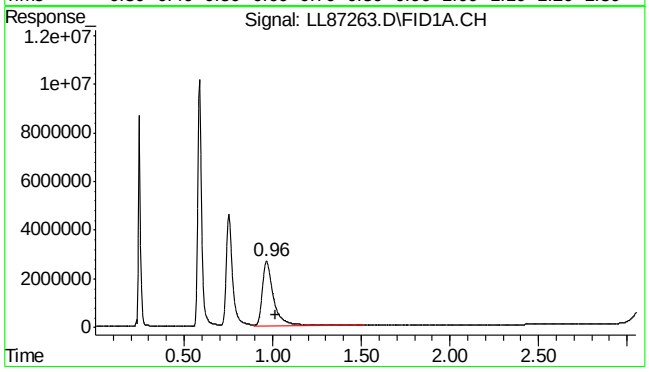
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 151262790
Conc: 117.51 ppmv



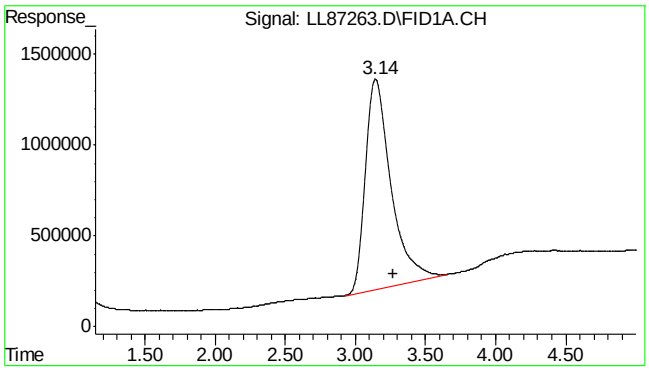
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 111349981
Conc: 101.00 ppmv



#4 Ethane

R.T.: 0.966 min
Delta R.T.: -0.048 min
Response: 116602597
Conc: 103.60 ppmv



#5 Propane

R.T.: 3.140 min
Delta R.T.: -0.131 min
Response: 146680091
Conc: 109.82 ppmv m

Manual Integration Approval Summary

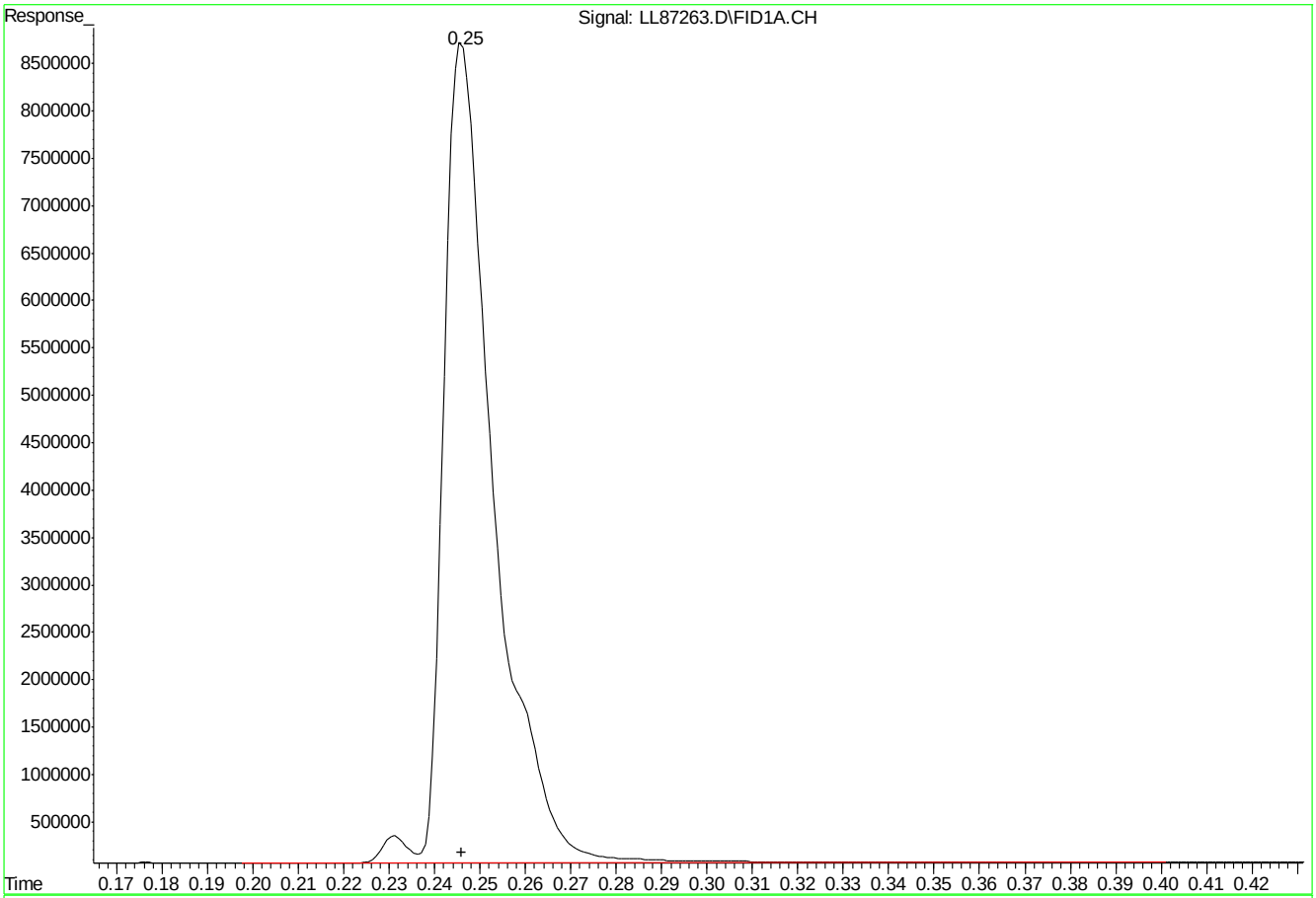
Sample Number: GLL3025-IC3025
Lab FileID: LL87263.D
Injection Time: 01/10/24 12:21
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 102.411ppmv

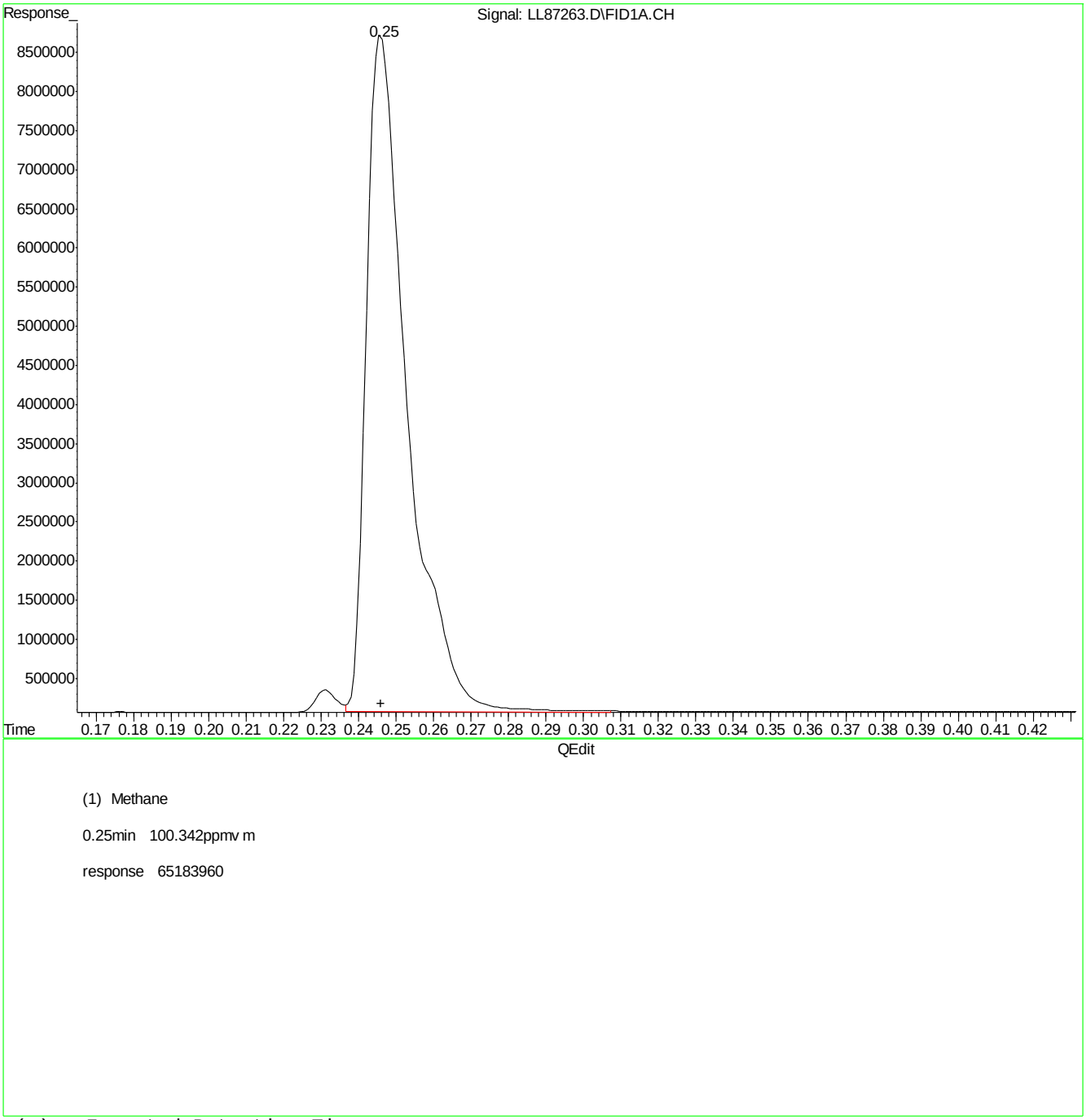
response 66527880

(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:27:55 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration

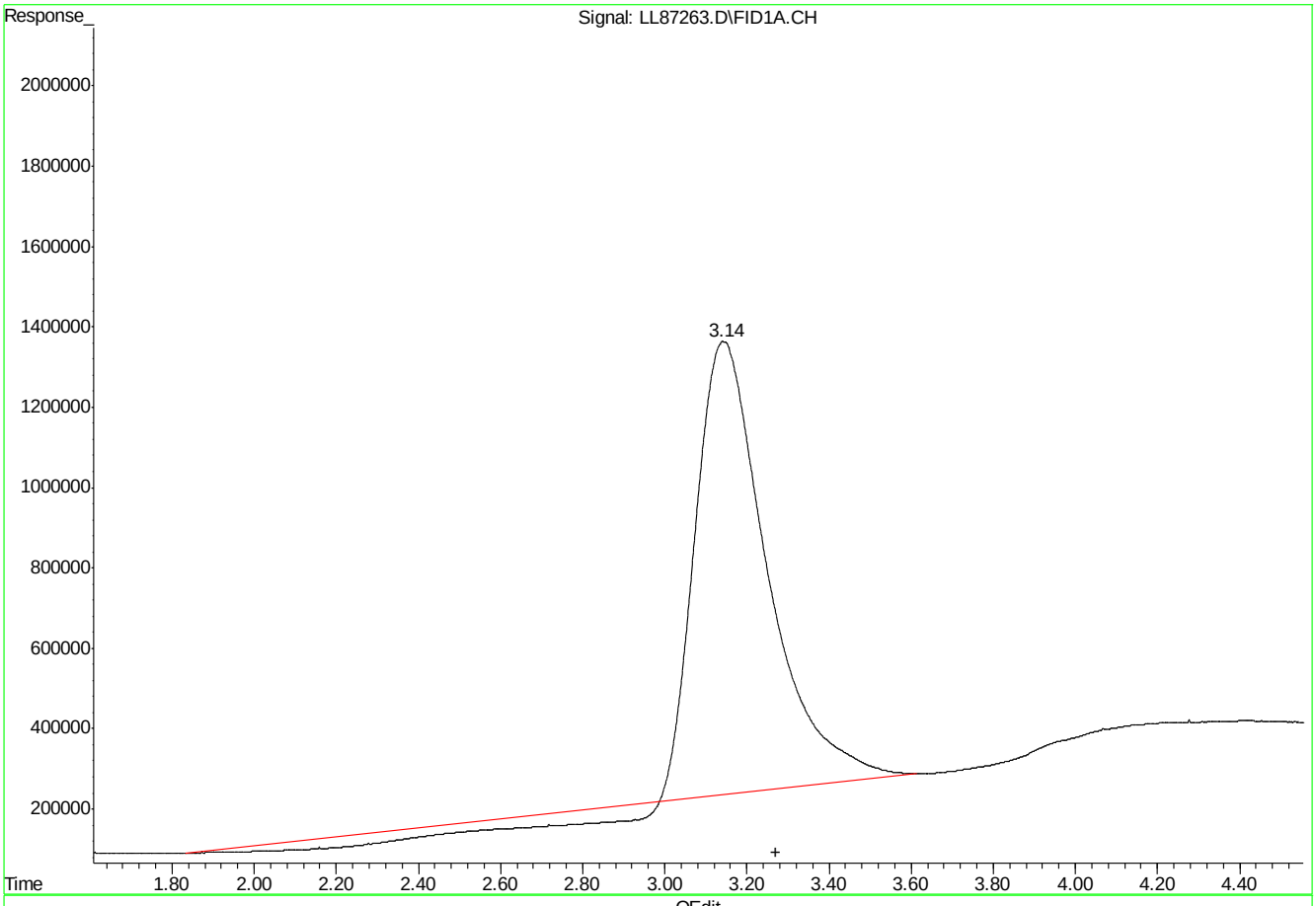


(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:11 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 90.784ppmv

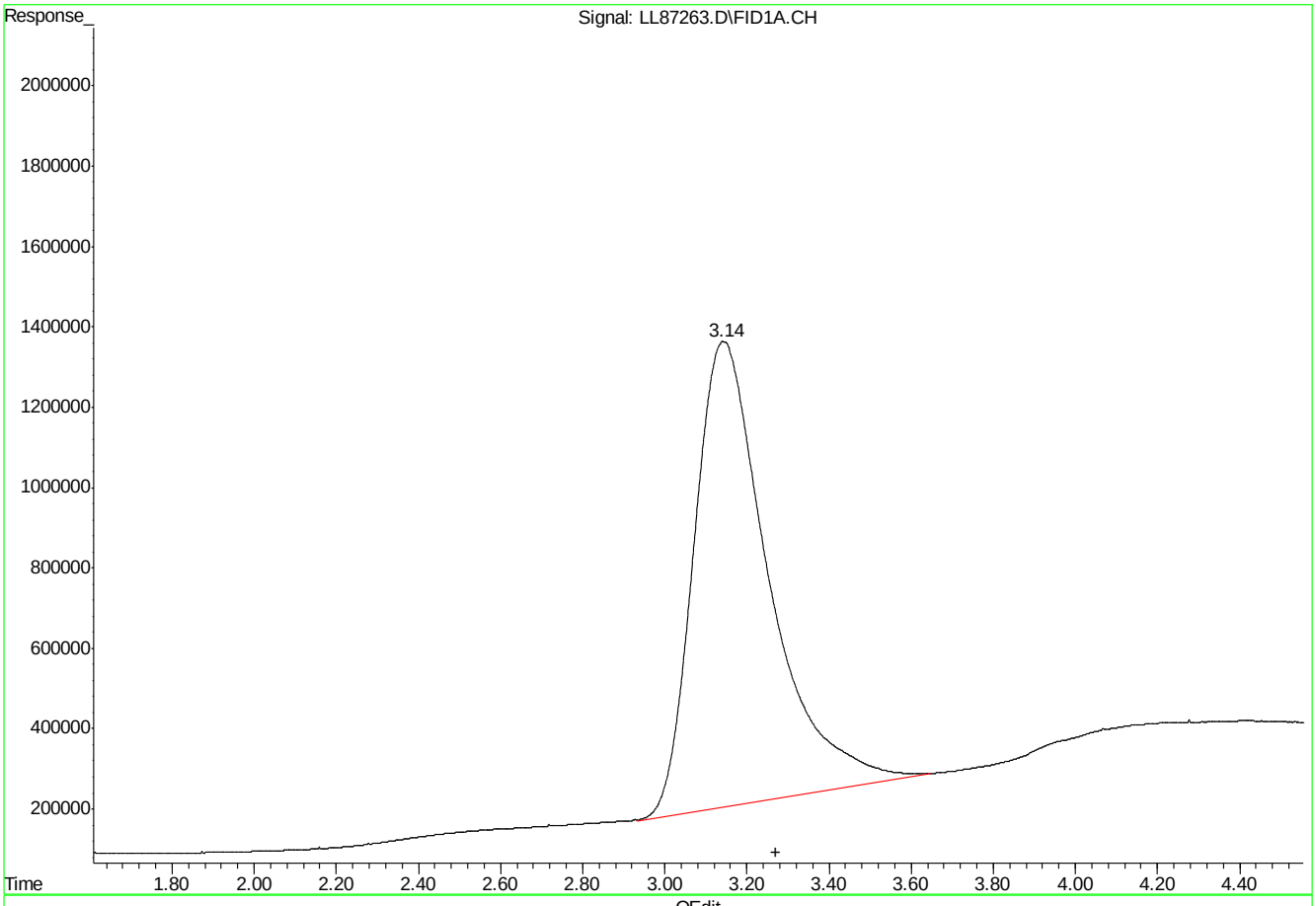
response 121254462

(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:19 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87263.D Vial: 5
Acq On : 10 Jan 2024 12:21 pm Operator: jennr
Sample : ic3025-3 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:27 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:18:42 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 109.820ppmv m

response 146680091

(+) = Expected Retention Time
LL87263.D RSK01102024.M Wed Jan 10 12:28:25 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36:13 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	341393400	516.315	ppmv	m
2)	Acetylene	0.59	818451880	604.883	ppmv	
3)	Ethylene	0.75	592803687	528.063	ppmv	
4)	Ethane	0.96	630023313	546.737	ppmv	
5)	Propane	3.14	826078445	601.353	ppmv	m

9.6.4

9

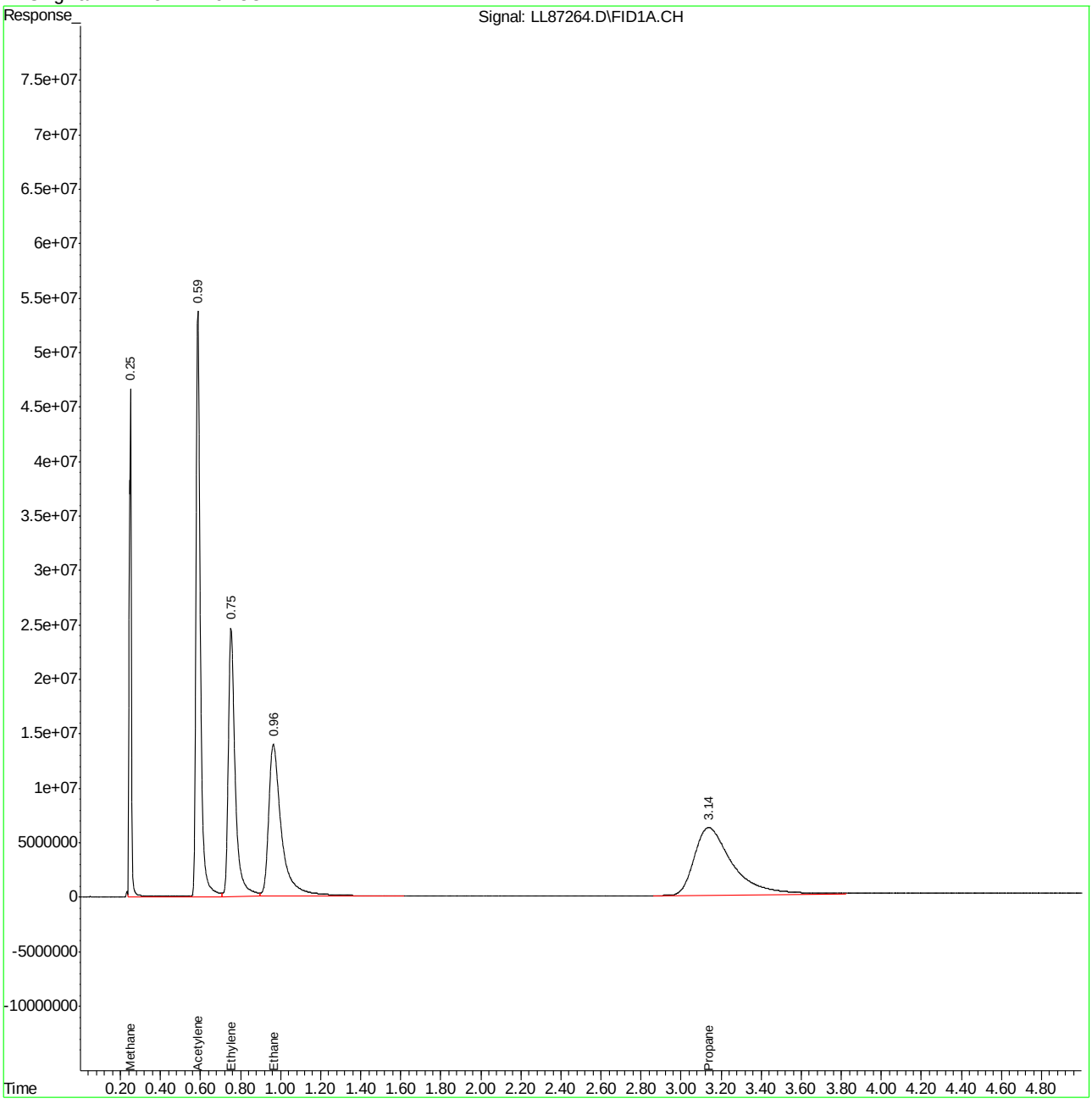
(f)=RT Delta > 1/2 Window (m)=manual int.

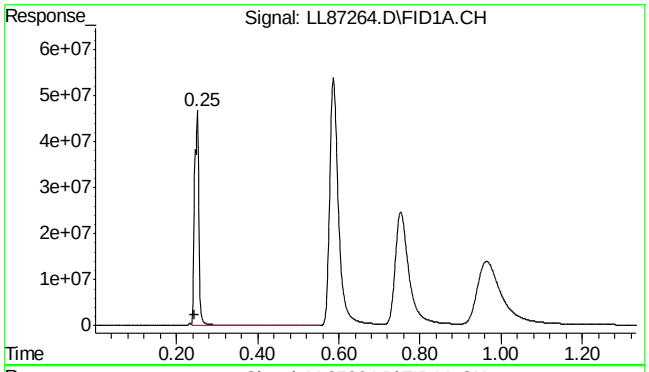
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:46 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

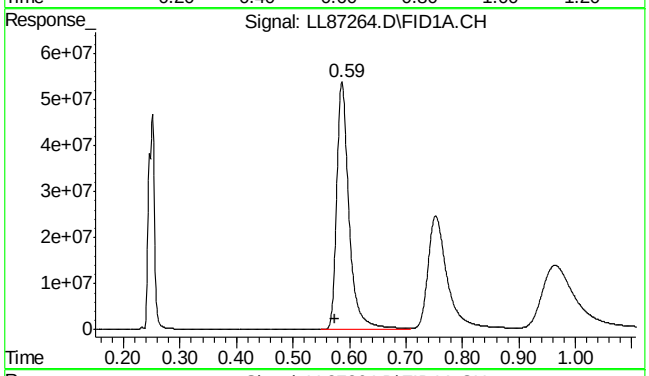
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





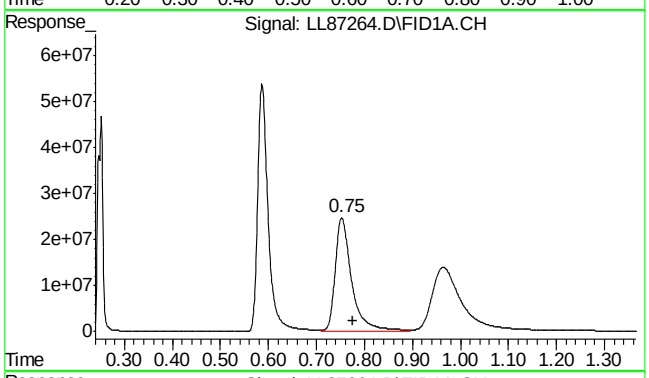
#1 Methane

R.T.: 0.251 min
Delta R.T.: 0.005 min
Response: 341393400
Conc: 516.32 ppmv m



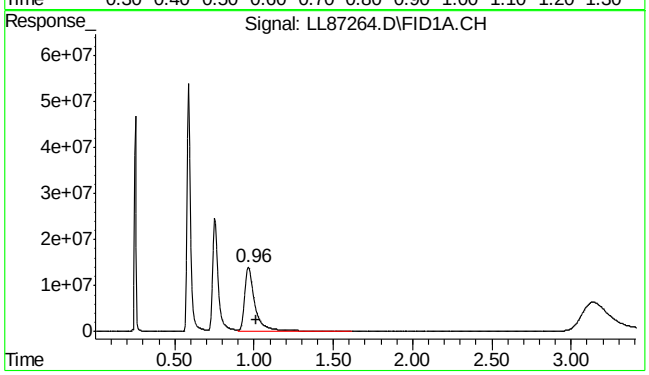
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 818451880
Conc: 604.88 ppmv



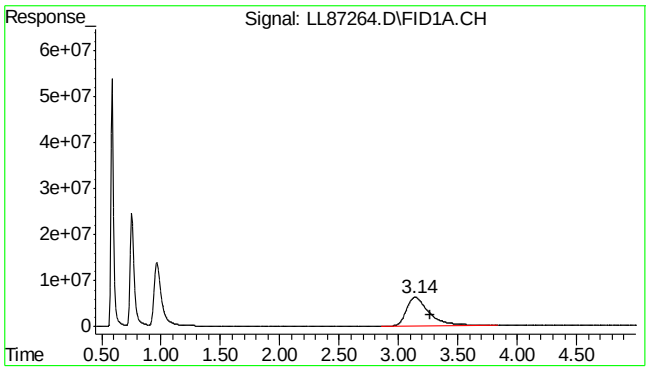
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 592803687
Conc: 528.06 ppmv



#4 Ethane

R.T.: 0.964 min
Delta R.T.: -0.050 min
Response: 630023313
Conc: 546.74 ppmv



#5 Propane

R.T.: 3.136 min
Delta R.T.: -0.135 min
Response: 826078445
Conc: 601.35 ppmv m

Manual Integration Approval Summary

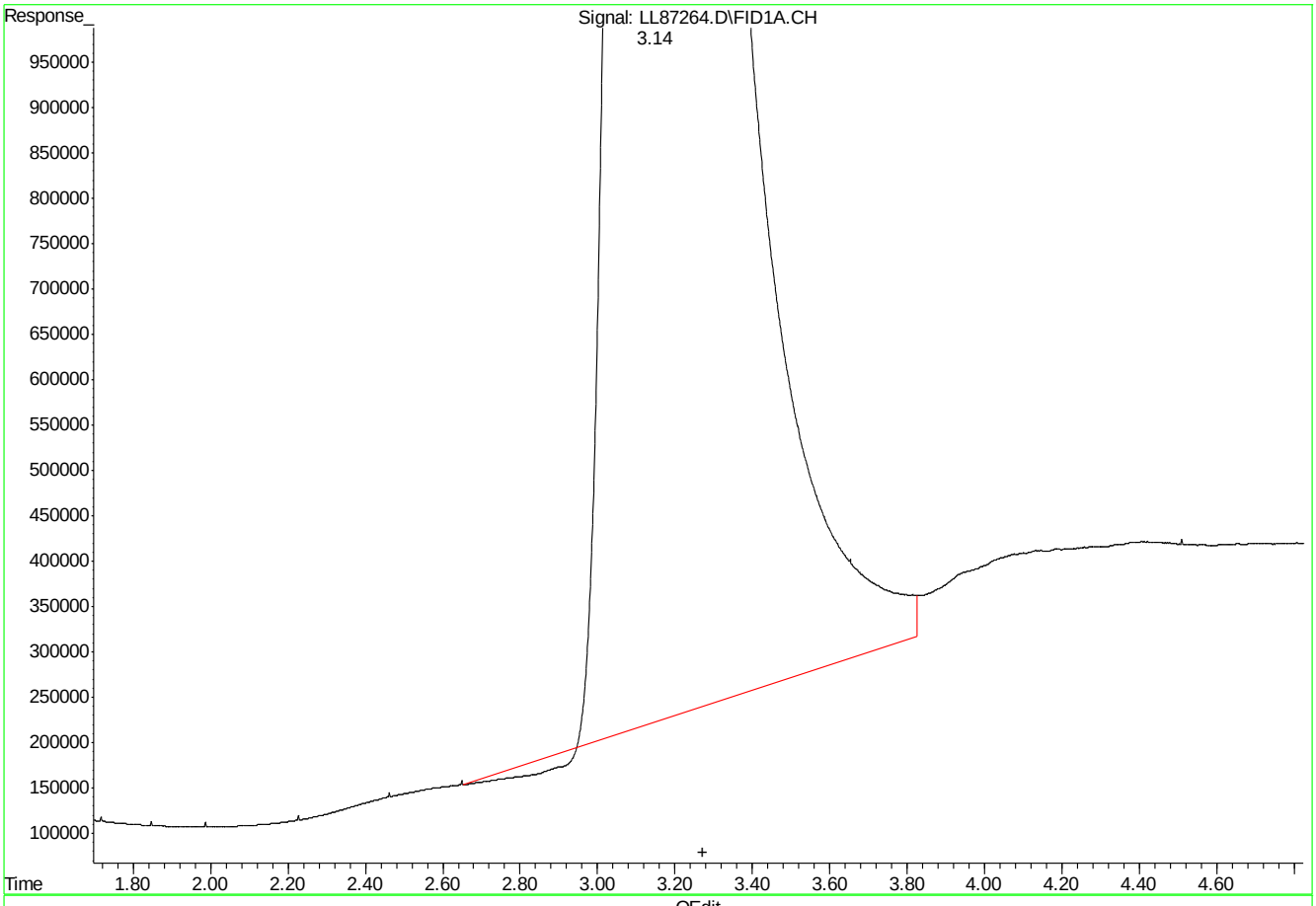
Sample Number: GLL3025-IC3025
Lab FileID: LL87264.D
Injection Time: 01/10/24 12:30
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Poor instrument integration
Propane	74-98-6	1	3.14	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 594.949ppmv

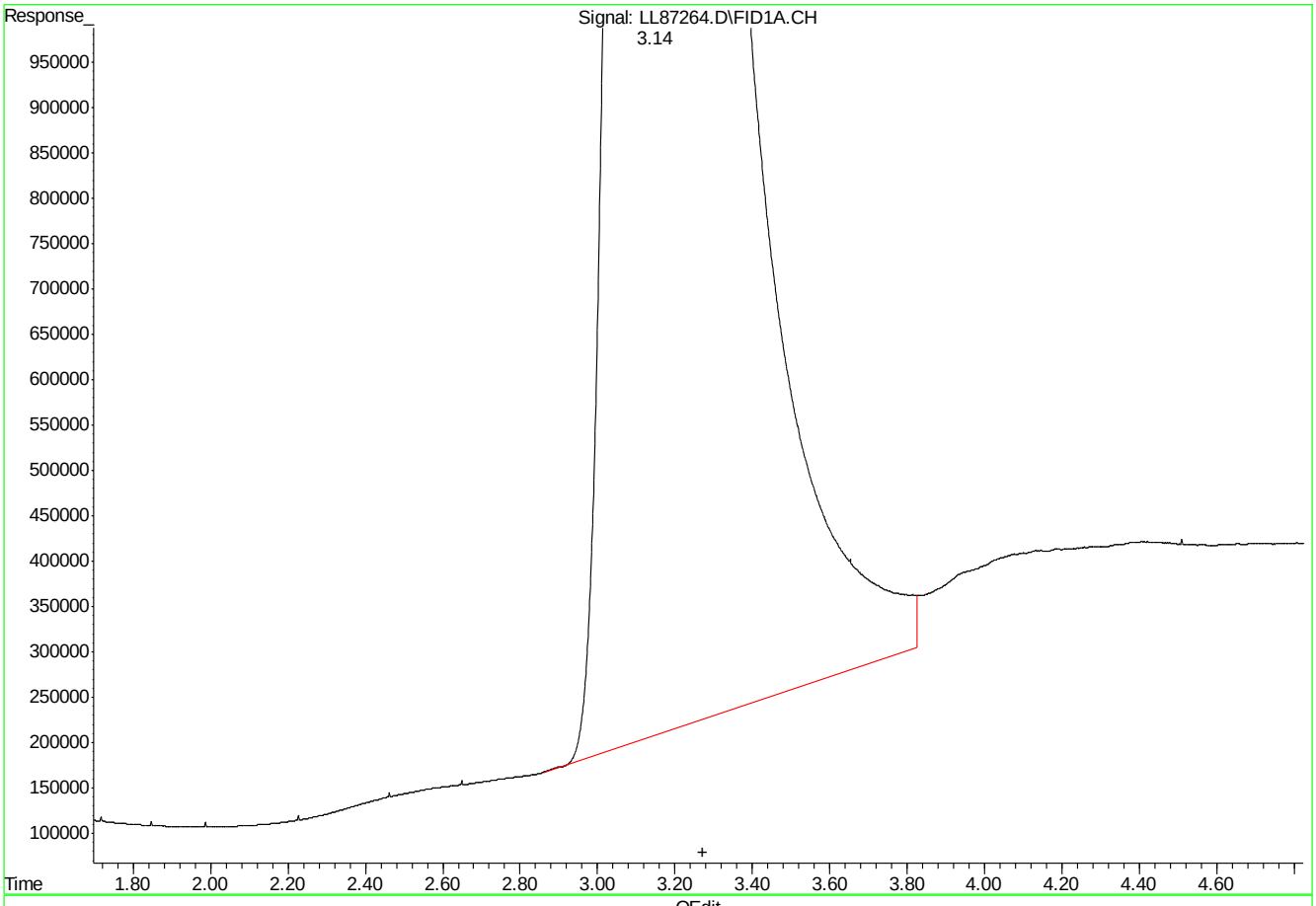
response 817281281

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:36:44 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.14min 601.353ppmv m

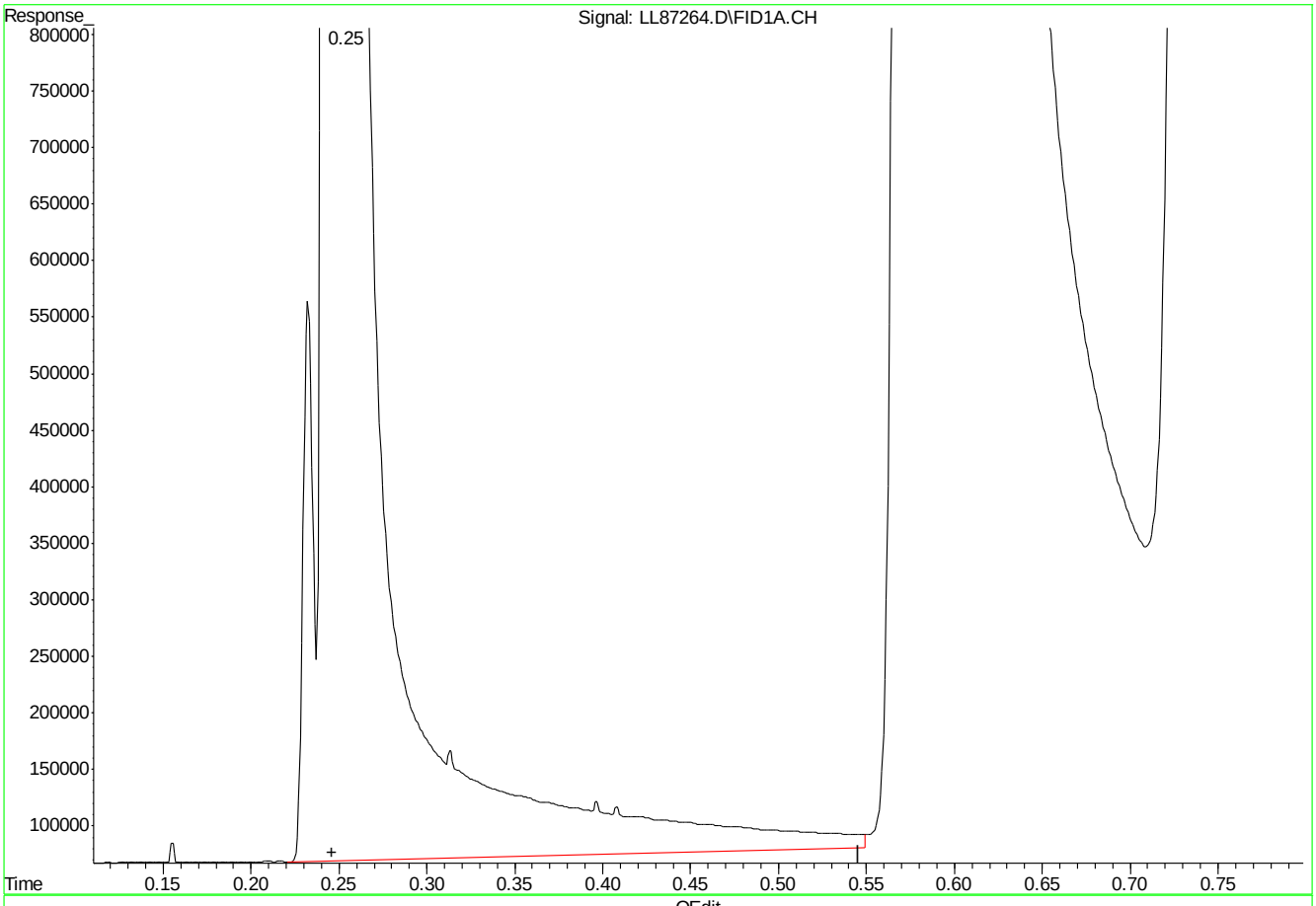
response 826078445

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:36:53 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:28:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 519.483ppmv

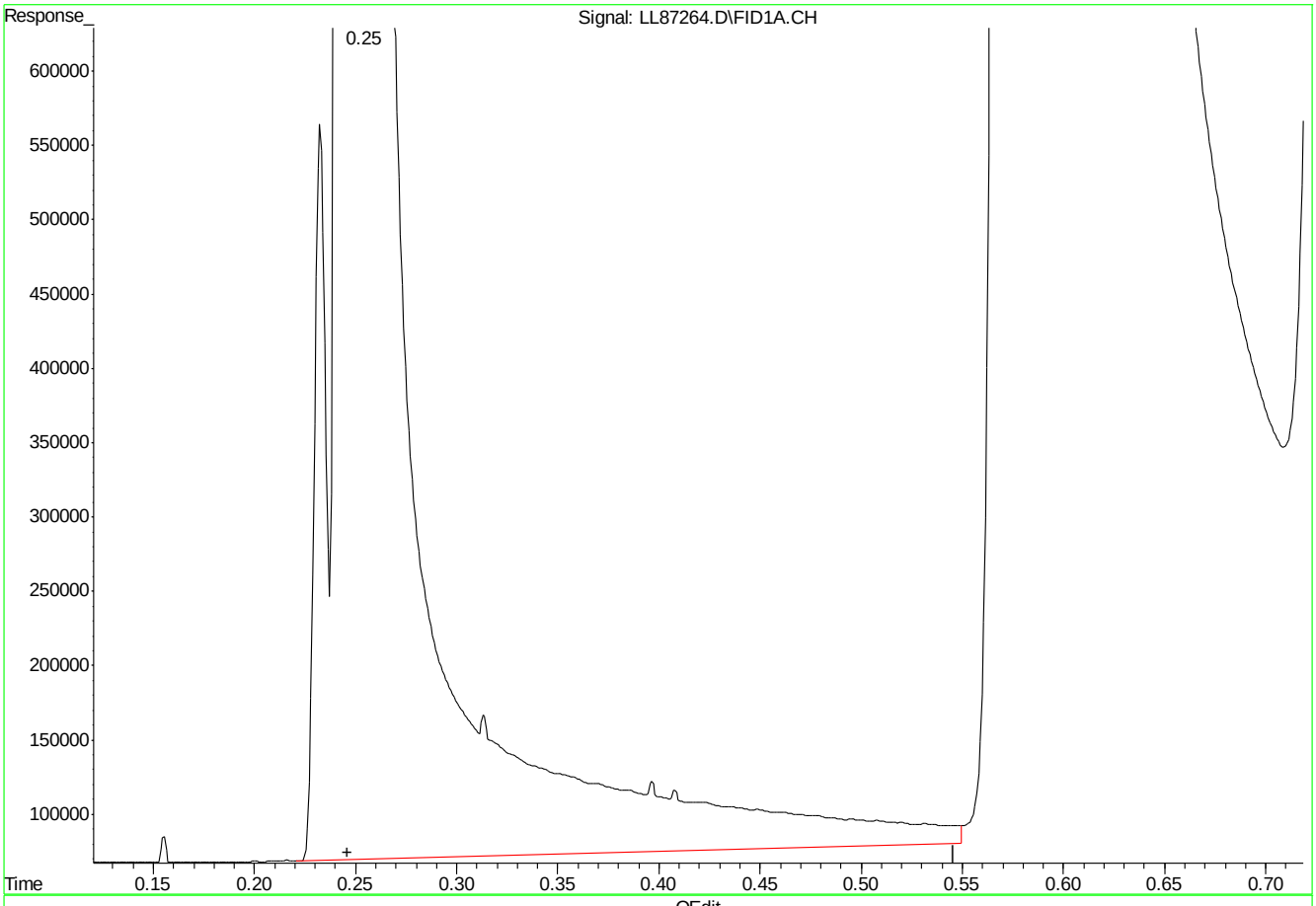
response 343488169

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:37:53 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 519.483ppmv

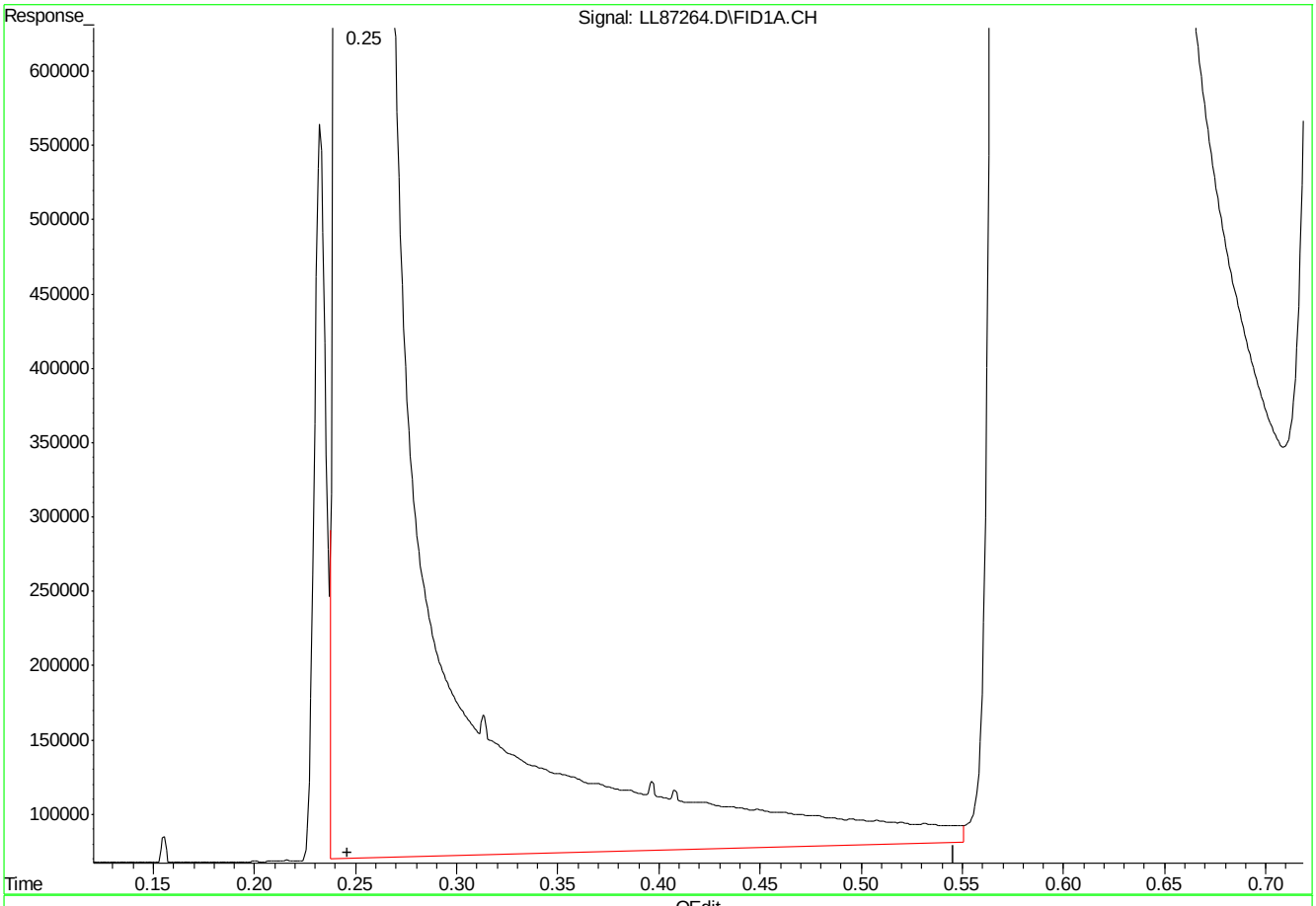
response 343488169

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:45:58 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87264.D Vial: 6
Acq On : 10 Jan 2024 12:30 pm Operator: jennr
Sample : ic3025-4 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:36 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(1) Methane

0.25min 516.315ppmv m

response 341393400

(+) = Expected Retention Time
LL87264.D RSK01102024.M Wed Jan 10 12:46:29 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44:59 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	Methane	0.25	692525218	1033.904	ppmv	
2)	Acetylene	0.59	1670268886	1186.898	ppmv	
3)	Ethylene	0.75	1193037905	1051.951	ppmv	
4)	Ethane	0.96	1252524441	1067.662	ppmv	
5)	Propane	3.13	1666745538	1181.891	ppmv	m

9.6.5

6

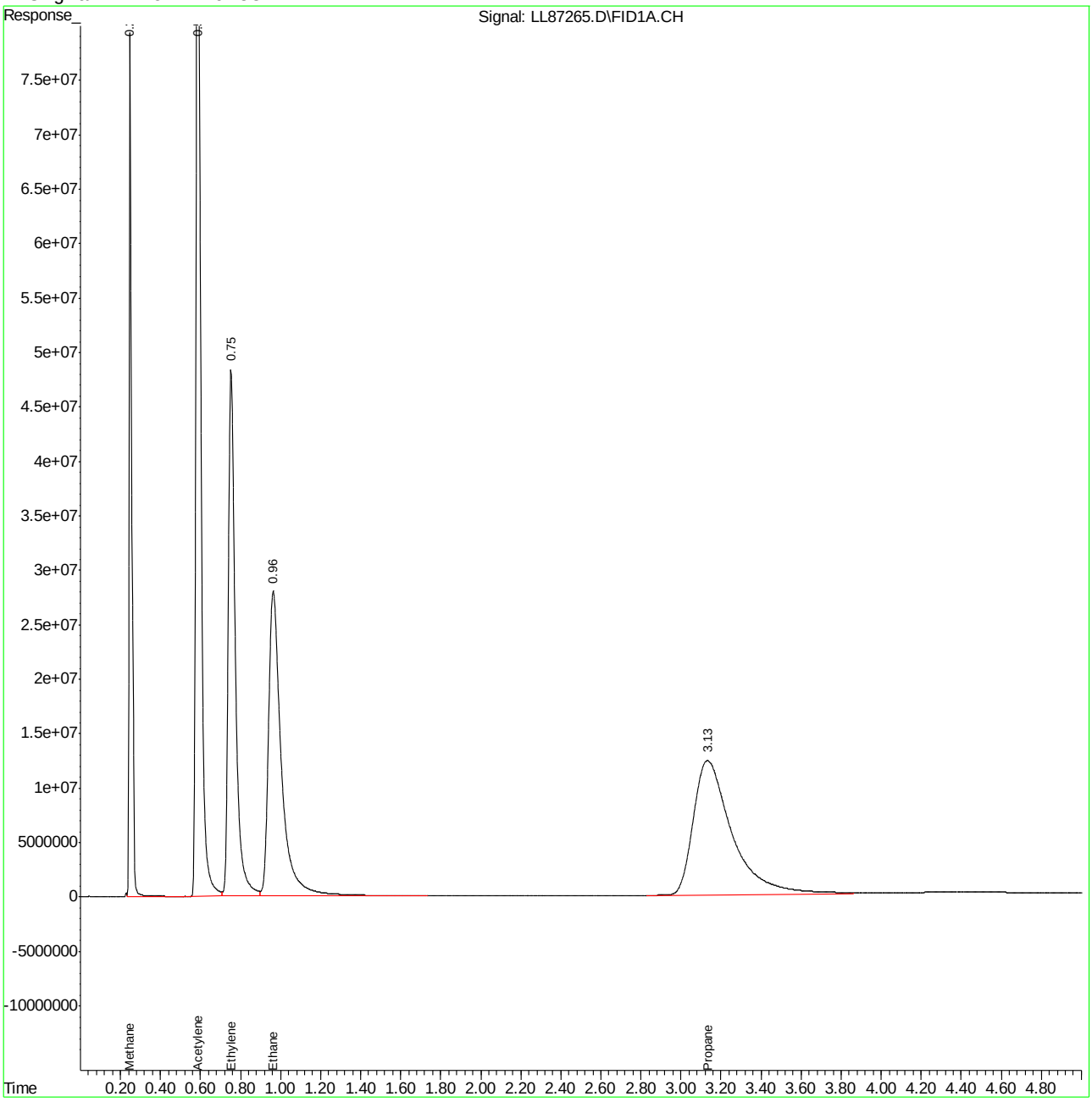
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87265.D RSK01102024.M Thu Jan 11 11:19:07 2024 Page 1

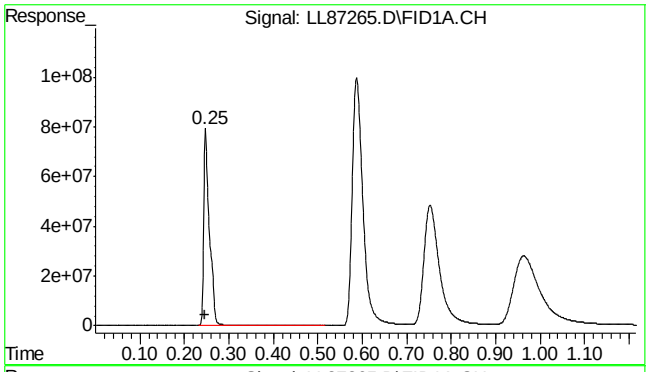
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:45 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

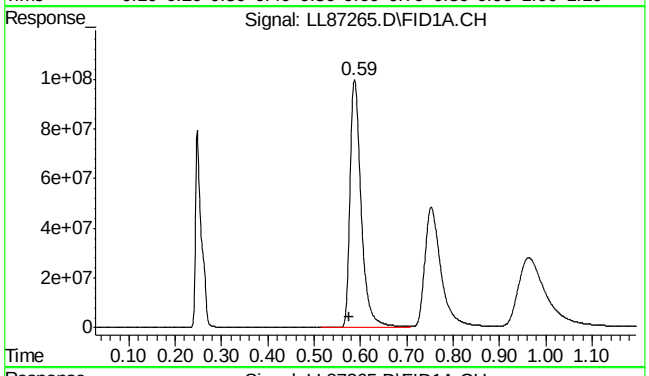
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





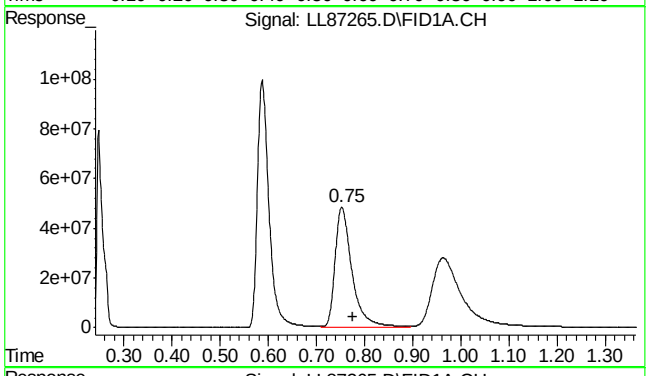
#1 Methane

R.T.: 0.248 min
Delta R.T.: 0.002 min
Response: 692525218
Conc: 1033.90 ppmv



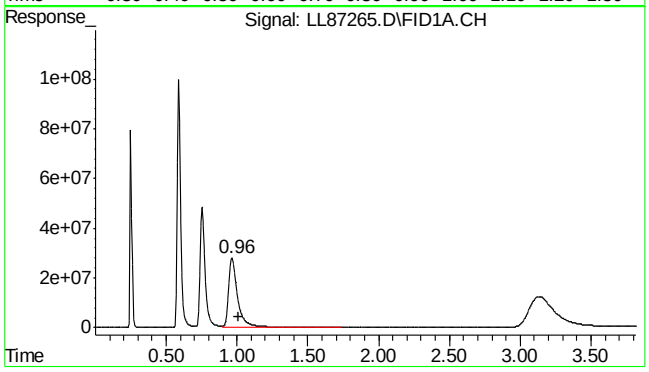
#2 Acetylene

R.T.: 0.587 min
Delta R.T.: 0.012 min
Response: 1670268886
Conc: 1186.90 ppmv



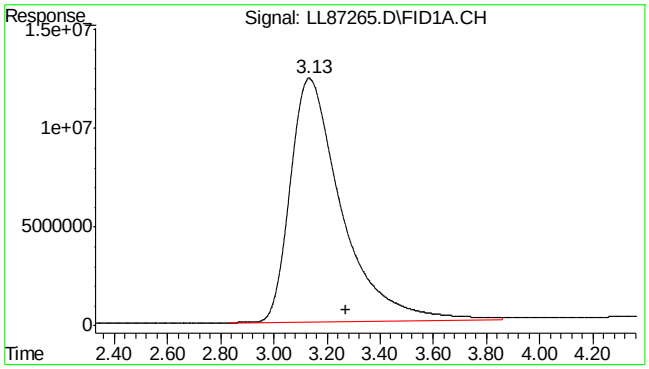
#3 Ethylene

R.T.: 0.753 min
Delta R.T.: -0.023 min
Response: 1193037905
Conc: 1051.95 ppmv



#4 Ethane

R.T.: 0.963 min
Delta R.T.: -0.051 min
Response: 1252524441
Conc: 1067.66 ppmv



#5 Propane

R.T.: 3.133 min
Delta R.T.: -0.138 min
Response: 1666745538
Conc: 1181.89 ppmv m

9.6.5

9

Manual Integration Approval Summary

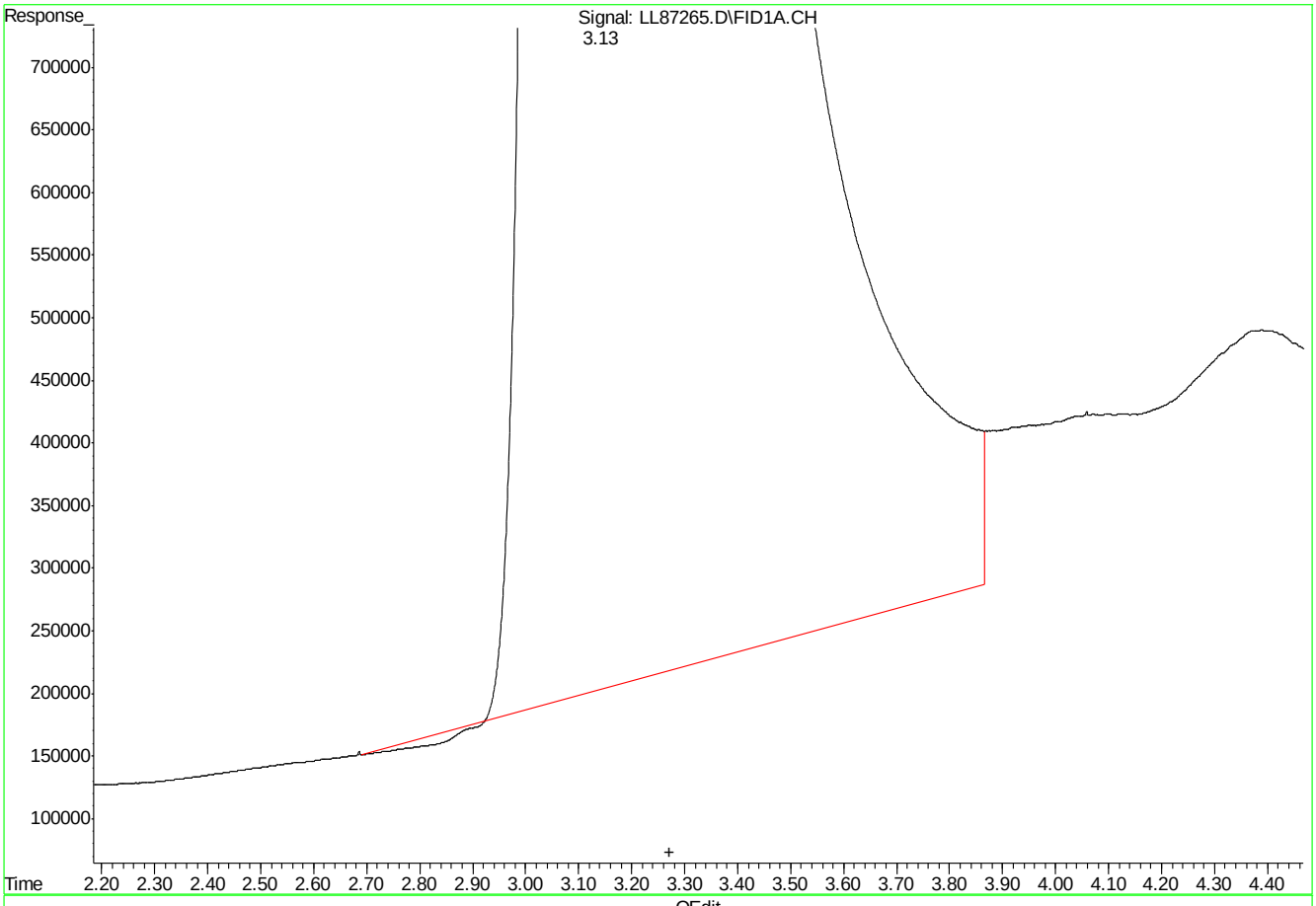
Sample Number: GLL3025-ICC3025
Lab FileID: LL87265.D
Injection Time: 01/10/24 12:39
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.13	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 1179.332ppmv

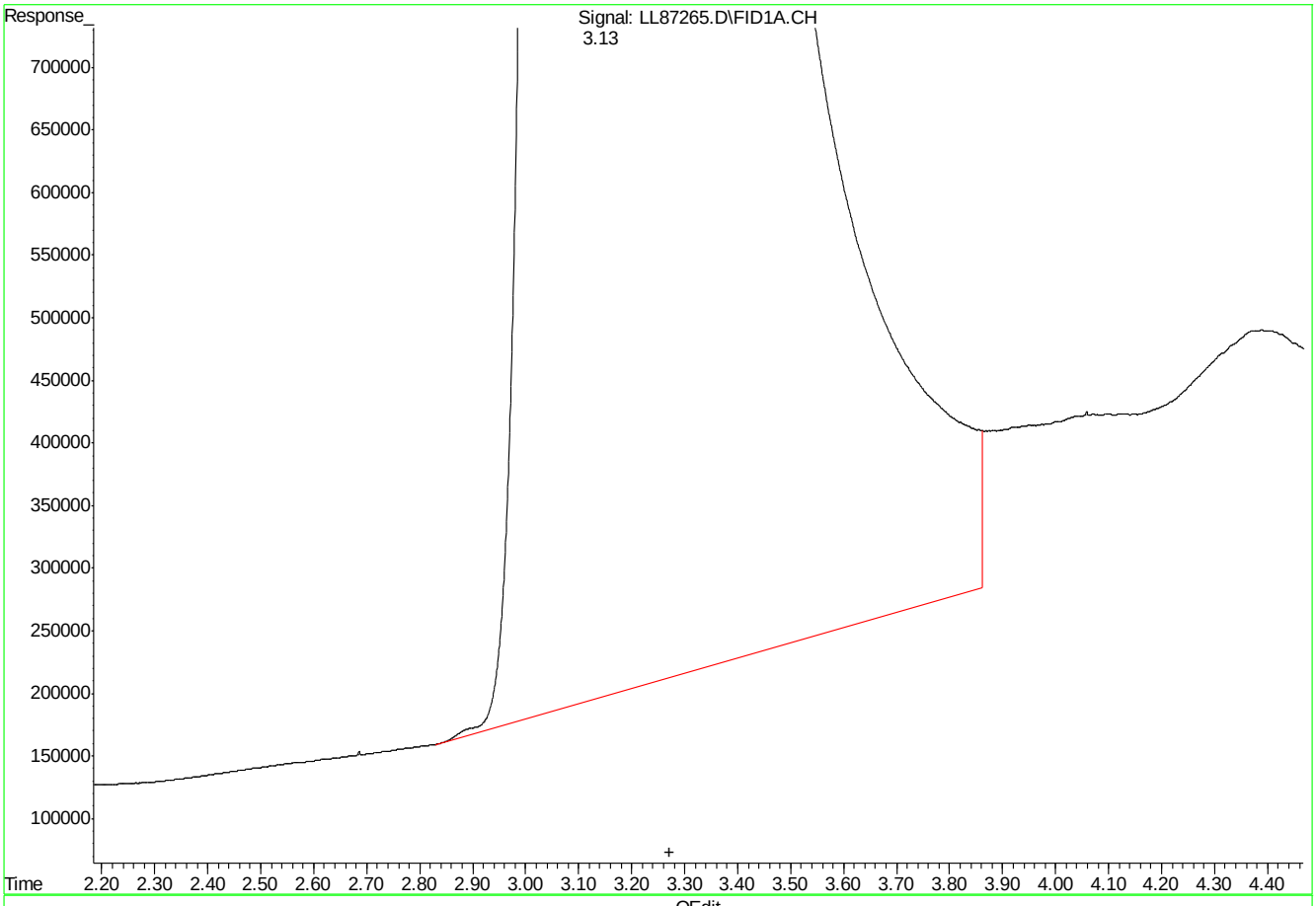
response 1663136781

(+) = Expected Retention Time
LL87265.D RSK01102024.M Wed Jan 10 12:45:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87265.D Vial: 7
Acq On : 10 Jan 2024 12:39 pm Operator: jennr
Sample : icc3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:44 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:38:34 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 1181.891ppmv m

response 1666745538

(+) = Expected Retention Time
LL87265.D RSK01102024.M Wed Jan 10 12:45:22 2024

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87266.D Vial: 8
Acq On : 10 Jan 2024 12:49 pm Operator: jennr
Sample : ic3025-6 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:55:12 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:46:44 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.24	3512574222	5171.599	ppmv
2)	Acetylene	0.57	8146758342	5567.349	ppmv
3)	Ethylene	0.73	6208572601	5420.576	ppmv
4)	Ethane	0.94	6573879018	5514.595	ppmv
5)	Propane	3.10	8829234737	6135.402	ppmv

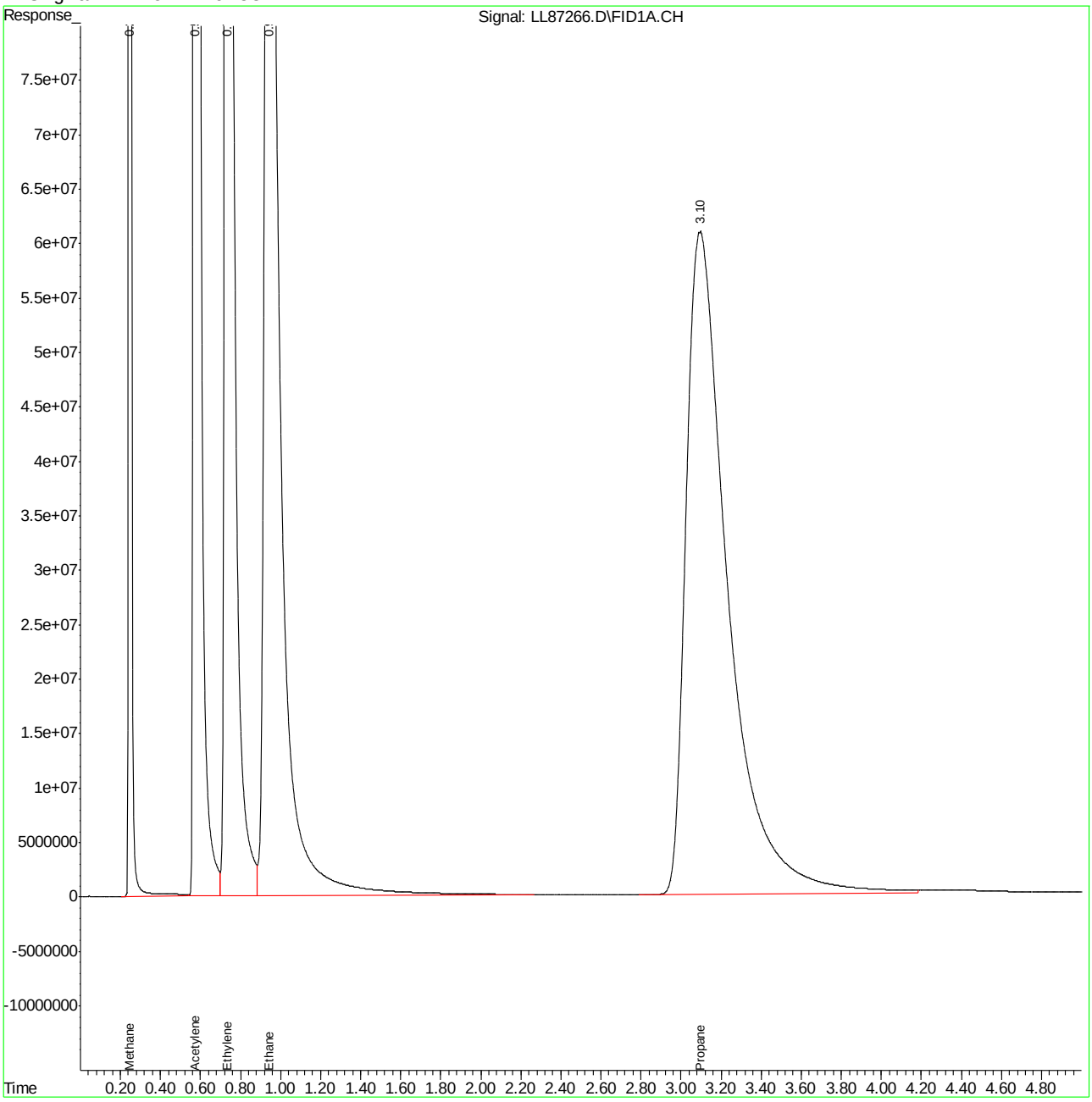
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87266.D RSK01102024.M Thu Jan 11 11:19:08 2024 Page 1

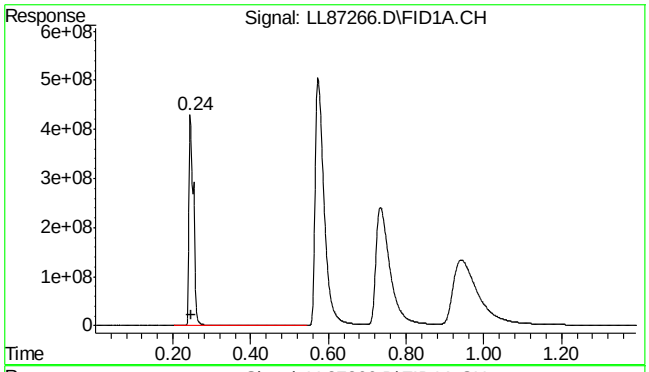
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87266.D Vial: 8
Acq On : 10 Jan 2024 12:49 pm Operator: jennr
Sample : ic3025-6 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 12:55 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:46:44 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

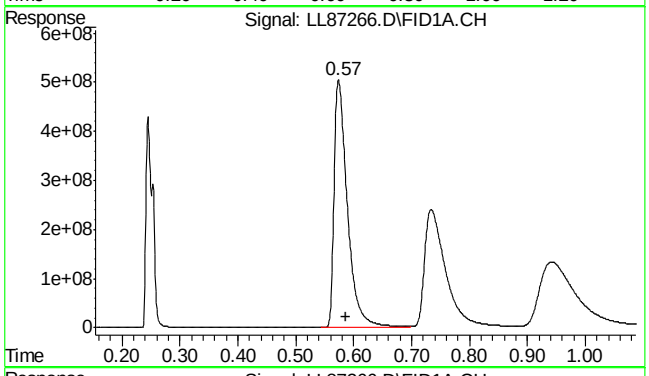
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





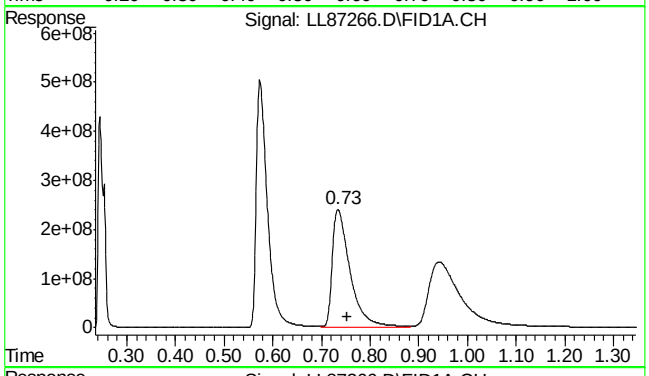
#1 Methane

R.T.: 0.245 min
Delta R.T.: -0.003 min
Response: 3512574222
Conc: 5171.60 ppmv



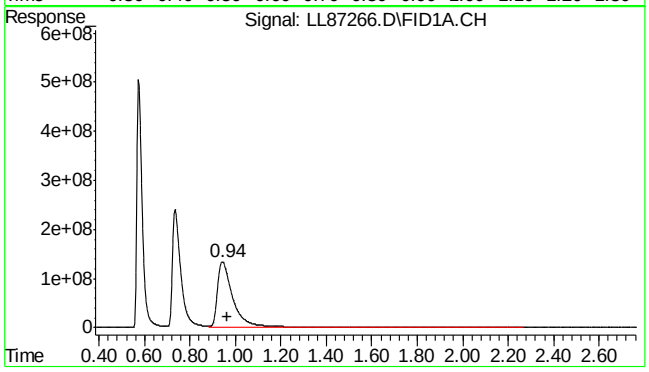
#2 Acetylene

R.T.: 0.574 min
Delta R.T.: -0.013 min
Response: 8146758342
Conc: 5567.35 ppmv



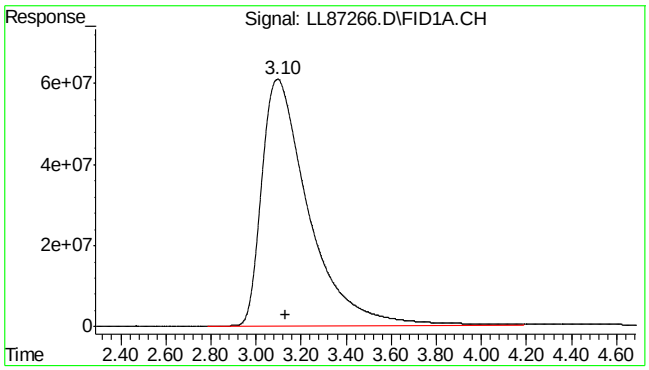
#3 Ethylene

R.T.: 0.734 min
Delta R.T.: -0.019 min
Response: 6208572601
Conc: 5420.58 ppmv



#4 Ethane

R.T.: 0.942 min
Delta R.T.: -0.021 min
Response: 6573879018
Conc: 5514.60 ppmv



#5 Propane

R.T.: 3.097 min
Delta R.T.: -0.036 min
Response: 8829234737
Conc: 6135.40 ppmv

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87267.D Vial: 9
Acq On : 10 Jan 2024 12:57 pm Operator: jennr
Sample : ic3025-7 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:02:54 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:55:43 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.25	6881486577	9970.013	ppmv
2)	Acetylene	0.57	16172361875	10674.151	ppmv
3)	Ethylene	0.72	12134079812	10394.737	ppmv
4)	Ethane	0.93	12610890190	10343.108	ppmv
5)	Propane	3.05	17129980302	11555.377	ppmv

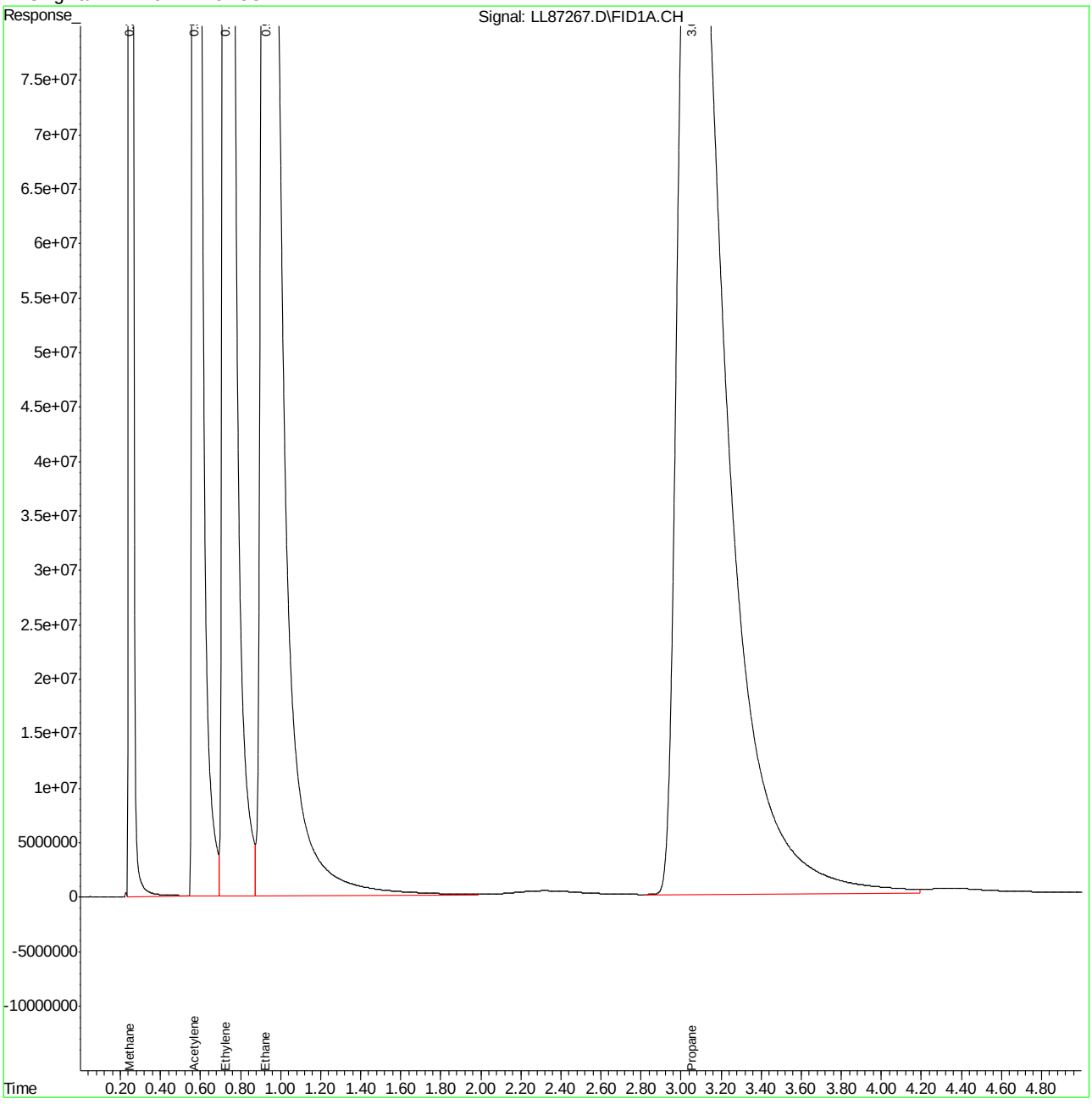
(f)=RT Delta > 1/2 Window (m)=manual int.
LL87267.D RSK01102024.M Thu Jan 11 11:19:09 2024 Page 1

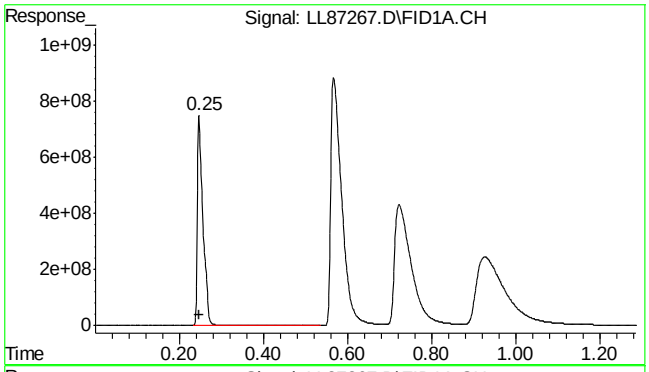
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87267.D Vial: 9
Acq On : 10 Jan 2024 12:57 pm Operator: jennr
Sample : ic3025-7 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:02 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 12:55:43 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

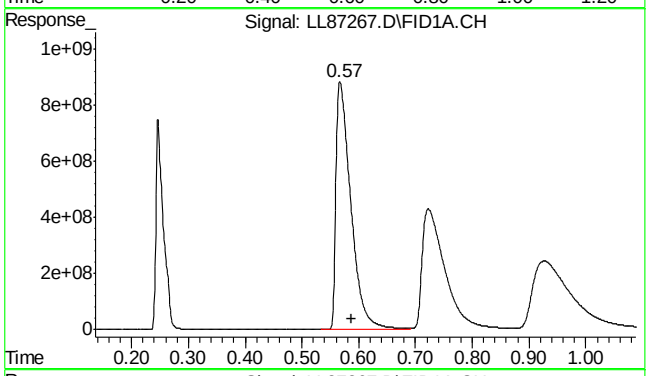
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





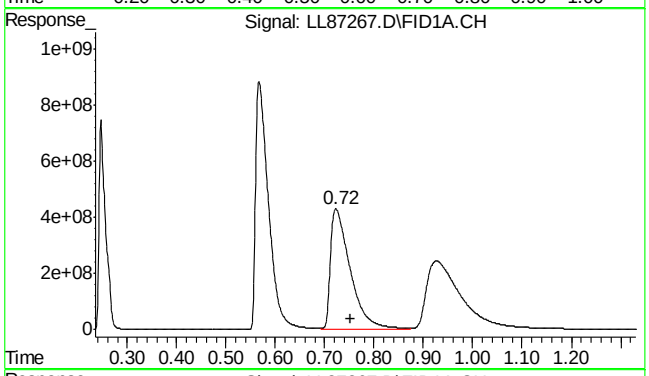
#1 Methane

R.T.: 0.247 min
Delta R.T.: 0.000 min
Response: 6881486577
Conc: 9970.01 ppmv



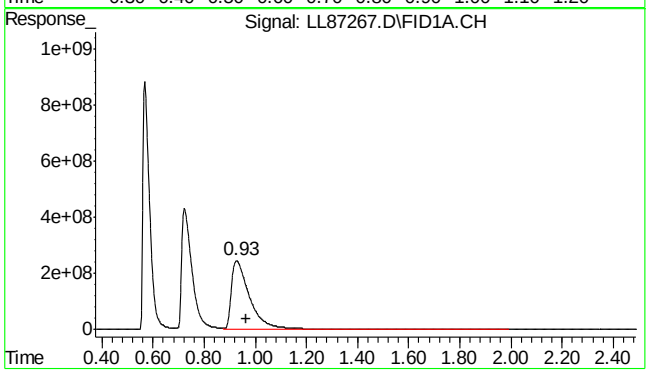
#2 Acetylene

R.T.: 0.567 min
Delta R.T.: -0.020 min
Response: 16172361875
Conc: 10674.15 ppmv



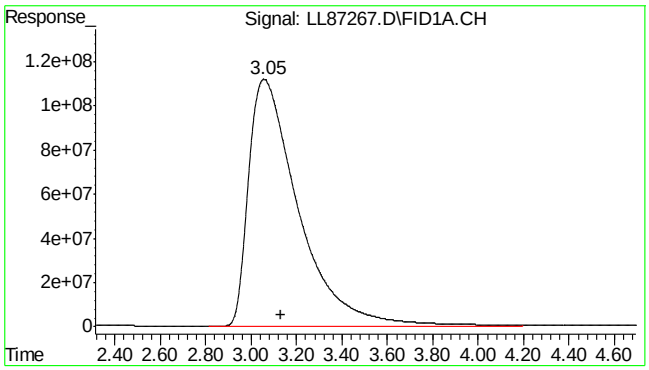
#3 Ethylene

R.T.: 0.723 min
Delta R.T.: -0.030 min
Response: 12134079812
Conc: 10394.74 ppmv



#4 Ethane

R.T.: 0.926 min
Delta R.T.: -0.037 min
Response: 12610890190
Conc: 10343.11 ppmv



#5 Propane

R.T.: 3.054 min
Delta R.T.: -0.078 min
Response: 17129980302
Conc: 11555.38 ppmv

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
01/11/24 12:43

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20:04 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Initial Calibration
DataAcq Meth : DGMEE3.M

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Methane	0.25	652746188	944.620	ppmv
2)	Acetylene	0.58	1505435198	970.589	ppmv
3)	Ethylene	0.75	1148444501	968.908	ppmv
4)	Ethane	0.96	1180763078	952.404	ppmv
5)	Propane	3.13	1603237187	930.516	ppmv m

9.6.8
6

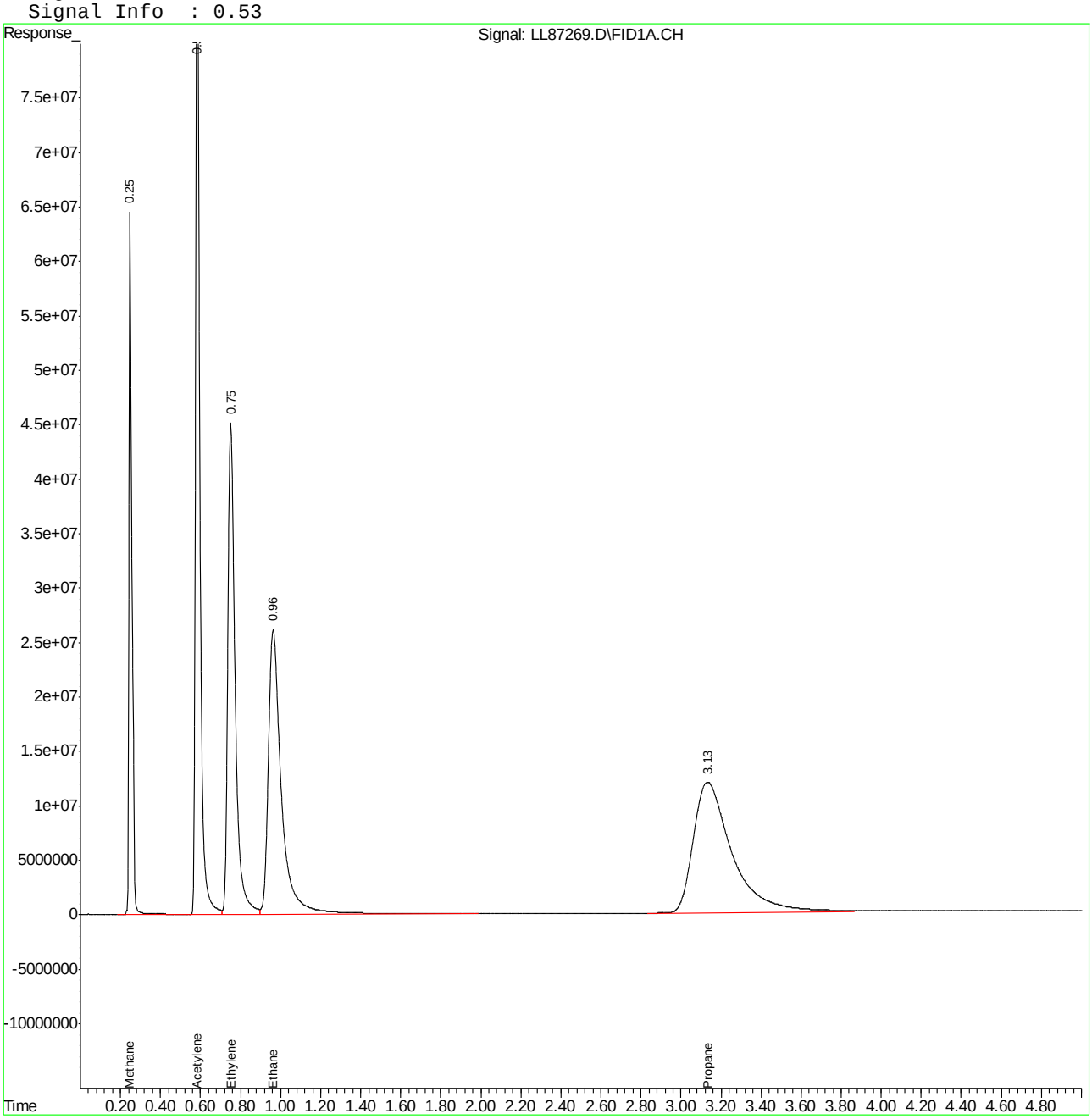
(f)=RT Delta > 1/2 Window (m)=manual int.

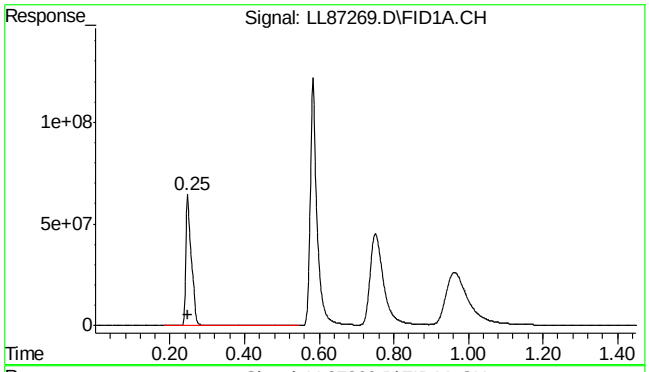
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Quant Method : C:\MSDCHEM\1...\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration
DataAcq Meth : DGMEE3.M

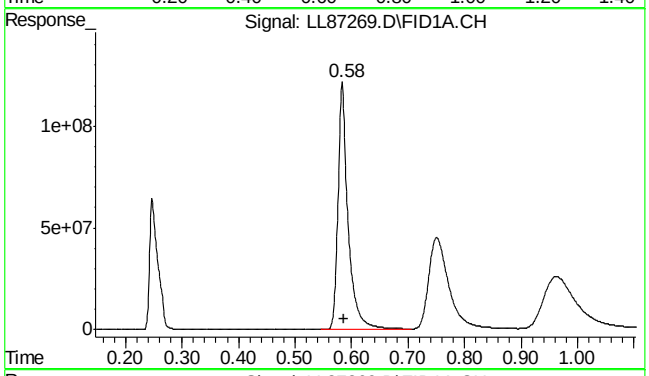
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





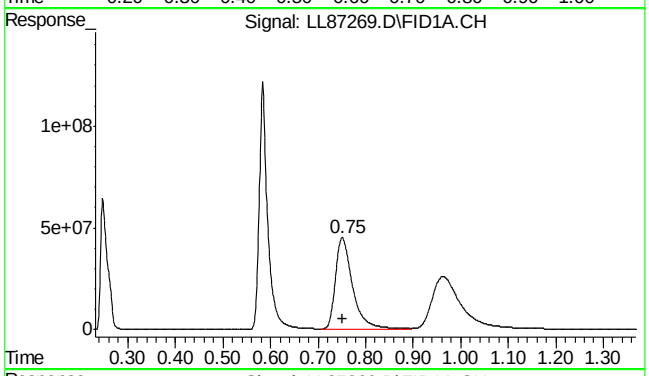
#1 Methane

R.T.: 0.247 min
Delta R.T.: 0.000 min
Response: 652746188
Conc: 944.62 ppmv



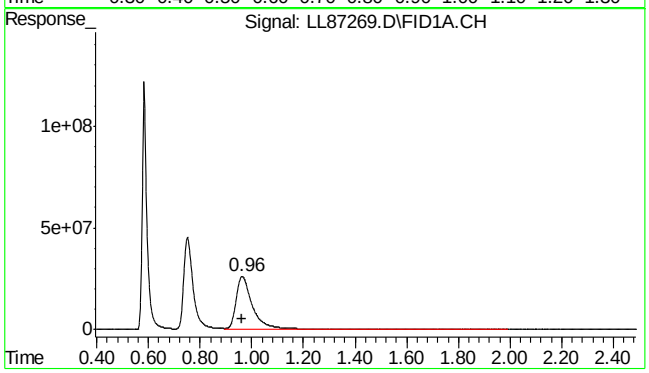
#2 Acetylene

R.T.: 0.584 min
Delta R.T.: -0.004 min
Response: 1505435198
Conc: 970.59 ppmv



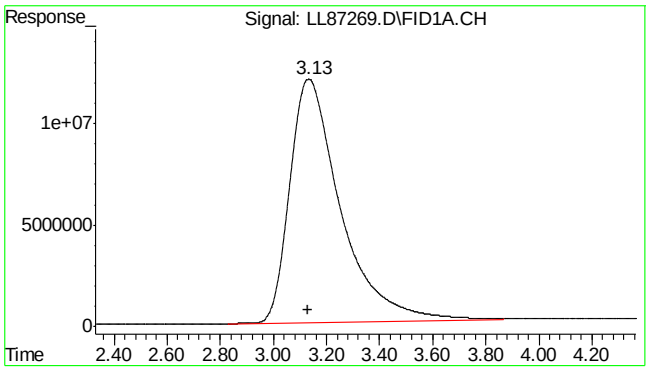
#3 Ethylene

R.T.: 0.751 min
Delta R.T.: -0.002 min
Response: 1148444501
Conc: 968.91 ppmv



#4 Ethane

R.T.: 0.963 min
Delta R.T.: 0.000 min
Response: 1180763078
Conc: 952.40 ppmv



#5 Propane

R.T.: 3.134 min
Delta R.T.: 0.002 min
Response: 1603237187
Conc: 930.52 ppmv m

Manual Integration Approval Summary

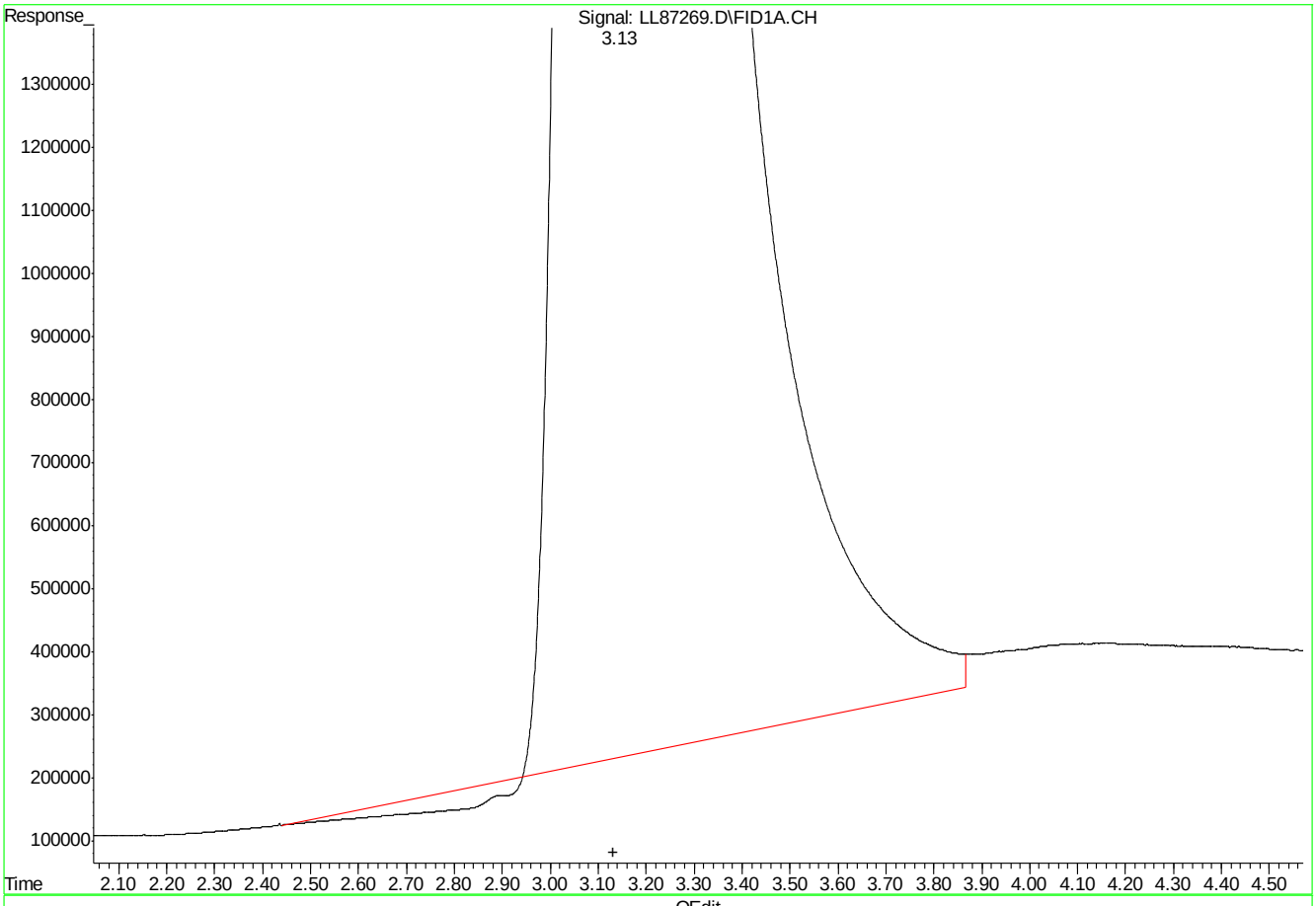
Sample Number: GLL3025-ICV3025
Lab FileID: LL87269.D
Injection Time: 01/10/24 13:14
Method: RSKSOP-147/175
Analyst approved: 01/11/24 08:01 Jennifer Rich
Supervisor approved: 01/11/24 12:43 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.13	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 920.148ppmv

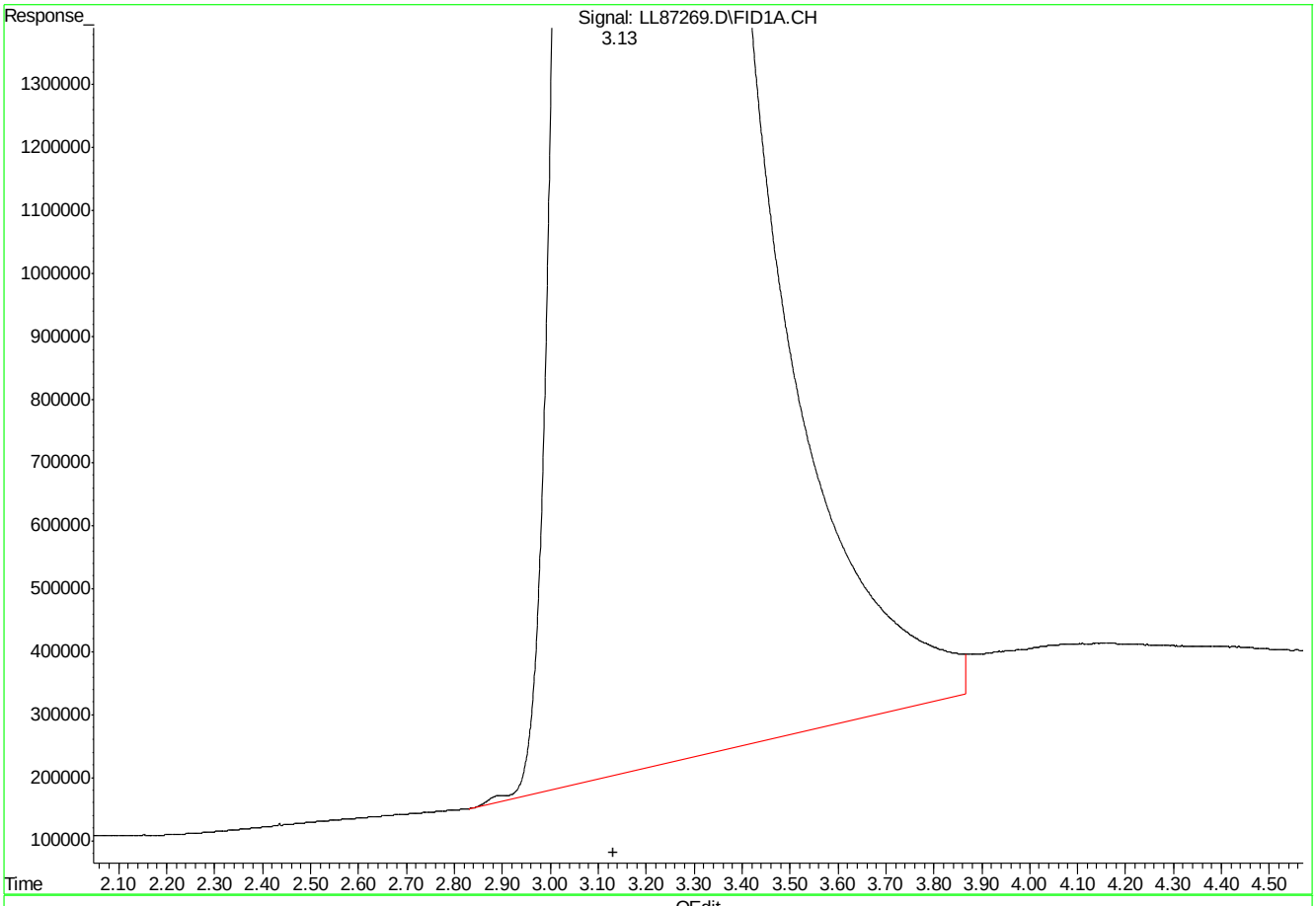
response 1585373899

(+) = Expected Retention Time
LL87269.D RSK01102024.M Wed Jan 10 13:20:16 2024

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\011024CAL\LL87269.D Vial: 11
Acq On : 1-10-2024 01:14:35 PM Operator: jennr
Sample : icv3025-5 Inst : FID4-LL
Misc : gc24580,gll3025,38,21,500,5,1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 10 13:20 2024 Quant Results File: RSK01102024.RES

Method : C:\MSDCHEM\1\METHODS\RSK01102024.M (Chemstation Integrator)
Title : Dissolved Gases in Water
Last Update : Wed Jan 10 13:16:51 2024
Response via : Multiple Level Calibration



(5) Propane

3.13min 930.516ppmv m

response 1603237187

(+) = Expected Retention Time
LL87269.D RSK01102024.M Wed Jan 10 13:20:23 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:54:10 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	696405752	1007.802	ppmv	m
2)	Acetylene	0.582	1652217427	1065.223	ppmv	
3)	Ethylene	0.747	1189993407	1003.962	ppmv	
4)	Ethane	0.957	1248703232	1007.205	ppmv	
5)	Propane	3.114	1619673940	940.056	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

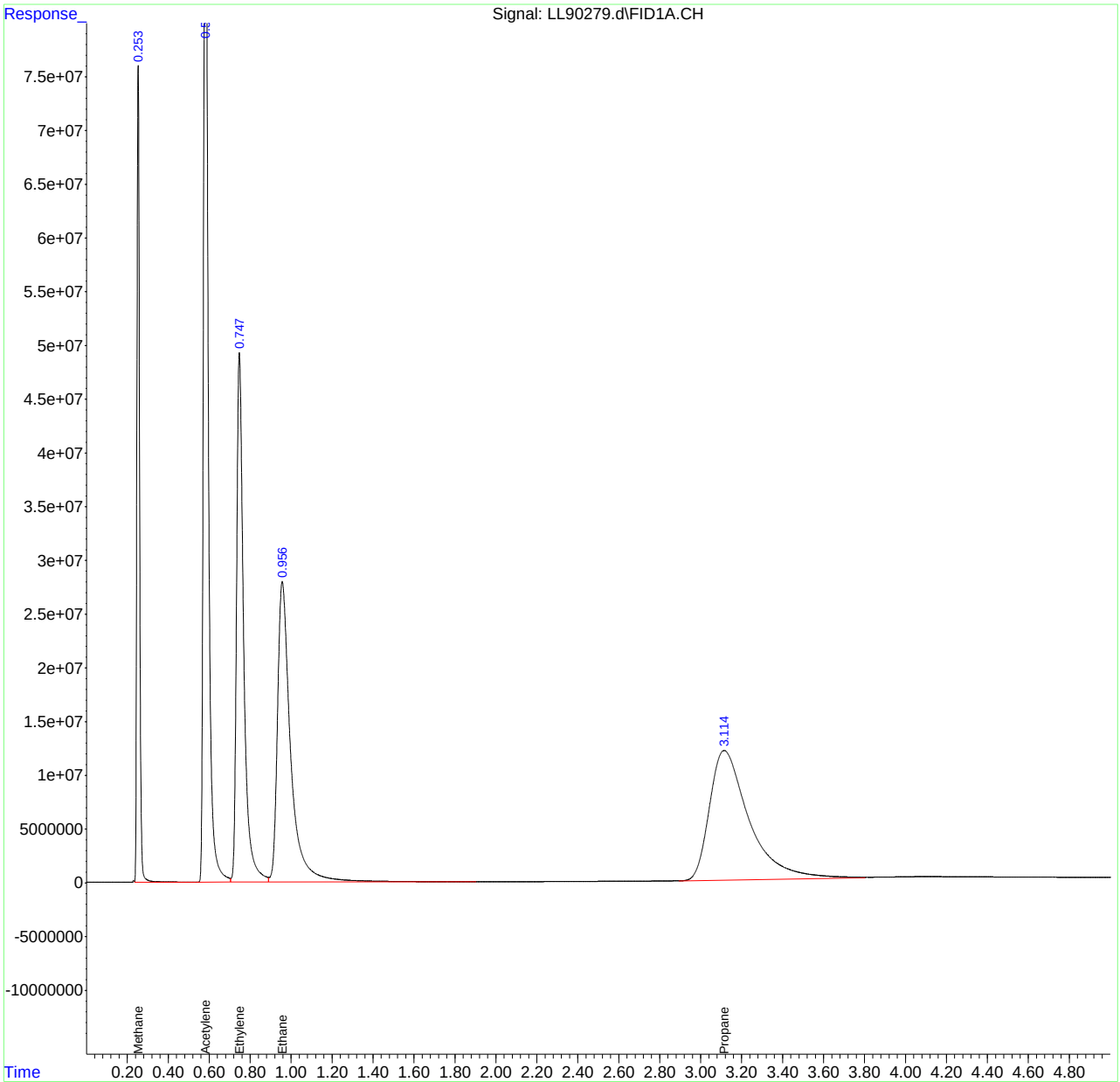
9.6.9

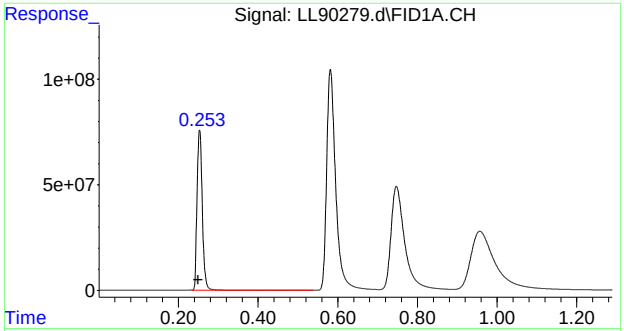
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:54:10 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

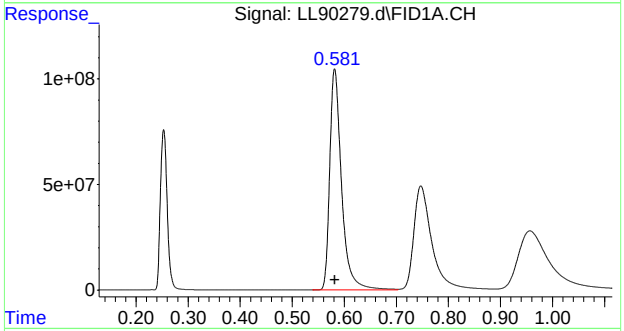
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





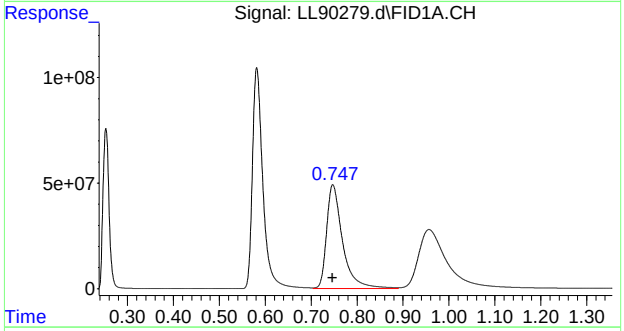
#1 Methane

R.T.: 0.253 min
Delta R.T.: 0.004 min
Response: 696405752
Conc: 1007.80 ppmv m



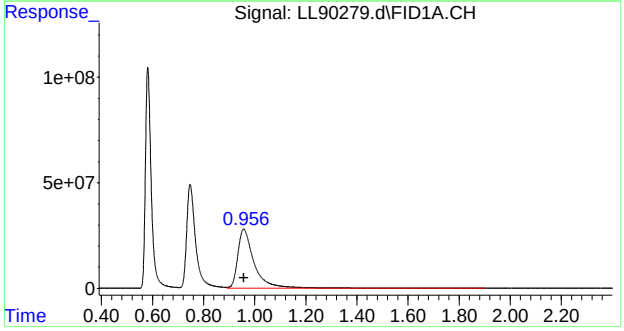
#2 Acetylene

R.T.: 0.582 min
Delta R.T.: 0.000 min
Response: 1652217427
Conc: 1065.22 ppmv



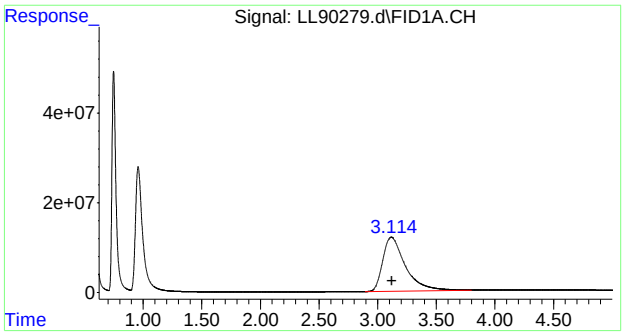
#3 Ethylene

R.T.: 0.747 min
Delta R.T.: 0.001 min
Response: 1189993407
Conc: 1003.96 ppmv



#4 Ethane

R.T.: 0.957 min
Delta R.T.: 0.000 min
Response: 1248703232
Conc: 1007.20 ppmv



#5 Propane

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 1619673940
Conc: 940.06 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90279.D
Injection Time: 06/27/24 08:44
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

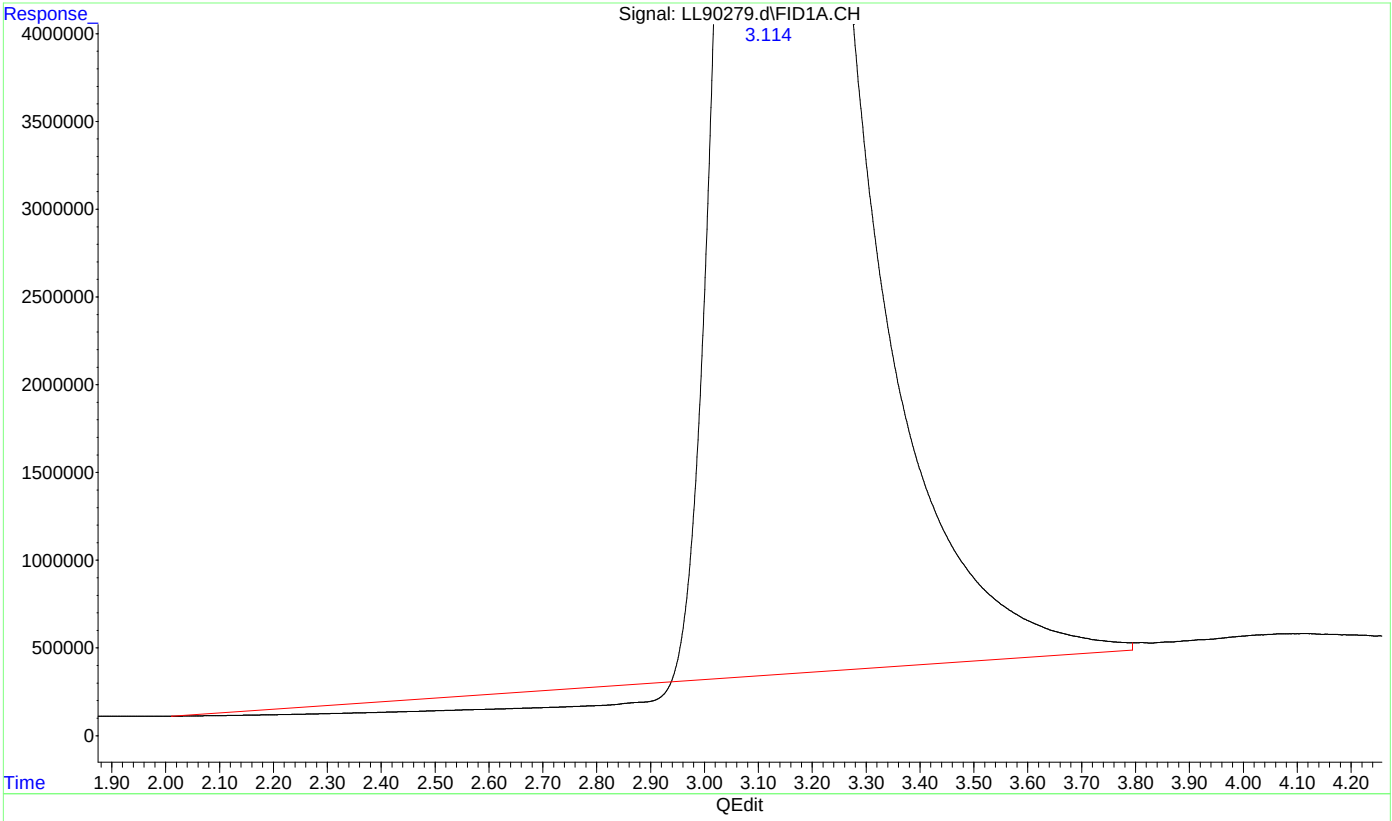
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 901.445 ppmv

response 1553150012

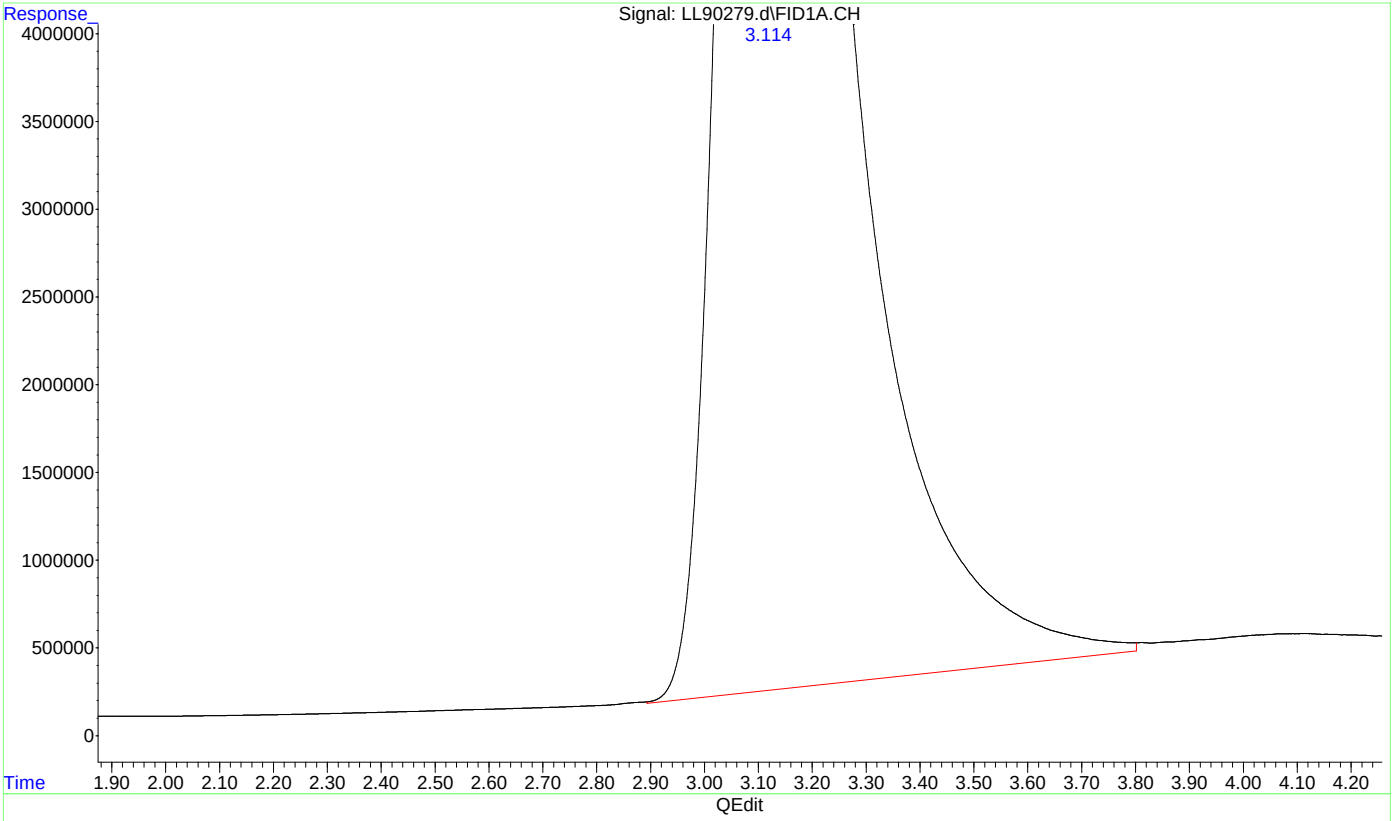
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 08:53:53 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 940.056 ppmv m

response 1619673940

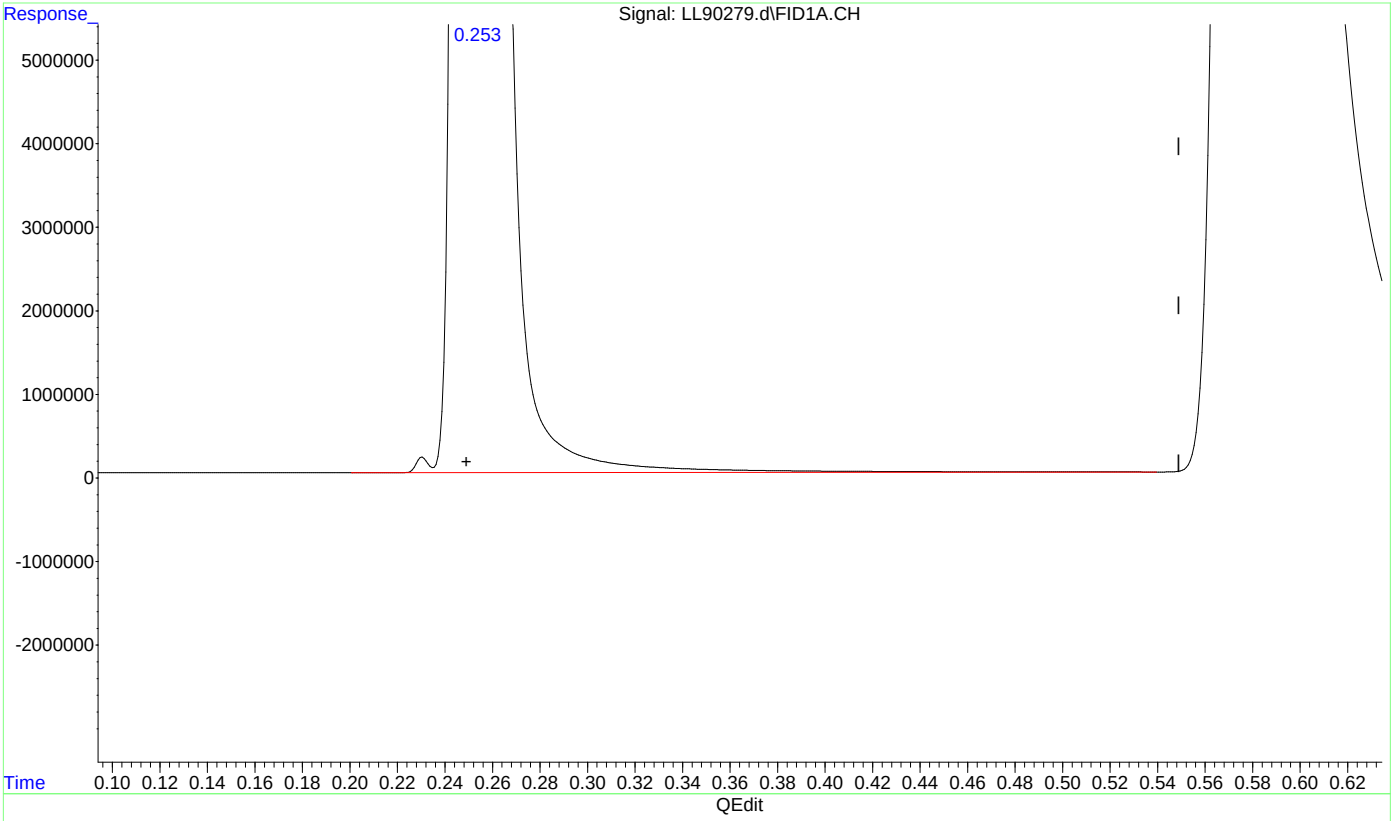
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 08:54:00 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 1008.663 ppmv

response 697000828

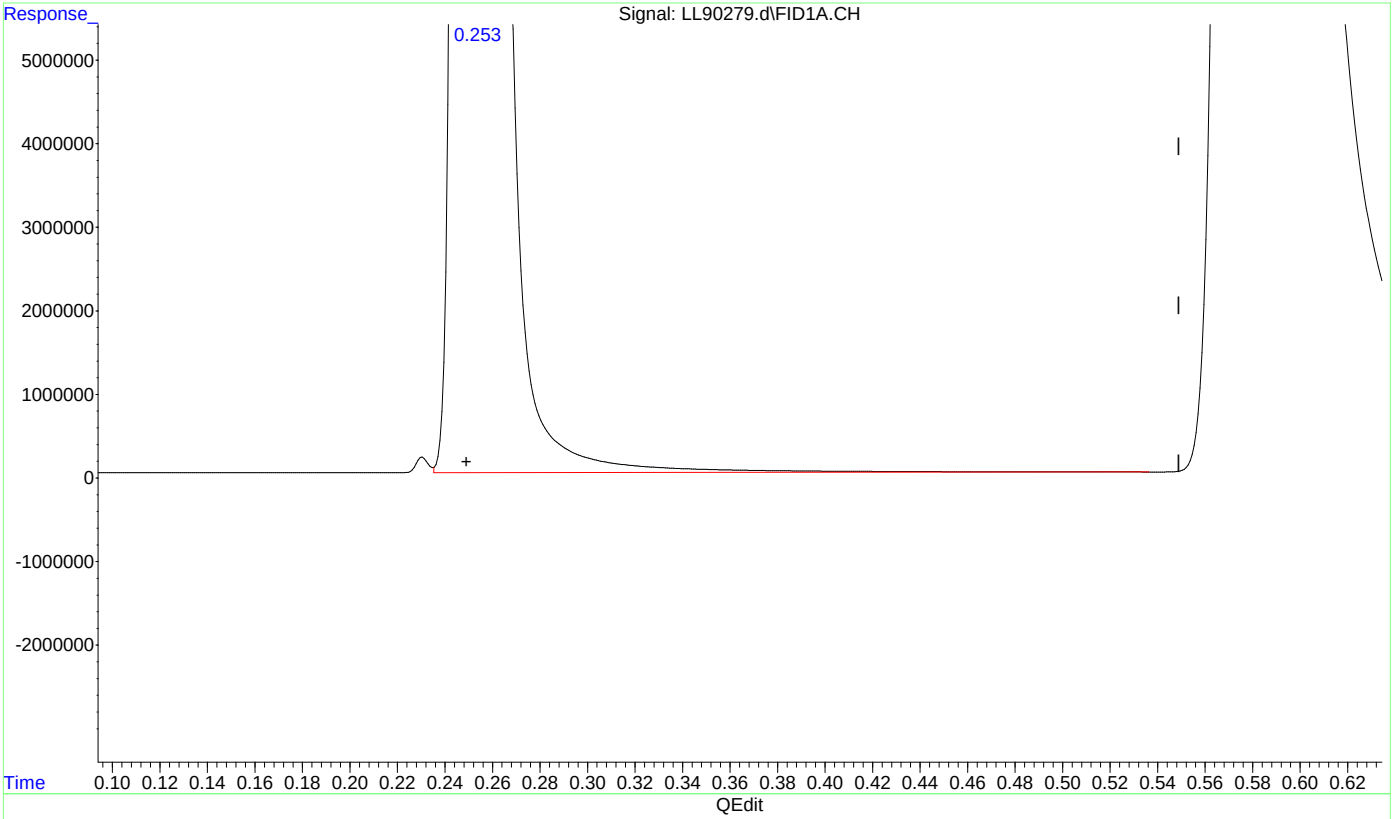
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 08:54:04 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90279.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 08:44:56
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 08:53:38 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 1007.802 ppmv m

response 696405752

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 08:54:12 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Methane	0.250	362044421	523.932	ppmv
2)	Acetylene	0.581	858018880	553.185	ppmv
3)	Ethylene	0.748	622329506	525.041	ppmv
4)	Ethane	0.958	657566091	530.393	ppmv
5)	Propane	3.122	856918684	497.354	ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

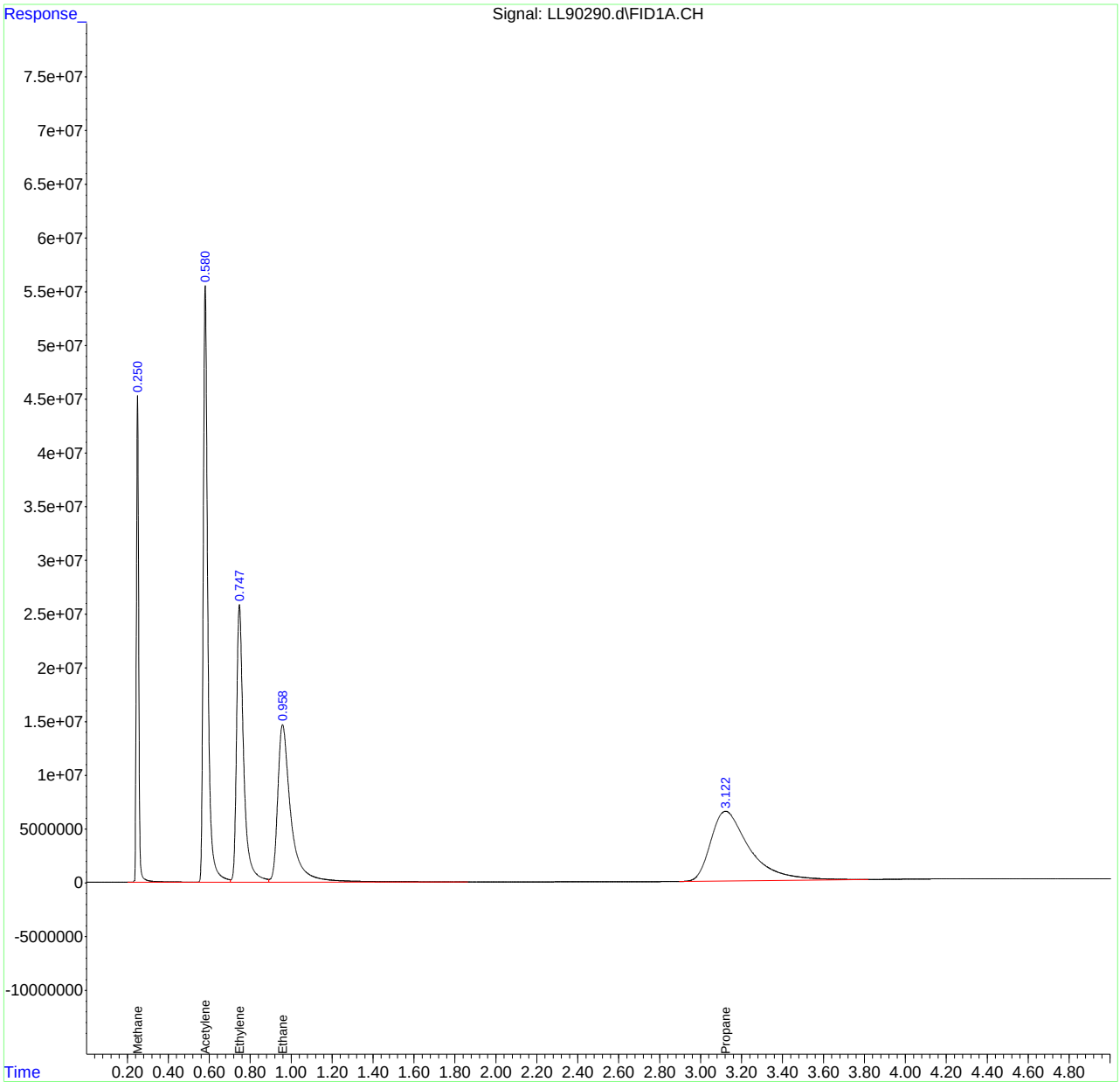
9.6.10
6

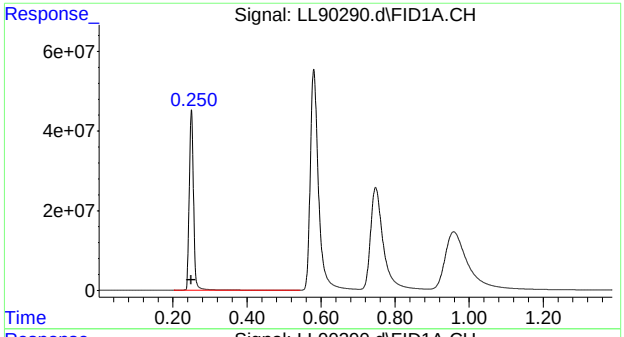
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:44 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

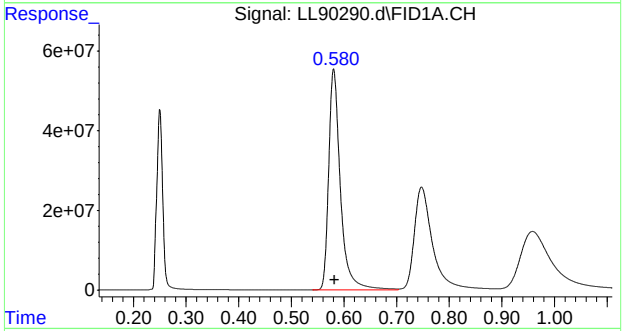
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





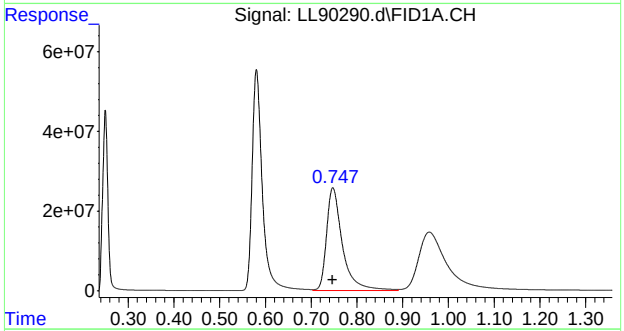
#1 Methane

R.T.: 0.250 min
Delta R.T.: 0.001 min
Response: 362044421
Conc: 523.93 ppmv



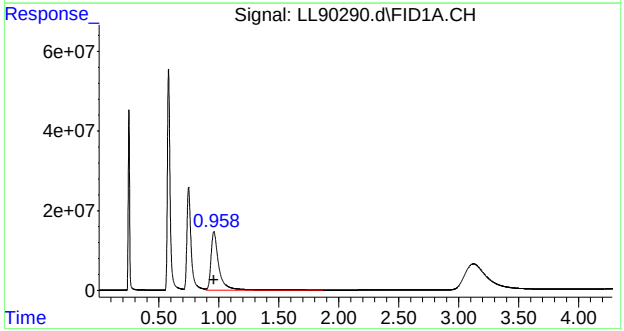
#2 Acetylene

R.T.: 0.581 min
Delta R.T.: -0.001 min
Response: 858018880
Conc: 553.18 ppmv



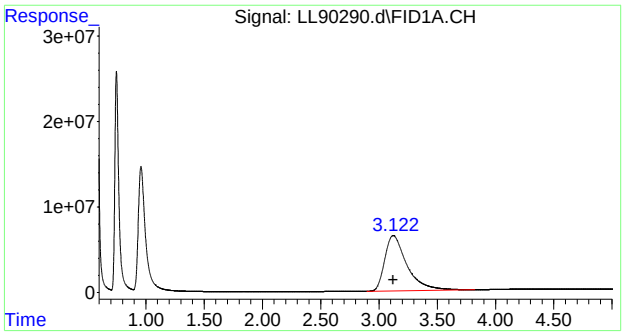
#3 Ethylene

R.T.: 0.748 min
Delta R.T.: 0.001 min
Response: 622329506
Conc: 525.04 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.002 min
Response: 657566091
Conc: 530.39 ppmv



#5 Propane

R.T.: 3.122 min
Delta R.T.: 0.001 min
Response: 856918684
Conc: 497.35 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90290.D
Injection Time: 06/27/24 11:11
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

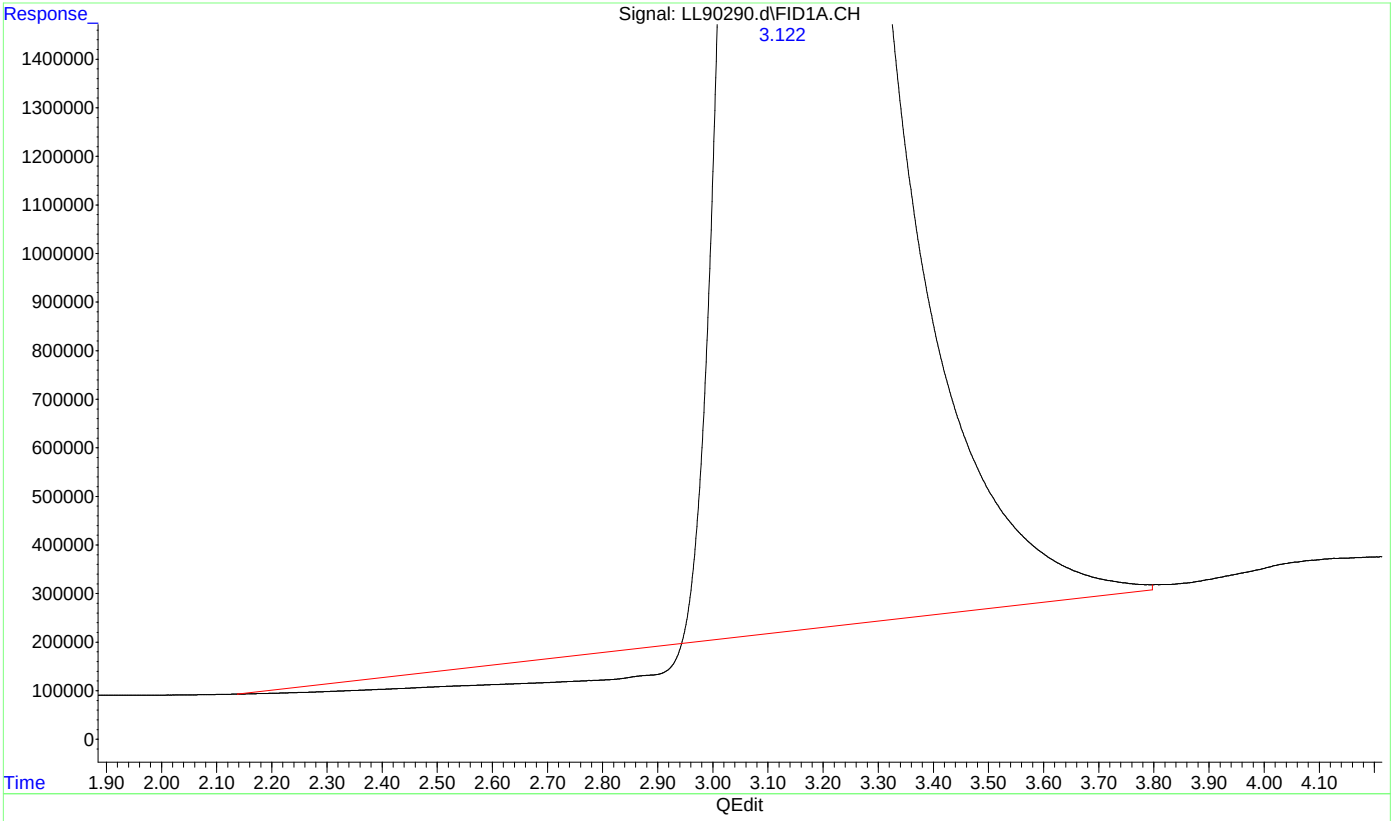
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.122min 478.769 ppmv

response 824897951

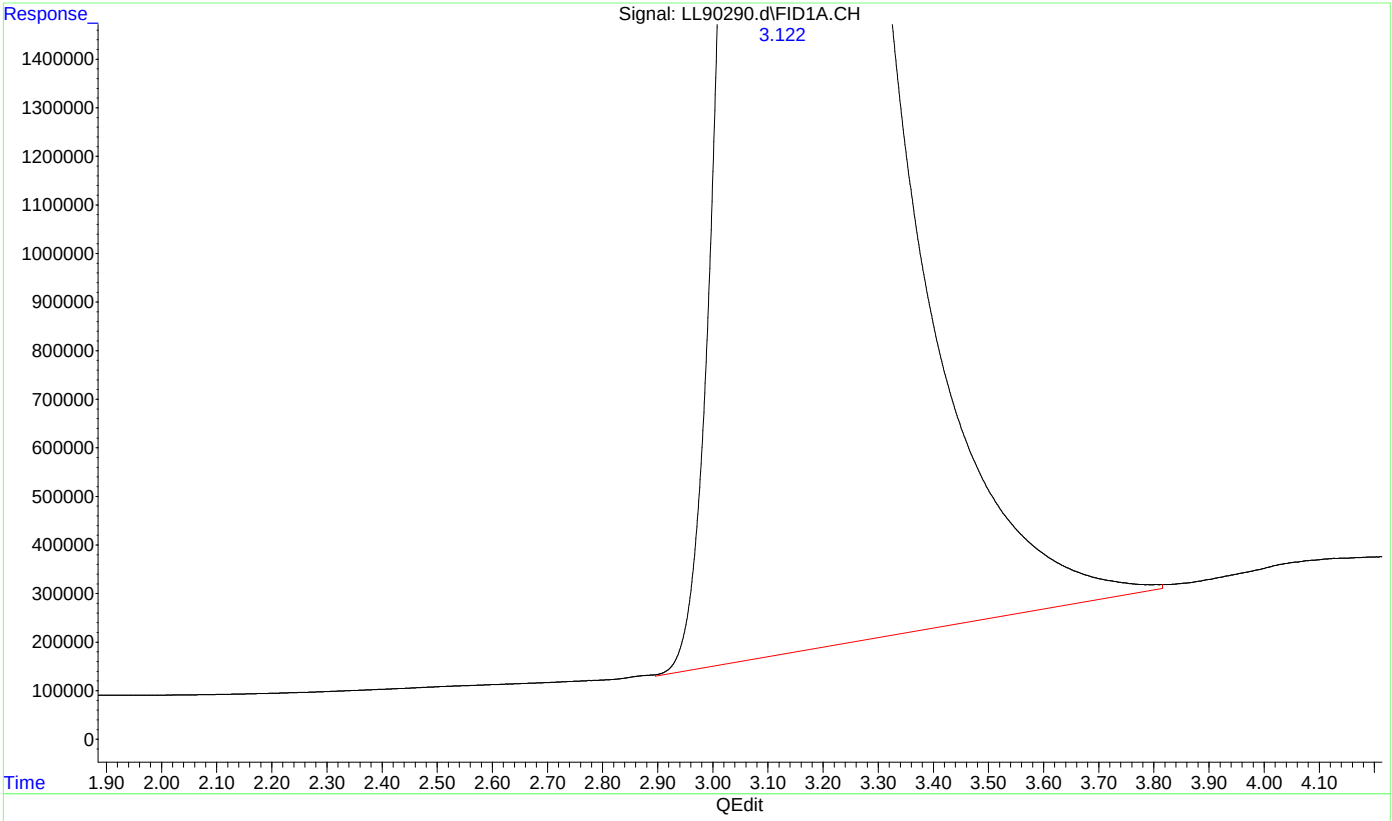
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:17:41 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90290.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 11:11:47
Operator : jennr
Sample : cc3025-4
Misc : gc24887,gll3144,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 11:17:27 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.122min 497.354 ppmv m

response 856918684

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 11:17:45 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
06/28/24 12:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.254	682232551	987.292	ppmv	
2)	Acetylene	0.583	1628423769	1049.883	ppmv	
3)	Ethylene	0.748	1174843838	991.180	ppmv	
4)	Ethane	0.958	1235284811	996.381	ppmv	
5)	Propane	3.115	1609542531	934.175	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

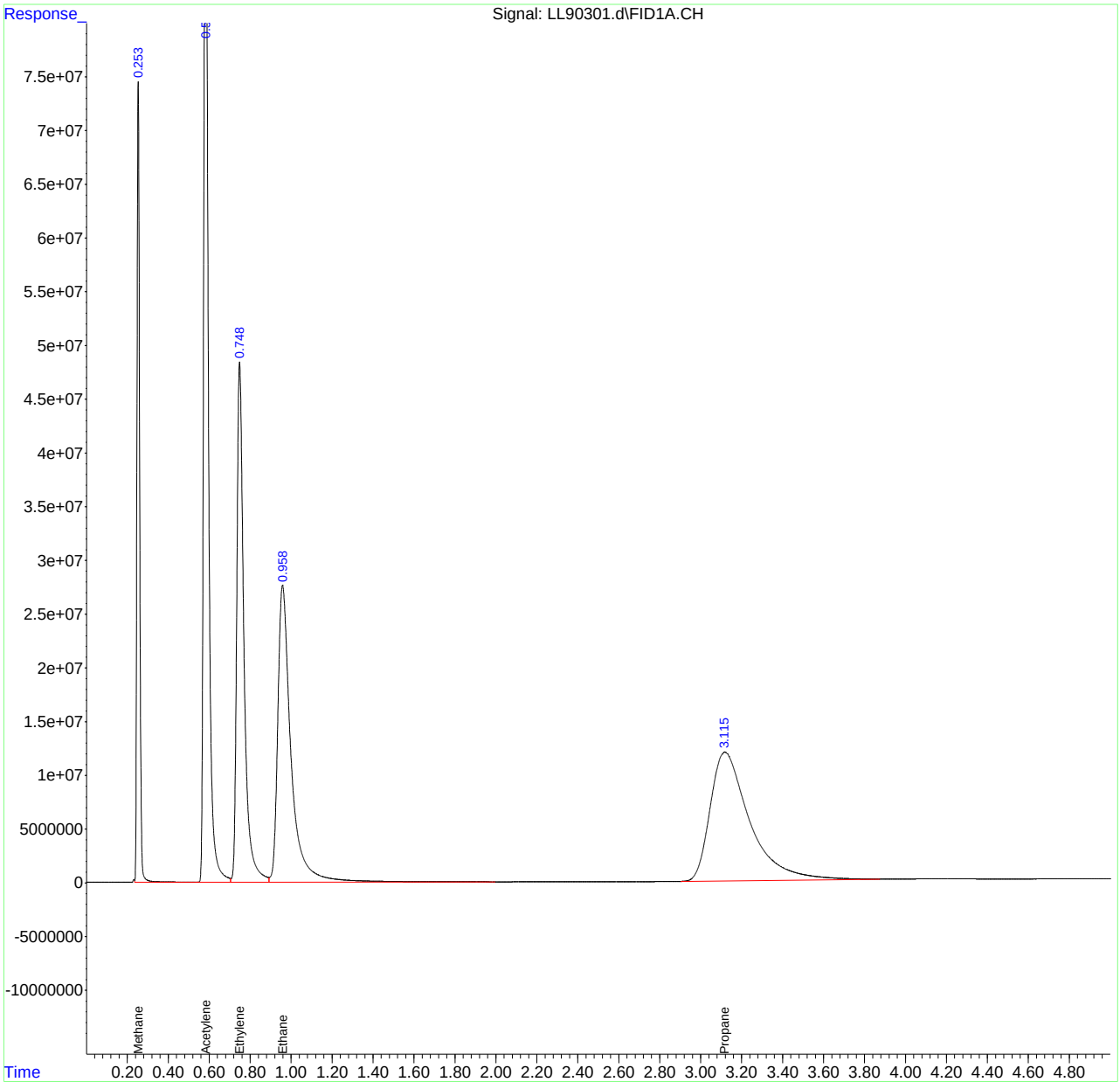
9.6.11
9

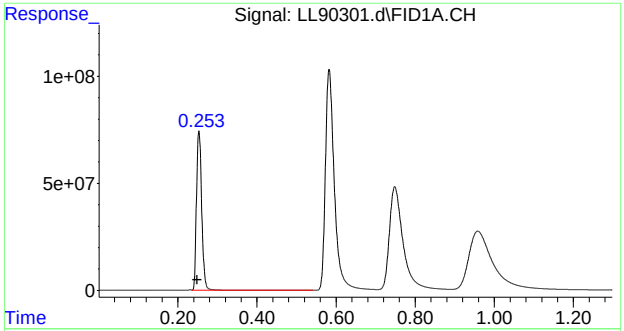
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:40 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

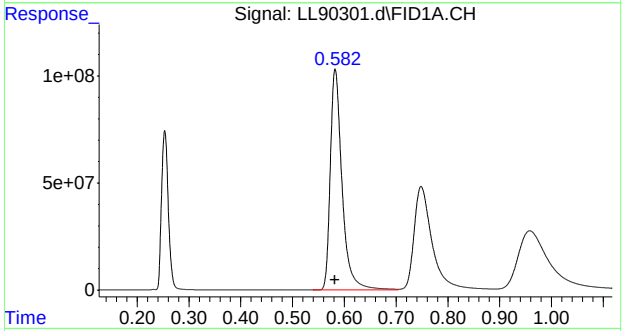
Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53





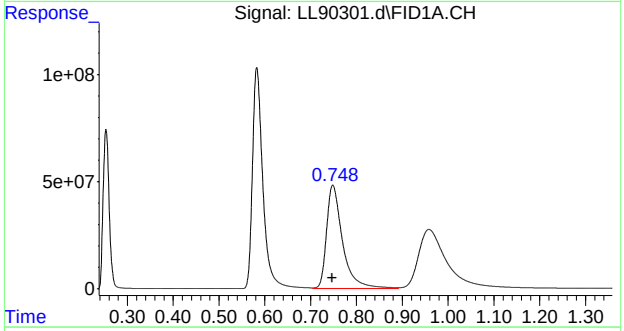
#1 Methane

R.T.: 0.254 min
Delta R.T.: 0.005 min
Response: 682232551
Conc: 987.29 ppmv



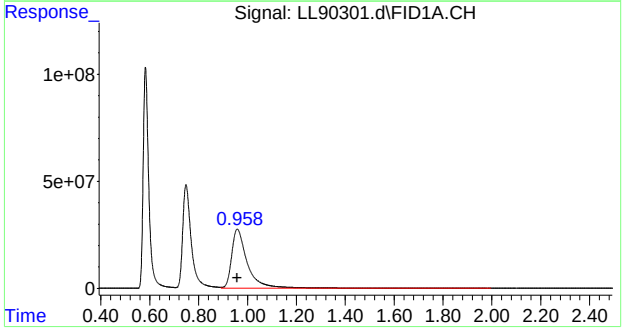
#2 Acetylene

R.T.: 0.583 min
Delta R.T.: 0.000 min
Response: 1628423769
Conc: 1049.88 ppmv



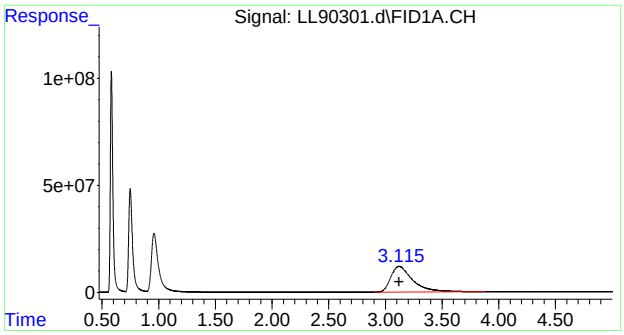
#3 Ethylene

R.T.: 0.748 min
Delta R.T.: 0.002 min
Response: 1174843838
Conc: 991.18 ppmv



#4 Ethane

R.T.: 0.958 min
Delta R.T.: 0.002 min
Response: 1235284811
Conc: 996.38 ppmv



#5 Propane

R.T.:	3.115 min
Delta R.T.:	-0.005 min
Response:	1609542531
Conc:	934.18 ppmv m

Manual Integration Approval Summary

Sample Number: GLL3144-CC3025
Lab FileID: LL90301.D
Injection Time: 06/27/24 12:50
Method: RSKSOP-147/175
Analyst approved: 06/28/24 09:17 Jennifer Rich
Supervisor approved: 06/28/24 12:22 Karen Watson

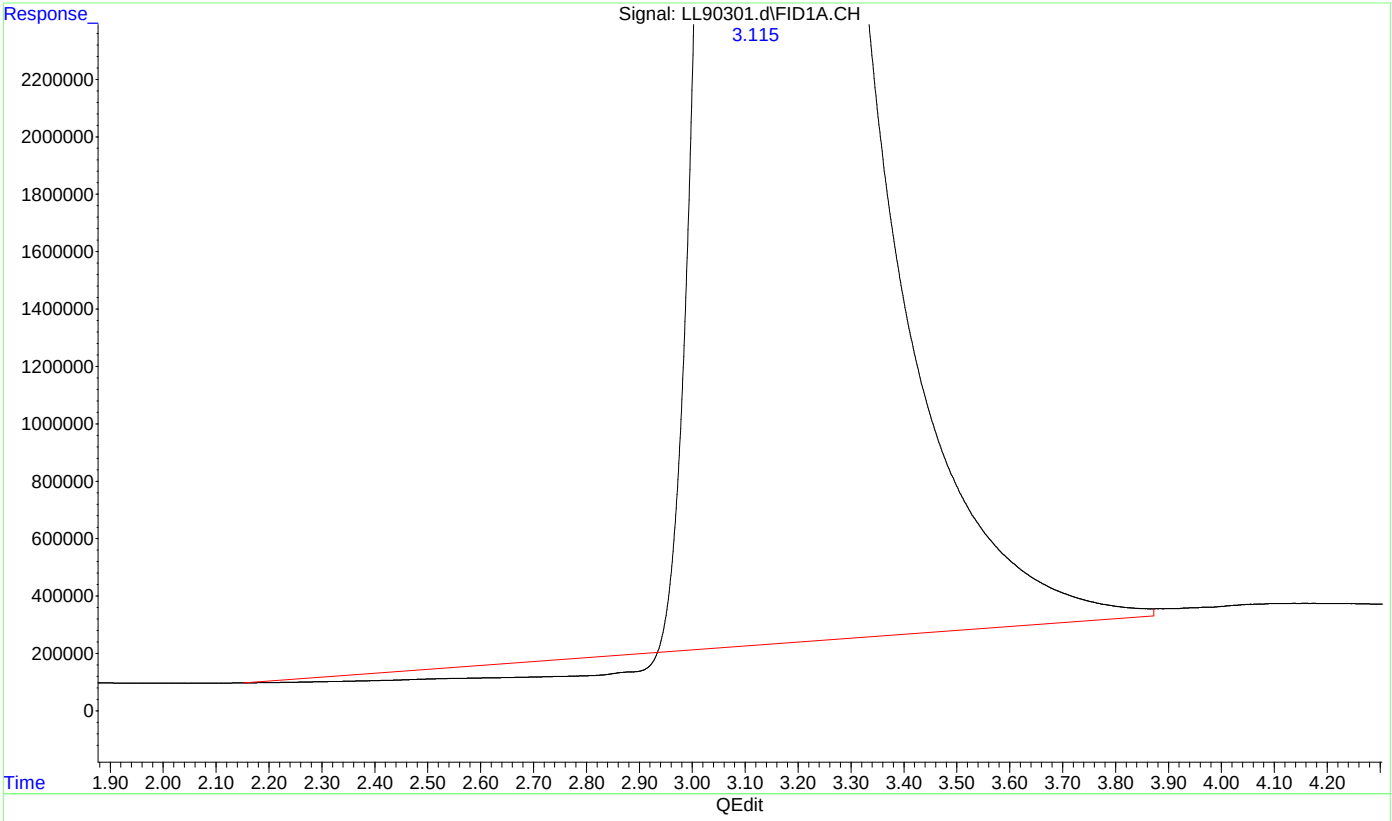
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:26 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.116min 914.061 ppmv

response 1574885983

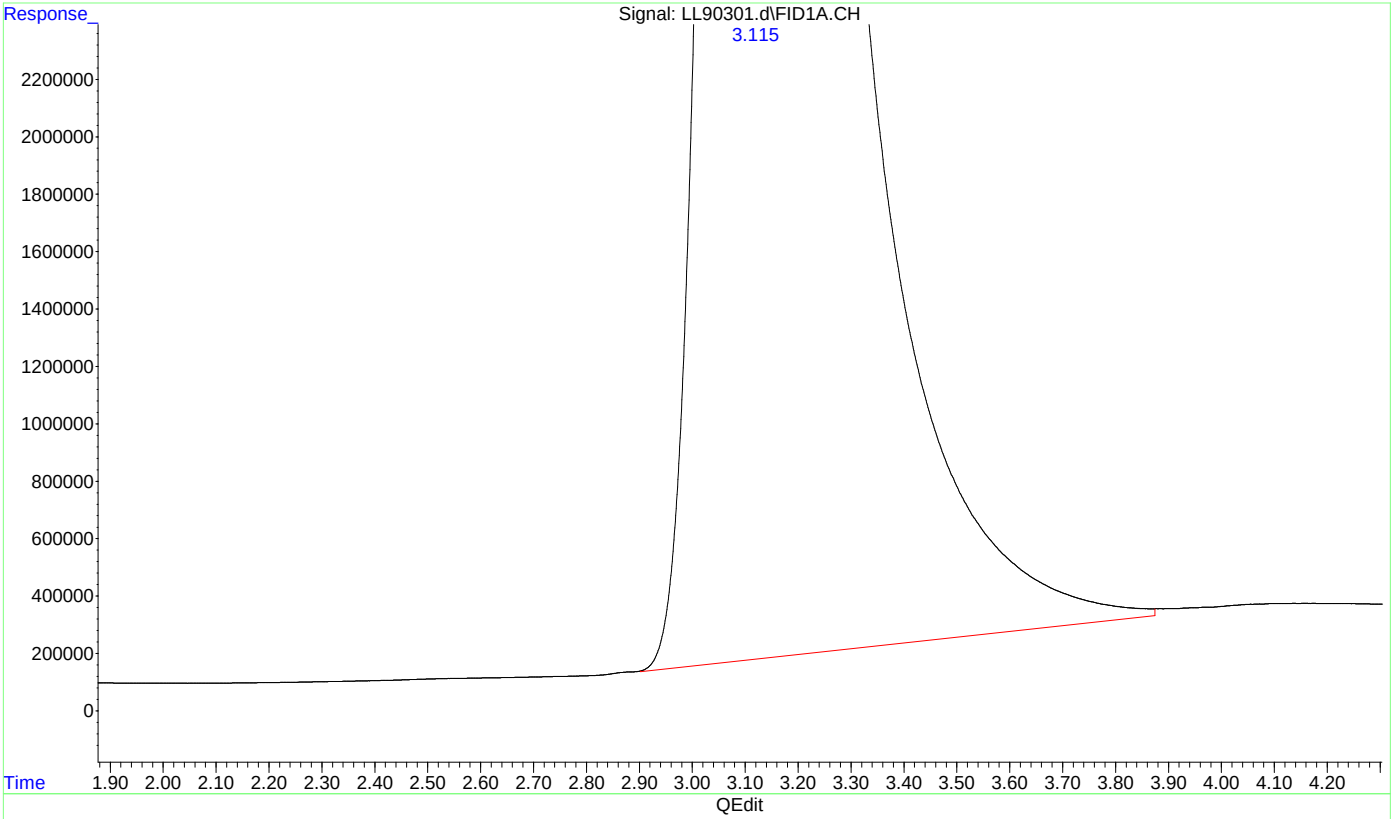
(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 12:55:36 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062724\
Data File : LL90301.d
Signal(s) : FID1A.CH
Acq On : 27-Jun-24, 12:50:13
Operator : jennr
Sample : cc3025-5
Misc : gc24887,gll3144,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 27 12:55:26 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 934.175 ppmv m

response 1609542531

(+) = Expected Retention Time
RSK01102024.M Thu Jun 27 12:55:41 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:22:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.255	692318134	1001.887	ppmv	
2)	Acetylene	0.583	1643697739	1059.730	ppmv	
3)	Ethylene	0.748	1189912797	1003.894	ppmv	
4)	Ethane	0.958	1249065103	1007.497	ppmv	
5)	Propane	3.113	1606962575	932.678	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

9.6.12

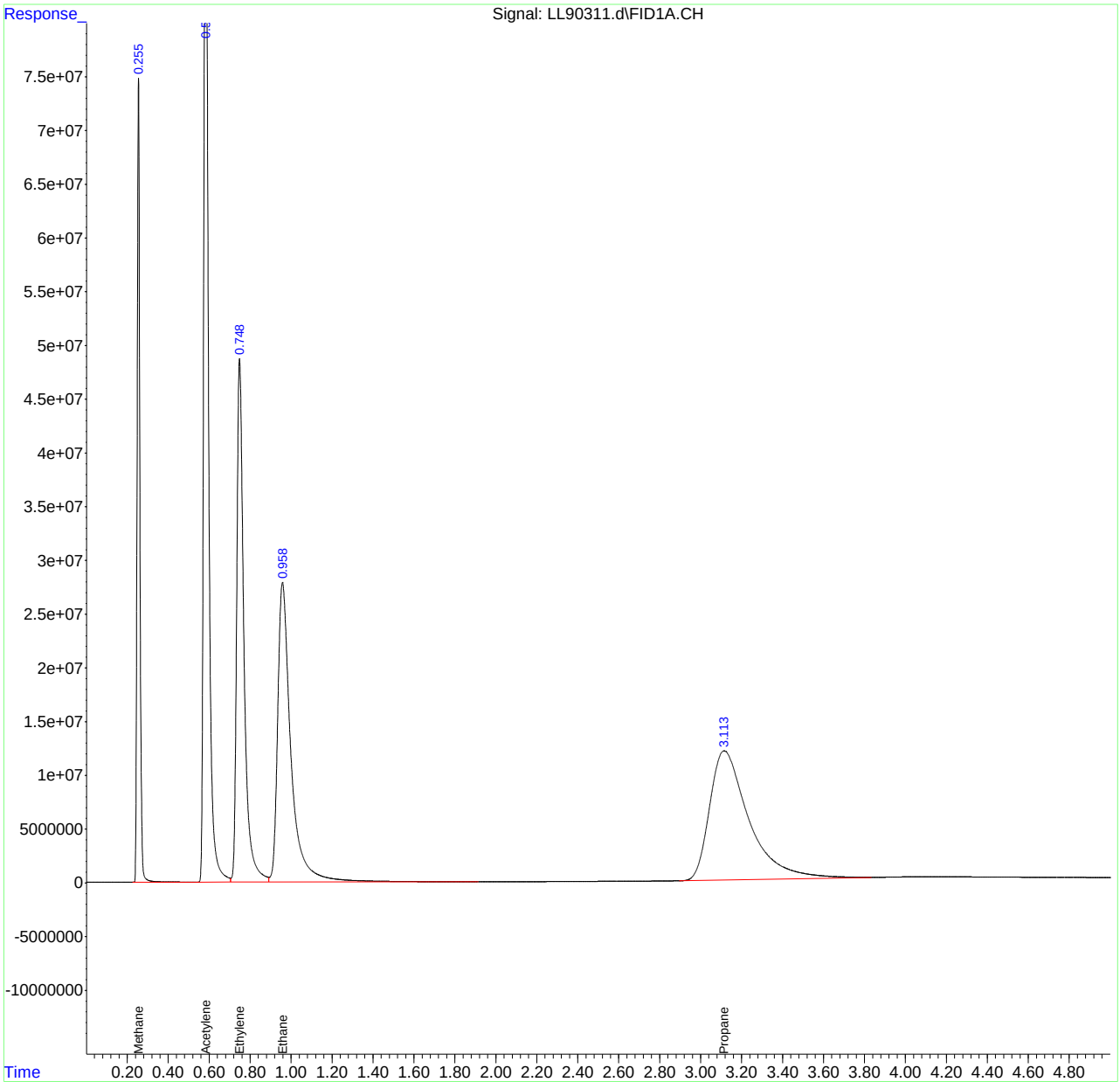
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:22:04 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90311.D
Injection Time: 06/28/24 09:16
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

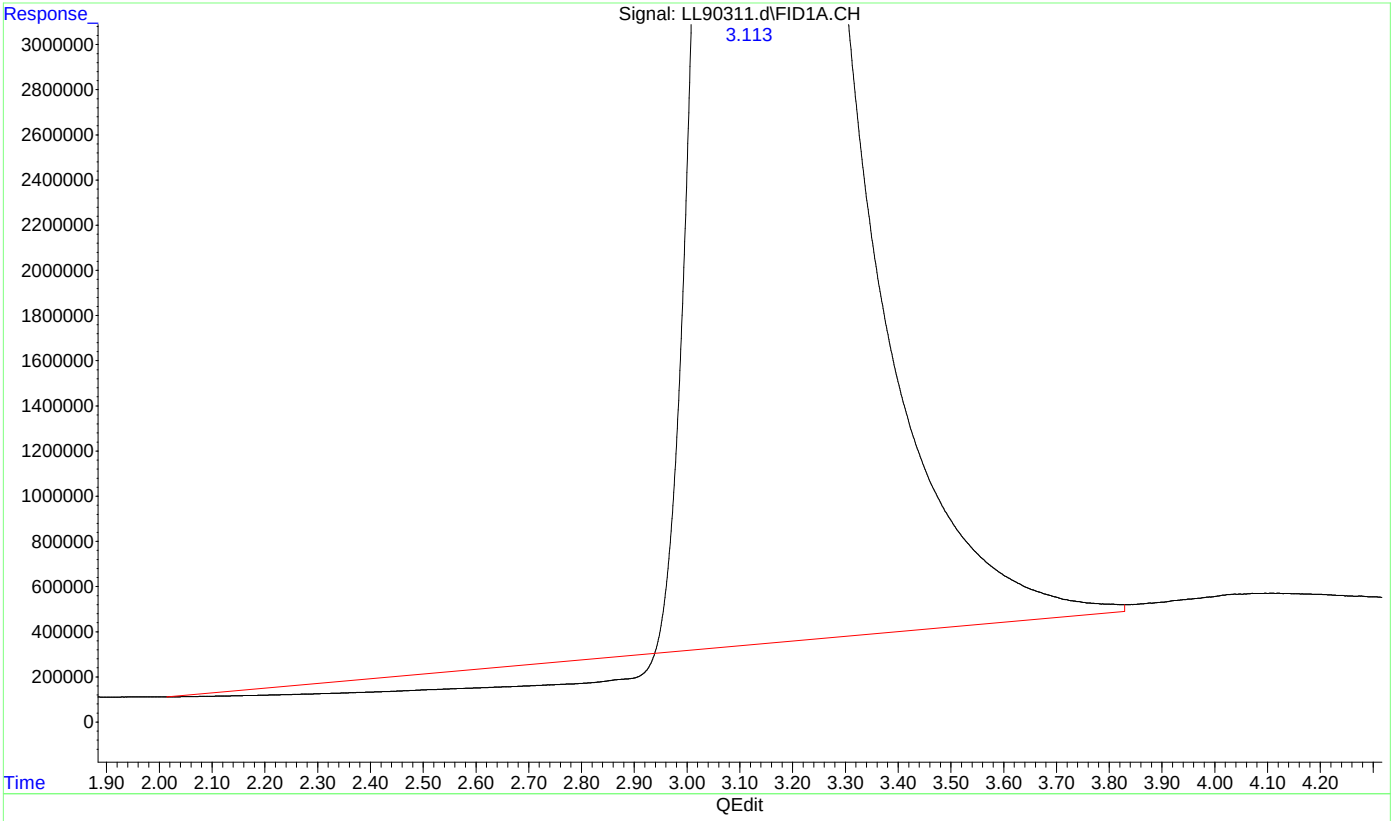
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:21:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 897.259 ppmv

response 1545936602

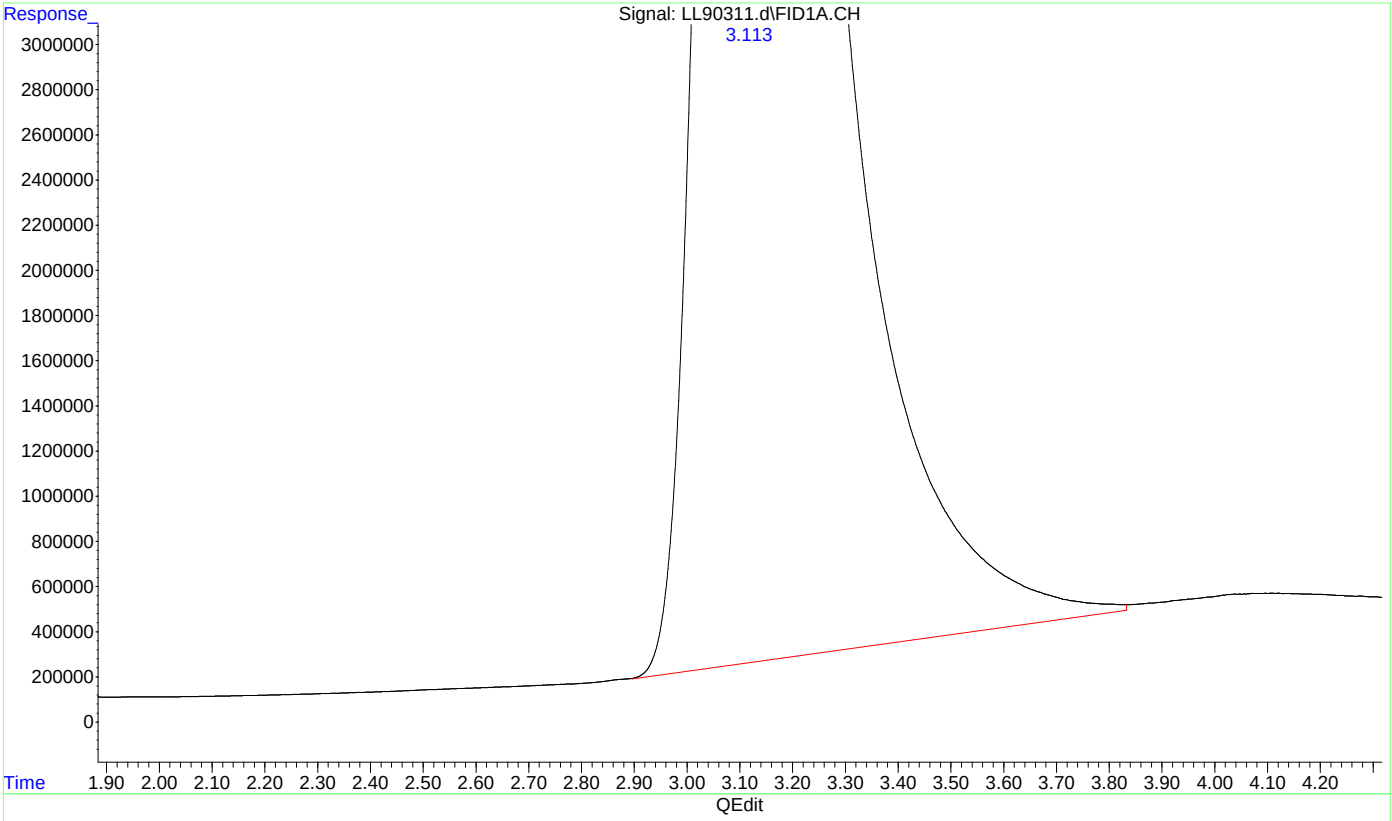
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90311.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 09:16:24
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 09:21:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.113min 932.678 ppmv m

response 1606962575

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Methane	0.253	371846804	538.117 ppmv m
2)	Acetylene	0.582	880075005	567.405 ppmv
3)	Ethylene	0.749	639785994	539.768 ppmv
4)	Ethane	0.959	675761291	545.069 ppmv
5)	Propane	3.117	874026245	507.283 ppmv m

(f)=RT Delta > 1/2 Window (m)=manual int.

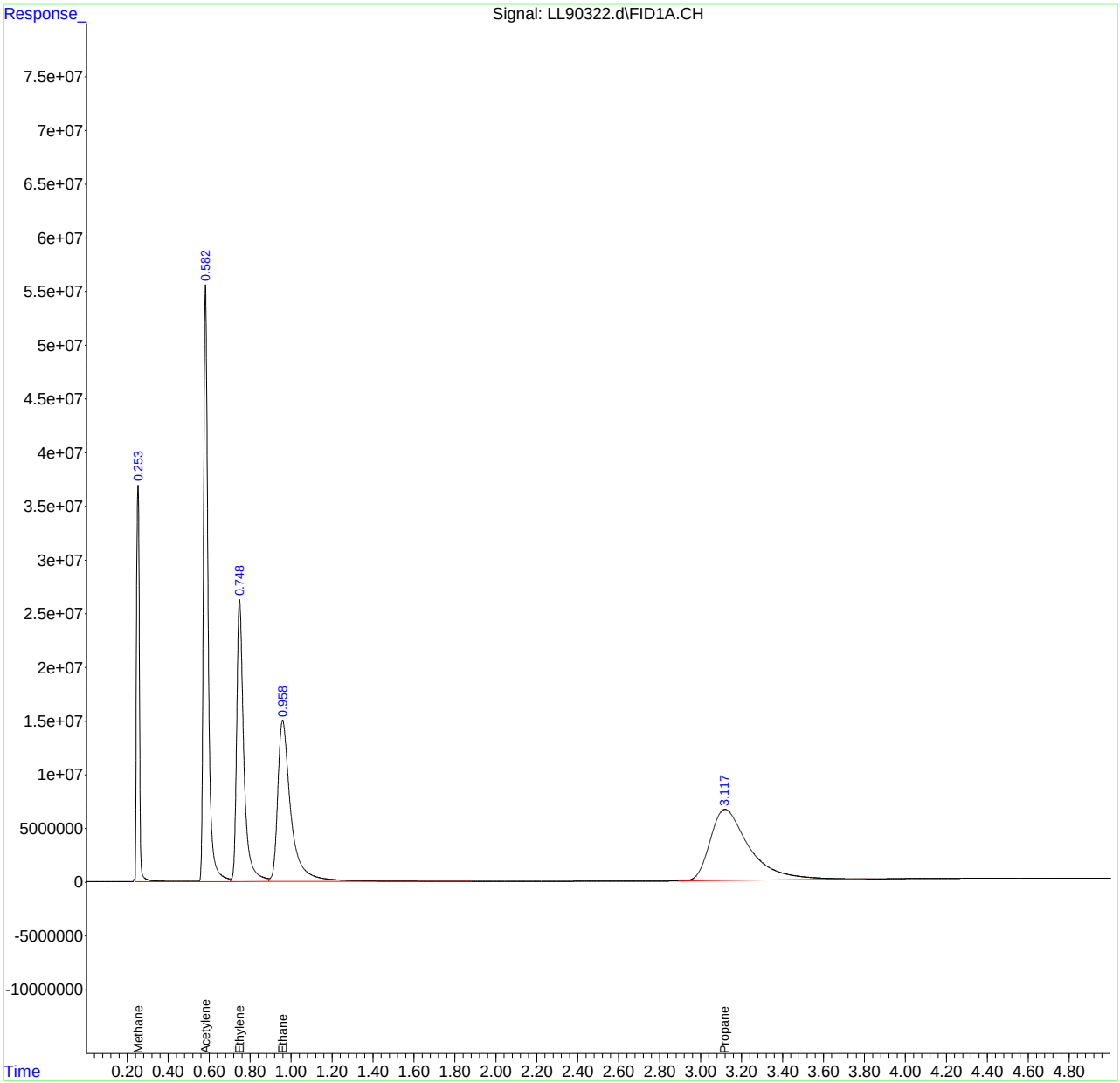
9.6.13
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:48 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90322.D
Injection Time: 06/28/24 11:33
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

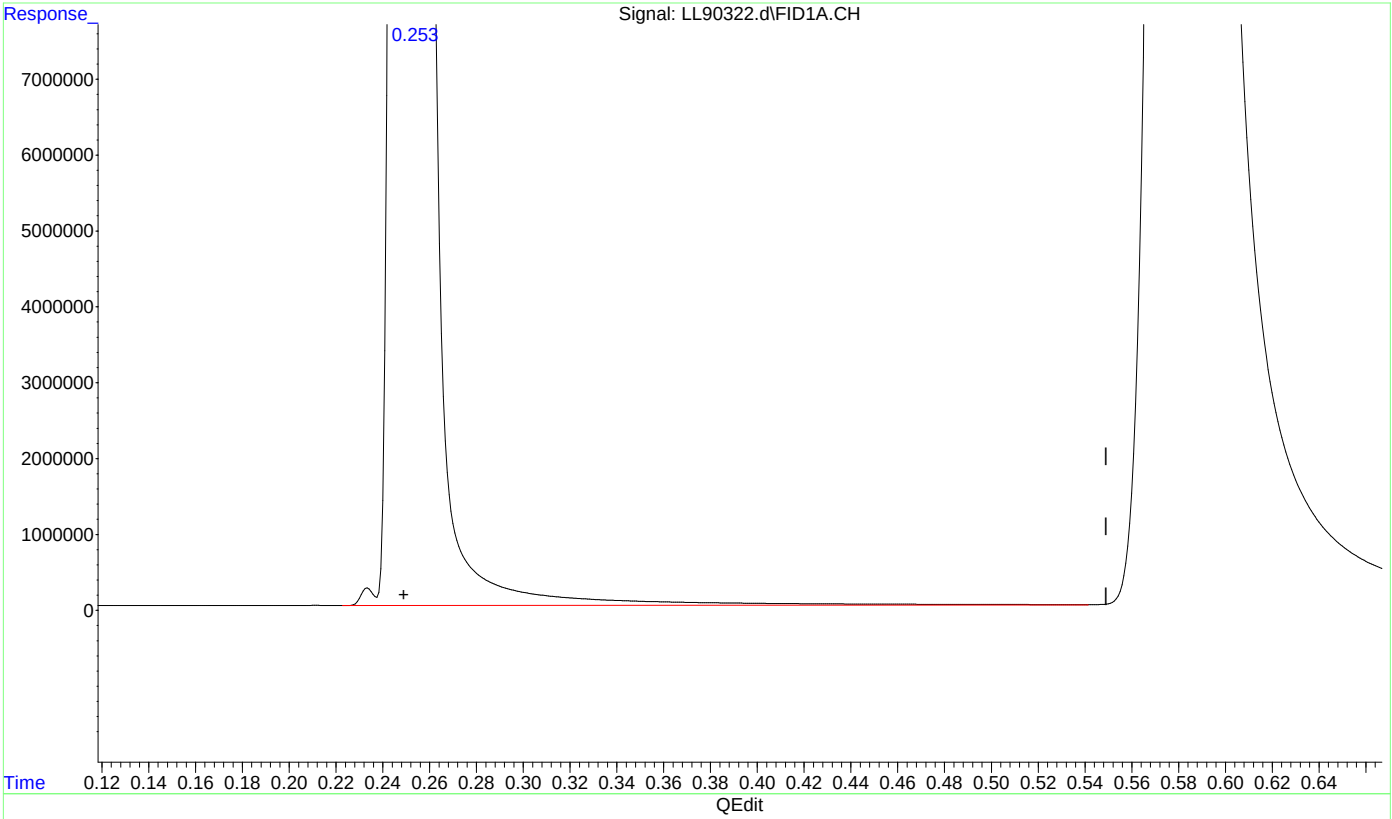
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 539.265 ppmv

response 372639850

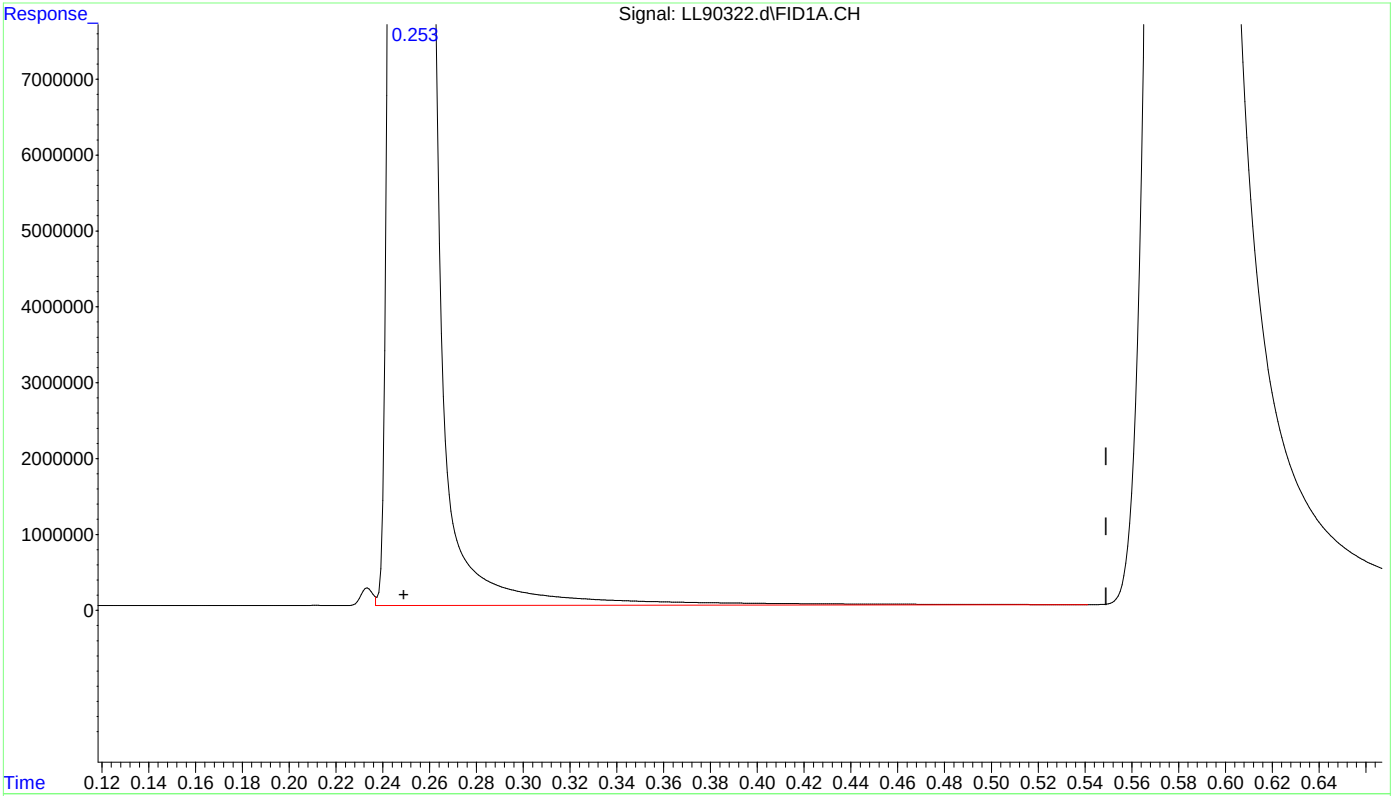
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:31 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 538.117 ppmv m

response 371846804

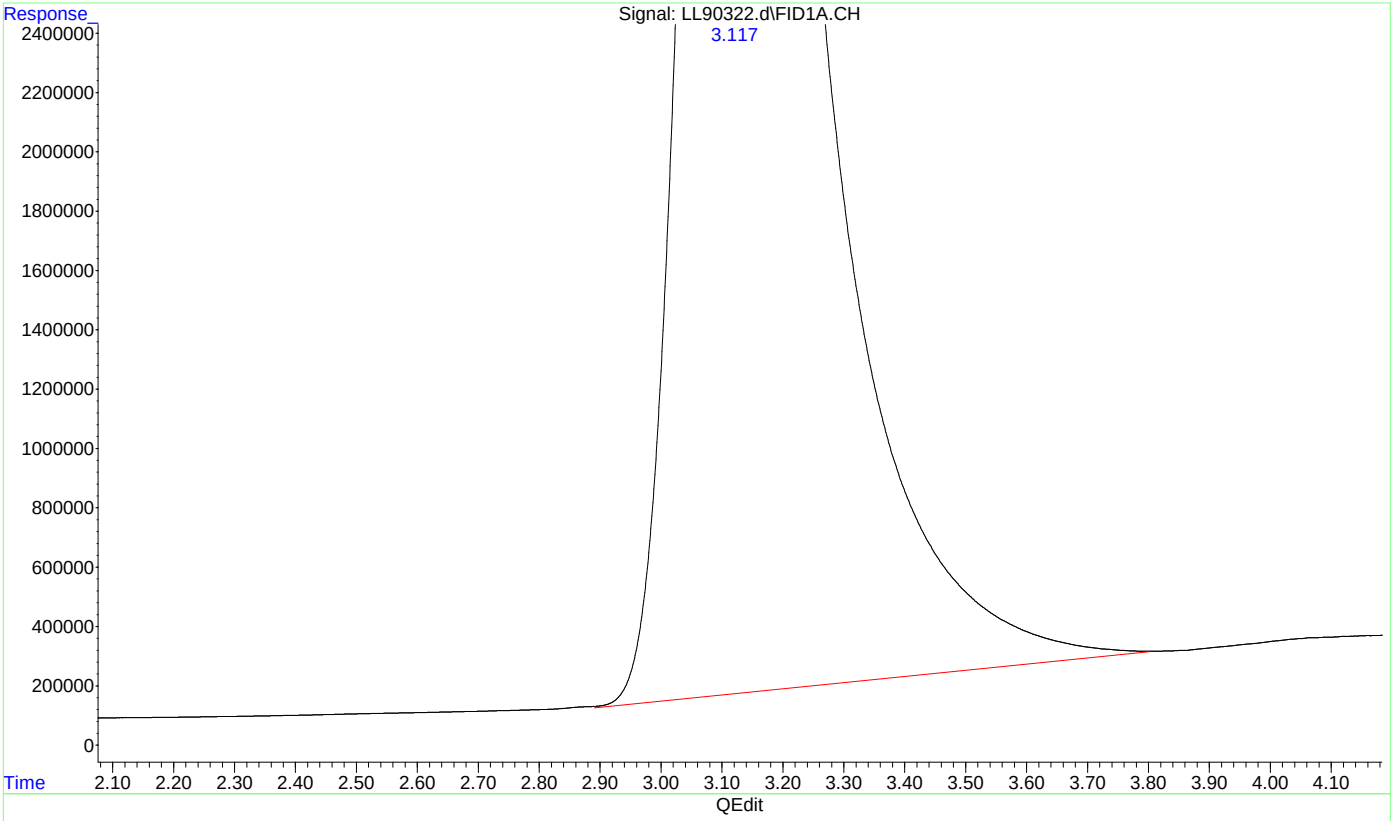
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:38 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 11:38:24 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.117min 507.283 ppmv m

response 874026245

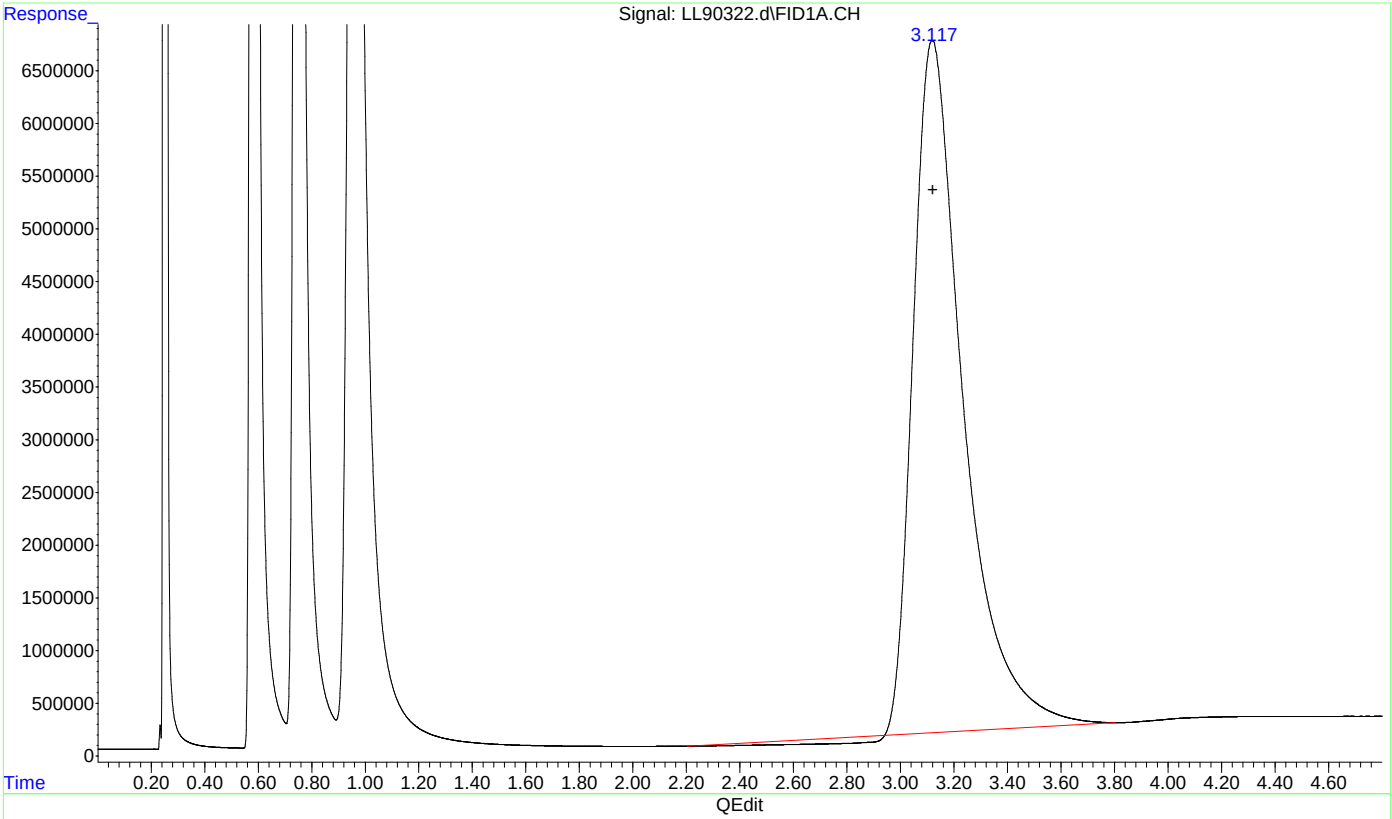
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 11:38:49 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90322.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 11:33:12
Operator : jennr
Sample : cc3025-4
Misc : gc24892,gll3145,38,21,250,5,1
ALS Vial : 13 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jul 02 08:08:32 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.118min 488.751 ppmv

response 842096409

(+) = Expected Retention Time
RSK01102024.M Tue Jul 02 08:17:13 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	701276097	1014.850	ppmv	m
2)	Acetylene	0.582	1670943642	1077.297	ppmv	
3)	Ethylene	0.748	1207189121	1018.469	ppmv	
4)	Ethane	0.958	1270234246	1024.572	ppmv	
5)	Propane	3.116	1658503804	962.593	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

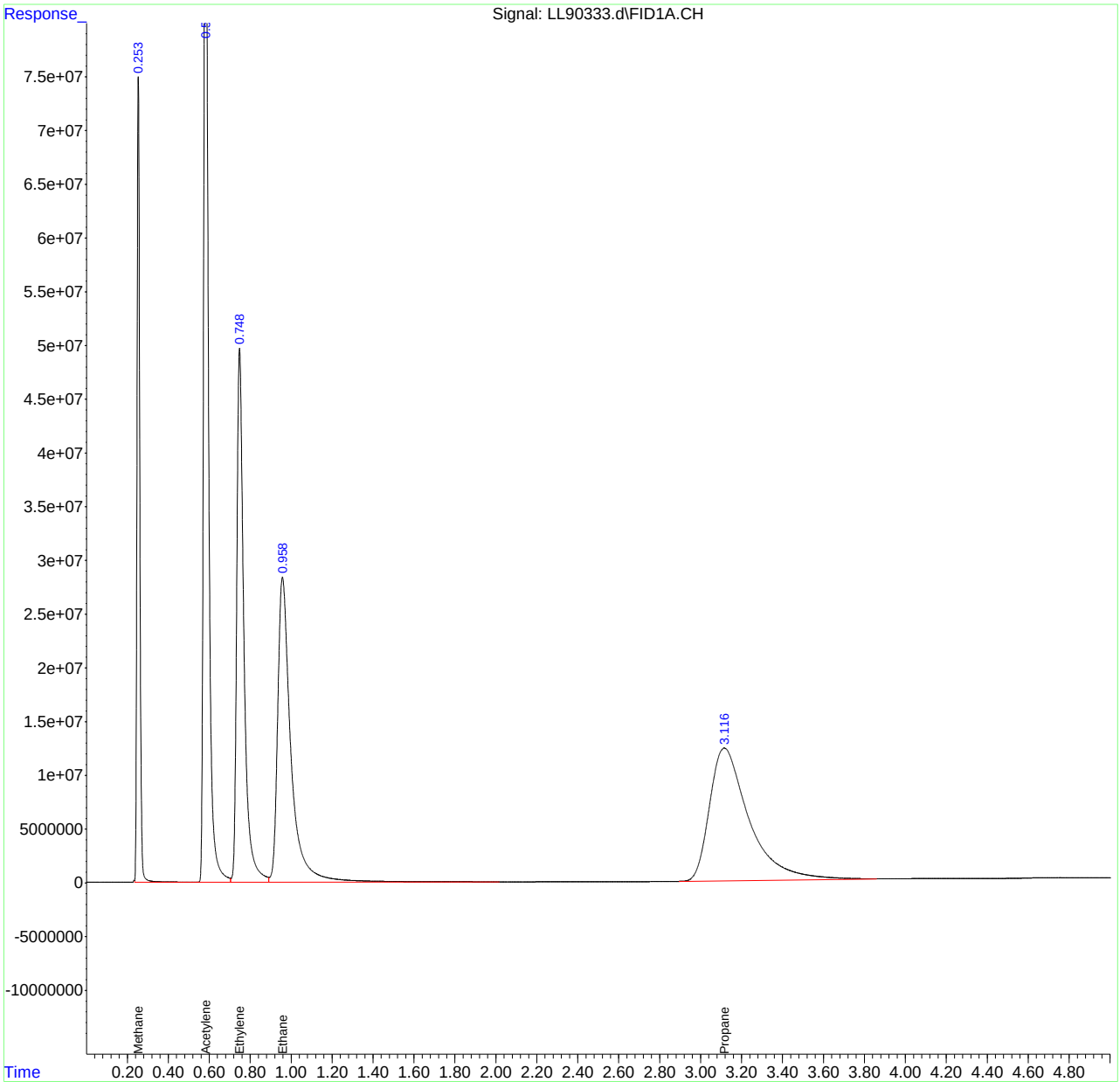
9.6.14
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:33 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-CC3025
Lab FileID: LL90333.D
Injection Time: 06/28/24 13:05
Method: RSKSOP-147/175
Analyst approved: 07/02/24 08:00 Jennifer Rich
Supervisor approved: 07/02/24 12:56 Karen Watson

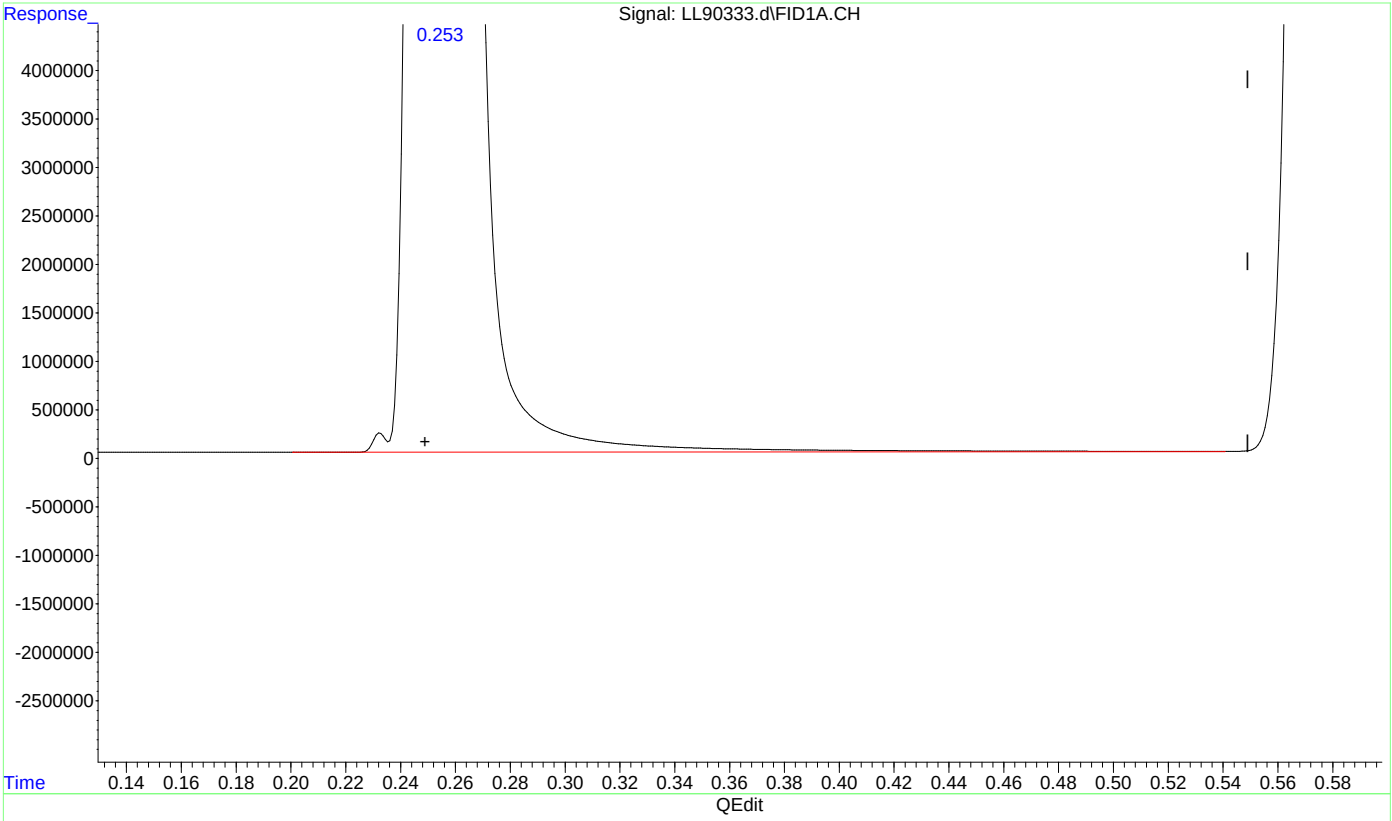
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methane	74-82-8	1	0.25	Overlapping peak
Propane	74-98-6	1	3.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.254min 1015.549 ppmv

response 701758850

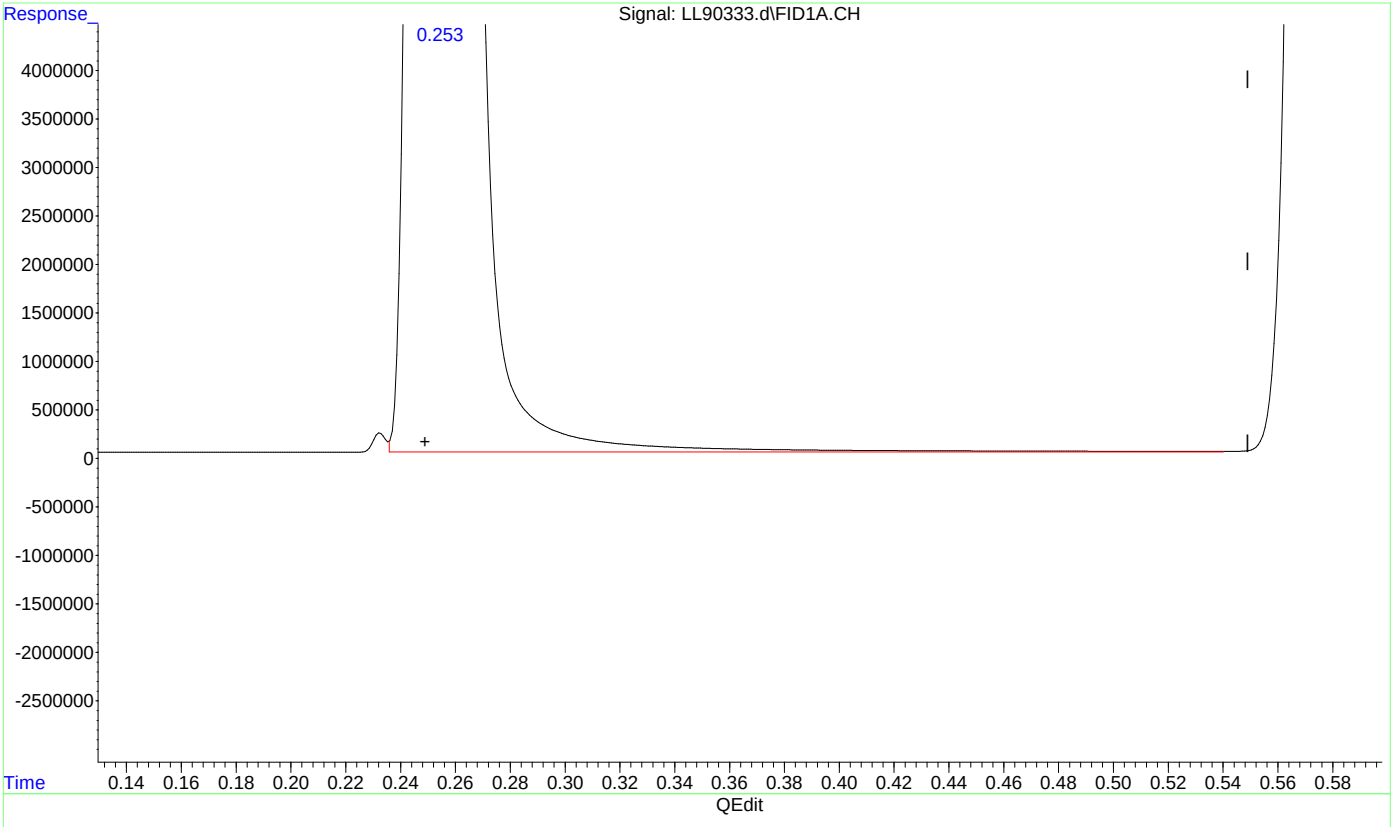
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:09 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(1) Methane

0.253min 1014.850 ppmv m

response 701276097

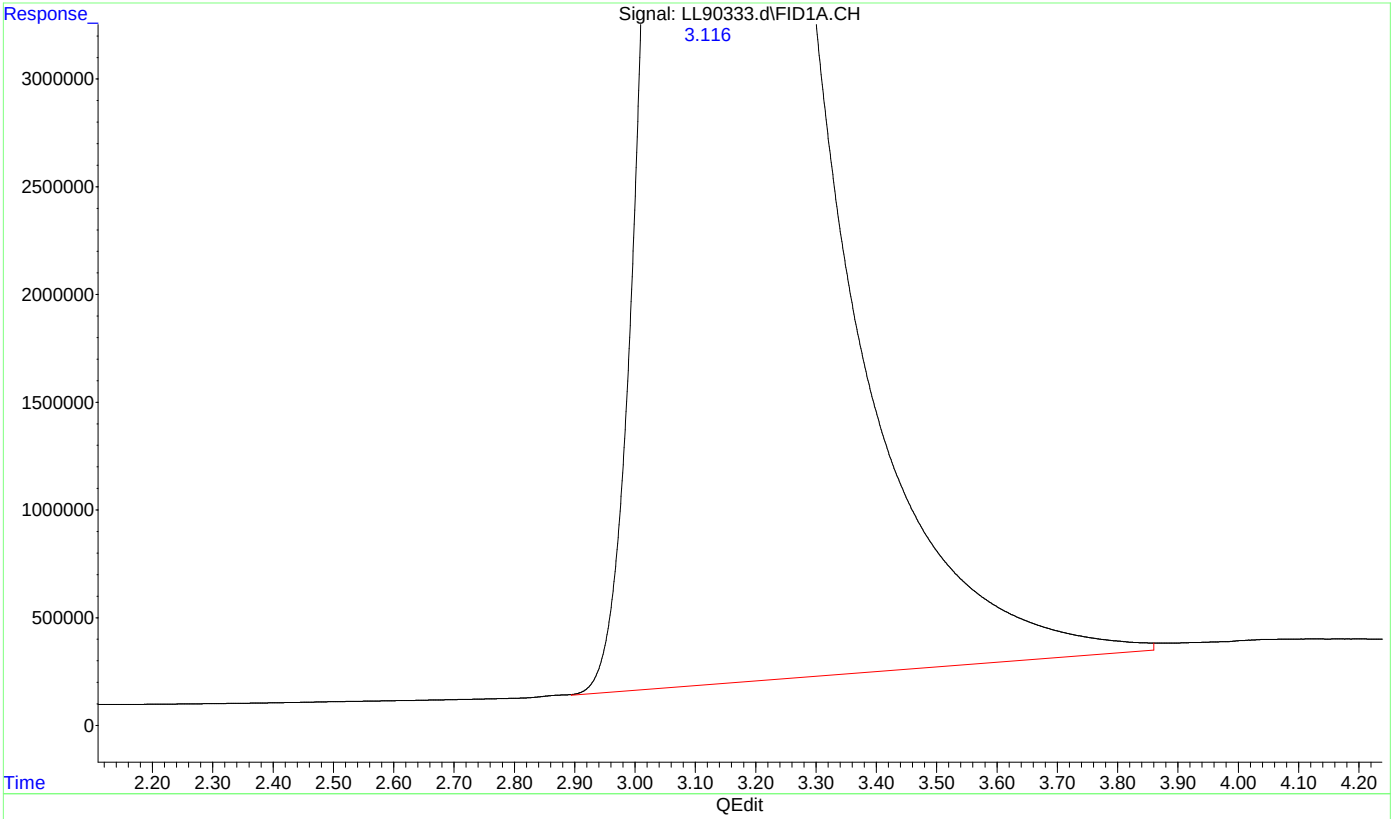
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:21 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.116min 962.593 ppmv m

response 1658503804

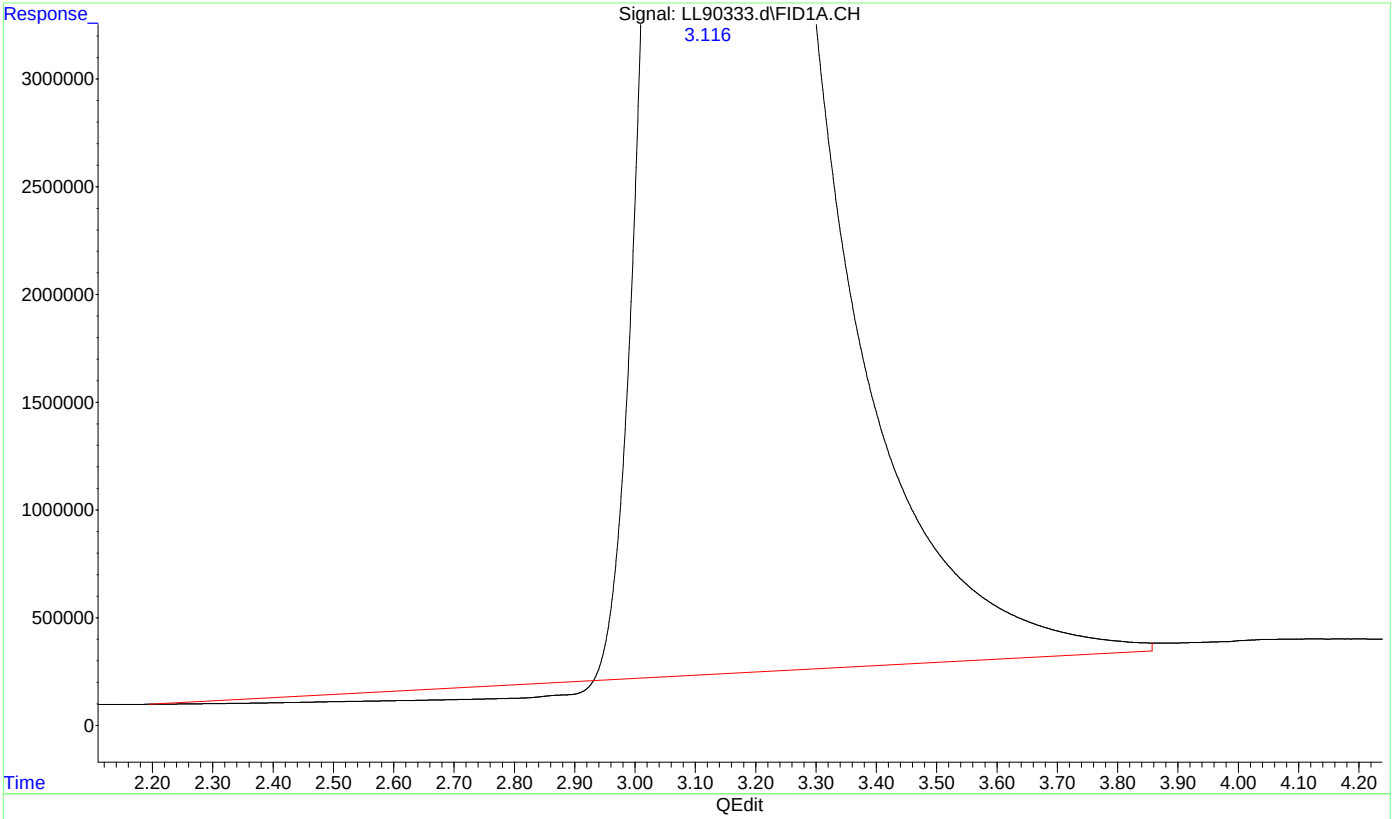
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:34 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90333.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 13:05:46
Operator : jennr
Sample : cc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 24 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 13:11:00 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.115min 943.836 ppmv

response 1626186599

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 13:11:28 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
07/02/24 12:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90341.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 14:08:41
Operator : jennr
Sample : ecc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 14:14:20 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)	Methane	0.253	685225461	991.623	ppmv	
2)	Acetylene	0.582	1638510739	1056.386	ppmv	
3)	Ethylene	0.748	1184803591	999.583	ppmv	
4)	Ethane	0.957	1250424400	1008.593	ppmv	
5)	Propane	3.112	1635165492	949.047	ppmv	m

(f)=RT Delta > 1/2 Window (m)=manual int.

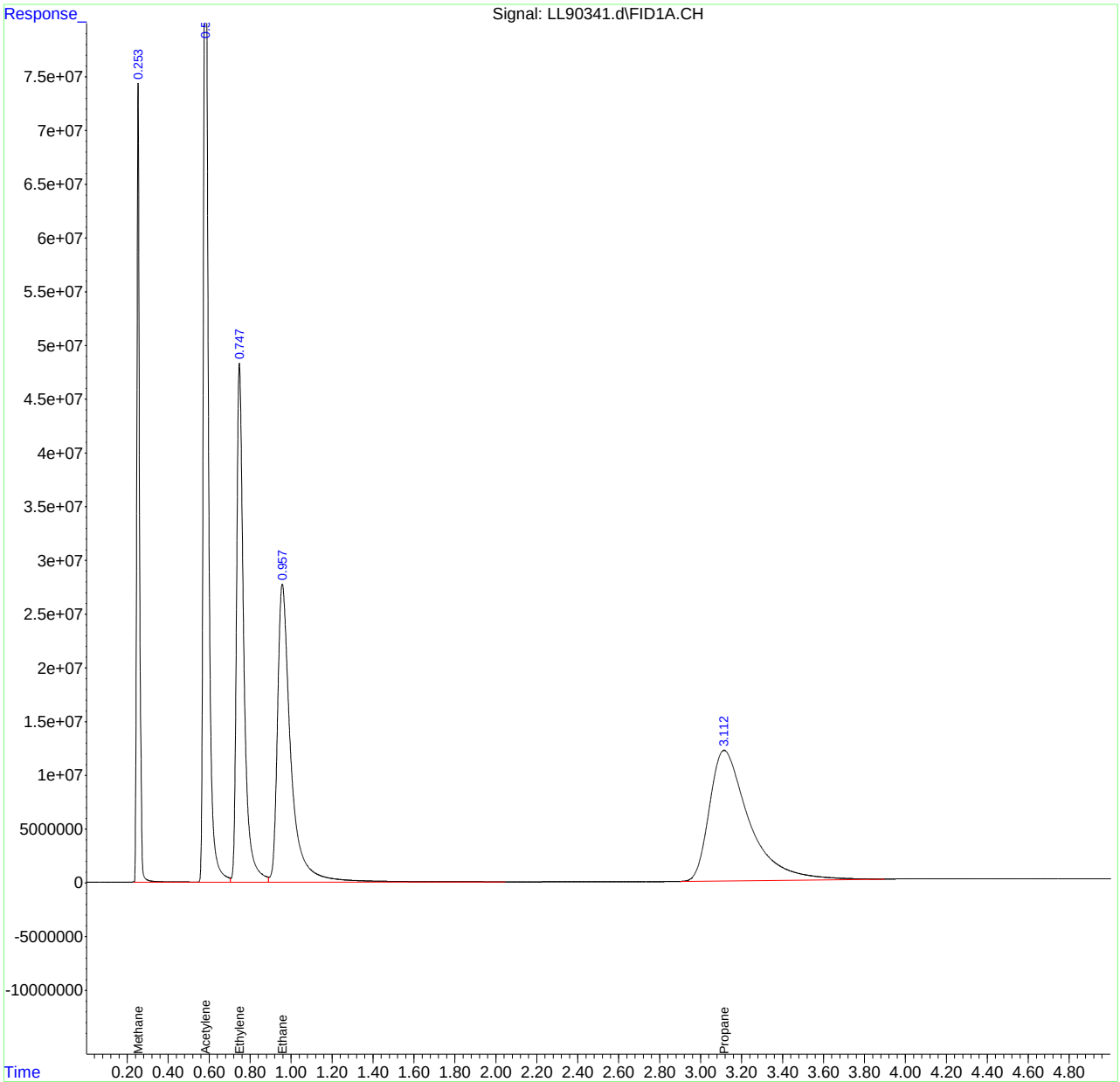
9.6.15
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90341.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 14:08:41
Operator : jennr
Sample : ecc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 14:14:20 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



Manual Integration Approval Summary

Sample Number: GLL3145-ECC3025 **Method:** RSKSOP-147/175
Lab FileID: LL90341.D **Analyst approved:** 07/02/24 08:00 Jennifer Rich
Injection Time: 06/28/24 14:08 **Supervisor approved:** 07/02/24 12:56 Karen Watson

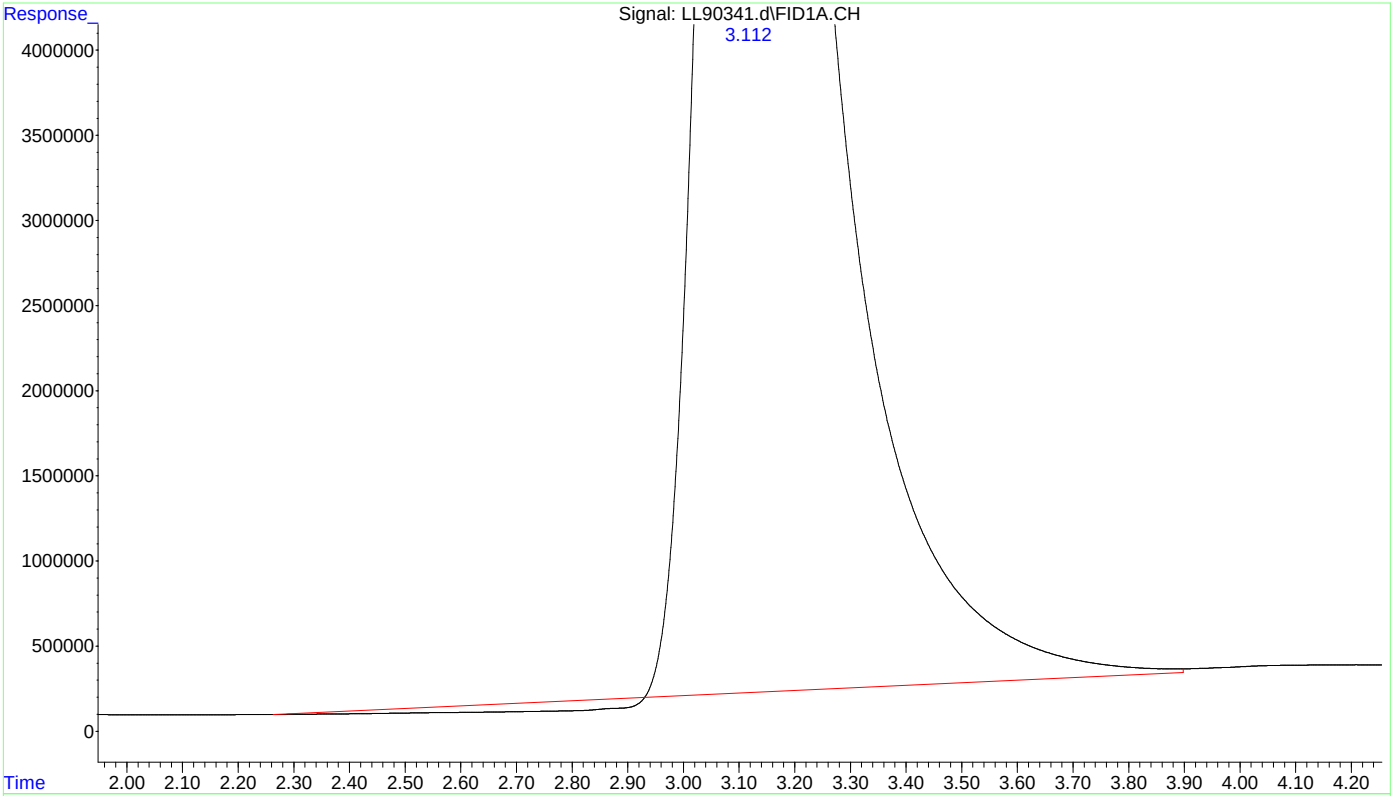
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propane	74-98-6	1	3.11	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90341.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 14:08:41
Operator : jennr
Sample : ecc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 14:14:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.114min 929.174 ppmv

response 1600925763

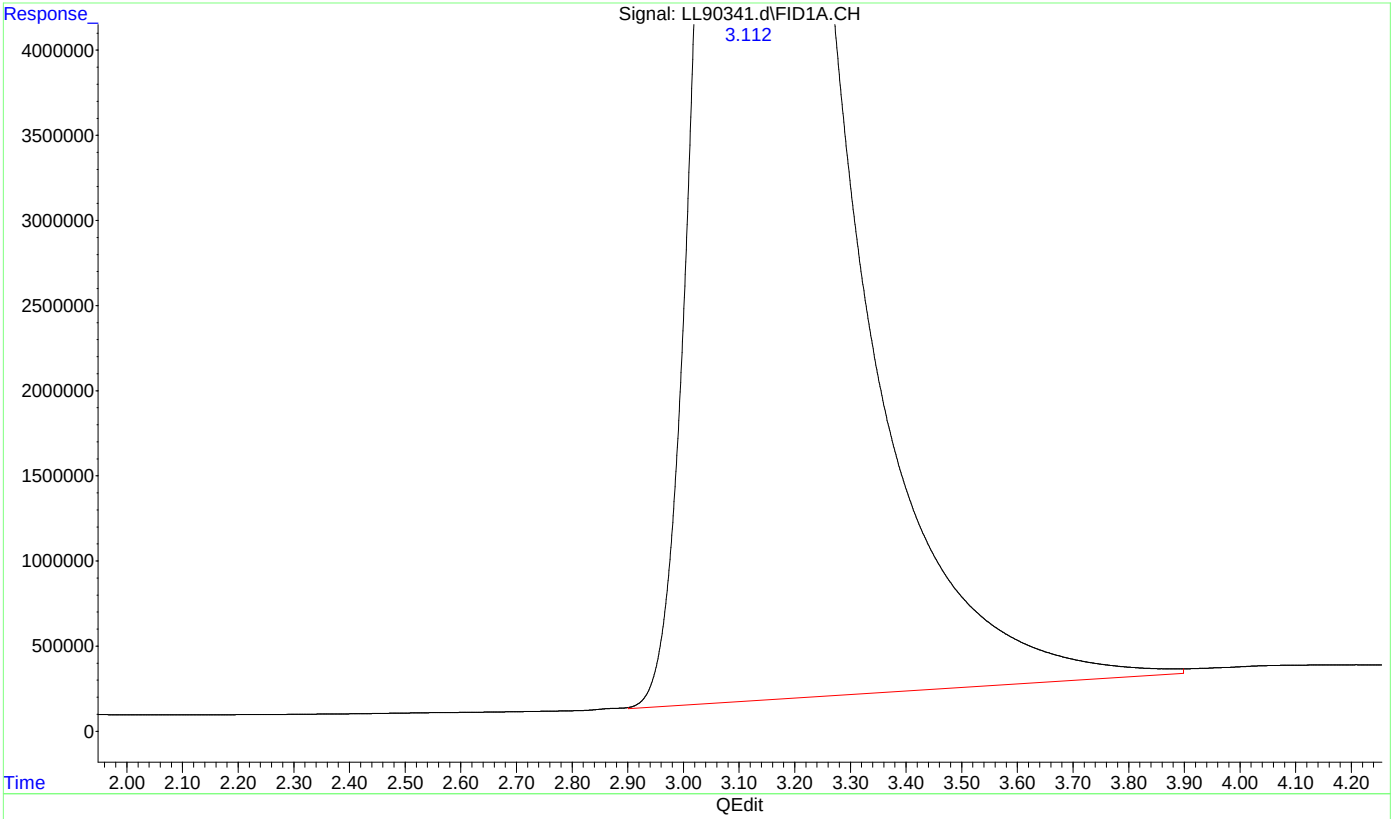
(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 14:14:16 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062824\
Data File : LL90341.d
Signal(s) : FID1A.CH
Acq On : 28-Jun-24, 14:08:41
Operator : jennr
Sample : ecc3025-5
Misc : gc24892,gll3145,38,21,500,5,1
ALS Vial : 32 Sample Multiplier: 1

Integration File: AUTOINT1.E
Quant Time: Jun 28 14:14:03 2024
Quant Method : C:\msdchem\1\methods\RSK01102024.M
Quant Title : Dissolved Gases in Water
QLast Update : Tue Feb 13 08:59:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : manual
Signal Phase : Carboxen 1006 PLOT
Signal Info : 0.53



(5) Propane

3.112min 949.047 ppmv m

response 1635165492

(+) = Expected Retention Time
RSK01102024.M Fri Jun 28 14:14:22 2024

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL
Date	1/10/2024
ANALYST:	jennr
Column Type	C1006
Detector	FID

METHODS:	NEWRSK 147/175
METHOD FILE:	RSK01102024.M
CALIB. DATE	1/10/2024
DataAqcMeth	DGMEE3.M
RUN ID:	GLL3025

STANDARDS:		**PH LOT**	230320
ICAL/CCV:	11151A,10973A,11530A	**KI PAPER LOT**	14-860
		AMBIENT TEMP.	21°C
ISTD/SURR:	NA	**THERM ID:**	170563327
		Sample ID Verified:	jennr
ICV/QC:	11171A	**DATE VERIFIED:**	1/10/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	CI	RR	Comments
LL87259	ccb, helium	-	-	-	-	-	-	-	-	-	
LL87260	mb	-	-	W	500	-	-	-	-	-	ND
LL87261	ic3025-1	10x	-	W	500	15	-	-	-	-	
LL87262	ic3025-2	-	-	W	500	15	-	-	-	-	
LL87263	ic3025-3	10x	-	W	500	1000	-	-	-	-	
LL87264	ic3025-4	-	-	W	250	1000	-	-	-	-	
LL87265	icc3025-5	-	-	W	500	1000	-	-	-	-	
LL87266	ic3025-6	-	-	W	250	10000	-	-	-	-	
LL87267	ic3025-7	-	-	W	500	10000	-	-	-	-	
LL87268	ccb, helium	-	-	-	-	-	-	-	-	-	
LL87269	icv3025-5	-	-	W	500	10000	-	-	-	-	Pass
LL87269a	cc3025-5	-	-	W	500	10000	-	-	-	-	Pass
LL87270	bs	-	-	W	500	10000	-	-	-	-	Pass
LL87271	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL87272	mb	-	-	W	500	-	-	-	-	-	ND
LL87273	fc12419-1B	1x	7	W	500	-	-	1	N	-	✔
LL87274	fc12419-2B	1x	3	W	500	-	-	1	N	-	✔
LL87275	fc12419-4B	1x	3	W	500	-	-	1	N	10x	Methane offscale
LL87276	fc12419-5B	1x	6	W	500	-	-	1	N	-	✔
LL87277	fc12419-1Bms	1x	8	W	500	10000	-	1	N	-	Pass
LL87278	fc12419-6B	1x	9	W	500	-	-	1	N	-	✔
LL87279	fc12419-6Bdup	1x	10	W	500	-	-	1	N	-	Pass
LL87280	ecc3025-4	-	-	-	250	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous Liquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

GCVOA_RSK_Log_Rev0

SGS - ORLANDO

DGMEE Preparation Logbook

Date 1-10-24

RUN ID GLL3025

pH Paper Lot# 230320

KI Paper Lot # K4-860

Method: NPWRSK 147/175

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl ? Y/N	Sample Amount (ml)	Comments
FC12419-1B	7	5.0	1	N	~~38.0~~ 39.0 JK	
FC12419-2B	3	5.0	1	N	37.5	
FC12419-4B	3	5.0	1	N	38.0	
FC12419-5B	6	5.0	1	N	38.0	
FC12419-1B	8	5.0	1	N	37.5	
~~FC12419-4~~	~~4~~	~~5.0~~				
FC12419-6B	9	4.9	1	N	38.0	
FC12419-6B	10	5.1	1	N	38.0	

JK 1-10-24

Analyst: Jennifer R.

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL	**METHODS**:	NEWRSK 147/175	**STANDARDS:**		**PH LOT**	211623A
Date	6/27/2024	**METHOD FILE:**	RSK01102024.M	**ICAL/CCV:**	11151A	**KI PAPER LOT**	14-860
ANALYST:	jennr	**CALIB. DATE**	1/10/2024			**AMBIENT TEMP.**	21°C
Column Type	C1006	**DataAqcMeth**	DGMEE3.M	**ISTD/SURR:**	NA	**THERM ID:**	170563327
Detector	FID					**Sample ID Verified:**	jennr
		RUN ID:	GLL3144	**ICV/QC:**	11171A	**DATE VERIFIED:**	6/27/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	Cl	RR	Comments
LL90278	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90279	cc3025-5	-	-	-	500	1000	-	-	-	-	Pass
LL90280	bs	-	-	W	500	10000	-	-	-	-	Pass
LL90281	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL90282	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90283	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90284	mb	-	-	W	500	-	-	-	-	-	Fresh DI water boiled; ND
LL90285	fc16561-5	1x	18	W	500	-	-	1	N	-	✔
LL90286	fc16561-5dup	1x	16	W	500	-	-	1	N	-	Pass
LL90287	fc16561-5ms	1x	15	W	500	10000	-	1	N	-	Pass
LL90288	fc16561-13	1x	8	W	500	-	-	1	N	-	✔
LL90289	fc16561-15	1x	6	W	500	-	-	1	N	20x	Methane offscale
LL90290	cc3025-4	-	-	-	250	1000	-	-	-	-	Pass
LL90291	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90292	fc16592-1	1x	5	W	500	-	-	1	N	-	✔
LL90293	fc16592-3	1x	5	W	500	-	-	1	N	10x	Methane offscale
LL90294	fc16592-20	1x	1	W	500	-	-	1	N	-	✔
LL90295	fc16725-1	1x	7	W	500	-	-	1	N	-	✔
LL90296	fc16725-2	1x	7	W	500	-	-	1	N	-	✔
LL90297	fc16725-6	1x	11	W	500	-	-	1	N	-	✔
LL90298	fc16725-7	1x	6	W	500	-	-	1	N	-	TB w/ J-value Methane hit
LL90299	fc16725-8	1x	7	W	500	-	-	1	N	-	✔
LL90300	fc16725-9	1x	4	W	500	-	-	1	N	-	✔
LL90301	cc3025-5	-	-	W	500	1000	-	-	-	-	Pass
LL90302	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90303	fc16559-4	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90304	fc16559-5	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90305	fc16559-6	20x	5	W	500	-	250uL(-)5mL	1	N	-	✔
LL90306	fc16561-2	2x	6	W	250	-	-	1	N	-	✔
LL90307	fc16561-6	10x	5	W	500	-	500uL(-)5mL	1	N	-	✔
LL90308	fc16561-7	10x	5	W	500	-	500uL(-)5mL	1	N	-	✔
LL90309	ecc3025-5	-	-	W	500	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

SGS - ORLANDO

DGMEE Preparation Logbook

Date 6-27-24

Method: NEW TSK147/175

RUN ID GLL3144

pH Paper Lot# 211623A

KI Paper Lot # 14-860

DI H2O boiled for 10mins, cooled for 10mins

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl? Y/N	Sample Amount (ml)	Comments
FC16561-5	18	4.9	1	N	~~38.0~~ 39.0	
FC16561-5dup	16	5.0	1	N	39.0	
FC16561-5 MS	15	5.0	1	N	39.0	
FC16561-13	8	5.0	1	N	39.0	
FC16561-15	6	5.0	1	N	38.0	
FC16592-1	5	5.0	1	N	39.0	
FC16592-3	5	5.0	1	N	38.5	
FC16592-20	1	5.1	1	N	39.0	
FC16725-1	7	5.0	1	N	38.0	
FC16725-2	7	5.0	1	N	38.5	
FC16725-6	11	5.0	1	N	39.0	
FC16725-7	6	5.0	1	N	38.5	
FC16725-8	7	4.9	1	N	38.5	
FC16725-9	4	5.0	1	N	38.0	
FC16559-4 20x	5	5.1	1	N	39.0	
FC16559-5 20x	5	5.0	1	N	39.0	
FC16559-6 20x	5	5.0	1	N	39.0	
FC16561-2 2x	6	5.0	1	N	39.0	
FC16561-6 10x	5	5.0	1	N	38.5	
FC16561-7 10x	5	5.0	1	N	38.0	

Analyst: Jennifer R.

SGS -ORLANDO

GC VOA RSK ANALYSIS LOG

Instrument	FID4-LL	**METHODS**:	NEWRSK 147/175	**STANDARDS:**		**PH LOT**	211623A
Date	6/28/2024	**METHOD FILE:**	RSK01102024.M	**ICAL/CCV:**	11151A	**KI PAPER LOT**	14-860
ANALYST:	jennr	**CALIB. DATE**	1/10/2024			**AMBIENT TEMP.**	21°C
Column Type	C1006	**DataAqcMeth**	DGMEE3.M	**ISTD/SURR:**	NA	**THERM ID:**	170563327
Detector	FID					**Sample ID Verified:**	jennr
		RUN ID:	GLL3145	**ICV/QC:**	11171A	**DATE VERIFIED:**	6/28/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Final Volume µL	STD Conc. PPM	Peaks Rationale, Peak#	pH	CI	RR	Comments
LL90310	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90311	cc3025-5	-	-	-	500	1000	-	-	-	-	Pass
LL90312	bs	-	-	W	500	10000	-	-	-	-	Pass
LL90313	bsd	-	-	W	500	10000	-	-	-	-	Pass
LL90314	mb	-	-	W	500	-	-	-	-	Y	J-value Methane hit
LL90315	mb	-	-	W	500	-	-	-	-	Y	Fresh DI water boiled; J-value Methane hit
LL90316	mb	-	-	W	500	-	-	-	-	-	ND
LL90317	fc16768-1	1x	12	W	500	-	-	1	N	-	✔
LL90318	fc16768-3	1x	8	W	500	-	-	1	N	-	✔
LL90319	fc16768-6	1x	10	W	500	-	-	1	N	-	✔
LL90320	fc16671-10	1x	4	W	500	-	-	1	N	-	✔
LL90321	fc16768-1ms	1x	8	W	500	10000	-	1	N	-	Pass
LL90322	cc3025-4	-	-	-	250	1000	-	-	-	-	Pass
LL90323	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90324	fc16768-6dup	1x	8	W	500	-	-	1	N	-	Pass
LL90325	fc16561-8	10x	6	W	500	-	500uL(-)5mL	1	N	-	✔
LL90326	fc16561-15	20x	7	W	500	-	250uL(-)5mL	1	N	-	✔
LL90327	fc16680-2	1x	8	W	500	-	-	6	N	-	✔
LL90328	fc16680-3	1x	9	W	500	-	-	6	N	-	✔
LL90329	fc16680-4	1x	7	W	500	-	-	5	N	20x	Methane offscale
LL90330	fc16680-5	1x	9	W	500	-	-	6	N	-	✔
LL90331	fc16680-6	1x	8	W	500	-	-	6	N	-	✔
LL90332	fc16680-7	1x	9	W	500	-	-	13	N	-	✔
LL90333	cc3025-5	-	-	W	500	1000	-	-	-	-	Pass
LL90334	ccb, helium	-	-	-	-	-	-	-	-	-	
LL90335	fc16671-6	1x	4	W	500	-	-	1	N	10x	Methane offscale
LL90336	fc16671-7	1x	2	W	500	-	-	1	N	20x	Methane offscale
LL90337	fc16592-3	10x	6	W	500	-	500uL(-)5mL	1	N	-	✔
LL90338	fc16768-2	1x	8	W	250	-	-	1	N	-	TB w/ J-value Methane hit
LL90339	fc16768-4	1x	7	W	500	-	-	1	N	-	✔
LL90340	fc16768-7	1x	6	W	500	-	-	1	N	-	TB w/ J-value Methane hit
LL90341	ecc3025-5	-	-	W	500	1000	-	-	-	-	Pass

Matrix: Designate "W" for Water "S" for soil, "O" for Oil, "Liq" for Non-aquous LIquid, and "TCLP" or "SPLP" for Leachate.

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

SGS - ORLANDO

DGMEE Preparation Logbook

Date 6-28-24

Method: NEWRSK147/175

RUN ID GLL3145

pH Paper Lot# 211623A

KI Paper Lot # 14-860

DI H_2O boiled for 10mins, cooled for 10mins

Sample ID	Bottle Number	Headspace Created (mL)	Sample pH	Cl? Y/N	Sample Amount (ml)	Comments
FC16768-1	12	4.9	1	N	38.5	
FC16768-3	8	5.0	1	N	38.0	
FC16768-6	10	4.9	1	N	38.5	
FC16671-10	4	5.1	1	N	38.0	
FC16768-1ms	8	5.0	1	N	39.0	
FC16768-6dup	8	5.0	1	N	38.5	
FC16561-8 10x	6	5.0	1	N	39.0	
FC16561-15 20x	7	5.0	1	N	38.0	
FC16680-2	8	5.0	6	N	38.5	
FC16680-3	9	5.0	6	N	38.0	
FC16680-4	7	5.0	5	N	38.0	
FC16680-5	9	5.1	6	N	38.5	
FC16680-6	8	5.0	6	N	38.0	
FC16680-7	9	5.1	13	N	38.0	
FC16671-6	4	5.0	1	N	38.0	
FC16671-7	2	5.0	1	N	38.0	
FC16592-3 10x	6	5.0	1	N	38.0	
FC16768-2	8	5.2	1	N	38.0	
FC16768-4	7	4.9	1	N	39.0	
FC16768-7	6	5.0	1	N	38.0	

Analyst: Jennifer R.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP40153/GN97736	0.50	0.0	mg/l	10	10.0	100.0	90-110%
Chloride	GP40153/GN97736	2.0	0.0	mg/l	50	51.9	103.8	90-110%
Nitrogen, Nitrate	GP40153/GN97736	0.10	0.0	mg/l	2.5	2.51	100.4	90-110%
Nitrogen, Nitrite	GP40153/GN97736	0.10	0.0	mg/l	2.5	2.61	104.4	90-110%
Sulfate	GP40153/GN97736	2.0	0.0	mg/l	50	50.6	101.2	90-110%
Total Organic Carbon	GP40176/GN97788	2.0	0.0	mg/l	15	15.5	103.3	90-110%

Associated Samples:
Batch GP40153: FC16592-1, FC16592-3
Batch GP40176: FC16592-1, FC16592-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP40153/GN97736	FC16591-2	mg/l	0.12 U	10	10.2	102.0	90-110%
Chloride	GP40153/GN97736	FC16591-2	mg/l	4.2	50	56.3	104.2	90-110%
Nitrogen, Nitrate	GP40153/GN97736	FC16591-2	mg/l	0.093	2.5	2.6	100.3	90-110%
Nitrogen, Nitrite	GP40153/GN97736	FC16591-2	mg/l	0.040 U	2.5	2.6	104.0	90-110%
Sulfate	GP40153/GN97736	FC16591-2	mg/l	34.9	50	83.9	98.0	90-110%
Total Organic Carbon	GP40176/GN97788	FC16586-1	mg/l	1.4	15	16.7	102.0	90-110%

Associated Samples:
Batch GP40153: FC16592-1, FC16592-3
Batch GP40176: FC16592-1, FC16592-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP40153/GN97736	FC16591-2	mg/l	0.12 U	10	10.2	0.0	15%
Chloride	GP40153/GN97736	FC16591-2	mg/l	4.2	50	56.3	0.0	15%
Nitrogen, Nitrate	GP40153/GN97736	FC16591-2	mg/l	0.093	2.5	2.6	0.0	15%
Nitrogen, Nitrite	GP40153/GN97736	FC16591-2	mg/l	0.040 U	2.5	2.6	0.0	15%
Sulfate	GP40153/GN97736	FC16591-2	mg/l	34.9	50	83.9	0.0	15%
Total Organic Carbon	GP40176/GN97788	FC16586-1	mg/l	1.4	15	17.2	2.9	20%

Associated Samples:
Batch GP40153: FC16592-1, FC16592-3
Batch GP40176: FC16592-1, FC16592-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062101.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97736
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:40	GN97736-STD1	1		STDA
15:01	GN97736-STD2	1		STDB
15:21	GN97736-STD3	1		STDC
15:42	GN97736-STD4	1		STDD
16:03	GN97736-STD5	1		STDE
16:23	GN97736-STD6	1		STDF
16:44	GN97736-STD7	1		STDG
17:04	GN97736-STD8	1		STDH
17:25	GN97736-STD9	1		STDI
17:45	GN97736-STD10	1		STDJ
18:06	GN97736-STD11	1		STDK
18:27	GN97736-ICV1	1		
18:47	GN97736-ICB1	1		
19:08	GN97736-CRI1	1		
19:28	GN97736-CCV1	1		
19:49	GN97736-CCB1	1		
13:06	GN97736-CCV2	1		
13:32	GP40153-MB1	1		
13:52	GP40153-B1	1		
15:35	FC16592-1	10		
16:01	FC16592-3	10		
16:22	ZZZZZZ	1		
16:42	FC16591-2	1		(sample used for QC only; not part of login FC16592)
17:03	GP40153-S1	1		
17:24	GP40153-S2	1		
17:44	ZZZZZZ	1		
18:05	ZZZZZZ	1		
18:25	GN97736-CCV3	1		
18:46	GN97736-CCB2	1		
19:07	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:48	ZZZZZZ	1		
20:08	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062101.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN97736
Parameters: Chloride,Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:29	FC16591-9	1		(sample used for QC only; not part of login FC16592)
20:50	GP40153-S3	1		
21:10	GP40153-S4	1		
21:31	ZZZZZZ	1		
21:51	ZZZZZZ	1		
22:12	ZZZZZZ	500		
22:32	GN97736-CCV4	1		
22:53	GN97736-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: 42024062101.CSV Date Analyzed: 05/20/24 Methods: EPA 300/SW846 9056A
Run ID: GN97736 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN97736-ICV1	Chloride	52.7	2.0	0.80	50	105.4	90-110
GN97736-ICV1	Nitrogen, Nitrate	2.53	0.10	0.040	2.5	101.2	90-110
GN97736-ICV1	Sulfate	50.4	2.0	0.60	50	100.8	90-110
GN97736-ICB1	Chloride	0.80 U	2.0	0.80			
GN97736-ICB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97736-ICB1	Sulfate	0.60 U	2.0	0.60			
GN97736-CRI1	Chloride	1.07	2.0	0.80	1	107.0	50-150
GN97736-CRI1	Nitrogen, Nitrate	0.121	0.10	0.040	.1	121.0	50-150
GN97736-CRI1	Sulfate	0.776	2.0	0.60	1	77.6	50-150
GN97736-CCV1	Chloride	50.4	2.0	0.80	50	100.8	90-110
GN97736-CCV1	Nitrogen, Nitrate	2.44	0.10	0.040	2.5	97.6	90-110
GN97736-CCV1	Sulfate	50.3	2.0	0.60	50	100.6	90-110
GN97736-CCB1	Chloride	0.80 U	2.0	0.80			
GN97736-CCB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97736-CCB1	Sulfate	0.60 U	2.0	0.60			
GN97736-CCV2	Chloride	53.1	2.0	0.80	50	106.2	90-110
GN97736-CCV2	Nitrogen, Nitrate	2.60	0.10	0.040	2.5	104.0	90-110
GN97736-CCV2	Sulfate	51.7	2.0	0.60	50	103.4	90-110
GN97736-CCV3	Chloride	53.3	2.0	0.80	50	106.6	90-110
GN97736-CCV3	Nitrogen, Nitrate	2.60	0.10	0.040	2.5	104.0	90-110
GN97736-CCV3	Sulfate	50.9	2.0	0.60	50	101.8	90-110
GN97736-CCB2	Chloride	0.80 U	2.0	0.80			
GN97736-CCB2	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97736-CCB2	Sulfate	0.60 U	2.0	0.60			
GN97736-CCV4	Chloride	53.4	2.0	0.80	50	106.8	90-110
GN97736-CCV4	Nitrogen, Nitrate	2.60	0.10	0.040	2.5	104.0	90-110
GN97736-CCV4	Sulfate	51.0	2.0	0.60	50	102.0	90-110
GN97736-CCB3	Chloride	0.80 U	2.0	0.80			
GN97736-CCB3	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN97736-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240701W1.TXT Date Analyzed: 07/01/24 Methods: SM5310 B-14/SW9060A
Analyst: FN Run ID: GN97788
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:41	GN97788-CCV1	1		
12:03	GP40176-MB1	1		
12:25	GP40176-B1	1		
12:47	FC16586-1	1		(sample used for QC only; not part of login FC16592)
13:11	GP40176-S1	1		
13:34	GP40176-S2	1		
13:56	FC16588-4	1		(sample used for QC only; not part of login FC16592)
14:18	GP40176-S3	1		
14:40	GP40176-S4	1		
15:03	FC16592-1	1		
15:25	FC16592-3	1		
15:50	ZZZZZZ	1		
16:12	GN97788-CCV2	1		
16:36	GN97788-CCB1	1		
16:57	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:37	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:41	ZZZZZZ	1		
19:01	ZZZZZZ	1		
19:23	ZZZZZZ	1		
19:47	ZZZZZZ	1		
20:09	ZZZZZZ	1		
20:30	GN97788-CCV3	1		
20:54	GN97788-CCB2	1		
21:14	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:59	ZZZZZZ	2		
22:23	ZZZZZZ	1		
22:43	ZZZZZZ	1		
23:05	FC16590-1	1		(sample used for QC only; not part of login FC16592)
23:28	GP40177-S1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240701W1.TXT Date Analyzed: 07/01/24 Methods: SM5310 B-14/SW9060A
Analyst: FN Run ID: GN97788
Parameters: Total Organic Carbon

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:51	GP40177-S2	1		
00:14	ZZZZZZ	2		
00:36	ZZZZZZ	1		
00:58	GN97788-CCV4	1		
01:22	GP40177-MB1	1		
01:42	GP40177-B1	1		
02:05	ZZZZZZ	2		
02:28	ZZZZZZ	1		
02:47	ZZZZZZ	1		
03:07	ZZZZZZ	1		
03:28	ZZZZZZ	1		
03:50	ZZZZZZ	1		
04:09	FC16778-2	1		(sample used for QC only; not part of login FC16592)
04:32	GP40177-S3	1		
04:55	GP40177-S4	1		
05:18	GN97788-CCV5	1		
05:39	GN97788-CCB3	1		
05:58	ZZZZZZ	1		
06:22	ZZZZZZ	1		
06:46	ZZZZZZ	1		
07:10	ZZZZZZ	1		
07:33	ZZZZZZ	1		
07:54	ZZZZZZ	1		
08:16	ZZZZZZ	1		
08:37	ZZZZZZ	1		
08:57	ZZZZZZ	1		
09:18	ZZZZZZ	1		
09:40	GN97788-CCV6	1		
10:02	GN97788-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC16592
Account: EAENYS - EA Engineering
Project: Former Seneca Army Depot; Romulus, NY

File ID: C240701W1.TXT Date Analyzed: 07/01/24 Methods: SM5310 B-14/SW9060A
Run ID: GN97788 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN97788-CCV1	Total Organic Carbon	15.2	2.0	0.54	15	101.3	90-110
GN97788-CCV2	Total Organic Carbon	15.2	2.0	0.54	15	101.3	90-110
GN97788-CCB1	Total Organic Carbon	0.54 U	2.0	0.54			
GN97788-CCV3	Total Organic Carbon	15.3	2.0	0.54	15	102.0	90-110
GN97788-CCB2	Total Organic Carbon	0.54 U	2.0	0.54			
GN97788-CCV4	Total Organic Carbon	15.3	2.0	0.54	15	102.0	90-110
GN97788-CCV5	Total Organic Carbon	15.3	2.0	0.54	15	102.0	90-110
GN97788-CCB3	Total Organic Carbon	0.54 U	2.0	0.54			
GN97788-CCV6	Total Organic Carbon	15.3	2.0	0.54	15	102.0	90-110
GN97788-CCB4	Total Organic Carbon	0.54 U	2.0	0.54			

(!) Outside of QC limits

General Chemistry

Raw Data

MagIC Net

2024-06-22 5:37:41

Sample data

Ident	STDK	
Sample type	Standard 10	
Determination start	2024-05-20 18:06:34 UTC-4	
Method	SGS In-Vial Anions191003A	
Operator	JR	

Anions

Data source	Conductivity detector 1 (930 Compact IC Flex 1)	
Channel	Conductivity	
Recording time	16.0	min
Integration	Automatically	
Column type	Metrosep A Supp 5 - 150/4.0	
Eluent composition	not defined	
Flow	0.700	mL/min
Maximum flow monitored	yes	
Pressure	7.76	MPa
Maximum pressure monitored	yes	
Temperature	30.0	°C

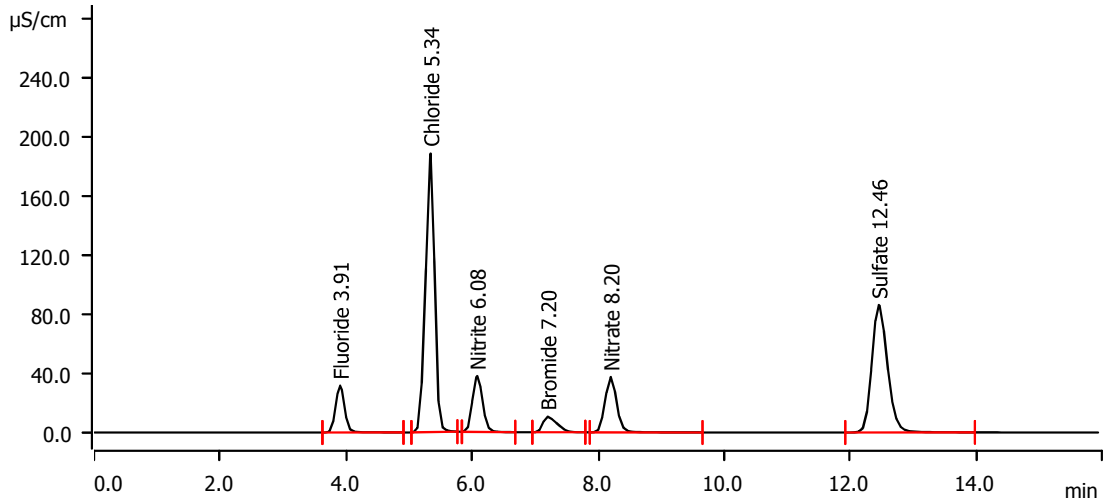
Pressure

Data source	Pump (930 Compact IC Flex 1)	
Channel	System pressure	
Recording time	17.5	min
Integration	Automatically	
Flow	-----	mL/min
Maximum flow monitored	no	
Pressure	-----	MPa
Maximum pressure monitored	no	
Temperature	-----	℃

MagIC Net

2024-06-22 5:37:41

Anions

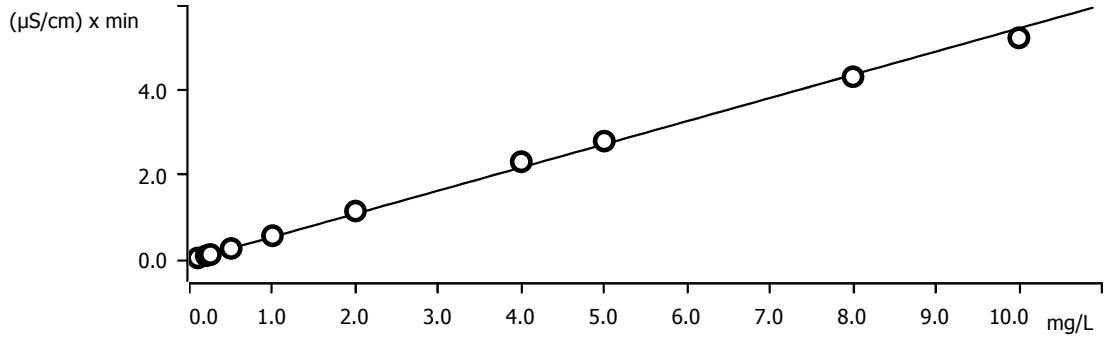


Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration mg/L	Component name
1	3.907	5.2381	31.601	9.585	Fluoride
2	5.343	31.6808	188.373	99.050	Chloride
3	6.082	7.0786	37.786	9.761	Nitrite
4	7.202	2.7628	10.582	20.408	Bromide
5	8.203	8.0529	37.435	10.061	Nitrate
6	12.455	24.7509	86.199	98.150	Sulfate

MagIC Net

2024-06-22 5:37:41

Fluoride (Anions)



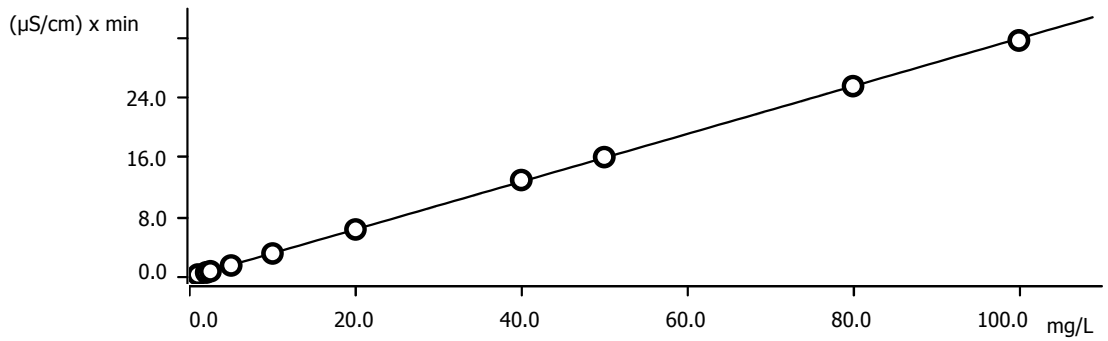
Function: . . . . . *A = - 6.43309E-3 + 0.0273591× Q*

Relative standard deviation . . . . . *5.926857 %*

Correlation coefficient *0.998755*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0457	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.0971	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1260	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.2701	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.5711	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.1532	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.3170	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	2.8043	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	4.3242	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	5.2427	STDK	2024-05-20 18:06:34 UTC-4

Chloride (Anions)



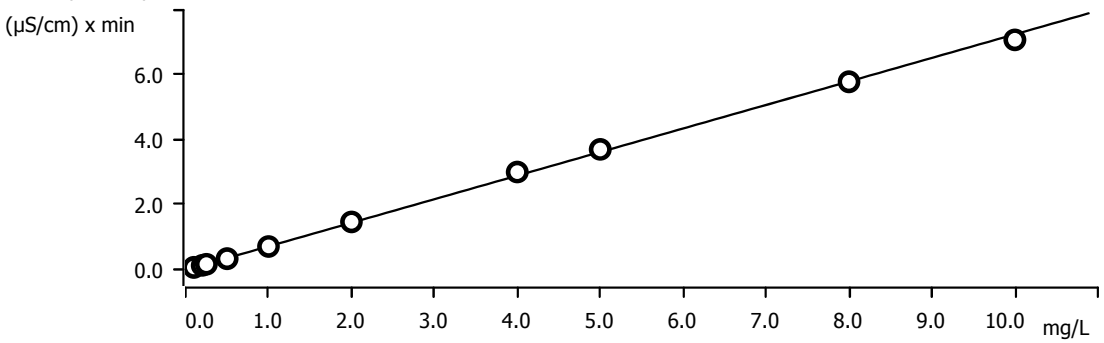
Function: . . . . . *A = - 0.0835196 + 0.0160345× Q*

Relative standard deviation . . . . . *1.273519 %*

Correlation coefficient *0.999946*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2539	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5420	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.7046	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.4822	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	3.1027	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	20.000	20.0	1.0	1.0	6.3213	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	12.9662	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	16.0545	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	25.5876	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	31.7334	STDK	2024-05-20 18:06:34 UTC-4

Nitrite (Anions)



Function: . . . . . *A = - 0.0237234 + 0.0363814× Q*

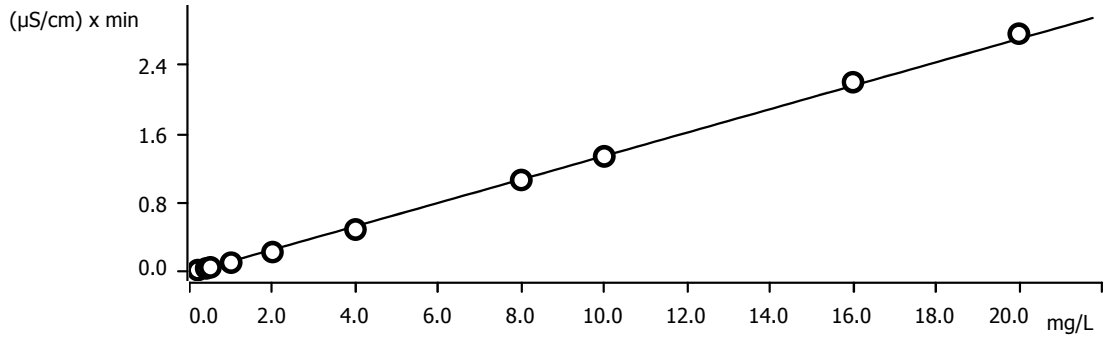
Relative standard deviation . . . . . *3.557326 %*

Correlation coefficient *0.999571*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0548	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1154	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3233	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7001	STDF	2024-05-20 16:23:35 UTC-4

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	2.000	20.0	1.0	1.0	1.4597	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	2.9983	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.6991	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	5.7865	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	7.0802	STDK	2024-05-20 18:06:34 UTC-4

Bromide (Anions)



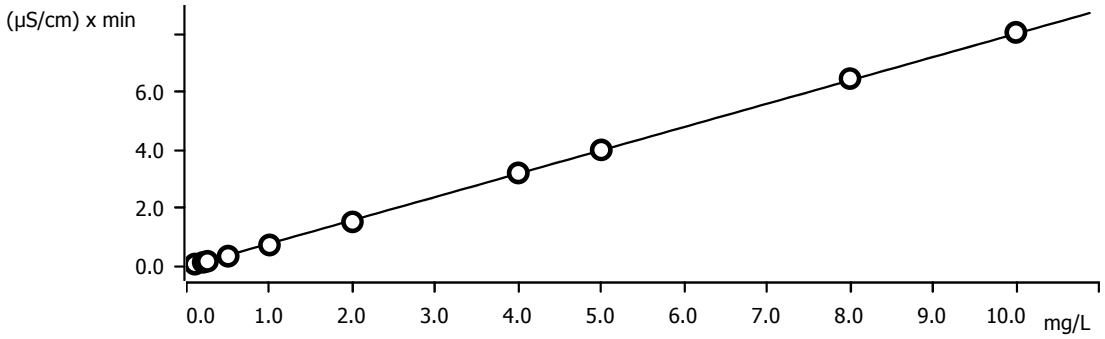
Function: . . . . . *A = - 0.0148506 + 6.80534E-3× Q*

Relative standard deviation . . . . . *3.810724 %*

Correlation coefficient *0.999546*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.200	20.0	1.0	1.0	0.0192	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.400	20.0	1.0	1.0	0.0395	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.500	20.0	1.0	1.0	0.0512	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	1.000	20.0	1.0	1.0	0.1063	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	2.000	20.0	1.0	1.0	0.2292	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	4.000	20.0	1.0	1.0	0.4910	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	8.000	20.0	1.0	1.0	1.0665	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	10.000	20.0	1.0	1.0	1.3418	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	16.000	20.0	1.0	1.0	2.2044	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	20.000	20.0	1.0	1.0	2.7680	STDK	2024-05-20 18:06:34 UTC-4

Nitrate (Anions)



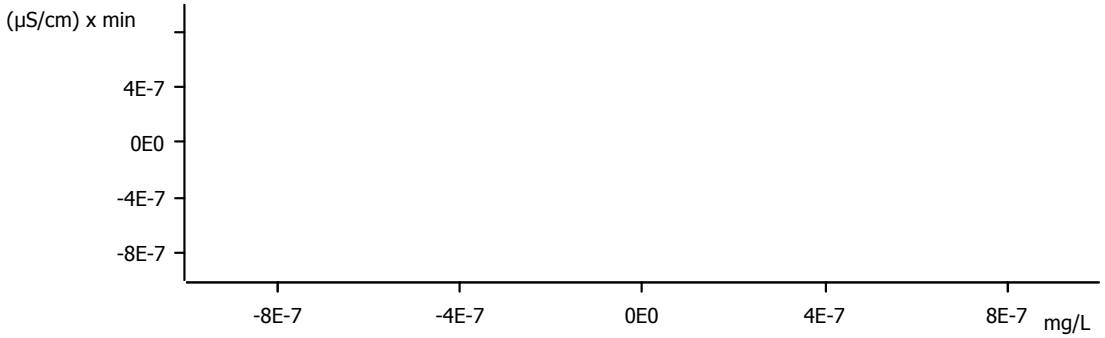
Function: . . . . . *A = - 0.0389899 + 0.0402143× Q*

Relative standard deviation . . . . . *1.750039 %*

Correlation coefficient *0.999902*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.100	20.0	1.0	1.0	0.0568	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.200	20.0	1.0	1.0	0.1184	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.250	20.0	1.0	1.0	0.1542	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.500	20.0	1.0	1.0	0.3277	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	1.000	20.0	1.0	1.0	0.7141	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	2.000	20.0	1.0	1.0	1.5133	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	4.000	20.0	1.0	1.0	3.2038	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	5.000	20.0	1.0	1.0	3.9974	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	8.000	20.0	1.0	1.0	6.4597	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	10.000	20.0	1.0	1.0	8.0532	STDK	2024-05-20 18:06:34 UTC-4

Phosphate (Anions)



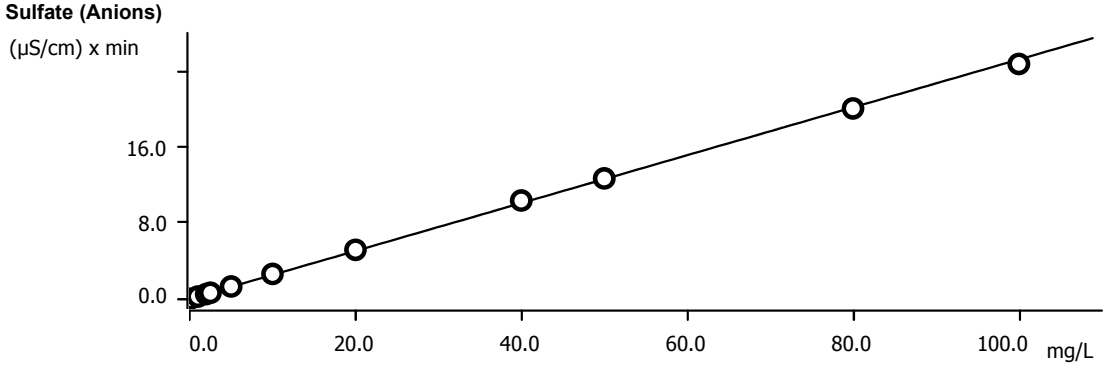
Function: . . . . . .

Relative standard deviation . . . . . *invalid %*

Correlation coefficient . . . . . *invalid*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	n. d.	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	0.000	20.0	1.0	1.0	n. d.	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	0.000	20.0	1.0	1.0	n. d.	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	0.000	20.0	1.0	1.0	n. d.	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	0.000	20.0	1.0	1.0	n. d.	STDF	2024-05-20 16:23:35 UTC-4
Standard 6	1	0.000	20.0	1.0	1.0	n. d.	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	0.000	20.0	1.0	1.0	n. d.	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	0.000	20.0	1.0	1.0	n. d.	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	0.000	20.0	1.0	1.0	n. d.	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	0.000	20.0	1.0	1.0	n. d.	STDK	2024-05-20 18:06:34 UTC-4

Sulfate (Anions)



Function: . . . . . *A = 1.16317E-3 + 0.0126081× Q*

Relative standard deviation . . . . . *2.720458 %*

Correlation coefficient *0.999778*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	0.0011	STDA	2024-05-20 14:40:36 UTC-4
Standard 1	1	1.000	20.0	1.0	1.0	0.2380	STDB	2024-05-20 15:01:11 UTC-4
Standard 2	1	2.000	20.0	1.0	1.0	0.5022	STDC	2024-05-20 15:21:48 UTC-4
Standard 3	1	2.500	20.0	1.0	1.0	0.6367	STDD	2024-05-20 15:42:25 UTC-4
Standard 4	1	5.000	20.0	1.0	1.0	1.3052	STDE	2024-05-20 16:03:00 UTC-4
Standard 5	1	10.000	20.0	1.0	1.0	2.6269	STDF	2024-05-20 16:23:35 UTC-4

MagIC Net

2024-06-22 5:37:41

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	20.000	20.0	1.0	1.0	5.1680	STDG	2024-05-20 16:44:11 UTC-4
Standard 7	1	40.000	20.0	1.0	1.0	10.3573	STDH	2024-05-20 17:04:46 UTC-4
Standard 8	1	50.000	20.0	1.0	1.0	12.6883	STDI	2024-05-20 17:25:23 UTC-4
Standard 9	1	80.000	20.0	1.0	1.0	20.0613	STDJ	2024-05-20 17:45:59 UTC-4
Standard 10	1	100.000	20.0	1.0	1.0	24.7507	STDK	2024-05-20 18:06:34 UTC-4

MagIC Net

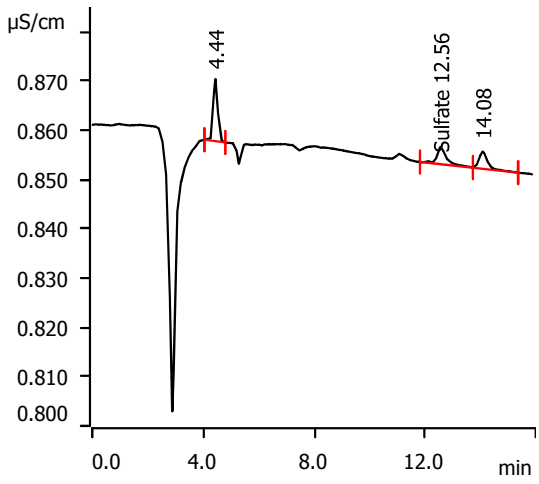
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDA
Sample type . . . . . Standard 100
Determination start 2024-05-20 14:40:36
Dilution factor 1.00

Anions

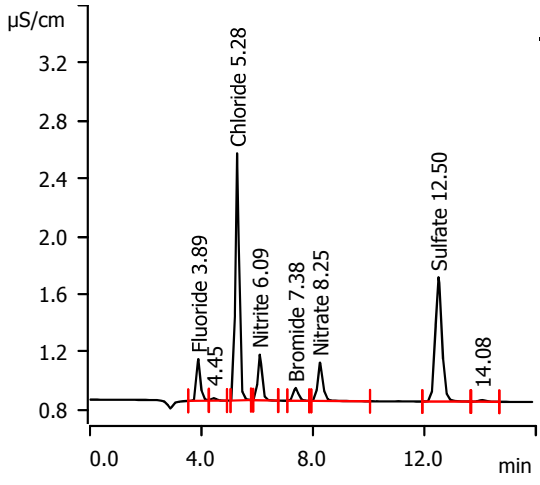


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.56	Sulfate	0.0014	0.001	0.001

Sample data

Ident . . . . . STDB
Sample type . . . . . Standard 1
Determination start 2024-05-20 15:01:11
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0460	0.096	0.096
5.28	Chloride	0.2534	1.051	1.051
6.09	Nitrite	0.0548	0.108	0.108
7.38	Bromide	0.0191	0.249	0.249
8.25	Nitrate	0.0569	0.119	0.119
12.50	Sulfate	0.2386	0.942	0.942

MagIC Net

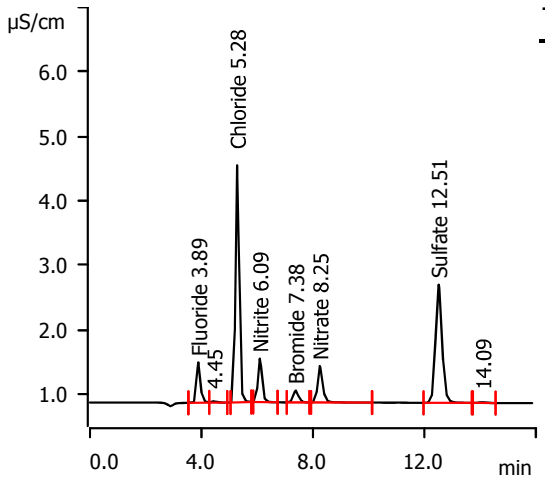
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDC
Sample type . . . . . Standard 2
Determination start 2024-05-20 15:21:48
Dilution factor 1.00

Anions

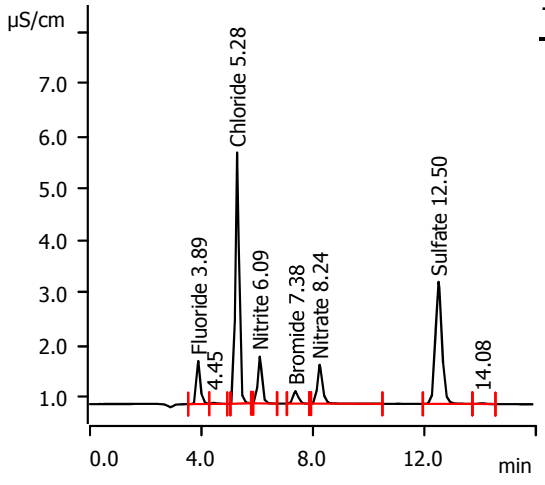


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0973	0.190	0.190
5.28	Chloride	0.5412	1.948	1.948
6.09	Nitrite	0.1154	0.191	0.191
7.38	Bromide	0.0393	0.398	0.398
8.25	Nitrate	0.1187	0.196	0.196
12.51	Sulfate	0.5021	1.986	1.986

Sample data

Ident . . . . . STDD
Sample type . . . . . Standard 3
Determination start 2024-05-20 15:42:25
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.1263	0.243	0.243
5.28	Chloride	0.7036	2.454	2.454
6.09	Nitrite	0.1512	0.240	0.240
7.38	Bromide	0.0511	0.484	0.484
8.24	Nitrate	0.1547	0.241	0.241
12.50	Sulfate	0.6367	2.520	2.520

MagIC Net

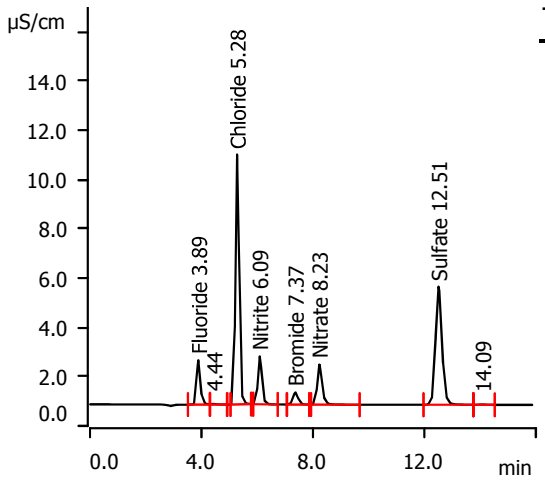
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDE
Sample type . . . . . Standard 4
Determination start 2024-05-20 16:03:00
Dilution factor 1.00

Anions

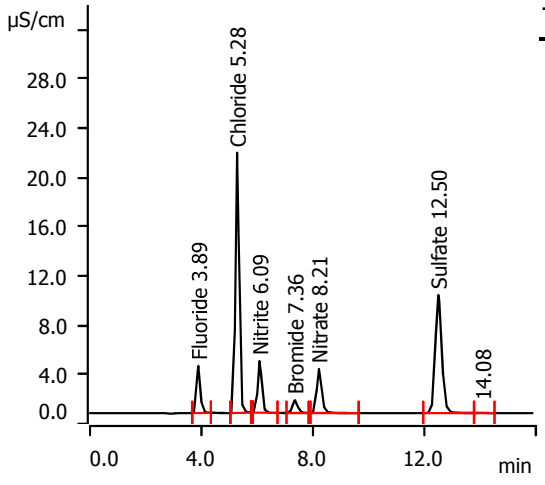


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.2702	0.506	0.506
5.28	Chloride	1.4801	4.876	4.876
6.09	Nitrite	0.3233	0.477	0.477
7.37	Bromide	0.1060	0.888	0.888
8.23	Nitrate	0.3276	0.456	0.456
12.51	Sulfate	1.3051	5.171	5.171

Sample data

Ident . . . . . STDF
Sample type . . . . . Standard 5
Determination start 2024-05-20 16:23:35
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.5629	1.040	1.040
5.28	Chloride	3.0984	9.922	9.922
6.09	Nitrite	0.7000	0.995	0.995
7.36	Bromide	0.2285	1.788	1.788
8.21	Nitrate	0.7140	0.936	0.936
12.50	Sulfate	2.6268	10.413	10.413

MagIC Net

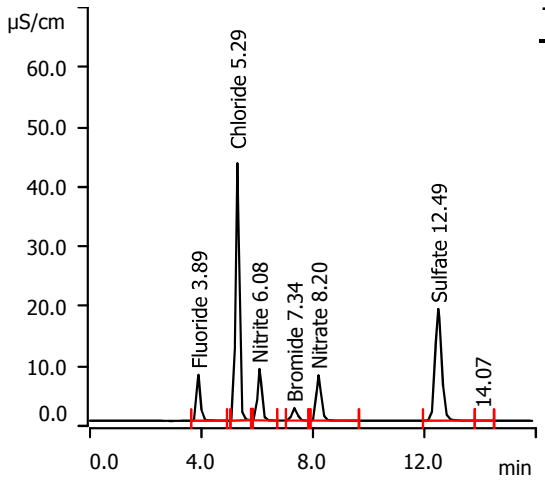
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDG
Sample type . . . . . Standard 6
Determination start 2024-05-20 16:44:11
Dilution factor 1.00

Anions

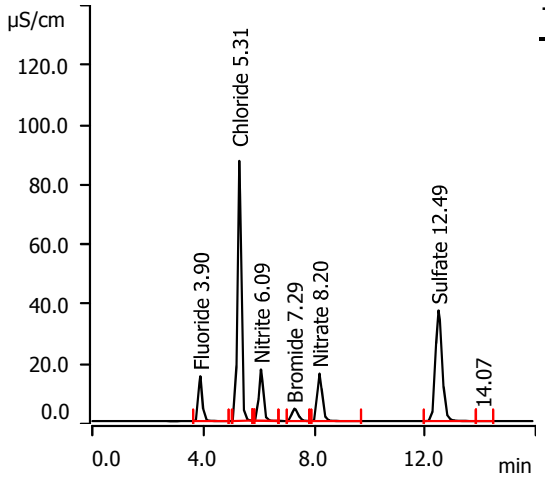


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.1636	2.138	2.138
5.29	Chloride	6.3124	19.944	19.944
6.08	Nitrite	1.4594	2.038	2.038
7.34	Bromide	0.4899	3.708	3.708
8.20	Nitrate	1.5131	1.930	1.930
12.49	Sulfate	5.1680	20.490	20.490

Sample data

Ident . . . . . STDH
Sample type . . . . . Standard 7
Determination start 2024-05-20 17:04:46
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.3147	4.242	4.242
5.31	Chloride	12.9472	40.633	40.633
6.09	Nitrite	2.9978	4.153	4.153
7.29	Bromide	1.0643	7.928	7.928
8.20	Nitrate	3.2037	4.032	4.032
12.49	Sulfate	10.3573	41.069	41.069

MagIC Net

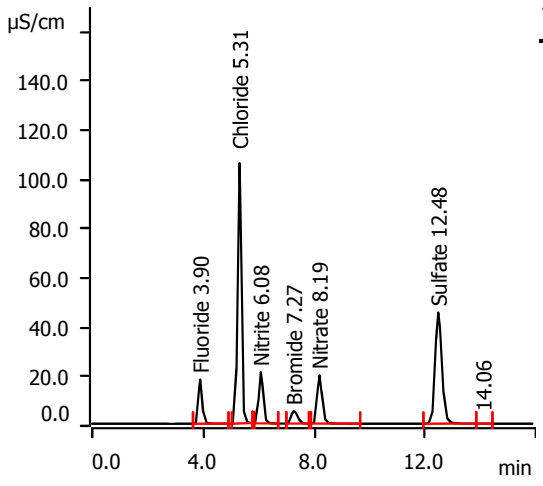
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDI
Sample type . . . . . Standard 8
Determination start 2024-05-20 17:25:23
Dilution factor 1.00

Anions

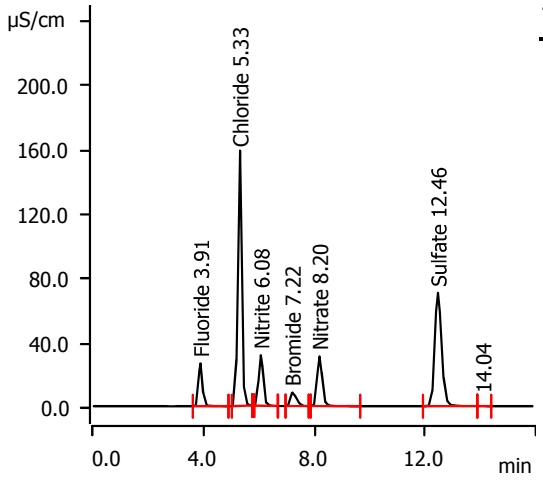


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.90	Fluoride	2.8017	5.132	5.132
5.31	Chloride	16.0310	50.249	50.249
6.08	Nitrite	3.6985	5.115	5.115
7.27	Bromide	1.3391	9.948	9.948
8.19	Nitrate	3.9972	5.018	5.018
12.48	Sulfate	12.6882	50.313	50.313

Sample data

Ident . . . . . STDJ
Sample type . . . . . Standard 9
Determination start 2024-05-20 17:45:59
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	4.3202	7.907	7.907
5.33	Chloride	25.5458	79.919	79.919
6.08	Nitrite	5.7852	7.983	7.983
7.22	Bromide	2.2002	16.275	16.275
8.20	Nitrate	6.4594	8.080	8.080
12.46	Sulfate	20.0614	79.553	79.553

MagIC Net

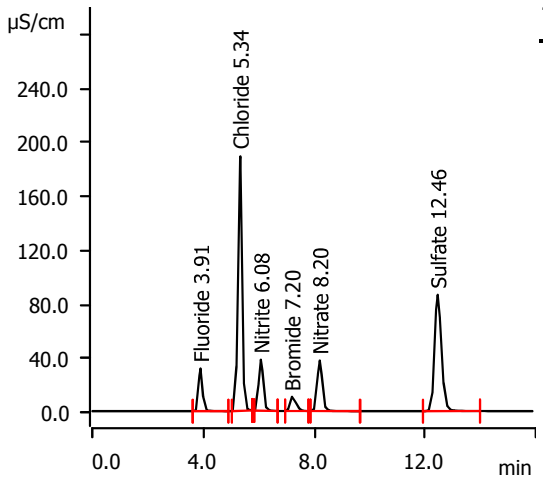
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . STDK
Sample type . . . . . Standard 10
Determination start 2024-05-20 18:06:34
Dilution factor 1.00

Anions

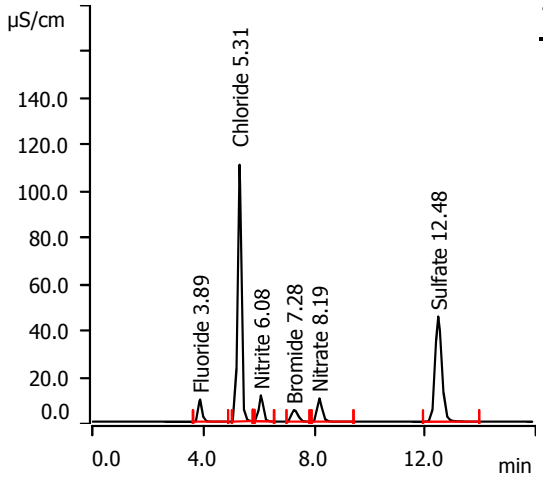


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.91	Fluoride	5.2381	9.585	9.585
5.34	Chloride	31.6808	99.050	99.050
6.08	Nitrite	7.0786	9.761	9.761
7.20	Bromide	2.7628	20.408	20.408
8.20	Nitrate	8.0529	10.061	10.061
12.46	Sulfate	24.7509	98.150	98.150

Sample data

Ident ICV
Sample type . . . . . Sample
Determination start 2024-05-20 18:27:10
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4443	2.651	2.651
5.31	Chloride	16.8052	52.664	52.664
6.08	Nitrite	1.8978	2.641	2.641
7.28	Bromide	1.3454	9.994	9.994
8.19	Nitrate	1.9977	2.532	2.532
12.48	Sulfate	12.7029	50.371	50.371

MagIC Net

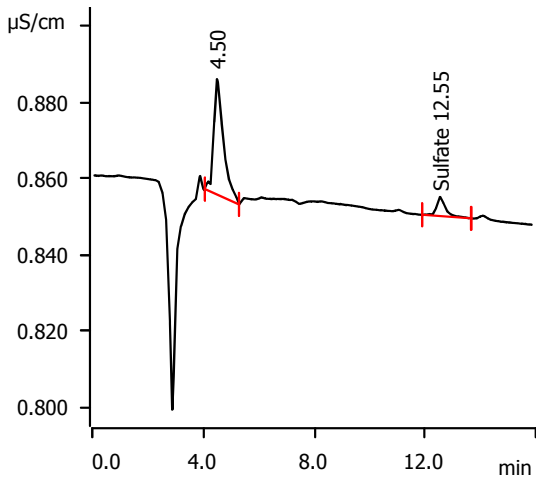
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . ICB
Sample type . . . . . Sample
Determination start 2024-05-20 18:47:46
Dilution factor 1.00

Anions

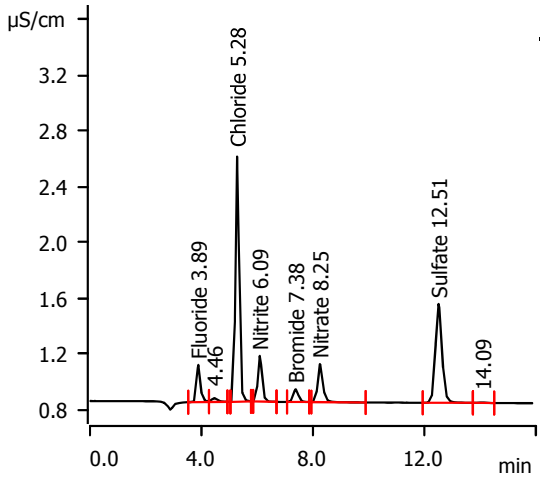


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.55	Sulfate	0.0018	0.003	0.003

Sample data

Ident . . . . . CRI
Sample type . . . . . Sample
Determination start 2024-05-20 19:08:20
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	0.0424	0.089	0.089
5.28	Chloride	0.2601	1.071	1.071
6.09	Nitrite	0.0566	0.110	0.110
7.38	Bromide	0.0195	0.253	0.253
8.25	Nitrate	0.0583	0.121	0.121
12.51	Sulfate	0.1968	0.776	0.776

MagIC Net

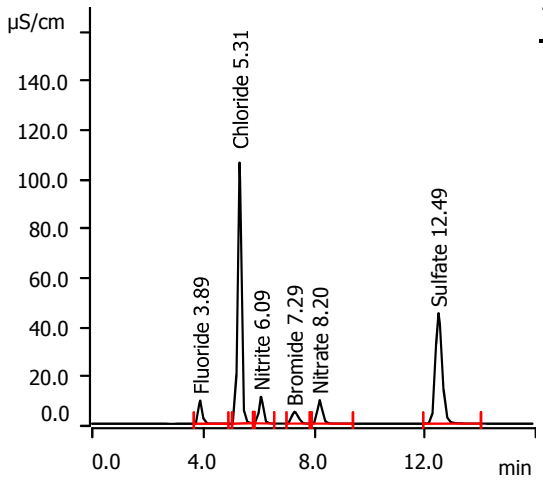
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-05-20 19:28:55
Dilution factor 1.00

Anions

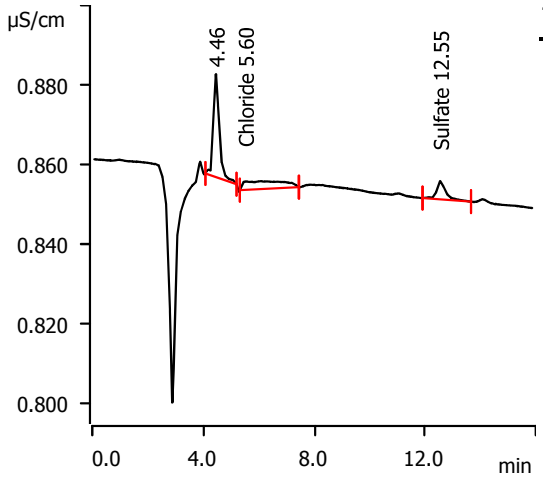


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.89	Fluoride	1.4584	2.677	2.677
5.31	Chloride	16.0929	50.442	50.442
6.09	Nitrite	1.8405	2.562	2.562
7.29	Bromide	1.3312	9.890	9.890
8.20	Nitrate	1.9191	2.435	2.435
12.49	Sulfate	12.6728	50.252	50.252

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-05-20 19:49:38
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.60	Chloride	0.0033	0.271	0.271
12.55	Sulfate	0.0017	0.002	0.002

MagIC Net

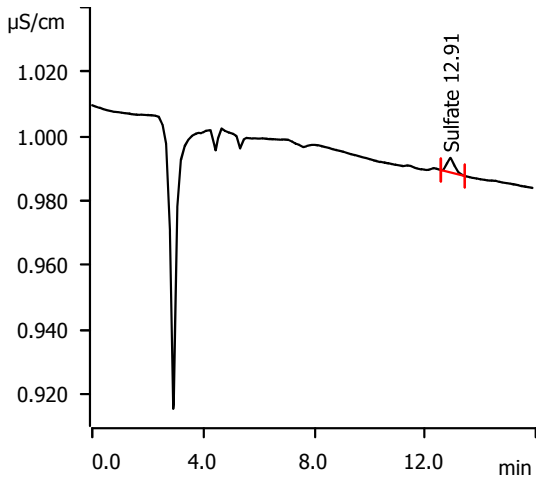
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident . . . . . Rinse
Sample type . . . . . Sample
Determination start 2024-06-21 12:41:24
Dilution factor 1.00

Anions

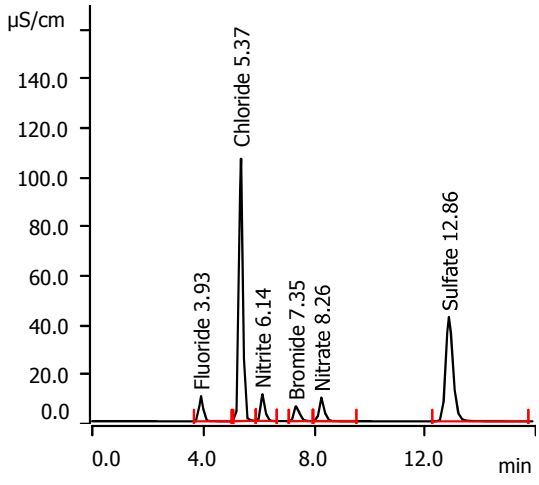


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.91	Sulfate	0.0014	0.001	0.001

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-21 13:06:47
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.93	Fluoride	1.6285	2.988	2.988
5.37	Chloride	16.9415	53.089	53.089
6.14	Nitrite	1.9515	2.715	2.715
7.35	Bromide	1.4115	10.480	10.480
8.26	Nitrate	2.0489	2.596	2.596
12.86	Sulfate	13.0386	51.703	51.703

MagIC Net

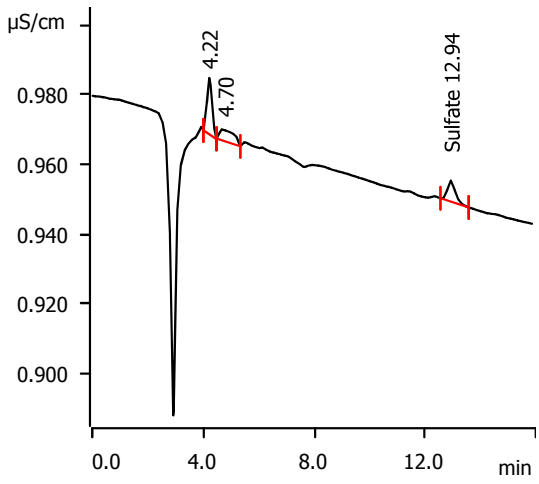
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-06-21 13:32:09
Dilution factor 1.00

Anions

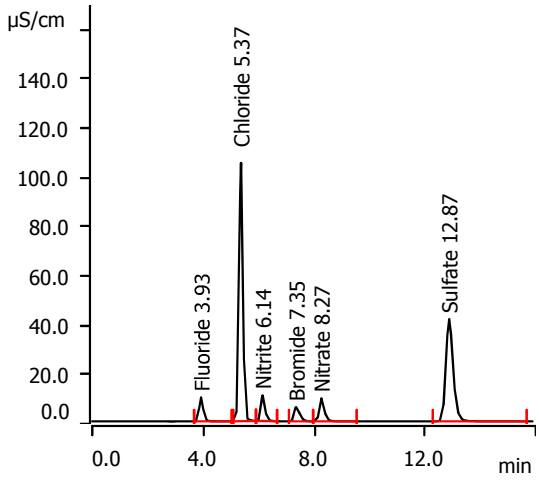


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.94	Sulfate	0.0020	0.003	0.003

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-06-21 13:52:48
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.93	Fluoride	1.5578	2.859	2.859
5.37	Chloride	16.5602	51.900	51.900
6.14	Nitrite	1.8747	2.609	2.609
7.35	Bromide	1.3496	10.025	10.025
8.27	Nitrate	1.9784	2.508	2.508
12.87	Sulfate	12.7666	50.624	50.624

MagIC Net

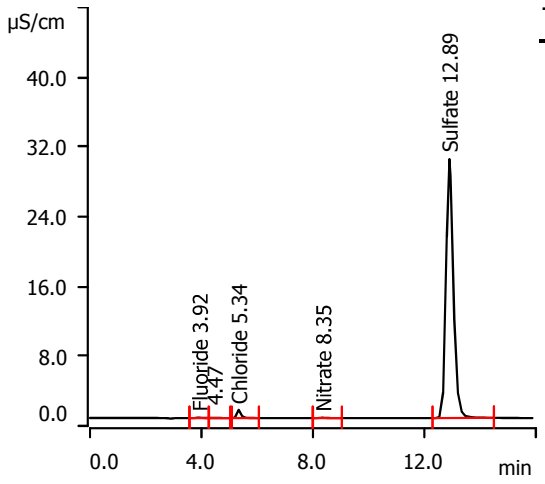
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16592-1
Sample type . . . . . Sample
Determination start 2024-06-21 15:35:36
Dilution factor 10.00

Anions

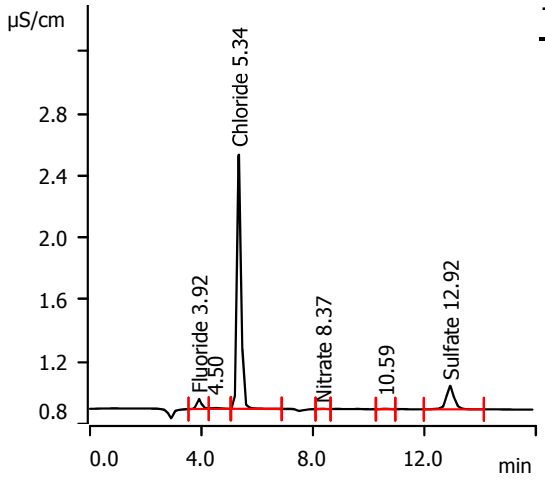


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0101	0.030	0.302
5.34	Chloride	0.1521	0.735	7.349
8.35	Nitrate	0.0092	0.060	0.599
12.89	Sulfate	8.9762	35.592	355.923

Sample data

Ident FC16592-3
Sample type . . . . . Sample
Determination start 2024-06-21 16:01:56
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0121	0.034	0.338
5.34	Chloride	0.2748	1.117	11.173
8.37	Nitrate	0.0004	0.049	0.490
12.92	Sulfate	0.0493	0.191	1.908

MagIC Net

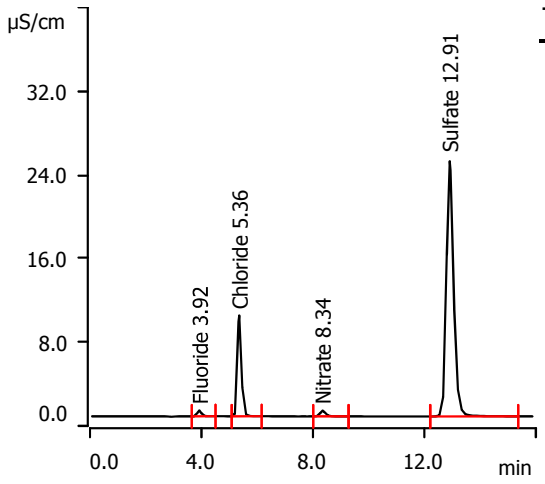
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-1
Sample type . . . . . Sample
Determination start 2024-06-21 16:22:17
Dilution factor 1.00

Anions

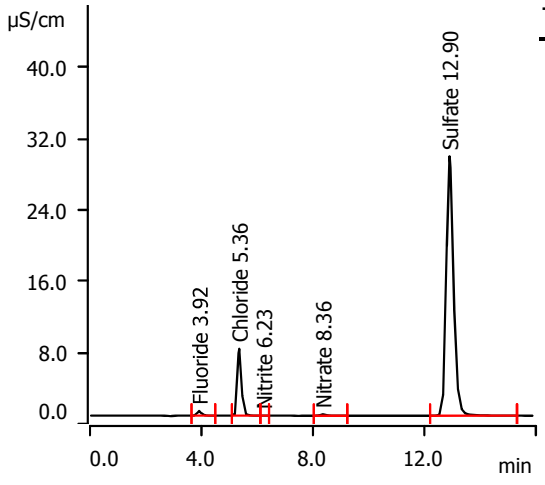


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0919	0.180	0.180
5.36	Chloride	1.5971	5.241	5.241
8.34	Nitrate	0.1162	0.193	0.193
12.91	Sulfate	7.3440	29.120	29.120

Sample data

Ident FC16591-2
Sample type . . . . . Sample
Determination start 2024-06-21 16:42:53
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0898	0.176	0.176
5.36	Chloride	1.2505	4.160	4.160
6.23	Nitrite	0.0006	0.033	0.033
8.36	Nitrate	0.0355	0.093	0.093
12.90	Sulfate	8.7986	34.888	34.888

MagIC Net

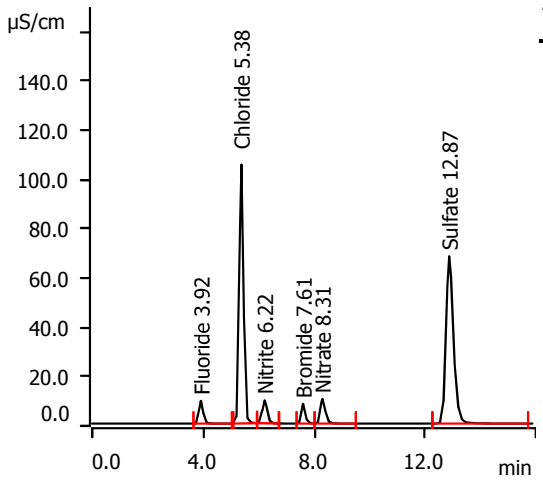
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-2S1
Sample type . . . . . Sample
Determination start 2024-06-21 17:03:29
Dilution factor 1.00

Anions

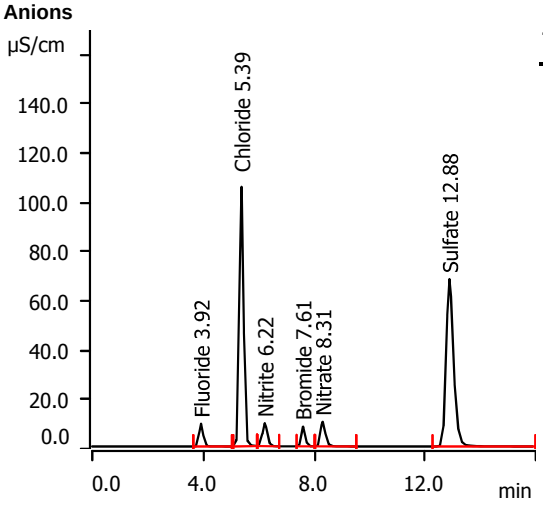


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	1.5114	2.774	2.774
5.38	Chloride	17.9748	56.311	56.311
6.22	Nitrite	1.8840	2.622	2.622
7.61	Bromide	1.3787	10.238	10.238
8.31	Nitrate	2.0346	2.578	2.578
12.87	Sulfate	21.1618	83.917	83.917

Sample data

Ident FC16591-2S2
Sample type . . . . . Sample
Determination start 2024-06-21 17:24:04
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	1.5109	2.773	2.773
5.39	Chloride	17.9768	56.317	56.317
6.22	Nitrite	1.8839	2.622	2.622
7.61	Bromide	1.3793	10.243	10.243
8.31	Nitrate	2.0344	2.578	2.578
12.88	Sulfate	21.1688	83.944	83.944

MagIC Net

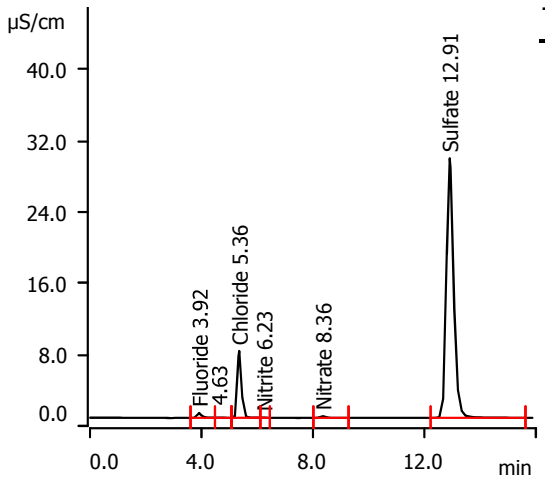
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-3
Sample type . . . . . Sample
Determination start 2024-06-21 17:44:39
Dilution factor 1.00

Anions

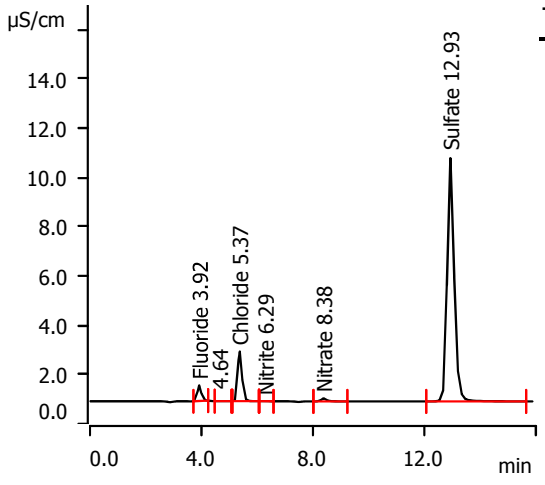


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0941	0.184	0.184
5.36	Chloride	1.2492	4.156	4.156
6.23	Nitrite	0.0006	0.033	0.033
8.36	Nitrate	0.0377	0.095	0.095
12.91	Sulfate	8.8023	34.903	34.903

Sample data

Ident FC16591-4
Sample type . . . . . Sample
Determination start 2024-06-21 18:05:15
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.1009	0.196	0.196
5.37	Chloride	0.3569	1.374	1.374
6.29	Nitrite	0.0014	0.035	0.035
8.38	Nitrate	0.0267	0.082	0.082
12.93	Sulfate	2.9291	11.611	11.611

MagIC Net

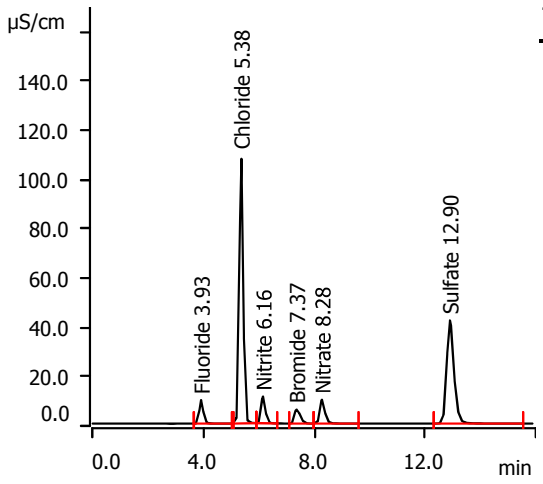
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-21 18:25:51
Dilution factor 1.00

Anions

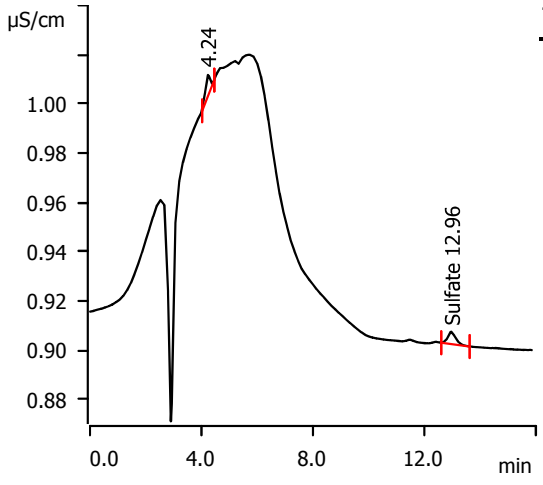


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.93	Fluoride	1.5043	2.761	2.761
5.38	Chloride	16.9988	53.268	53.268
6.16	Nitrite	1.9492	2.711	2.711
7.37	Bromide	1.4067	10.444	10.444
8.28	Nitrate	2.0484	2.595	2.595
12.90	Sulfate	12.8320	50.883	50.883

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-21 18:46:32
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.96	Sulfate	0.0016	0.002	0.002

MagIC Net

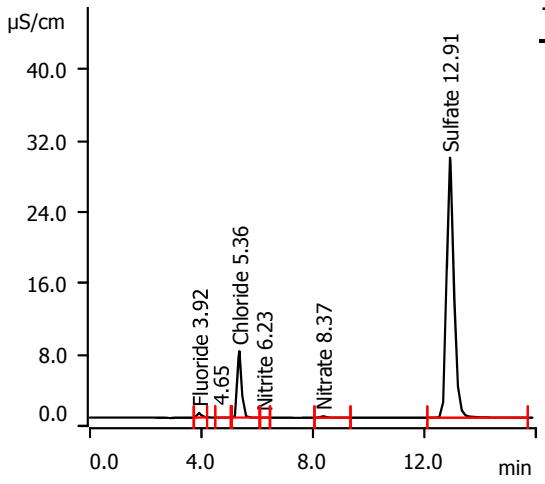
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-5
Sample type . . . . . Sample
Determination start 2024-06-21 19:07:07
Dilution factor 1.00

Anions

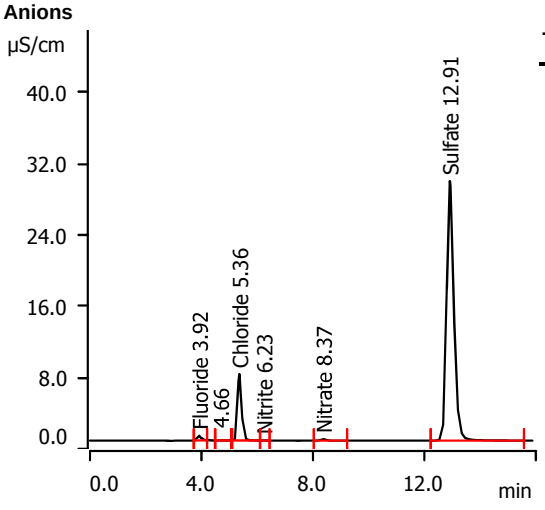


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0810	0.160	0.160
5.36	Chloride	1.2476	4.151	4.151
6.23	Nitrite	0.0007	0.034	0.034
8.37	Nitrate	0.0361	0.093	0.093
12.91	Sulfate	8.8310	35.017	35.017

Sample data

Ident FC16591-6
Sample type . . . . . Sample
Determination start 2024-06-21 19:27:47
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0805	0.159	0.159
5.36	Chloride	1.2474	4.150	4.150
6.23	Nitrite	0.0006	0.033	0.033
8.37	Nitrate	0.0359	0.093	0.093
12.91	Sulfate	8.8109	34.937	34.937

MagIC Net

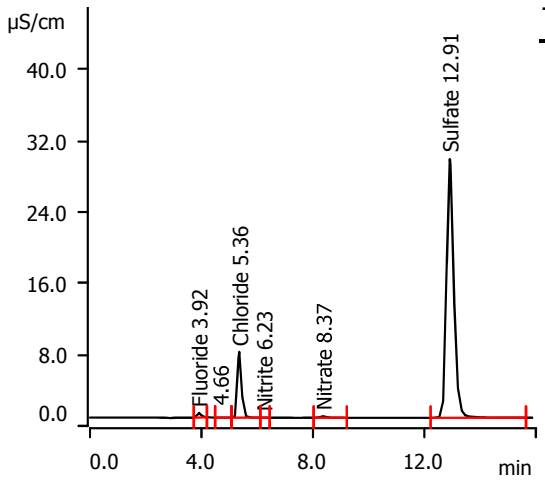
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-7
Sample type . . . . . Sample
Determination start 2024-06-21 19:48:22
Dilution factor 1.00

Anions

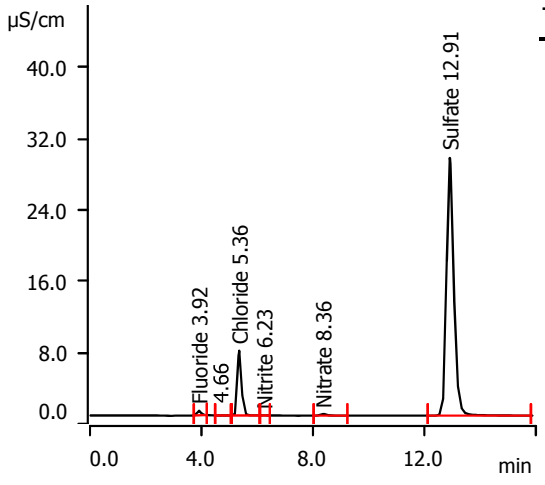


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0794	0.157	0.157
5.36	Chloride	1.2334	4.107	4.107
6.23	Nitrite	0.0006	0.033	0.033
8.37	Nitrate	0.0358	0.093	0.093
12.91	Sulfate	8.7705	34.776	34.776

Sample data

Ident FC16591-8
Sample type . . . . . Sample
Determination start 2024-06-21 20:08:57
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0787	0.156	0.156
5.36	Chloride	1.2166	4.054	4.054
6.23	Nitrite	0.0007	0.034	0.034
8.36	Nitrate	0.0398	0.098	0.098
12.91	Sulfate	8.7493	34.692	34.692

MagIC Net

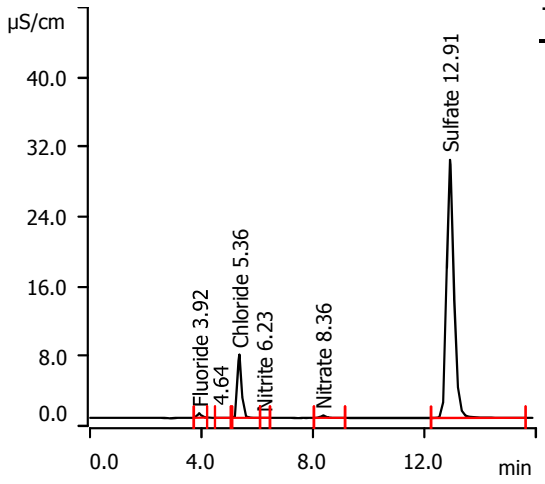
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-9
Sample type . . . . . Sample
Determination start 2024-06-21 20:29:32
Dilution factor 1.00

Anions

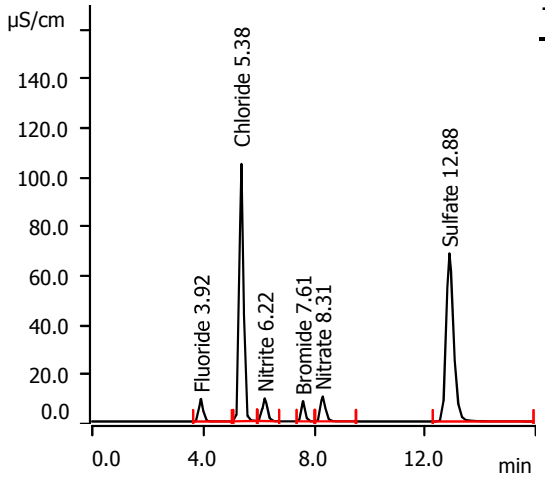


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0791	0.156	0.156
5.36	Chloride	1.2103	4.034	4.034
6.23	Nitrite	0.0008	0.034	0.034
8.36	Nitrate	0.0601	0.123	0.123
12.91	Sulfate	8.9496	35.487	35.487

Sample data

Ident FC16591-9S3
Sample type . . . . . Sample
Determination start 2024-06-21 20:50:07
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	1.4996	2.752	2.752
5.38	Chloride	17.8232	55.838	55.838
6.22	Nitrite	1.8683	2.600	2.600
7.61	Bromide	1.3716	10.186	10.186
8.31	Nitrate	2.0529	2.601	2.601
12.88	Sulfate	21.2205	84.150	84.150

MagIC Net

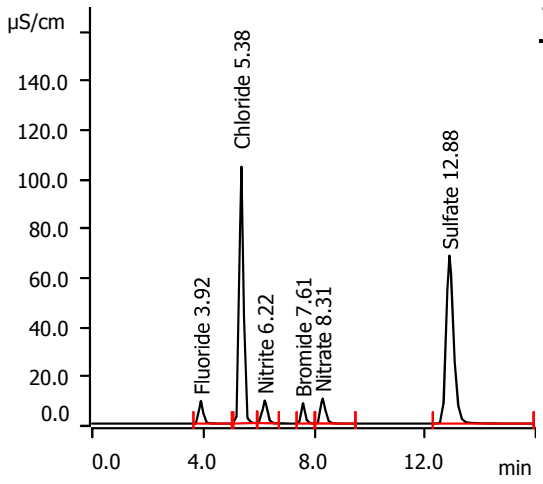
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-9S4
Sample type . . . . . Sample
Determination start 2024-06-21 21:10:42
Dilution factor 1.00

Anions

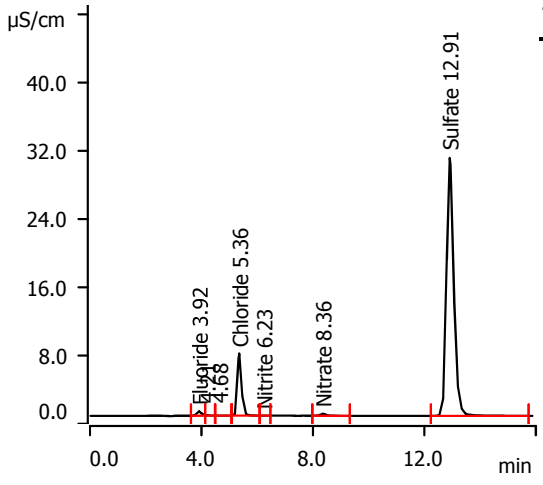


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	1.5011	2.755	2.755
5.38	Chloride	17.8379	55.884	55.884
6.22	Nitrite	1.8748	2.609	2.609
7.61	Bromide	1.3733	10.199	10.199
8.31	Nitrate	2.0547	2.603	2.603
12.88	Sulfate	21.2333	84.200	84.200

Sample data

Ident FC16591-10
Sample type . . . . . Sample
Determination start 2024-06-21 21:31:18
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0884	0.173	0.173
5.36	Chloride	1.2145	4.048	4.048
6.23	Nitrite	0.0010	0.034	0.034
8.36	Nitrate	0.0518	0.113	0.113
12.91	Sulfate	9.1323	36.211	36.211

MagIC Net

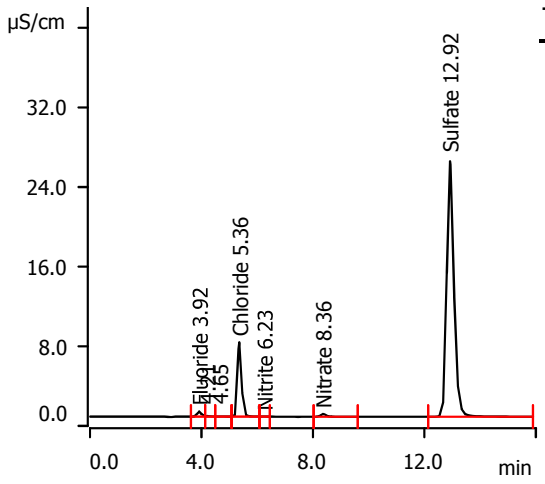
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident FC16591-11
Sample type . . . . . Sample
Determination start 2024-06-21 21:51:54
Dilution factor 1.00

Anions

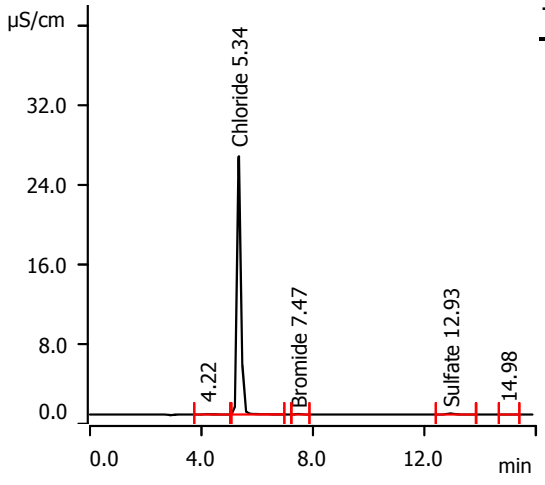


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.92	Fluoride	0.0857	0.168	0.168
5.36	Chloride	1.2417	4.133	4.133
6.23	Nitrite	0.0010	0.034	0.034
8.36	Nitrate	0.0607	0.124	0.124
12.92	Sulfate	7.7246	30.629	30.629

Sample data

Ident FC16572-1
Sample type . . . . . Sample
Determination start 2024-06-21 22:12:29
Dilution factor 500.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.34	Chloride	4.0245	12.810	6405.032
7.47	Bromide	0.0091	0.176	87.917
12.93	Sulfate	0.0312	0.119	59.555

MagIC Net

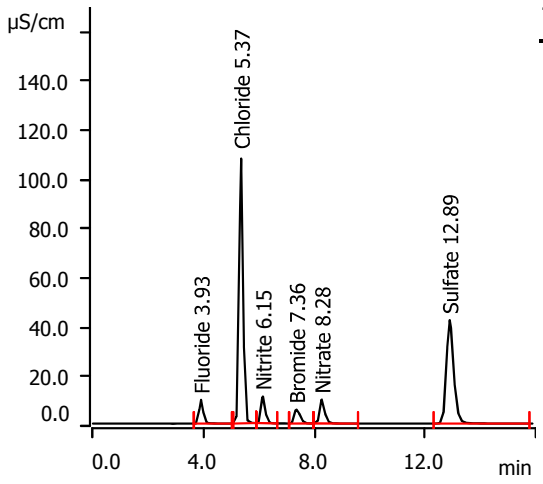
Summary Report

2024-06-22 5:37:51
MagIC Net 3.2 - 123

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-06-21 22:32:49
Dilution factor 1.00

Anions

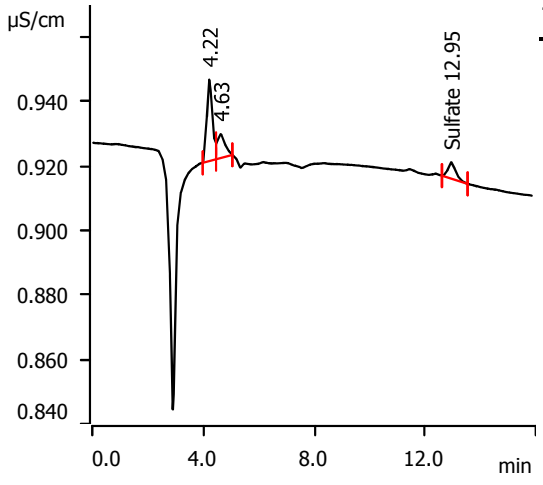


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.93	Fluoride	1.5162	2.783	2.783
5.37	Chloride	17.0285	53.360	53.360
6.15	Nitrite	1.9501	2.713	2.713
7.36	Bromide	1.4092	10.463	10.463
8.28	Nitrate	2.0533	2.601	2.601
12.89	Sulfate	12.8583	50.987	50.987

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-06-21 22:53:28
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.95	Sulfate	0.0016	0.002	0.002

IC STANDARDS PREP LOG

STANDARD NAME	ANALYTES	STOCK LOT #	STOCK VENDOR	STOCK EXP. DATE	STOCK CONC. (mg/l)	VOLUME ADDED (ml)	TOTAL VOLUME (ml)	STANDARD CONC. (mg/l)	PREP DATE	INITIALS	STD LOT #	EXP. DATE
1ꞋNO2	NO2	WC2227	Agilent	4/30/2025	1000	2.5	25	100	6/21/2024	gn	1IC122	6/22/2024
1ꞋNO3	NO3	WC2223	Agilent	5/31/2028	1000	2.5	25	100	6/21/2024	gn	1IC123	6/22/2024
CCV	NO2/NO3	1IC122/123	REF	6/22/2024	100	5	200	2.5	6/21/2024	gn	1IC124	6/22/2024
CCV	SO4	WC2230	Enviromental	11/30/2025	1000	10	200	50	6/21/2024	gn	1IC124	6/22/2024
CCV	Cl	WC2173	Spex	6/30/2025	1000	10	200	50	6/21/2024	gn	1IC124	6/22/2024
CCV	F	WC2130	Spex	9/30/2024	1000	0.5	200	2.5	6/21/2024	gn	1IC124	6/22/2024
CCV	Br	WC2009	Spex	4/30/2025	1000	2	200	10	6/21/2024	gn	1IC124	6/22/2024
B1	NO2/NO3/F	WC2236	Absolute	5/2/2026	100	1.25	50	2.5	6/21/2024	gn	1IC125	6/22/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	6/21/2024	gn	1IC125	6/22/2024
B1	Br	---	---	---	400	---	---	10	6/21/2024	gn	1IC125	6/22/2024

Method: EPA300.0 / SW846 9056A (circle one)

Date:	6/21/2024 12:41	**Prep Batchs:**	40153	**Vial lot#**	753964-H 23584	**ICAL:**	---
Analyst:	GN	**Analytical Batch:**	97736	**Eluent lot#**	GN37327	**ICV:**	---
Instrument:	IC 4	**Calibration Date:**	5/20/2024	**Suppressor regen. lot#**	GN37128	**CCV:**	1IC124
Inst. File Name:	42024062101.csv	**Pump pressure:**	7.54MPa	**Filter lot#**	---	**QC:**	1IC125

Sample#						**Ions Needed**						**Results OK or Dilution Needed**						**Comments**
Rinse	Bot#	Matrix	Scon	DF	Filter (y/n)	F	Cl	NO2	Br	NO3	SO4	F	Cl	NO2	Br	NO3	SO4	Scon Meter: Scon 7
CCV	---	AQ	---	1	N		x	x	x	x	x	^						
MB1	---	AQ	---	1	N		x	x	x	x	x							
B1	---	AQ	---	1	N		x	x	x	x	x							
FC16592-1	10	AQ	1264uS	10	N		x	x			x							
FC16592-3	10	AQ	1300uS	10	N		x	x		x	x							
FC16591-1	6	AQ	322uS	1	N		x	x	x	x	x							
FC16591-2	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-2S1	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-2S2	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-3	6	AQ	350uS	1	N		x	x	x	x	x							
FC16591-4	6	AQ	390uS	1	N		x	x	x	x	x							
CCV	---	AQ	---	1	N		x	x	x	x	x	^						
CCB	---	AQ	---	1	N		x	x	x	x	x							
FC16591-5	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-6	6	AQ	353uS	1	N		x	x	x	x	x							
FC16591-7	6	AQ	353uS	1	N		x	x	x	x	x							
FC16591-8	6	AQ	346uS	1	N		x	x	x	x	x							
FC16591-9	16	AQ	355uS	1	N		x	x	x	x	x							
FC16591-9S3	16	AQ	355uS	1	N		x	x	x	x	x							
FC16591-9S4	16	AQ	355uS	1	N		x	x	x	x	x							
FC16591-10	6	AQ	360uS	1	N		x	x	x	x	x							
FC16591-11	6	AQ	331uS	1	N		x	x	x	x	x							
FC16572-1	13	AQ	16.2mS	500	N		x											
CCV	---	AQ	---	1	N		x	x	x	x	x	^						
CCB	---	AQ	---	1	N		x	x	x	x	x							

TOC Analysis Logbook, Aqueous

Date:	7/1/2024	Methods:	SM5310B SW8469060A	pH paper Lot#	230320	ICAL:	List in comments
Analyst:	F. N.	Method File:	NPOC - met.	Pipette ID#	UU36927	ICV:	TOC-4357
Instrumet	TOC3	Cal. File:	6/30/2024	Pipette ID#	UU42734	CCV:	TOC-4358
Instr. File name	c20240701w1.txt	GN Batch:	GN97788	Pipette ID#	-	QC:	WC2232
Filter Lot#	-						

Autosampler Position	Sample ID	Bottle#	pH, sU	Injected Volume, ml	Manual Dilution	Instrument Dilution	GP Batch	Comments
1	BLANK	-	-	50 uL	1	1	-	
2	500	-	1.0'	40 uL	1	16	-	} TOC-4360
3	CCV	-	1.5	50 uL	1	1	-	
4	GP40176-MB1	-	-	50 uL	1	1	GP40176	
5	GP40176-B1	-	1.5	50 uL	1	1	GP40176	
6	FC16586-1	1	1.5	50 uL	1	1	GP40176	
7	GP40176-S1	2	1.0'	50 uL	1	1	GP40176	
8	GP40176-S2	4	1.0'	50 uL	1	1	GP40176	
9	FC16588-4	1	1.0*	50 uL	1	1	GP40176	
10	GP40176-S3	2	1.0*	50 uL	1	1	GP40176	
11	GP40176-S4	3	1.0*	50 uL	1	1	GP40176	
12	FC16592-1	1	1.0*	50 uL	1	1	GP40176	
13	FC16592-3	1	1.5	50 uL	1	1	GP40176	
14	FC16670-1	4	1.5	50 uL	1	1	GP40176	
15	CCV	-	1.5	50 uL	1	1	-	(*) => Initial PH =/> 2 , added drops conc.
16	CCB	-	-	50 uL	1	1	-	HCL to acidify. / HCL lot ID# : 24008337
17	FC16680-2	1	1.5	50 uL	1	1	GP40176	
18	FC16680-3	1	1.5	50 uL	1	1	GP40176	
19	FC16680-4	1	1.5	50 uL	1	1	GP40176	
20	FC16680-5	1	1.5	50 uL	1	1	GP40176	
21	FC16680-6	1	1.5	50 uL	1	1	GP40176	
22	FC16680-7	1	1.5	50 uL	1	1	GP40176	
23	FC16694-8	1	1.5	50 uL	1	1	GP40176	
24	FC16694-9	1	1.5	50 uL	1	1	GP40176	
25	FC16726-1	1	1.5	50 uL	1	1	GP40176	
26	FC16726-2	1	1.5	50 uL	1	1	GP40176	
27	CCV	-	1.5	50 uL	1	1	-	
28	CCB	-	-	50 uL	1	1	-	
29	FC16726-4	1	1.5	50 uL	1	1	GP40176	
30	FC16726-6	1	1.5	50 uL	1	1	GP40176	
31	FC16726-7	1	1.5	50 uL	1	2	GP40176	
32	FC16726-8	1	1.5	50 uL	1	1	GP40176	
33	FC16729-1	2	1.5	50 uL	1	1	GP40176	
34	FC16590-1	1	1.0*	50 uL	1	1	GP40177	

TOC Analysis Logbook, Aqueous

Date:	7/1/2024	Methods:	SM5310B SW8469060A	pH paper Lot#	230320	ICAL:	List in comments
Analyst:	F. N.	Method File:	NPOC - met.	Pipette ID#	UU36927	ICV:	TOC-4357
Instrumet	TOC3	Cal. File:	6/30/2024	Pipette ID#	UU42734	CCV:	TOC-4358
Instr. File name	c20240701w1.txt	GN Batch:	GN97788	Pipette ID#	-	QC:	WC2232
Filter Lot#	-						

Autosampler Position	Sample ID	Bottle#	pH, sU	Injected Volume, ml	Manual Dilution	Instrument Dilution	GP Batch	Comments
35	GP40177-S1	2	1.0*	50 uL	1	1	GP40177	
36	GP40177-S2	3	1.0*	50 uL	1	1	GP40177	
37	FC16727-1	1	1.5	50 uL	1	2	GP40177	
38	FC16727-2	1	1.5	50 uL	1	1	GP40177	
39	CVV	-	1.5	50 uL	1	1	-	
40	GP40177-MB1	-	-	50 uL	1	1	GP40177	
41	GP40177-B1	-	1.5	50 uL	1	1	GP40177	
42	FC16727-3	1	1.5	50 uL	1	2	GP40177	
43	FC16727-4	1	1.5	50 uL	1	1	GP40177	
44	FC16749-1	1	1.5	50 uL	1	1	GP40177	
45	FC16772-1	1	1.5	50 uL	1	1	GP40177	
46	FC16772-3	1	1.5	50 uL	1	1	GP40177	
47	FC16772-4	1	1.5	50 uL	1	1	GP40177	
48	FC16778-2	1	1.0*	50 uL	1	1	GP40177	
49	GP40177-S3	2	1.0*	50 uL	1	1	GP40177	
50	GP40177-S4	3	1.0*	50 uL	1	1	GP40177	
51	CCV	-	1.5	50 uL	1	1	-	
52	CCB	-	-	50 uL	1	1	-	
53	FC16778-3	1	1.0*	50 uL	1	1	GP40177	
54	FC16778-4	1	1.0*	50 uL	1	1	GP40177	
55	FC16778-5	1	1.0*	50 uL	1	1	GP40177	
56	FC16779-1	1	1.0*	50 uL	1	1	GP40177	
57	FC16782-1	1	1.5	50 uL	1	1	GP40177	
58	FC16782-2	1	1.0*	50 uL	1	1	GP40177	
59	FC16782-3	1	1.5	50 uL	1	1	GP40177	
60	FC16782-4	1	1.5	50 uL	1	1	GP40177	
61	FC16792-2	1	1.5	50 uL	1	1	GP40177	
62	FC16792-3	1	1.5	50 uL	1	1	GP40177	
63	CCV	-	1.5	50 uL	1	1	-	
64	CCB	-	-	50 uL	1	1	-	

	Type	Analysis	Sample Name	Origin	Manual Dilution	Result	Comment	Status	Date / Time	Vial
1	Unknown	NPOC	BLANK	NPOC.met	1.000	NPOC:-0.08812mg/L	SM5310B SW846 9060A	Completed	7/1/2024 10:45:22 AM	1
2	Unknown	NPOC	500	NPOC.met	1.000	NPOC:486.5mg/L	SM5310B SW846 9060A	Completed	7/1/2024 11:24:57 AM	2
3	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.15mg/L	SM5310B SW846 9060A	Completed	7/1/2024 11:50:30 AM	3
4	Unknown	NPOC	GP40176-MB1	NPOC.met	1.000	NPOC:-0.04984mg/L	SM5310B SW846 9060A	Completed	7/1/2024 12:11:33 PM	4
5	Unknown	NPOC	GP40176-B1	NPOC.met	1.000	NPOC:15.46mg/L	SM5310B SW846 9060A	Completed	7/1/2024 12:34:23 PM	5
6	Unknown	NPOC	FC16586-1	NPOC.met	1.000	NPOC:1.449mg/L	SM5310B SW846 9060A	Completed	7/1/2024 12:56:54 PM	6
7	Unknown	NPOC	GP40176-S1	NPOC.met	1.000	NPOC:16.72mg/L	SM5310B SW846 9060A	Completed	7/1/2024 1:20:30 PM	7
8	Unknown	NPOC	GP40176-S2	NPOC.met	1.000	NPOC:17.18mg/L	SM5310B SW846 9060A	Completed	7/1/2024 1:43:08 PM	8
9	Unknown	NPOC	FC16588-4	NPOC.met	1.000	NPOC:8.571mg/L	SM5310B SW846 9060A	Completed	7/1/2024 2:04:41 PM	9
10	Unknown	NPOC	GP40176-S3	NPOC.met	1.000	NPOC:24.26mg/L	SM5310B SW846 9060A	Completed	7/1/2024 2:27:19 PM	10
11	Unknown	NPOC	GP40176-S4	NPOC.met	1.000	NPOC:24.37mg/L	SM5310B SW846 9060A	Completed	7/1/2024 2:49:59 PM	11
12	Unknown	NPOC	FC16592-1	NPOC.met	1.000	NPOC:7.167mg/L	SM5310B SW846 9060A	Completed	7/1/2024 3:11:33 PM	12
13	Unknown	NPOC	FC16592-3	NPOC.met	1.000	NPOC:19.70mg/L	SM5310B SW846 9060A	Completed	7/1/2024 3:34:55 PM	13
14	Unknown	NPOC	FC16670-1	NPOC.met	1.000	NPOC:7.539mg/L	SM5310B SW846 9060A	Completed	7/1/2024 3:58:58 PM	14
15	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.24mg/L	SM5310B SW846 9060A	Completed	7/1/2024 4:21:19 PM	15
16	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.01315mg/L	SM5310B SW846 9060A	Completed	7/1/2024 4:42:58 PM	16
17	Unknown	NPOC	FC16680-2	NPOC.met	1.000	NPOC:0.8552mg/L	SM5310B SW846 9060A	Completed	7/1/2024 5:04:44 PM	17
18	Unknown	NPOC	FC16680-3	NPOC.met	1.000	NPOC:0.8390mg/L	SM5310B SW846 9060A	Completed	7/1/2024 5:24:19 PM	18
19	Unknown	NPOC	FC16680-4	NPOC.met	1.000	NPOC:2.871mg/L	SM5310B SW846 9060A	Completed	7/1/2024 5:45:26 PM	19
20	Unknown	NPOC	FC16680-5	NPOC.met	1.000	NPOC:0.6664mg/L	SM5310B SW846 9060A	Completed	7/1/2024 6:07:11 PM	20
21	Unknown	NPOC	FC16680-6	NPOC.met	1.000	NPOC:3.678mg/L	SM5310B SW846 9060A	Completed	7/1/2024 6:27:59 PM	21
22	Unknown	NPOC	FC16680-7	NPOC.met	1.000	NPOC:4.448mg/L	SM5310B SW846 9060A	Completed	7/1/2024 6:48:57 PM	22
23	Unknown	NPOC	FC16694-8	NPOC.met	1.000	NPOC:0.8050mg/L	SM5310B SW846 9060A	Completed	7/1/2024 7:10:35 PM	23
24	Unknown	NPOC	FC16694-9	NPOC.met	1.000	NPOC:0.5618mg/L	SM5310B SW846 9060A	Completed	7/1/2024 7:32:13 PM	24
25	Unknown	NPOC	FC16726-1	NPOC.met	1.000	NPOC:1.250mg/L	SM5310B SW846 9060A	Completed	7/1/2024 7:54:25 PM	25
26	Unknown	NPOC	FC16726-2	NPOC.met	1.000	NPOC:1.307mg/L	SM5310B SW846 9060A	Completed	7/1/2024 8:17:09 PM	26
27	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.25mg/L	SM5310B SW846 9060A	Completed	7/1/2024 8:39:47 PM	27
28	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.09622mg/L	SM5310B SW846 9060A	Completed	7/1/2024 9:00:57 PM	28
29	Unknown	NPOC	FC16726-4	NPOC.met	1.000	NPOC:9.237mg/L	SM5310B SW846 9060A	Completed	7/1/2024 9:22:52 PM	29
30	Unknown	NPOC	FC16726-6	NPOC.met	1.000	NPOC:4.484mg/L	SM5310B SW846 9060A	Completed	7/1/2024 9:45:05 PM	30
31	Unknown	NPOC	FC16726-7	NPOC.met	1.000	NPOC:24.19mg/L	SM5310B SW846 9060A	Completed	7/1/2024 10:08:11 PM	31
32	Unknown	NPOC	FC16726-8	NPOC.met	1.000	NPOC:1.222mg/L	SM5310B SW846 9060A	Completed	7/1/2024 10:30:22 PM	32
33	Unknown	NPOC	FC16729-1	NPOC.met	1.000	NPOC:7.324mg/L	SM5310B SW846 9060A	Completed	7/1/2024 10:51:58 PM	33
34	Unknown	NPOC	FC16590-1	NPOC.met	1.000	NPOC:14.12mg/L	SM5310B SW846 9060A	Completed	7/1/2024 11:14:32 PM	34
35	Unknown	NPOC	GP40177-S1	NPOC.met	1.000	NPOC:29.34mg/L	SM5310B SW846 9060A	Completed	7/1/2024 11:37:35 PM	35
36	Unknown	NPOC	GP40177-S2	NPOC.met	1.000	NPOC:29.54mg/L	SM5310B SW846 9060A	Completed	7/2/2024 12:00:20 AM	36
37	Unknown	NPOC	FC16727-1	NPOC.met	1.000	NPOC:32.53mg/L	SM5310B SW846 9060A	Completed	7/2/2024 12:23:46 AM	37
38	Unknown	NPOC	FC16727-2	NPOC.met	1.000	NPOC:5.829mg/L	SM5310B SW846 9060A	Completed	7/2/2024 12:44:45 AM	38
39	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.26mg/L	SM5310B SW846 9060A	Completed	7/2/2024 1:07:31 AM	39
40	Unknown	NPOC	GP40177-MB1	NPOC.met	1.000	NPOC:-0.04937mg/L	SM5310B SW846 9060A	Completed	7/2/2024 1:28:38 AM	40

	Type	Analysis	Sample Name	Origin	Manual Dilution	Result	Comment	Status	Date / Time	Vial
41	Unknown	NPOC	GP40177-B1	NPOC.met	1.000	NPOC:15.47mg/L	SM5310B SW846 9060A	Completed	7/2/2024 1:50:55 AM	41
42	Unknown	NPOC	FC16727-3	NPOC.met	1.000	NPOC:32.67mg/L	SM5310B SW846 9060A	Completed	7/2/2024 2:13:49 AM	42
43	Unknown	NPOC	FC16727-4	NPOC.met	1.000	NPOC:0.6865mg/L	SM5310B SW846 9060A	Completed	7/2/2024 2:35:22 AM	43
44	Unknown	NPOC	FC16749-1	NPOC.met	1.000	NPOC:0.05177mg/L	SM5310B SW846 9060A	Completed	7/2/2024 2:54:37 AM	44
45	Unknown	NPOC	FC16772-1	NPOC.met	1.000	NPOC:0.03365mg/L	SM5310B SW846 9060A	Completed	7/2/2024 3:13:44 AM	45
46	Unknown	NPOC	FC16772-3	NPOC.met	1.000	NPOC:0.5964mg/L	SM5310B SW846 9060A	Completed	7/2/2024 3:35:27 AM	46
47	Unknown	NPOC	FC16772-4	NPOC.met	1.000	NPOC:0.7354mg/L	SM5310B SW846 9060A	Completed	7/2/2024 3:56:53 AM	47
48	Unknown	NPOC	FC16778-2	NPOC.met	1.000	NPOC:1.608mg/L	SM5310B SW846 9060A	Completed	7/2/2024 4:19:28 AM	48
49	Unknown	NPOC	GP40177-S3	NPOC.met	1.000	NPOC:17.11mg/L	SM5310B SW846 9060A	Completed	7/2/2024 4:41:47 AM	49
50	Unknown	NPOC	GP40177-S4	NPOC.met	1.000	NPOC:17.07mg/L	SM5310B SW846 9060A	Completed	7/2/2024 5:04:24 AM	50
51	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.25mg/L	SM5310B SW846 9060A	Completed	7/2/2024 5:26:43 AM	51
52	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.1059mg/L	SM5310B SW846 9060A	Completed	7/2/2024 5:45:45 AM	52
53	Unknown	NPOC	FC16778-3	NPOC.met	1.000	NPOC:6.703mg/L	SM5310B SW846 9060A	Completed	7/2/2024 6:07:19 AM	53
54	Unknown	NPOC	FC16778-4	NPOC.met	1.000	NPOC:1.969mg/L	SM5310B SW846 9060A	Completed	7/2/2024 6:30:06 AM	54
55	Unknown	NPOC	FC16778-5	NPOC.met	1.000	NPOC:6.805mg/L	SM5310B SW846 9060A	Completed	7/2/2024 6:54:21 AM	55
56	Unknown	NPOC	FC16779-1	NPOC.met	1.000	NPOC:7.631mg/L	SM5310B SW846 9060A	Completed	7/2/2024 7:18:05 AM	56
57	Unknown	NPOC	FC16782-1	NPOC.met	1.000	NPOC:1.903mg/L	SM5310B SW846 9060A	Completed	7/2/2024 7:41:02 AM	57
58	Unknown	NPOC	FC16782-2	NPOC.met	1.000	NPOC:15.64mg/L	SM5310B SW846 9060A	Completed	7/2/2024 8:03:38 AM	58
59	Unknown	NPOC	FC16782-3	NPOC.met	1.000	NPOC:5.173mg/L	SM5310B SW846 9060A	Completed	7/2/2024 8:24:50 AM	59
60	Unknown	NPOC	FC16782-4	NPOC.met	1.000	NPOC:1.190mg/L	SM5310B SW846 9060A	Completed	7/2/2024 8:44:44 AM	60
61	Unknown	NPOC	FC16792-2	NPOC.met	1.000	NPOC:0.03522mg/L	SM5310B SW846 9060A	Completed	7/2/2024 9:05:56 AM	61
62	Unknown	NPOC	FC16792-3	NPOC.met	1.000	NPOC:0.00259mg/L	SM5310B SW846 9060A	Completed	7/2/2024 9:27:02 AM	62
63	Unknown	NPOC	CCV	NPOC.met	1.000	NPOC:15.30mg/L	SM5310B SW846 9060A	Completed	7/2/2024 9:50:17 AM	63
64	Unknown	NPOC	CCB	NPOC.met	1.000	NPOC:-0.1248mg/L	SM5310B SW846 9060A	Completed	7/2/2024 10:11:29 AM	64

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	BLANK
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

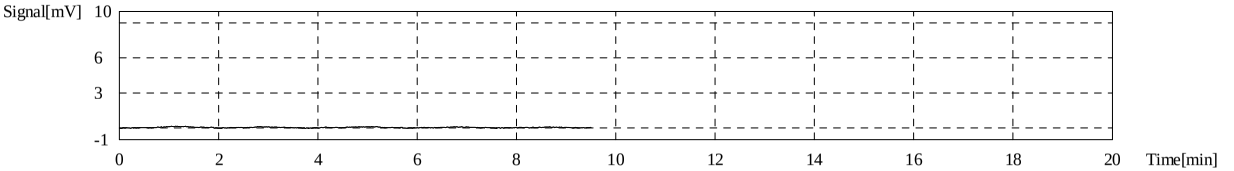
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.08812mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2367	-0.09448mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:36:51 AM
2	0.3325	-0.07088mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:39:01 AM
3	0.3909	-0.05649mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:41:08 AM
4	0.000	-0.1528mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:43:15 AM
5	0.09000	-0.1306mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:45:22 AM

Mean Area	0.2625
Mean Conc.	-0.08812mg/L



Sample

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample Name: 500
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

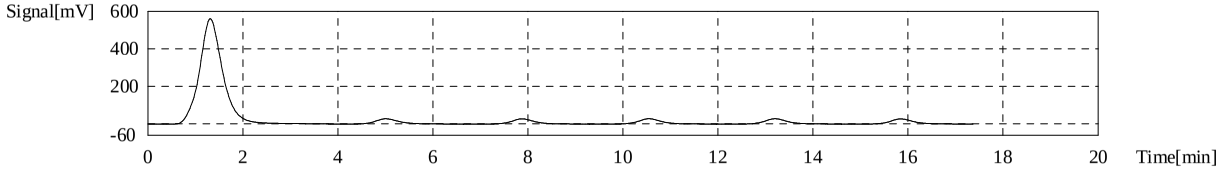
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:486.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1892	512.0mg/L	50uL	1.000	R	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:59:46 AM
2	94.08	506.7mg/L	40uL	16.00	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:13:20 AM
3	88.89	478.6mg/L	40uL	16.00		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:16:13 AM
4	91.79	494.3mg/L	40uL	16.00		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:19:06 AM
5	90.84	489.1mg/L	40uL	16.00		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:21:57 AM
6	89.92	484.2mg/L	40uL	16.00		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:24:57 AM

Mean Area 90.36
Mean Conc. 486.5mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.15mg/L

1. Det

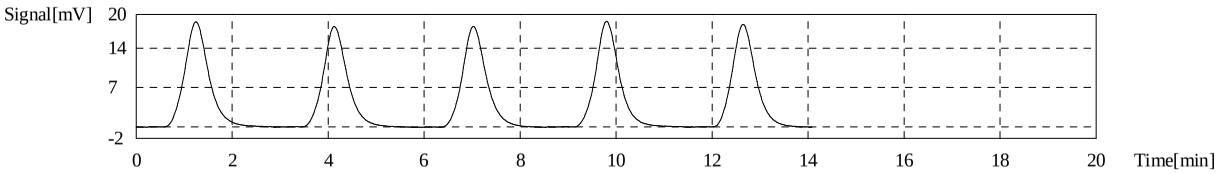
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	65.32	15.94mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:38:26 AM
2	61.89	15.10mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:41:32 AM
3	61.66	15.04mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:44:31 AM
4	63.21	15.42mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:47:38 AM
5	61.76	15.06mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:50:30 AM

Mean Area 62.13
Mean Conc. 15.15mg/L



Sample

Sample Name: GP40176-MB1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.04984mg/L

1. Det

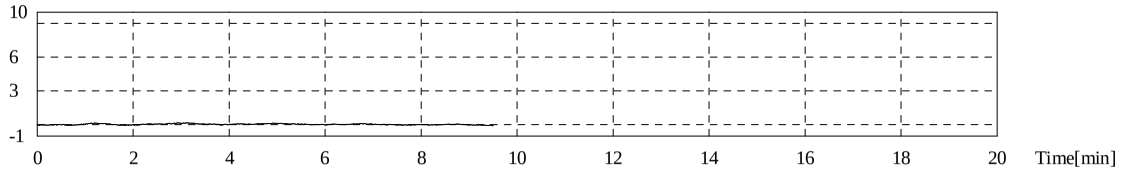
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5026	-0.02897mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:03:01 PM
2	0.6031	-0.00421mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:05:09 PM
3	0.5659	-0.01337mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:07:17 PM
4	0.000	-0.1528mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:09:25 PM
5	0.000	-0.1528mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:11:33 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 0.4179
Mean Conc. -0.04984mg/L



Sample

Sample Name: GP40176-B1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

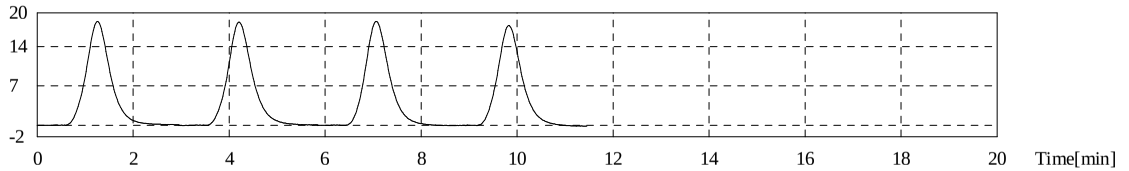
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.58	15.51mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:25:07 PM
2	64.37	15.71mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:28:17 PM
3	63.31	15.45mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:31:19 PM
4	62.23	15.18mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:34:23 PM

Mean Area 63.37
Mean Conc. 15.46mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16586-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

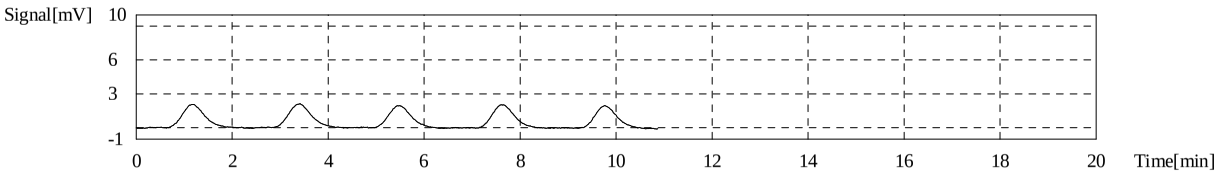
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.449mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.639	1.483mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:47:19 PM
2	7.096	1.595mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:49:39 PM
3	6.438	1.433mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:52:01 PM
4	6.524	1.455mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:54:26 PM
5	6.412	1.427mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 12:56:54 PM

Mean Area 6.503
Mean Conc. 1.449mg/L



Sample

Sample Name: GP40176-S1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.72mg/L

TOC-Control L Report

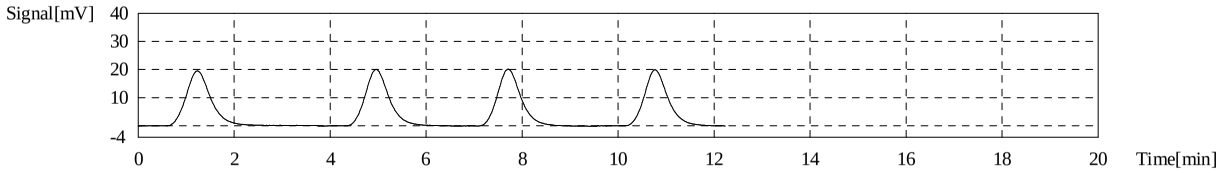
toc 3 aq 07-01-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	69.47	16.96mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:11:17 PM
2	68.46	16.71mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:14:18 PM
3	68.42	16.70mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:17:34 PM
4	67.59	16.50mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:20:30 PM

Mean Area 68.49
Mean Conc. 16.72mg/L



Sample

Sample Name: GP40176-S2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.18mg/L

1. Det

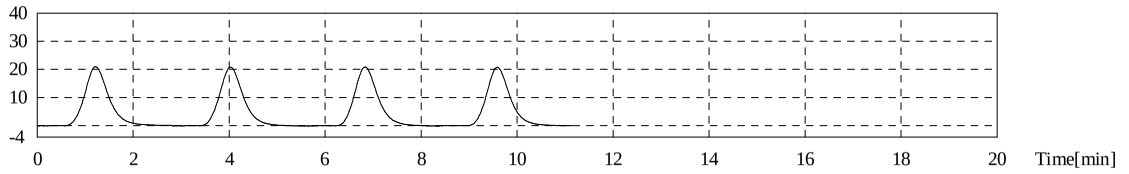
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.77	17.53mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:34:01 PM
2	70.65	17.25mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:37:06 PM
3	69.96	17.08mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:40:06 PM
4	69.07	16.86mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:43:08 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 70.36
Mean Conc. 17.18mg/L



Sample

Sample Name: FC16588-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

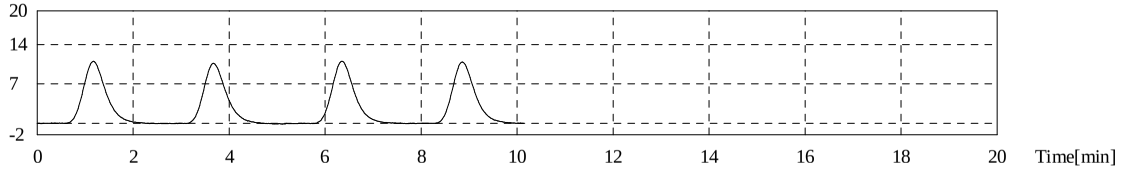
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.571mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.91	8.695mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:56:21 PM
2	34.88	8.441mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 1:59:14 PM
3	35.65	8.630mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:02:01 PM
4	35.20	8.520mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:04:41 PM

Mean Area 35.41
Mean Conc. 8.571mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: GP40176-S3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

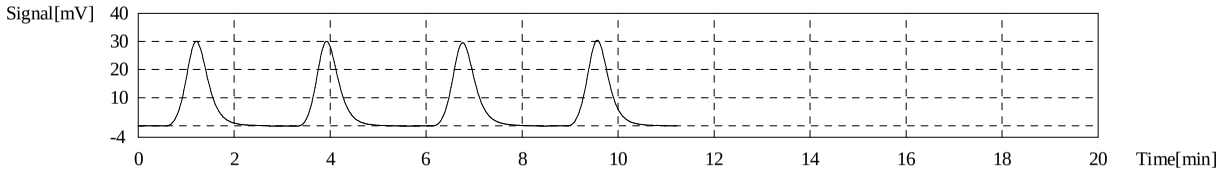
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.26mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.23	24.30mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:18:07 PM
2	98.70	24.16mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:21:12 PM
3	99.24	24.30mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:24:14 PM
4	99.25	24.30mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:27:19 PM

Mean Area 99.11
Mean Conc. 24.26mg/L



Sample

Sample Name: GP40176-S4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.37mg/L

1. Det

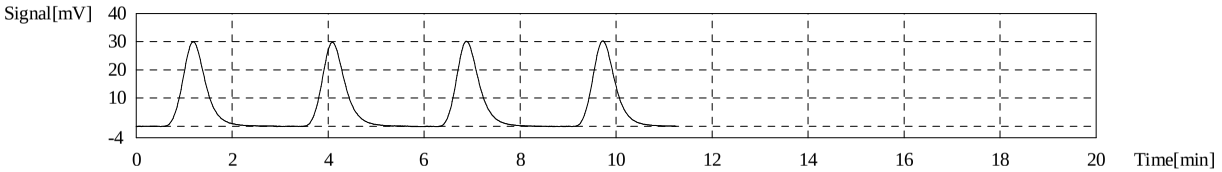
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.75	24.42mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:40:56 PM
2	99.09	24.26mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:43:59 PM
3	100.1	24.51mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:47:02 PM
4	99.15	24.28mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 2:49:59 PM

Mean Area 99.52
Mean Conc. 24.37mg/L



Sample

Sample Name: FC16592-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.167mg/L

1. Det

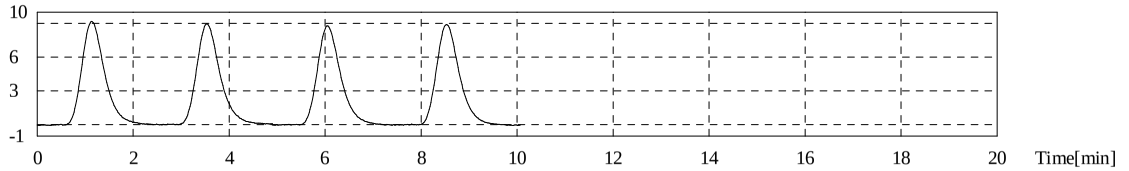
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.12	7.268mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:03:05 PM
2	29.88	7.209mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:05:52 PM
3	29.33	7.073mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:08:39 PM
4	29.51	7.118mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:11:33 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 29.71
Mean Conc. 7.167mg/L



Sample

Sample Name: FC16592-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

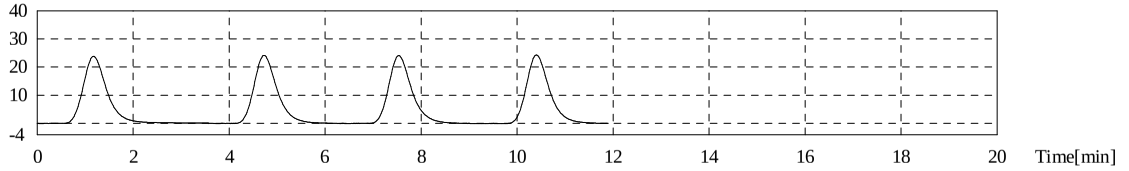
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.42	19.91mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:25:49 PM
2	80.60	19.71mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:28:54 PM
3	80.19	19.60mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:31:59 PM
4	80.11	19.58mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:34:55 PM

Mean Area 80.58
Mean Conc. 19.70mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16670-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

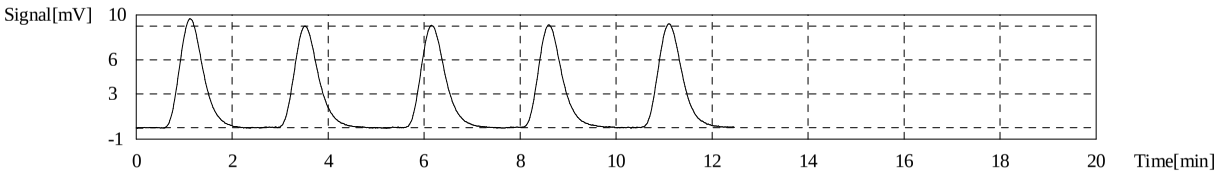
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.539mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.76	7.918mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:48:00 PM
2	30.91	7.463mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:50:51 PM
3	31.26	7.549mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:53:32 PM
4	31.01	7.487mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:56:15 PM
5	31.70	7.657mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 3:58:58 PM

Mean Area 31.22
Mean Conc. 7.539mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.24mg/L

TOC-Control L Report

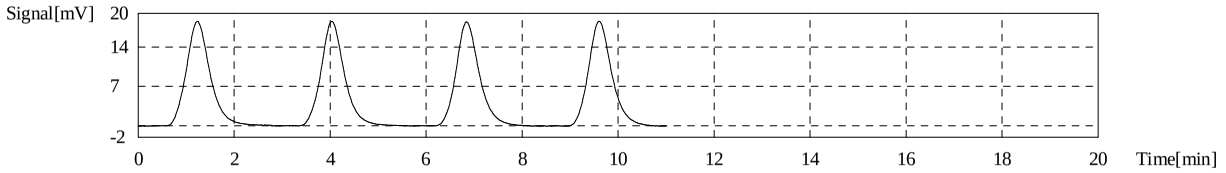
toc 3 aq 07-01-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.29	15.44mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:12:22 PM
2	62.19	15.17mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:15:27 PM
3	61.98	15.12mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:18:26 PM
4	62.51	15.25mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:21:19 PM

Mean Area 62.49
Mean Conc. 15.24mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01315mg/L

1. Det

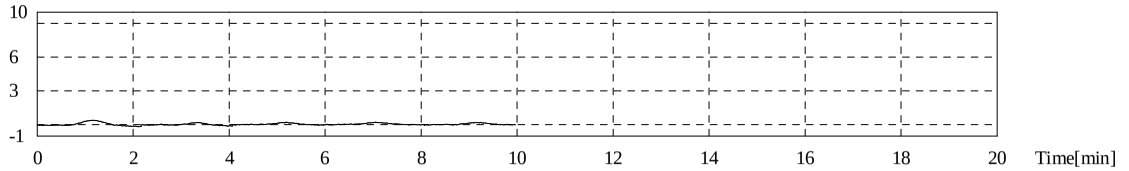
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.635	0.2500mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:34:11 PM
2	0.8152	0.04805mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:36:20 PM
3	0.5677	-0.01293mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:38:29 PM
4	0.4657	-0.03806mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:40:50 PM
5	0.4186	-0.04966mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:42:58 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 0.5668
Mean Conc. -0.01315mg/L



Sample

Sample Name: FC16680-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

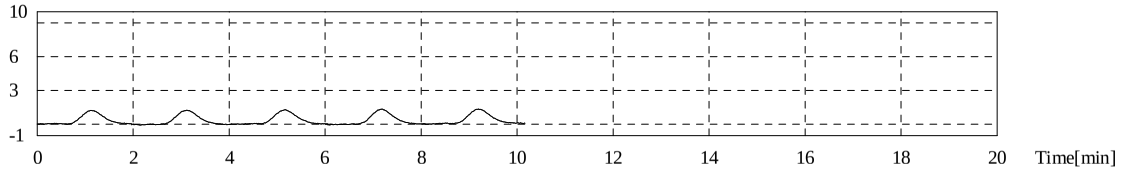
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8552mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.774	0.7770mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:55:33 PM
2	4.096	0.8564mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 4:57:53 PM
3	3.931	0.8157mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:00:08 PM
4	4.178	0.8766mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:02:24 PM
5	4.161	0.8724mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:04:44 PM

Mean Area 4.092
Mean Conc. 0.8552mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16680-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

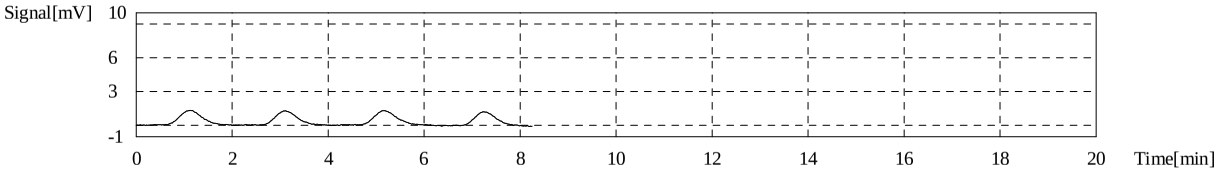
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8390mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.084	0.8534mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:17:21 PM
2	3.946	0.8194mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:19:38 PM
3	4.115	0.8610mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:21:57 PM
4	3.957	0.8221mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:24:19 PM

Mean Area 4.026
Mean Conc. 0.8390mg/L



Sample

Sample Name: FC16680-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.871mg/L

TOC-Control L Report

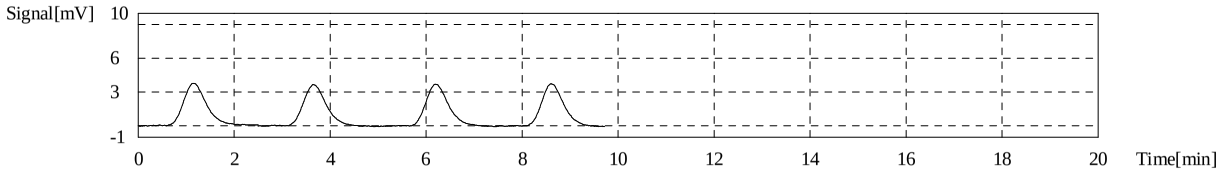
toc 3 aq 07-01-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.49	2.924mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:37:31 PM
2	12.23	2.860mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:40:19 PM
3	12.41	2.905mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:42:57 PM
4	11.97	2.796mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:45:26 PM

Mean Area 12.27
Mean Conc. 2.871mg/L



Sample

Sample Name: FC16680-5
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6664mg/L

1. Det

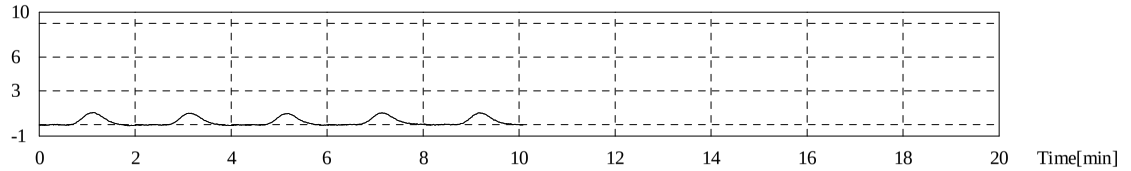
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.536	0.7184mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 5:58:09 PM
2	3.415	0.6886mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:00:26 PM
3	3.240	0.6455mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:02:40 PM
4	3.406	0.6864mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:04:56 PM
5	3.239	0.6452mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:07:11 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 3.325
Mean Conc. 0.6664mg/L



Sample

Sample Name: FC16680-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

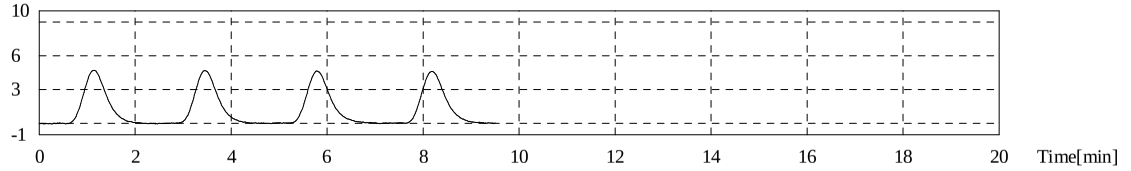
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.678mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.70	3.715mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:20:07 PM
2	15.29	3.614mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:22:40 PM
3	15.56	3.681mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:25:17 PM
4	15.64	3.701mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:27:59 PM

Mean Area 15.55
Mean Conc. 3.678mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16680-7
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

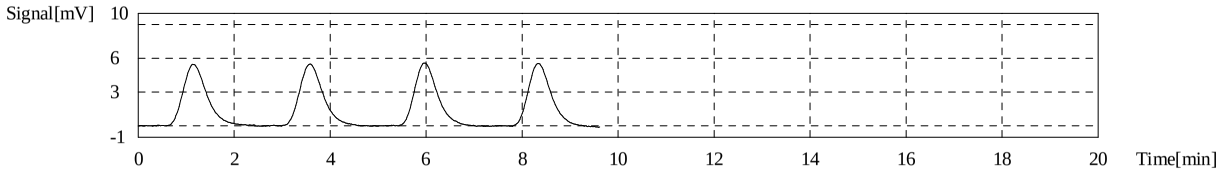
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.448mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.44	4.390mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:41:05 PM
2	18.78	4.474mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:43:45 PM
3	18.75	4.467mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:46:19 PM
4	18.72	4.459mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 6:48:57 PM

Mean Area 18.67
Mean Conc. 4.448mg/L



Sample

Sample Name: FC16694-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8050mg/L

1. Det

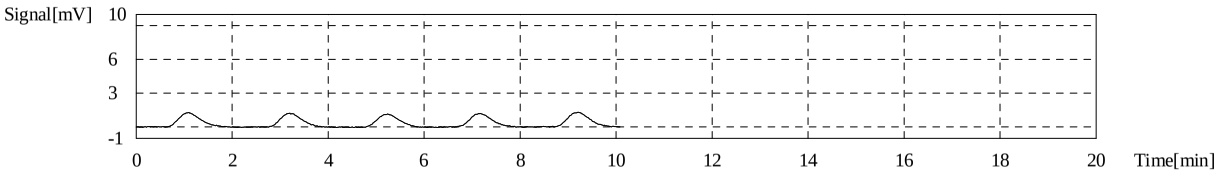
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.056	0.8465mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:01:45 PM
2	3.865	0.7994mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:03:59 PM
3	3.787	0.7802mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:06:08 PM
4	3.842	0.7938mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:08:24 PM
5	4.239	0.8916mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:10:35 PM

Mean Area 3.888
Mean Conc. 0.8050mg/L



Sample

Sample Name: FC16694-9
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5618mg/L

1. Det

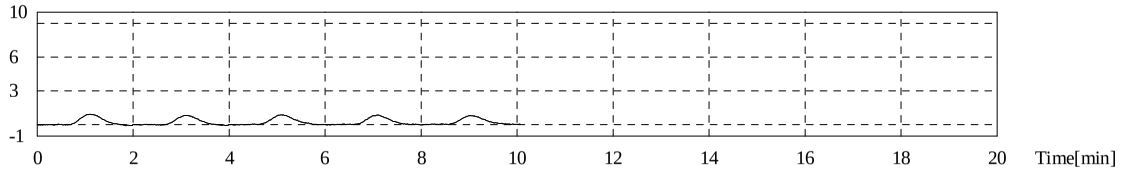
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.079	0.6058mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:23:10 PM
2	2.871	0.5545mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:25:25 PM
3	2.789	0.5343mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:27:40 PM
4	2.596	0.4868mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:29:52 PM
5	2.862	0.5523mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:32:13 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 2.900
Mean Conc. 0.5618mg/L



Sample

Sample Name: FC16726-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

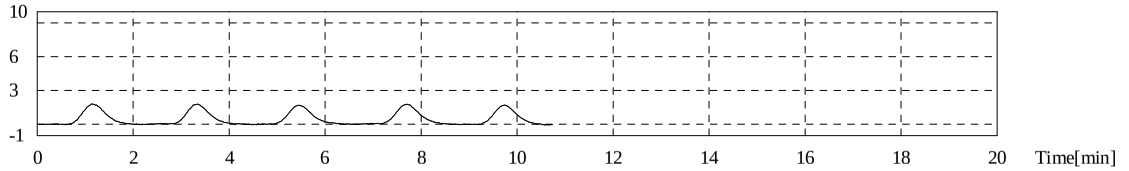
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.250mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.153	1.363mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:45:00 PM
2	5.528	1.209mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:47:19 PM
3	5.900	1.301mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:49:47 PM
4	5.644	1.238mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:52:03 PM
5	5.700	1.252mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 7:54:25 PM

Mean Area 5.693
Mean Conc. 1.250mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16726-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

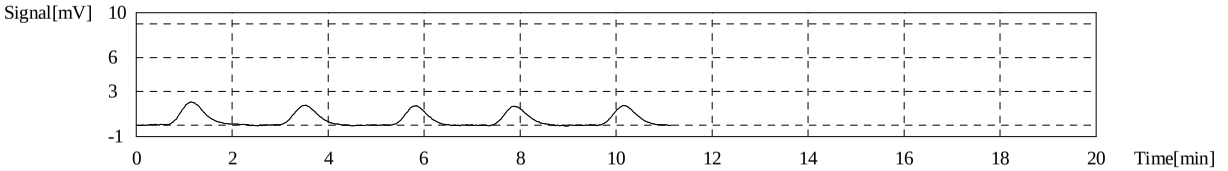
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.307mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.192	1.619mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:07:21 PM
2	6.449	1.436mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:09:57 PM
3	5.458	1.192mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:12:16 PM
4	5.907	1.303mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:14:46 PM
5	5.882	1.296mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:17:09 PM

Mean Area 5.924
Mean Conc. 1.307mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

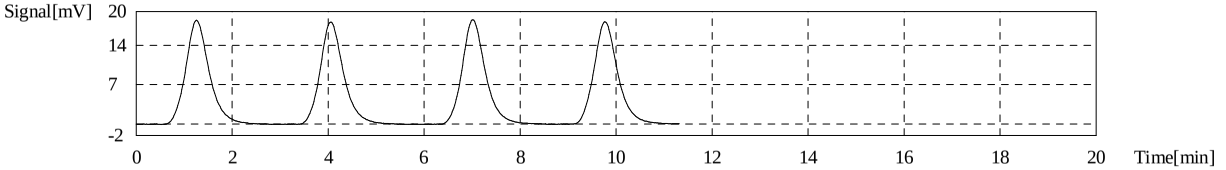
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.57	15.51mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:30:35 PM
2	61.67	15.04mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:33:46 PM
3	62.35	15.21mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:36:46 PM
4	62.47	15.24mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:39:47 PM

Mean Area 62.52
Mean Conc. 15.25mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.09622mg/L

1. Det

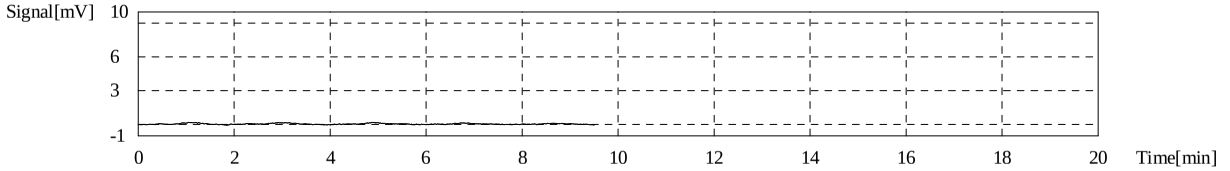
Anal.: NPOC

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4951	-0.03082mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:52:24 PM
2	0.2482	-0.09165mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:54:32 PM
3	0.3369	-0.06979mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:56:40 PM
4	0.2395	-0.09379mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 8:58:49 PM
5	0.09390	-0.1297mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:00:57 PM

Mean Area 0.2296
Mean Conc. -0.09622mg/L



Sample

Sample Name: FC16726-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.237mg/L

1. Det

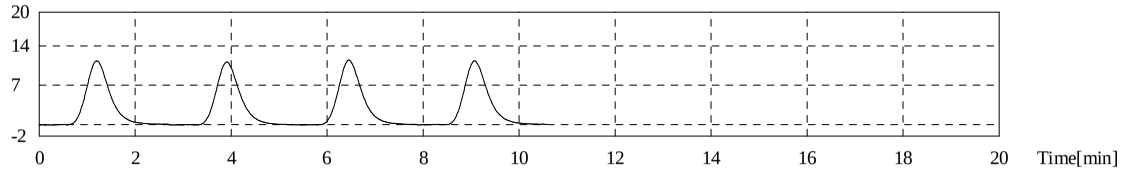
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.88	9.180mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:14:17 PM
2	37.50	9.086mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:17:04 PM
3	38.59	9.355mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:19:55 PM
4	38.47	9.325mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:22:52 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 38.11
Mean Conc. 9.237mg/L



Sample

Sample Name: FC16726-6
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

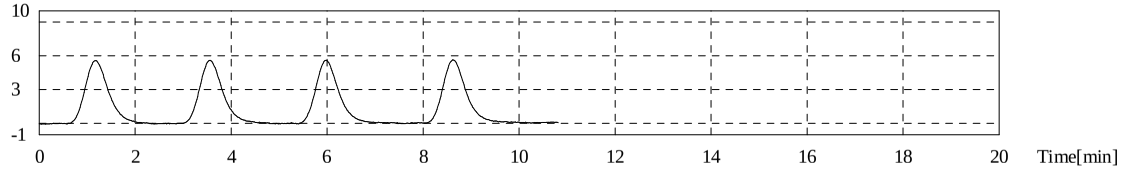
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.484mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.87	4.496mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:35:56 PM
2	18.59	4.427mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:38:35 PM
3	18.61	4.432mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:41:28 PM
4	19.21	4.580mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:45:05 PM

Mean Area 18.82
Mean Conc. 4.484mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16726-7
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

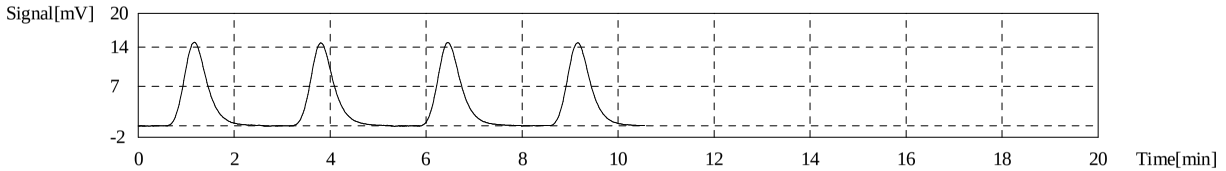
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.91	24.29mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 9:59:28 PM
2	49.61	24.14mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:02:24 PM
3	49.79	24.23mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:05:22 PM
4	49.52	24.10mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:08:11 PM

Mean Area 49.71
Mean Conc. 24.19mg/L



Sample

Sample Name: FC16726-8
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.222mg/L

1. Det

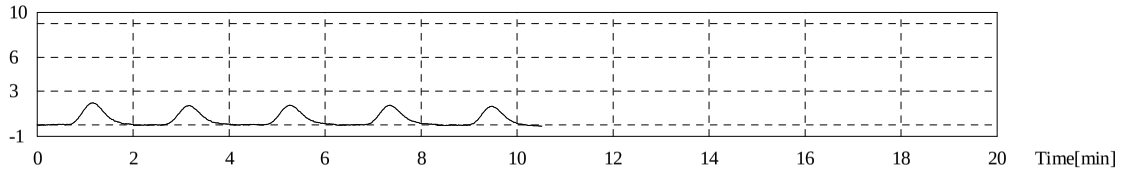
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.135	1.359mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:20:54 PM
2	5.615	1.231mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:23:14 PM
3	5.700	1.252mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:25:35 PM
4	5.472	1.195mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:27:57 PM
5	5.529	1.209mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:30:22 PM

Mean Area 5.579
Mean Conc. 1.222mg/L



Sample

Sample Name: FC16729-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.324mg/L

1. Det

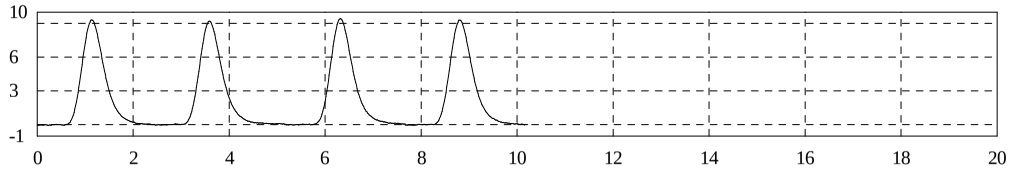
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.32	7.317mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:43:28 PM
2	30.34	7.322mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:46:26 PM
3	30.48	7.357mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:49:09 PM
4	30.25	7.300mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 10:51:58 PM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 30.35
Mean Conc. 7.324mg/L



Sample

Sample Name: FC16590-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

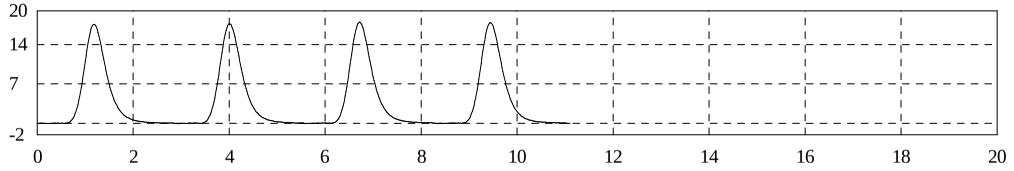
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.12mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.99	13.89mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:05:30 PM
2	57.78	14.08mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:08:28 PM
3	58.19	14.18mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:11:26 PM
4	58.81	14.34mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:14:32 PM

Mean Area 57.94
Mean Conc. 14.12mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: GP40177-S1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

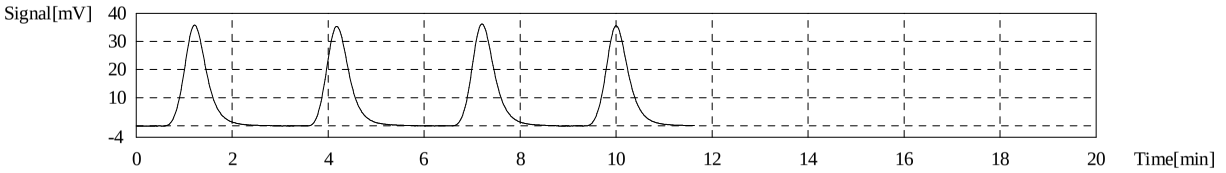
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.34mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	119.7	29.34mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:28:14 PM
2	119.0	29.17mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:31:30 PM
3	121.1	29.68mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:34:30 PM
4	119.0	29.17mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:37:35 PM

Mean Area 119.7
Mean Conc. 29.34mg/L



Sample

Sample Name: GP40177-S2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.54mg/L

1. Det

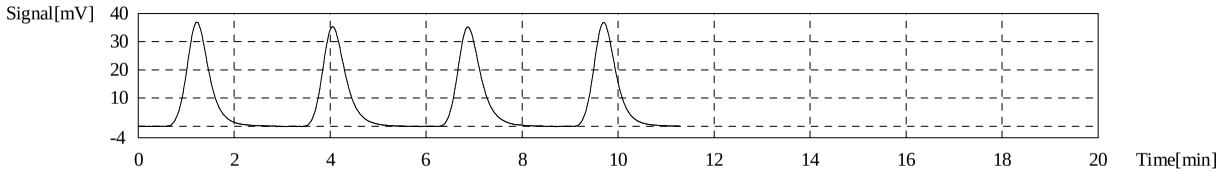
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	121.3	29.73mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:51:10 PM
2	120.0	29.41mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:54:15 PM
3	119.7	29.34mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/1/2024 11:57:19 PM
4	121.0	29.66mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:00:20 AM

Mean Area 120.5
Mean Conc. 29.54mg/L



Sample

Sample Name: FC16727-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.53mg/L

1. Det

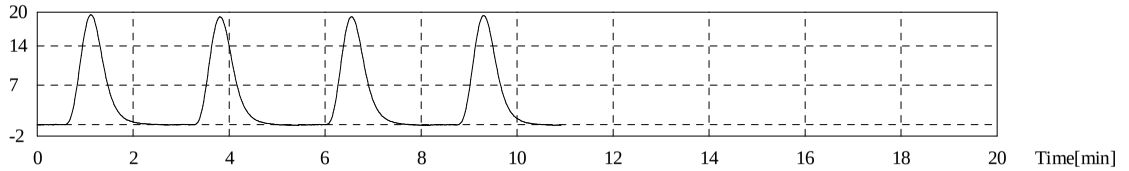
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.97	32.69mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:14:49 AM
2	66.68	32.55mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:17:48 AM
3	66.29	32.36mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:20:47 AM
4	66.60	32.51mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:23:46 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 66.64
Mean Conc. 32.53mg/L



Sample

Sample Name: FC16727-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

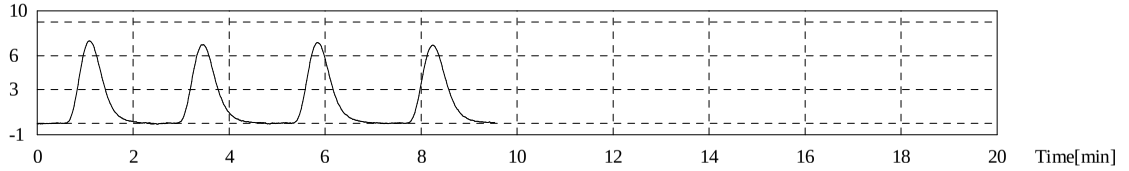
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.829mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.38	5.854mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:36:50 AM
2	24.10	5.785mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:39:28 AM
3	24.49	5.881mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:42:07 AM
4	24.14	5.795mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:44:45 AM

Mean Area 24.28
Mean Conc. 5.829mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

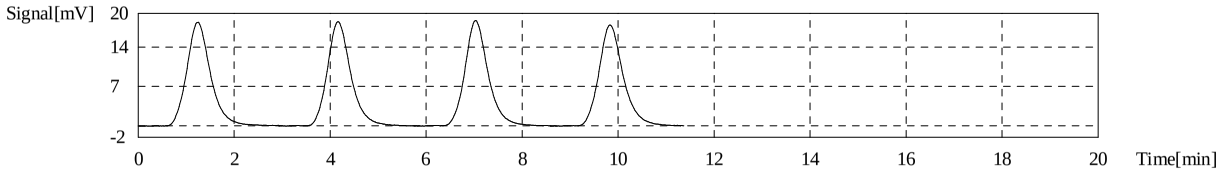
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.26mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.01	15.37mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 12:58:24 AM
2	62.12	15.15mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:01:29 AM
3	62.51	15.25mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:04:31 AM
4	62.54	15.26mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:07:31 AM

Mean Area 62.55
Mean Conc. 15.26mg/L



Sample

Sample Name: GP40177-MB1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.04937mg/L

1. Det

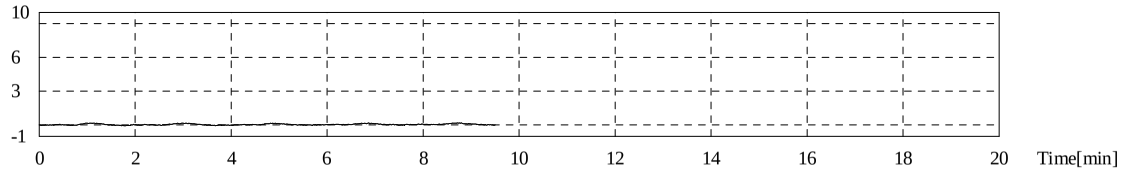
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5540	-0.01630mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:20:09 AM
2	0.5115	-0.02678mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:22:18 AM
3	0.3532	-0.06578mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:24:25 AM
4	0.3513	-0.06624mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:26:32 AM
5	0.4632	-0.03868mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:28:38 AM

Mean Area 0.4198
Mean Conc. -0.04937mg/L



Sample

Sample Name: GP40177-B1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.47mg/L

1. Det

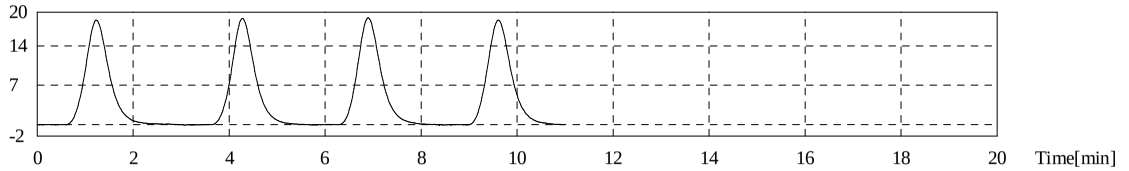
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.59	15.51mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:42:19 AM
2	62.74	15.30mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:45:11 AM
3	63.98	15.61mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:48:06 AM
4	63.37	15.46mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 1:50:55 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 63.42
Mean Conc. 15.47mg/L



Sample

Sample Name: FC16727-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

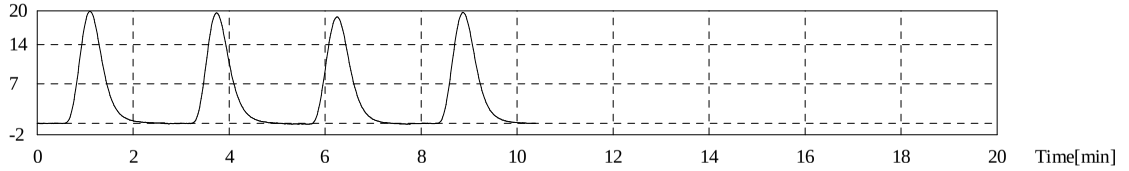
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.67mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.70	32.56mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:05:21 AM
2	66.63	32.53mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:08:04 AM
3	66.76	32.59mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:10:56 AM
4	67.63	33.02mg/L	50uL	2.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:13:49 AM

Mean Area 66.93
Mean Conc. 32.67mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16727-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

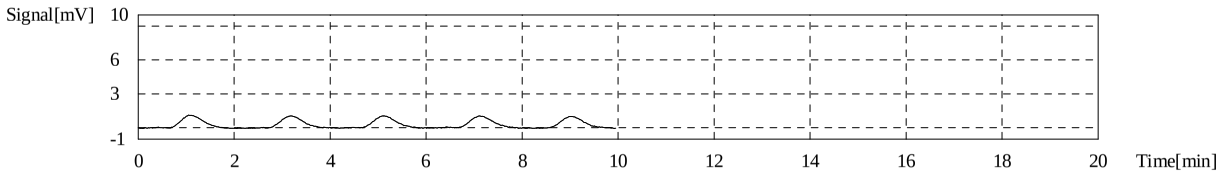
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6865mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.652	0.7470mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:26:36 AM
2	3.322	0.6657mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:28:45 AM
3	3.519	0.7142mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:30:59 AM
4	3.350	0.6726mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:33:06 AM
5	3.435	0.6935mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:35:22 AM

Mean Area 3.407
Mean Conc. 0.6865mg/L



Sample

Sample Name: FC16749-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05177mg/L

TOC-Control L Report

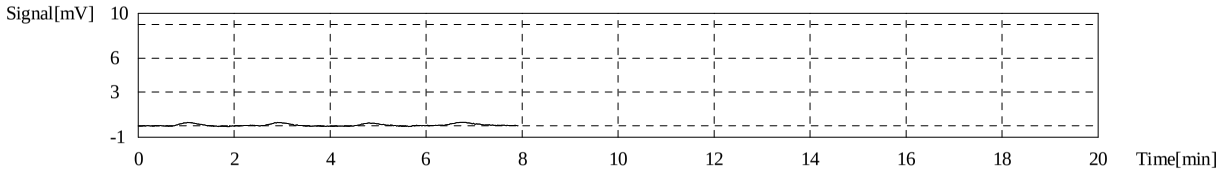
toc 3 aq 07-01-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9114	0.07175mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:47:54 AM
2	0.8322	0.05224mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:50:03 AM
3	0.7930	0.04258mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:52:10 AM
4	0.7846	0.04051mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 2:54:37 AM

Mean Area 0.8303
Mean Conc. 0.05177mg/L



Sample

Sample Name: FC16772-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03365mg/L

1. Det

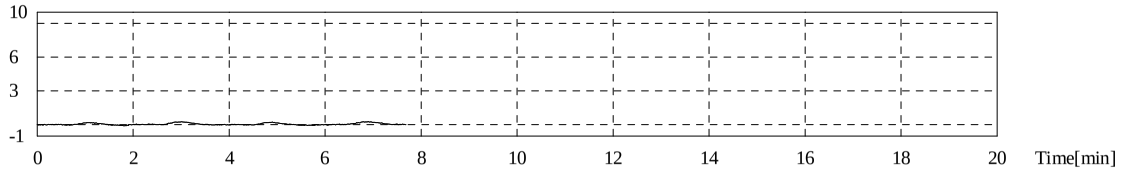
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7209	0.02482mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:07:14 AM
2	0.7817	0.03980mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:09:24 AM
3	0.6946	0.01834mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:11:37 AM
4	0.8298	0.05165mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:13:44 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 0.7568
Mean Conc. 0.03365mg/L



Sample

Sample Name: FC16772-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

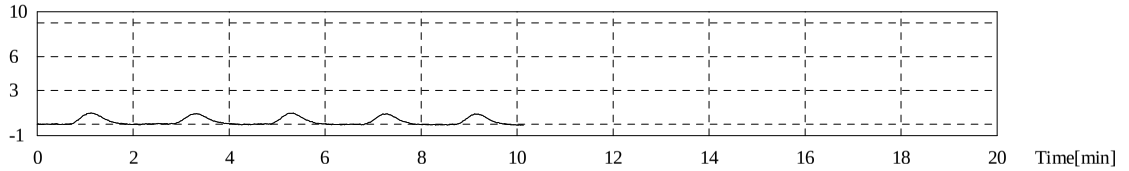
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5964mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.439	0.6945mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:26:37 AM
2	3.018	0.5908mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:28:51 AM
3	3.236	0.6445mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:31:00 AM
4	2.861	0.5521mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:33:09 AM
5	3.049	0.5984mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:35:27 AM

Mean Area 3.041
Mean Conc. 0.5964mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16772-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

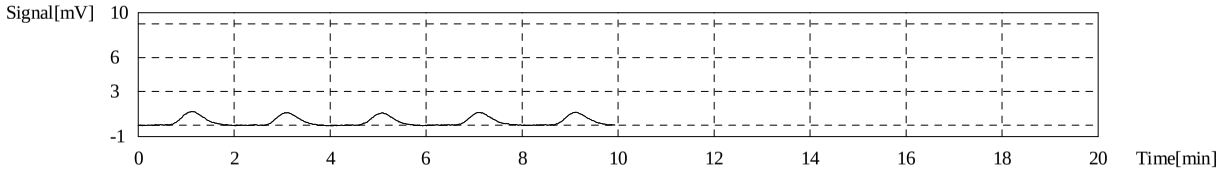
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7354mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.975	0.8265mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:48:02 AM
2	3.532	0.7174mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:50:13 AM
3	3.694	0.7573mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:52:30 AM
4	3.662	0.7494mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:54:44 AM
5	3.533	0.7176mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 3:56:53 AM

Mean Area 3.605
Mean Conc. 0.7354mg/L



Sample

Sample Name: FC16778-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

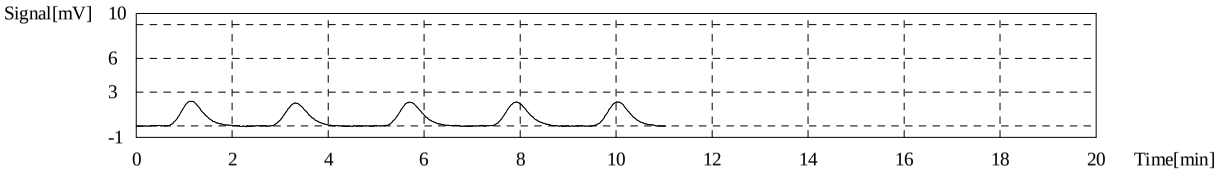
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.608mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.062	1.587mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:09:41 AM
2	7.255	1.635mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:12:18 AM
3	6.921	1.552mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:14:45 AM
4	7.258	1.635mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:17:05 AM
5	7.020	1.577mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:19:28 AM

Mean Area 7.149
Mean Conc. 1.608mg/L



Sample

Sample Name: GP40177-S3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.11mg/L

1. Det

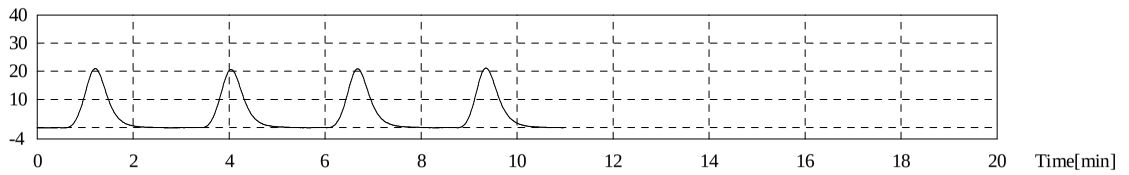
Anal.: NPOC

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	70.51	17.22mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:32:57 AM
2	69.37	16.94mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:35:49 AM
3	69.64	17.00mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:38:45 AM
4	70.80	17.29mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:41:47 AM

Mean Area 70.08
Mean Conc. 17.11mg/L



Sample

Sample Name: GP40177-S4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.07mg/L

1. Det

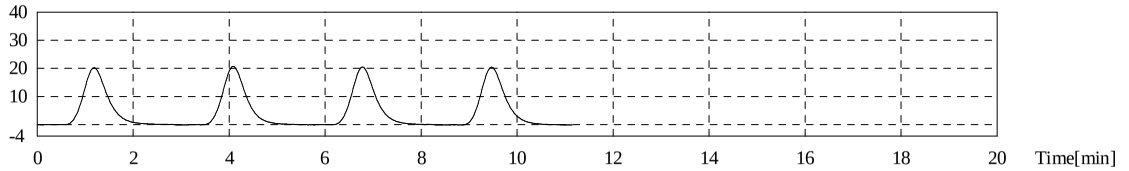
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	70.25	17.16mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:55:24 AM
2	69.51	16.97mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 4:58:22 AM
3	69.24	16.91mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:01:19 AM
4	70.54	17.23mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:04:24 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 69.89
Mean Conc. 17.07mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

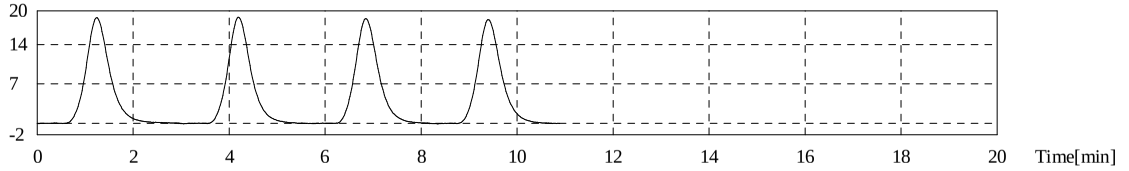
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.91	15.59mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:18:05 AM
2	62.30	15.20mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:21:00 AM
3	61.65	15.04mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:23:46 AM
4	62.24	15.18mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:26:43 AM

Mean Area 62.53
Mean Conc. 15.25mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

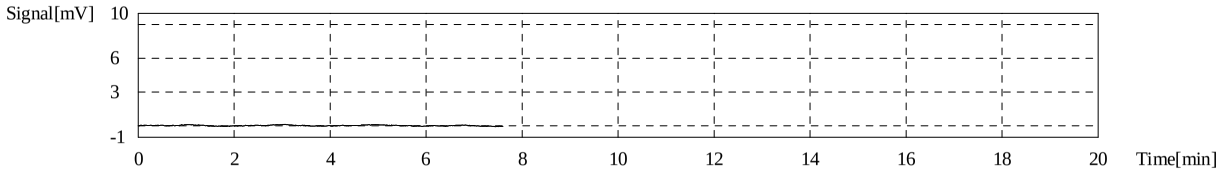
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1059mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.1366	-0.1191mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:39:21 AM
2	0.3328	-0.07080mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:41:30 AM
3	0.1105	-0.1256mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:43:37 AM
4	0.1809	-0.1082mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:45:45 AM

Mean Area 0.1902
Mean Conc. -0.1059mg/L



Sample

Sample Name: FC16778-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.703mg/L

1. Det

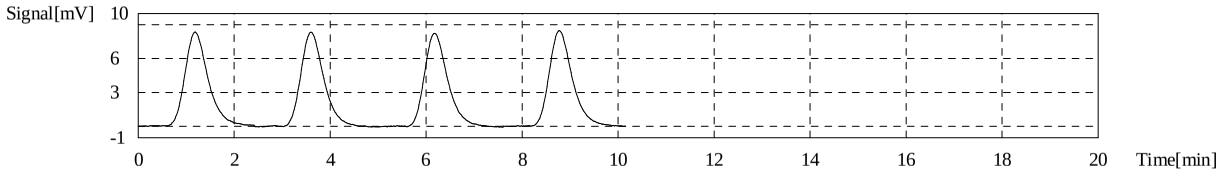
TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.45	6.610mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 5:58:54 AM
2	27.95	6.733mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:01:44 AM
3	27.60	6.647mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:04:33 AM
4	28.30	6.820mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:07:19 AM

Mean Area 27.82
Mean Conc. 6.703mg/L



Sample

Sample Name: FC16778-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.969mg/L

1. Det

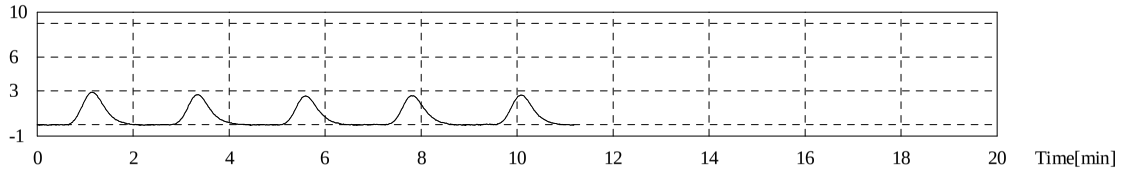
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.662	2.228mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:20:13 AM
2	8.838	2.025mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:22:42 AM
3	8.427	1.923mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:25:08 AM
4	8.586	1.963mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:27:37 AM
5	8.598	1.966mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:30:06 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 8.612
Mean Conc. 1.969mg/L



Sample

Sample Name: FC16778-5
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

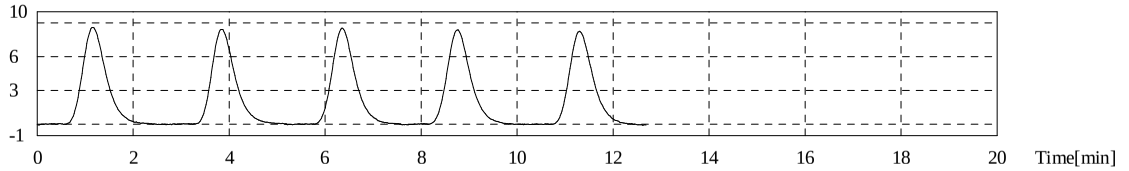
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.805mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	29.37	7.083mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:43:27 AM
2	28.08	6.765mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:46:09 AM
3	28.16	6.785mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:48:48 AM
4	28.60	6.894mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:51:36 AM
5	28.12	6.775mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 6:54:21 AM

Mean Area 28.24
Mean Conc. 6.805mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16779-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

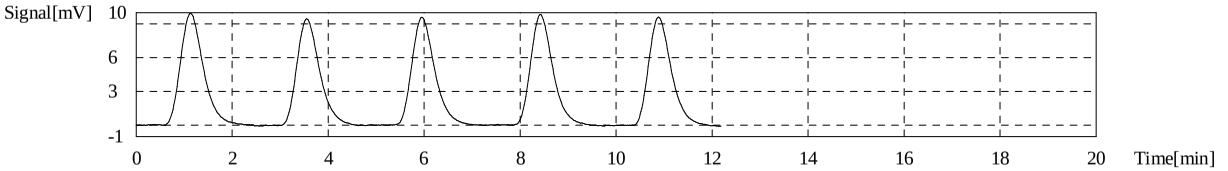
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.631mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.95	7.965mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:07:26 AM
2	31.26	7.549mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:10:02 AM
3	31.56	7.623mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:12:43 AM
4	31.87	7.699mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:15:25 AM
5	31.68	7.652mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:18:05 AM

Mean Area 31.59
Mean Conc. 7.631mg/L



Sample

Sample Name: FC16782-1
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

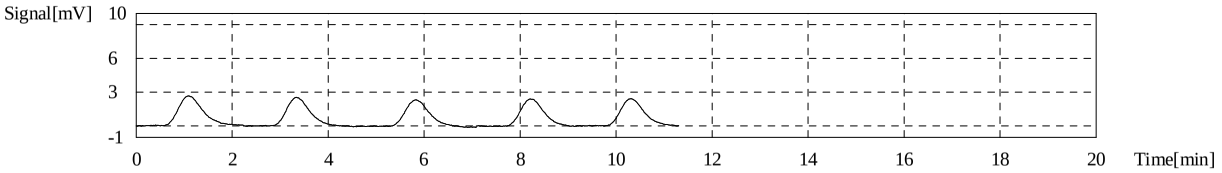
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.903mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.019	2.069mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:30:59 AM
2	8.720	1.996mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:33:39 AM
3	8.227	1.874mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:36:20 AM
4	8.113	1.846mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:38:41 AM
5	8.310	1.895mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:41:02 AM

Mean Area 8.343
Mean Conc. 1.903mg/L



Sample

Sample Name: FC16782-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.64mg/L

1. Det

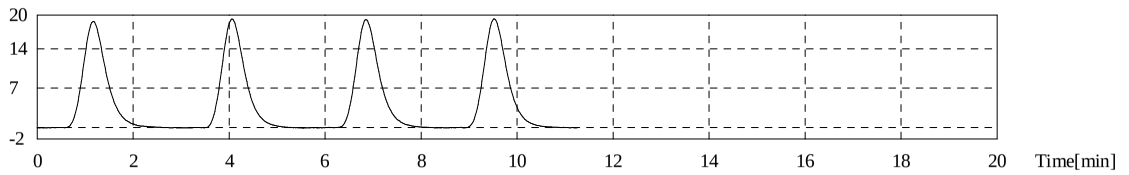
Anal.: NPOC

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.36	15.46mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:54:35 AM
2	63.82	15.57mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 7:57:36 AM
3	64.29	15.69mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:00:30 AM
4	64.87	15.83mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:03:38 AM

Mean Area 64.09
Mean Conc. 15.64mg/L



Sample

Sample Name: FC16782-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.173mg/L

1. Det

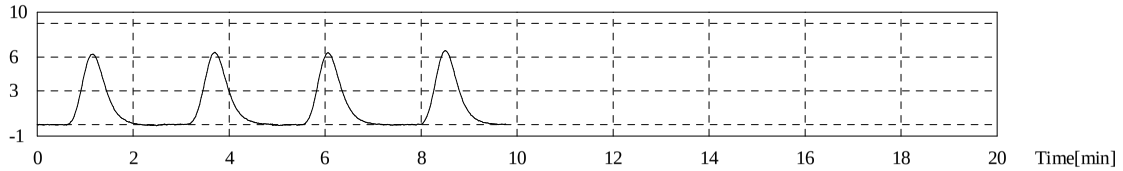
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.77	5.211mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:16:53 AM
2	21.69	5.191mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:19:30 AM
3	21.49	5.142mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:22:11 AM
4	21.52	5.149mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:24:50 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 21.62
Mean Conc. 5.173mg/L



Sample

Sample Name: FC16782-4
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

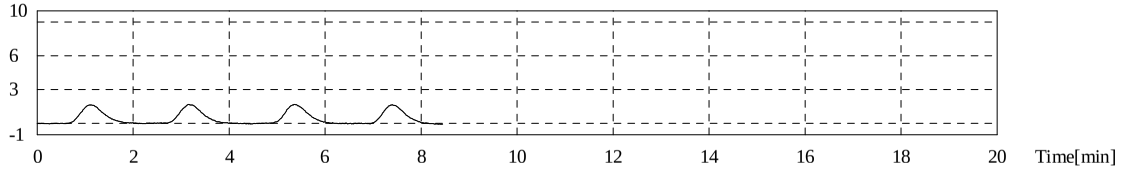
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.190mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.394	1.176mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:37:38 AM
2	5.403	1.178mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:40:05 AM
3	5.597	1.226mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:42:21 AM
4	5.409	1.180mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:44:44 AM

Mean Area 5.451
Mean Conc. 1.190mg/L



TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Sample

Sample Name: FC16792-2
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

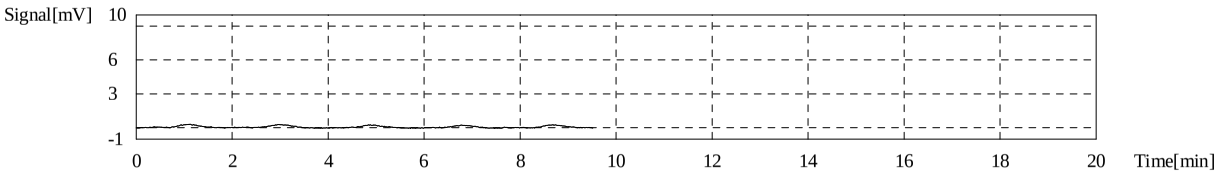
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03522mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7554	0.03332mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:57:23 AM
2	0.7816	0.03977mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 8:59:31 AM
3	0.9840	0.08964mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:01:40 AM
4	0.8356	0.05307mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:03:48 AM
5	0.6800	0.01474mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:05:56 AM

Mean Area 0.7632
Mean Conc. 0.03522mg/L



Sample

Sample Name: FC16792-3
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00259mg/L

TOC-Control L Report

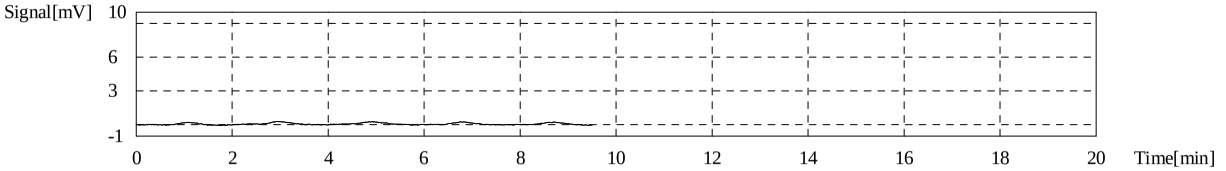
toc 3 aq 07-01-2024.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6250	0.00119mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:18:30 AM
2	0.7971	0.04359mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:20:38 AM
3	0.5392	-0.01995mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:22:46 AM
4	0.6711	0.01255mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:24:54 AM
5	0.6874	0.01656mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:27:02 AM

Mean Area 0.6307
Mean Conc. 0.00259mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.30mg/L

1. Det

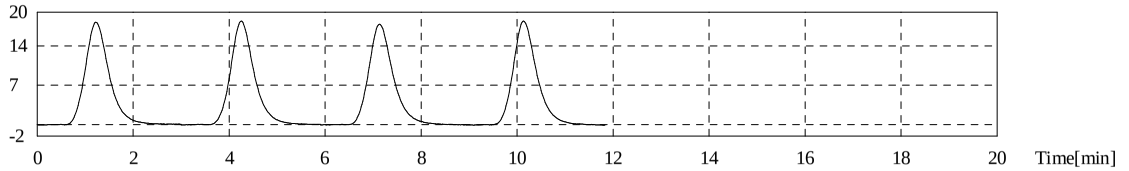
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.50	15.25mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:40:42 AM
2	62.25	15.18mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:43:52 AM
3	62.72	15.30mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:47:08 AM
4	63.38	15.46mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 9:50:17 AM

TOC-Control L Report

toc 3 aq 07-01-2024.tlx

Mean Area 62.71
Mean Conc. 15.30mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

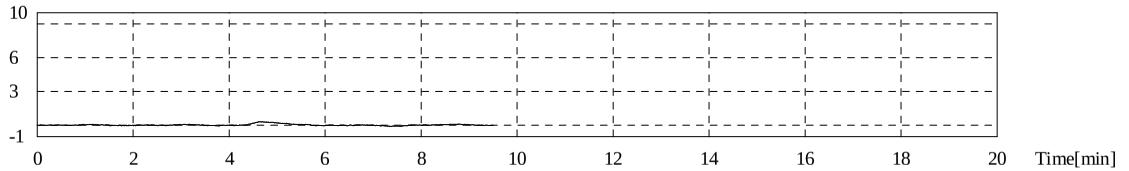
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1248mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.06400	-0.1370mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 10:02:56 AM
2	0.2940	-0.08036mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 10:05:04 AM
3	1.152	0.1310mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 10:07:12 AM
4	0.09710	-0.1289mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 10:09:20 AM
5	0.000	-0.1528mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	7/2/2024 10:11:29 AM

Mean Area 0.1138
Mean Conc. -0.1248mg/L



TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 06-30-2024.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

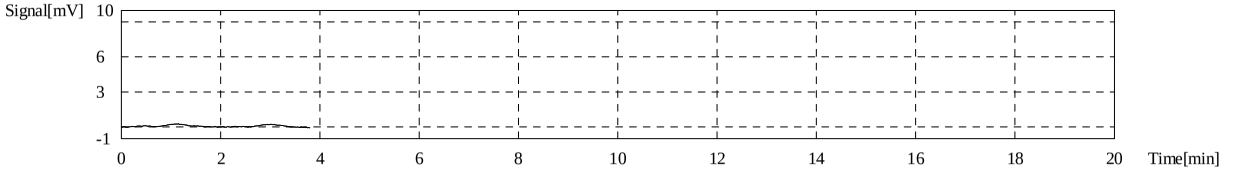
Sample Name:	NPOC METHOD
Sample ID:	Untitled
Cal. Curve:	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.9397	50uL	1.000	*******		6/30/2024 7:16:48 PM
2	0.9850	50uL	1.000	*******		6/30/2024 7:18:55 PM

Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	0.9624



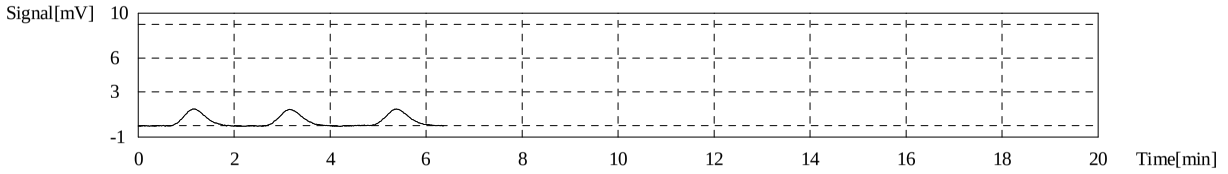
Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.791	50uL	1.000	*******		6/30/2024 7:30:50 PM
2	4.982	50uL	1.000	*******	E	6/30/2024 7:33:16 PM
3	4.794	50uL	1.000	*******		6/30/2024 7:35:38 PM

TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 06-30-2024.tlx

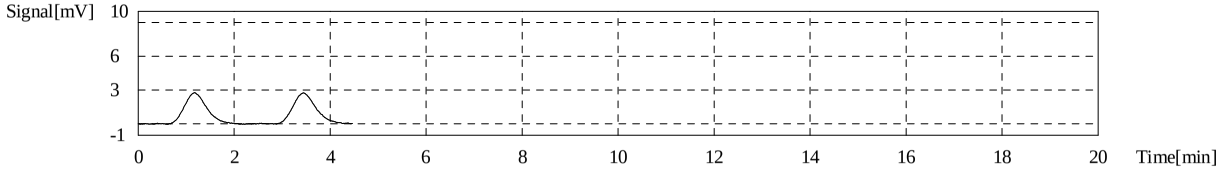
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	4.793



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	9.018	50uL	1.000	*******		6/30/2024 7:47:45 PM
2	9.088	50uL	1.000	*******		6/30/2024 7:50:10 PM

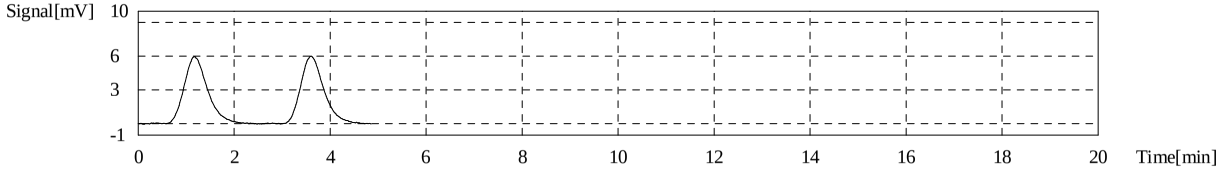
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	9.053



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.33	50uL	1.000	*******		6/30/2024 8:02:32 PM
2	20.10	50uL	1.000	*******		6/30/2024 8:05:11 PM

Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	20.22



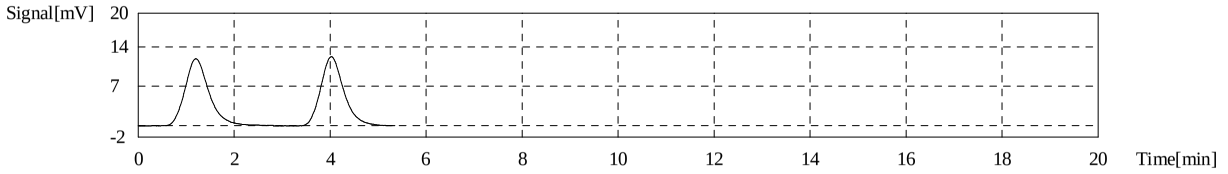
Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	41.04	50uL	1.000	*******		6/30/2024 8:17:55 PM
2	40.77	50uL	1.000	*******		6/30/2024 8:20:40 PM

TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 06-30-2024.tlx

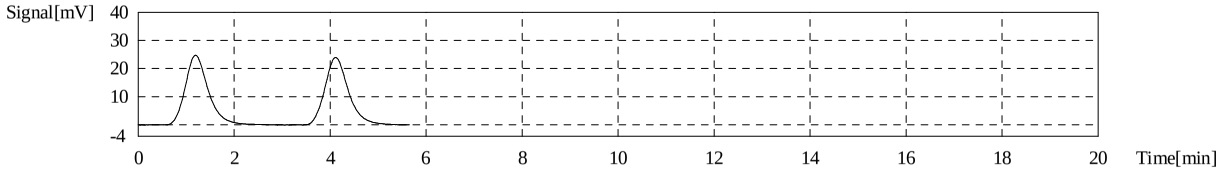
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	40.91



Conc: 20.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	82.22	50uL	1.000	*******		6/30/2024 8:33:29 PM
2	81.61	50uL	1.000	*******		6/30/2024 8:36:27 PM

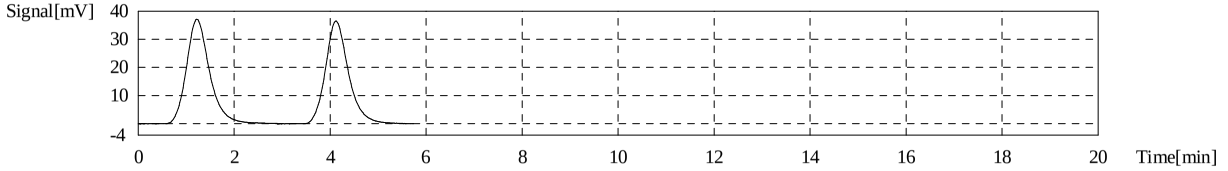
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	81.91



Conc: 30.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	123.9	50uL	1.000	*******		6/30/2024 8:49:16 PM
2	121.1	50uL	1.000	*******		6/30/2024 8:52:21 PM

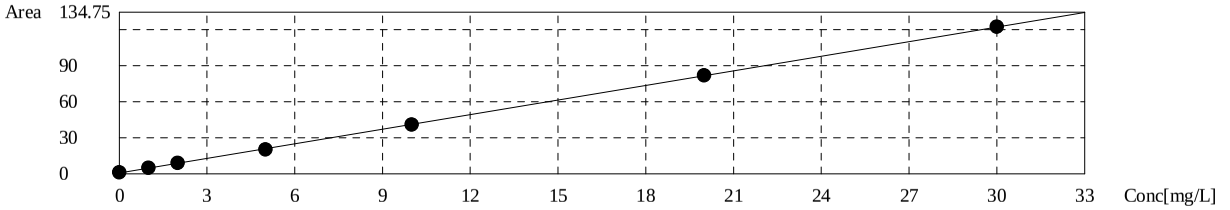
Acid Add.	0.000%
Sparge Gas Flow	80mL/min
Sp. Time	360.0sec
Mean Area	122.5



TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 06-30-2024.tlx

Slope:	4.059
Intercept	0.6202
r^2	0.9999
r	1.0000
RSE(%)	N/A
Zero Shift	No



Sample

Sample Name:	ICV
Sample ID:	Untitled
Origin:	NPOC.met
Status	Completed
Chk. Result	

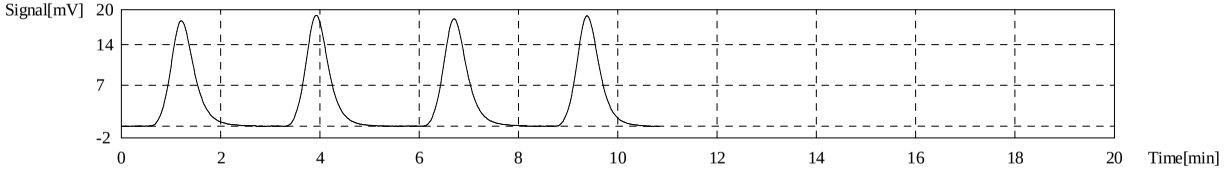
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:15.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.28	14.95mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:05:45 PM
2	62.96	15.36mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:08:48 PM
3	62.10	15.15mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:11:41 PM
4	62.48	15.24mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:14:36 PM

Mean Area	62.20
Mean Conc.	15.17mg/L



TOC-Control L Report

tc 3 - toc 3 aq Cal-Curves 06-30-2024.tlx

Sample

Sample Name: Low ICV
Sample ID: Untitled
Origin: NPOC.met
Status Completed
Chk. Result

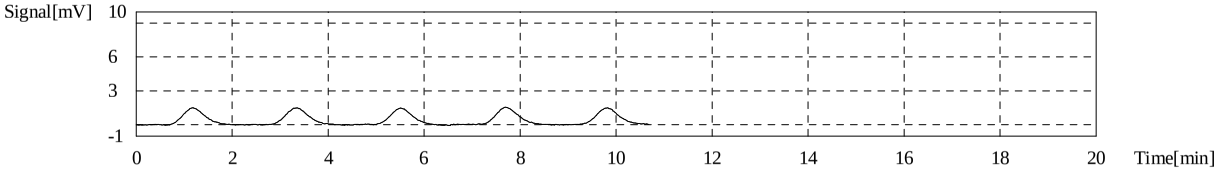
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.014mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.777	1.024mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:27:27 PM
2	4.996	1.078mg/L	50uL	1.000	E	toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:29:50 PM
3	4.778	1.024mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:32:16 PM
4	4.730	1.013mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:34:34 PM
5	4.657	0.9946mg/L	50uL	1.000		toc 3 aq Cal-Curve 06-30-2024.2024_06_30_19_05_10.cal	6/30/2024 9:36:50 PM

Mean Area 4.736
Mean Conc. 1.014mg/L



SGS Std#	Name Description	Parent Std. #	Parent Name	Parent Vendor	Parent Exp. Date	Parent conc. mg/l	Weight/Vol Used g/ml	Bal.ID#	Pipette#	Final Vol. ml	Final Conc. mg/l	pH paper Lot#	Prep Date	Exp. Date

TOC 4351	Cal. Std #1 1 ppm	WC 2232	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	0.1 ml	-	UU 36927	100	1	230320	Jun. 30 2024	30-Jul 2024
TOC 4352	Cal. Std #2 2 ppm	WC 2158	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	0.2 ml	-	UU 36927	100	2	230320	Jun. 30 2024	30-Jul 2024
TOC 4353	Cal. Std #3 5 ppm	WC 2158	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	0.5 ml	-	UU 36927	100	5	230320	Jun. 30 2024	30-Jul 2024
TOC 4354	Cal. Std #4 10 ppm	WC 2158	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	1 ml	-	UU 36927	100	10	230320	Jun. 30 2024	30-Jul 2024
TOC 4355	Cal. Std #5 20 ppm	WC 2158	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	2 ml	-	UU 36927	100	20	230320	Jun. 30 2024	30-Jul 2024
TOC 4356	Cal. Std #6 30 ppm	WC 2158	TOC KHP1	Inorg. Vent.	Jun. 2 2025	1000	3 ml	-	UU 36927	100	30	230320	Jun. 30 2024	30-Jul 2024
TOC 4357	ICV STD 15 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	3.75 ml	-	UU 42734	250	15	230320	Jun. 30 2024	30-Jul 2024
TOC 4358	CCV STD 15 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	3.75 ml	-	UU 42734	250	15	230320	Jun. 30 2024	30-Jul 2024
TOC 4359	Low ICV 1 ppm	WC 2158	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	0.1 ml	-	UU 36927	100	1	230320	Jun. 30 2024	30-Jul 2024
TOC 4360	500 STD 500 ppm	WC 2090	TOC STD	Agilent Tecnol.	Oct. 31 2025	1000	60 ml	-	Volum. cylinder	120	500	230320	Jun. 30 2024	30-Jul 2024

This page intentionally left blank

Appendix D

Data Validation Report

DATA VALIDATION REPORT

Seneca Army Depot
June 2024 Sampling

SDG: FC16561

SGS North America Inc.

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science, and Technology, Inc.

Report Released 09/09/2024

5 Brilliant Avenue, Pittsburgh, PA 15215
412.408.3288 I www.eds-pa.com

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16561
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/17/2024-6/18/2024
Number of Samples: 9
Test Method: SW-846 9056A; SM 5310B
Analysis: Chloride, Sulfate, and Nitrate; Total Organic Carbon (TOC)

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York, June 2023, (QAPP).

Validation Guidelines: United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), General Data Validation Guidelines, November 2019, Department of Defense Quality Systems Manual (DoD QSM) for Environmental Laboratories Version 5.4 (DoD and DOE 2021), and Environmental Protection Agency, United States (EPA), 2020; National Functional Guidelines for Inorganic Superfund Data Review, EPA-542-R-20-00, OLEM 9240.1-66, Washington, DC: Office of Superfund Remediation and Technology Innovation, November 2020.

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-PT-17-20240618	FC16561-2	groundwater	S2BVM
SEAD-AL-MWT-26-20240618	FC16561-3	groundwater	S2BVM
SEAD-AL-MWT-7-20240618	FC16561-4	groundwater	S2BVM
SEAD-AL-PT-24-20240618	FC16561-5	groundwater	S2BVM
SEAD-AL-MWT-27-20240618	FC16561-6	groundwater	S2BVM
SEAD-AL-MWT-29-20240618	FC16561-7	groundwater	S2BVM
SEAD-AL-DUP-01-20240618	FC16561-8	groundwater	S2BVM
SEAD-AL-MW-40-20240618	FC16561-13	groundwater	S2BVM
SEAD-AL-MWT-23-20240618	FC16561-15	groundwater	S2BVM

Table 1 provides a summary of the major and minor data quality issues identified in this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an “X” flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. “X” values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW:

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION:

The samples arrived at the laboratory in acceptable condition.

Proper custody was documented.

3. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detect results will be flagged "X", rejected. Qualifications were applied to the samples and analytes as shown below.

All sample analyses reported were within the validation guidance.

4. CALIBRATION:

Method requirements for satisfactory instrument or procedural calibration are established to ensure that the instrument can produce acceptable quantitative data. Initial calibration verification (ICV) demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run. Continuing calibration verification (CCV) demonstrates that the initial calibration is still valid by checking the performance of the instrument on a continuing basis.

Immediately after each system has been calibrated, the accuracy of the initial calibration must be verified and documented for each target analyte by the analysis of an ICV solution(s). The CCV standard shall be analyzed at a frequency of every 10 samples. The percent relative standard deviation (%RSD) should be less than 20% or the correlation coefficient greater than 0.995. Observed CCV percent recoveries must be with quality control criterion. Qualifications were applied to the samples and analytes as shown below.

Calibrations were performed at the appropriate frequency and resulted in %RSD or correlation coefficient values within guidance in all cases. Further, all ICV and CCV evaluations were within acceptance criteria.

5. BLANK CONTAMINATION:

Quality assurance blanks, i.e., instrument, preparation, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Both initial calibration and continuing calibration blanks (ICB and CCB) are used to ensure a stable instrument baseline before and during the analysis of analytical samples. Preparation blanks measure laboratory contamination. Field and rinse

blanks measure cross-contamination of samples during field operations. Field blanks or lab blanks should not have an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), or one tenth the concentration of associated samples. However, any positive blank result is assessed against all associated field sample results per validation guidance and data are flagged accordingly.

A) Calibration Blank

All associated initial and continuing calibration blanks met validation criteria.

B) Method Blank

All method blanks met validation criteria.

C) Equipment / Field / Rinse Blank

No sample was submitted as an equipment, field, or rinse blank in association with this sample delivery group (SDG).

6. LABORATORY CONTROL SAMPLE:

The Laboratory Control Sample (LCS) serves to monitor the overall performance of each step during the analysis. Aqueous/water and soil/sediment LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control procedures as employed for the samples. All LCS percent recoveries must fall within the control limits. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE/MATRIX DUPLICATE:

The matrix spike/matrix spike duplicate (MS/MSD) sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The spike percent recovery and with a relative percent difference between the two must fall within the established acceptance criteria. However, spike recovery limits do not apply when the sample concentration is greater than or equal to four times the spike added. For a spike analysis that does not meet the technical criteria, the action was applied to the parent sample only.

Sample SEAD-AL-PT-24-20240618 was submitted for MS/MSD and/or matrix duplicate evaluations in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable.

8. FIELD DUPLICATES:

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for water samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses

that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

Samples SEAD-AL-MWT-27-20240618 and SEAD-AL-DUP-01-20240618 were submitted as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

9. ANALYTE QUANTIFICATION AND IDENTIFICATION:

Analyte quantitation and identification were not verified as part of the Level 2B data validation.

10. OTHER PROBLEMS:

None.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
Chloride, Sulfate, and Nitrate		Major	Minor
Sample Receipt/Preservative	x		
Holding Time	x		
Initial Calibration	x		
Continuing Calibration	x		
Laboratory Blank	x		
Field Blank	NA		
Matrix Duplicate	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Field Duplicate	x		
Other	x		
	Were acceptance criteria met?		
	Yes	**No**	
Total Organic Carbon		**Major**	**Minor**
Sample Receipt/Preservative	x		
Holding Time	x		
Initial Calibration	x		
Continuing Calibration	x		
Laboratory Blank	x		
Field Blank	NA		
Matrix Duplicate	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Field Duplicate	x		
Other	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16561
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/17/2024-06/18/2024
Number of Samples: 10
Test Method: RSK-175 (8015 M)
Analysis: Dissolved Gases**;** Methane, Ethane, and Ethene

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York, June 2023, (QAPP).

Validation Guidelines: Department of Defense Quality Systems Manual (DoD QSM) for Environmental Laboratories Version 5.4 (DoD and DOE 2021); Department of Defense Module 4: Data Validation Procedure for Organic Analysis by GC, March 2021; DOD Data Validation Guidelines Module 1, 2, 3, and 4 Revised Table for Sample Qualification in the Prescence of Blank Contamination (2022); United States Environmental Protection Agency (USEPA) and United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), November 2019, General Data Validation Guidelines.

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-PT-17-20240618	FC16561-2	groundwater	S2BVM
SEAD-AL-MWT-26-20240618	FC16561-3	groundwater	S2BVM
SEAD-AL-MWT-7-20240618	FC16561-4	groundwater	S2BVM
SEAD-AL-PT-24-20240618	FC16561-5	groundwater	S2BVM
SEAD-AL-MWT-27-20240618	FC16561-6	groundwater	S2BVM
SEAD-AL-MWT-29-20240618	FC16561-7	groundwater	S2BVM
SEAD-AL-DUP-01-20240618	FC16561-8	groundwater	S2BVM
SEAD-AL-MW-40-20240618	FC16561-13	groundwater	S2BVM
TRIP BLANK	FC16561-14	trip blank	S2BVM
SEAD-AL-MWT-23-20240618	FC16561-15	groundwater	S2BVM

Table 1 provides a summary of the major and minor data quality issues applied to this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an "X" flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. "X" values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW:

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION:

The samples arrived at the laboratory in acceptable condition. No qualification of sample results was necessary on this basis.

3. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J" or "UJ" as appropriate. When holding times are exceeded by more than three times the holding time specified, the non-detects will be flagged as unusable, "X". Qualifications were applied to the samples and analytes as shown below.

All sample analyses reported were within the validation guidance.

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Initial Calibration

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent RSD must be less than the maximum %RSD of 20% or, in cases where linear and non-linear regressions are used, correlation coefficients must be greater than or equal to 0.995. If the %RSD or correlation coefficient do not meet quality control criteria, detects may be qualified as "J" and professional judgement is used to qualify non-detects. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) Continuing Calibration

Percent difference (%D) compares the response factor of the continuing calibration check to mean response factor (RF) from the initial calibration. For the opening or closing continuing calibration verification (CCV) the %D must be <20% for all target compounds. A value outside of these limits indicates potential detection and quantitation errors. If the %D exceeds quality control criteria, the positive results are flagged as estimated, "J" and non-detects are flagged "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

5. BLANK CONTAMINATION:

Quality assurance blanks, i.e., instrument, preparation, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Both initial calibration and continuing calibration blanks (ICB and CCB) are used to ensure a stable instrument baseline before and during the analysis of analytical samples. Preparation blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. When an equipment blank or lab blank has an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), or one tenth the concentration of associated samples, then all associated field samples are flagged per validation guidance.

A) Method Blank

Method blanks were analyzed with appropriate frequency. No problems were found for this criterion.

B) Equipment / Rinse Blank

No sample was submitted as an equipment / rinse blank in association with this sample delivery group (SDG).

C) Trip Blank

Sample TRIP BLANK was submitted as a trip blank in association with this SDG. No problems were found for this criterion.

6. LABORATORY CONTROL SAMPLE:

The Laboratory Control Sample (LCS) serves to monitor the overall performance of each step during the analysis. Aqueous/water and soil/sediment LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control procedures as employed for the samples. All LCS percent recoveries must fall within the control limits of QSM criteria. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE/LABORATORY DUPLICATE:

The matrix spike/matrix spike duplicate (MS/MSD) sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The spike percent recovery must fall within the established QAPP acceptance limits which are equivalent to QSM, with a relative percent difference between the two of less than 30%. However, spike recovery limits do not apply when the sample concentration is greater than or equal to four times the spike added. For a spike analysis that does not meet the technical criteria, the action was applied to all samples in the preparation batch.

Sample SEAD-AL-PT-24-20240618 was submitted for MS and matrix duplicate pair evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable or did not require qualification of sample results.

8. FIELD DUPLICATES:

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for samples, shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

Samples SEAD-AL-MWT-27-20240618 and SEAD-AL-DUP-01-20240618 were submitted as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated with the exception of methane. The methane results in the field duplicate samples have been qualified "J" on this basis.

9. OTHER:

The samples listed below in this SDG were analyzed at dilutions for methane. Elevated reporting limits were reported.

SEAD-AL-MWT-27-20240618	*SEAD-AL-DUP-01-20240618*
SEAD-AL-MWT-29-20240618	*SEAD-AL-MWT-23-20240618*

10. ANALYTE QUANTIFICATION AND REPORTED DETECTION LIMITS:

Analyte quantitation and identification were not verified as part of the Stage 2B data validation.

Manual integrations were not reviewed as part of the Stage 2B data validation.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
RSK-175		**Major**	**Minor**
Sample Delivery Condition	x		
Holding Time	x		
Calibration	x		
Percent Relative Standard Deviation and Percent Deviation	x		
Method Blank	x		
Rinse/Equipment Blank	NA		
Trip Blank	x		
Matrix Spike/Matrix Duplicate	x		
Laboratory Duplicate	NA		
Field Duplicate			x
Laboratory Control Samples	x		
Other Quality Control Data out of Specification	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16561
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/17/2024 – 06/18/2024
Number of Samples: 15
Test Method: SW846 8260D
Analysis: VOCs

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York (June 2023).

Validation Guidelines: United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), November 2019, General Data Validation Guidelines; DOD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020); DOD Data Validation Guidelines Module 1, 2, 3, and 4 Revised Table for Sample Qualification in the Prescence of Blank Contamination (2022).

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-MW-60-20240617	FC16561-1	groundwater	S2BVM
SEAD-AL-PT-17-20240618	FC16561-2	groundwater	S2BVM
SEAD-AL-MWT-26-20240618	FC16561-3	groundwater	S2BVM
SEAD-AL-MWT-7-20240618	FC16561-4	groundwater	S2BVM
SEAD-AL-PT-24-20240618	FC16561-5	groundwater	S2BVM
SEAD-AL-MWT-27-20240618	FC16561-6	groundwater	S2BVM
SEAD-AL-MWT-29-20240618	FC16561-7	groundwater	S2BVM
SEAD-AL-DUP-01-20240618	FC16561-8	groundwater	S2BVM
SEAD-AL-DUP-02-20240618	FC16561-9	groundwater	S2BVM
SEAD-AL-MWT-25-20240618	FC16561-10	groundwater	S2BVM
SEAD-AL-MWT-22-20240618	FC16561-11	groundwater	S2BVM
SEAD-AL-PT-12A-20240618	FC16561-12	groundwater	S2BVM
SEAD-AL-MW-40-20240618	FC16561-13	groundwater	S2BVM
TRIP BLANK	FC16561-14	trip blank	S2BVM
SEAD-AL-MWT-23-20240618	FC16561-15	groundwater	S2BVM

Table 1 provides a summary of the major and minor data quality issues identified in this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an “X” flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. “X” values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION

The samples arrived at the laboratory in acceptable condition with the following exception. Proper custody was documented.

3. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detect results will be flagged as not detected at an estimated quantitation limit, "UJ", unless the holding time is grossly exceeded (by more than two times the holding time specified), in which case non-detect results are flagged "X", rejected. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

4. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

5. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor:

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial and continuing calibration should meet the minimum relative response factor (RRF) criteria. If the RRF is less than minimum RRF specified, professional judgment is used, and all detects in the sample will be qualified as "J". All non-detects for that compound will be rejected "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) Percent Relative Standard Deviation and Percent Difference:

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent difference (%D) compares the response factor of the continuing calibration check to the mean RRF from the initial calibration.

Percent RSD must be less than maximum %RSD listed in the Department of Defense Quality Systems Manual or, in cases where linear and non-linear regressions are used, correlation coefficients must be greater than those listed in the Department of Defense Quality Systems Manual. For the opening or closing continuing calibration verification (CCV) the %D must be within the inclusive opening or closing maximum %D limits as listed in the Department of Defense Quality Systems Manual for all target compounds. A value outside of these limits indicates potential detection and quantitation errors. If the %RSD exceeds quality control criteria, detects may be qualified as "J" and professional judgment is used to qualify non-detects. If the %D exceeds quality control criteria, the positive results are flagged as estimated, "J" and non-detects are flagged "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

6. BLANK CONTAMINATION

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks (TB) measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. When an equipment blank, trip blank, or lab blank has an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), then all associated field samples are flagged per validation guidance.

A) Method blank contamination:

No problems were found for this criterion.

B) Field/Equipment/Source blank contamination:

No samples were submitted as an equipment blank in association with samples in this sample delivery group (SDG).

C) Trip blank contamination:

Sample TRIP BLANK was submitted as a trip blank in association with the samples submitted in this SDG. No problems were found for this criterion.

D) Storage Blank associated with volatile samples only:

No storage blank was submitted in association with these samples.

7. SURROGATES

All samples are spiked with system monitoring compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery limits were outside quality control limits established in the Department of Defense Quality Systems Manual, qualifications were applied to all the samples and analytes as shown below.

No problems were found for this criterion.

8. COMPOUND IDENTIFICATION AND QUANTIFICATION

Compound Identification

The compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit the sample peak must be within ±0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

Target compound identifications were not reviewed at the Stage 2B level.

Tentatively Identified Compounds (TICs) were not reported and were not required to be reported for this program per the project QAPP.

Compound Quantification

Target compound result quantitation was not reviewed for samples at the Stage 2B level.

Manual integrations were not reviewed for samples at the Stage 2B level.

9. MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix spike/matrix spike duplicate (MS/MSD) data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other quality control criteria for additional qualification of data. All MS/MSD percent recoveries must fall within the Department of Defense Quality Systems Manual limits. In addition, relative percent differences observed between results reported for the pair must be ≤ 20%.

Sample SEAD-AL-PT-17-20240618 was submitted for MS/MSD pair evaluation in association with the samples in this SDG. Upon evaluation all precision and accuracy indictors were favorable.

Sample SEAD-AL-PT-24-20240618 was submitted for MS/MSD pair evaluation in association with the samples in this SDG. Upon evaluation all precision and accuracy indictors were favorable or did not require qualification of sample results.

Sample SEAD-AL-PT-12A-20240618 was submitted for MS/MSD pair evaluation in association with the samples in this SDG. Upon evaluation all precision and accuracy indictors were favorable with the following exception. The observed MS and MSD recoveries for cis-1,2-dichloroethene were lower than the lowest acceptance limit. The result for the impacted analyte in the parent sample has been qualified "J" on this basis.

10. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than ±10 seconds from the associated continuing calibration standard. The area count must be within a (50-200%) range of the associated standard. If the area count is greater than 200%, non-detected results are not qualified and positive results are flagged as estimated with potential negative bias, "J". If the area count is less than 50%, positive results are flagged as estimated with potential positive bias, "J", and non-detected results are flagged "UJ". If the area count is less than 20%, positive results and non-detected results will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

11. FIELD DUPLICATES

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤50% for the Relative Percent Difference (RPD) for solid samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for water samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

Samples SEAD-AL-MWT-27-20240618 and SEAD-AL-DUP-01-20240618 were submitted as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples SEAD-AL-MWT-29-20240618 and SEAD-AL-DUP-02-20240618 were submitted as a field duplicate pair in association with this SDG. Upon evaluation adequate field precision was demonstrated.

12. LABORATORY CONTROL SAMPLES

The Laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous/water, soil/sediment, wipe, and filter LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control (QA/QC) procedures as employed for the samples. All LCS percent recoveries must fall within the Department of Defense Quality Systems Manual limits. Qualifications were applied to the samples and analytes as shown below.

The LCS evaluations were performed at the appropriate frequency. No problems were found for this criterion.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used.

The samples listed below in this SDG were analyzed at dilutions.

SEAD-AL-PT-17-20240618	*SEAD-AL-MWT-29-20240618*	*SEAD-AL-PT-12A-20240618*
SEAD-AL-MWT-7-20240618	*SEAD-AL-DUP-02-20240618*	

14. OTHER PROBLEMS

None.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Sample Receipt/Preservative	x		
Holding Time	x		
Mass Spectrometer Tuning	x		
Response Factor	x		
Percent Relative Standard Deviation and Percent Difference	x		
Internal Standards	x		
Method Blank	x		
Equipment/Source Blank	NA		
Trip Blank	x		
Storage Blank	NA		
Surrogates	x		
Compound Identification	NA		
Matrix Spike/Matrix Spike Duplicate			x
Field Duplicate	x		
Laboratory Control Samples	x		
Other Quality Control Data out of Specification	x		
Required Reporting Limits	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

DATA VALIDATION REPORT

Seneca Army Depot
June 2024 Sampling

SDG: FC16592

SGS North America Inc.

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science, and Technology, Inc.

Report Released 09/17/2024

5 Brilliant Avenue, Pittsburgh, PA 15215
412.408.3288 I www.eds-pa.com

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16592
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/19/2024
Number of Samples: 2
Test Method: SW-846 9056A; SM 5310B
Analysis: Chloride, Sulfate, and Nitrate; Total Organic Carbon (TOC)

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York, June 2023, (QAPP).

Validation Guidelines: United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), General Data Validation Guidelines, November 2019, Department of Defense Quality Systems Manual (DoD QSM) for Environmental Laboratories Version 5.4 (DoD and DOE 2021), and Environmental Protection Agency, United States (EPA), 2020; National Functional Guidelines for Inorganic Superfund Data Review, EPA-542-R-20-00, OLEM 9240.1-66, Washington, DC: Office of Superfund Remediation and Technology Innovation, November 2020.

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-PT-18A-20240619	FC16592-1	groundwater	S2BVM
SEAD-AL-MWT-28-20240619	FC16592-3	groundwater	S2BVM

Table 1 provides a summary of the major and minor data quality issues identified in this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an “X” flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. “X” values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW:

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION:

The samples arrived at the laboratory in acceptable condition.

Proper custody was documented.

3. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detect results will be flagged "X", rejected. Qualifications were applied to the samples and analytes as shown below.

All sample analyses reported were within the validation guidance with the following exceptions. Nitrate analyses for all samples in this samples delivery group (SDG) were conducted past the 48-hour required holding time. All results reported for nitrate have been qualified "J" on this basis.

4. CALIBRATION:

Method requirements for satisfactory instrument or procedural calibration are established to ensure that the instrument can produce acceptable quantitative data. Initial calibration verification (ICV) demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run. Continuing calibration verification (CCV) demonstrates that the initial calibration is still valid by checking the performance of the instrument on a continuing basis.

Immediately after each system has been calibrated, the accuracy of the initial calibration must be verified and documented for each target analyte by the analysis of an ICV solution(s). The CCV standard shall be analyzed at a frequency of every 10 samples. The percent relative standard deviation (%RSD) should be less than 20% or the correlation coefficient greater than 0.995. Observed CCV percent recoveries must be with quality control criterion. Qualifications were applied to the samples and analytes as shown below.

Calibrations were performed at the appropriate frequency and resulted in %RSD or correlation coefficient values within guidance in all cases. Further, all ICV and CCV evaluations were within acceptance criteria.

5. BLANK CONTAMINATION:

Quality assurance blanks, i.e., instrument, preparation, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Both initial calibration and continuing calibration blanks (ICB

and CCB) are used to ensure a stable instrument baseline before and during the analysis of analytical samples. Preparation blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Field blanks or lab blanks should not have an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), or one tenth the concentration of associated samples. However, any positive blank result is assessed against all associated field sample results per validation guidance and data are flagged accordingly.

A) Calibration Blank

All associated initial and continuing calibration blanks met validation criteria.

B) Method Blank

All method blanks met validation criteria.

C) Equipment / Field / Rinse Blank

No sample was submitted as an equipment, field, or rinse blank in association with this SDG.

6. LABORATORY CONTROL SAMPLE:

The Laboratory Control Sample (LCS) serves to monitor the overall performance of each step during the analysis. Aqueous/water and soil/sediment LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control procedures as employed for the samples. All LCS percent recoveries must fall within the control limits. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE/MATRIX DUPLICATE:

The matrix spike/matrix spike duplicate (MS/MSD) sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The spike percent recovery and with a relative percent difference between the two must fall within the established acceptance criteria. However, spike recovery limits do not apply when the sample concentration is greater than or equal to four times the spike added. For a spike analysis that does not meet the technical criteria, the action was applied to the parent sample only.

No samples were submitted for MS/MSD and/or matrix duplicate evaluations in association with this SDG.

8. FIELD DUPLICATES:

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for water samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses

that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

No samples were submitted as a field duplicate pair in association with this SDG.

9. ANALYTE QUANTIFICATION AND IDENTIFICATION:

Analyte quantitation and identification were not verified as part of the Level 2B data validation.

10. OTHER PROBLEMS:

None.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
Chloride, Sulfate, and Nitrate		Major	Minor
Sample Receipt/Preservative	x		
Holding Time			x
Initial Calibration	x		
Continuing Calibration	x		
Laboratory Blank	x		
Field Blank	NA		
Matrix Duplicate	NA		
Matrix Spike/Matrix Spike Duplicate	NA		
Laboratory Control Sample	x		
Field Duplicate	NA		
Other	x		
	Were acceptance criteria met?		
	Yes	**No**	
Total Organic Carbon		**Major**	**Minor**
Sample Receipt/Preservative	x		
Holding Time	x		
Initial Calibration	x		
Continuing Calibration	x		
Laboratory Blank	x		
Field Blank	NA		
Matrix Duplicate	NA		
Matrix Spike/Matrix Spike Duplicate	NA		
Laboratory Control Sample	x		
Field Duplicate	NA		
Other	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16592
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/19/2024
Number of Samples: 20
Test Method: SW846 8260D
Analysis: VOCs

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York, June 2023 (QAPP).

Validation Guidelines: United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), November 2019, General Data Validation Guidelines; DOD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020); DOD Data Validation Guidelines Module 1, 2, 3, and 4 Revised Table for Sample Qualification in the Prescence of Blank Contamination (2022).

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-PT-18A-20240619	FC16592-1	groundwater	S2BVM
SEAD-AL-PT-22-20240619	FC16592-2	groundwater	S2BVM
SEAD-AL-MWT-28-20240619	FC16592-3	groundwater	S2BVM
SEAD-AL-MW-39-20240619	FC16592-4	groundwater	S2BVM
SEAD-AL-MW-48-20240619	FC16592-5	groundwater	S2BVM
SEAD-AL-PT-20-20240619	FC16592-6	groundwater	S2BVM
SEAD-AL-PT-19-20240619	FC16592-7	groundwater	S2BVM
SEAD-AL-MW-46-20240619	FC16592-8	groundwater	S2BVM
SEAD-AL-MW-32-20240619	FC16592-9	groundwater	S2BVM
SEAD-AL-MW-44A-20240619	FC16592-10	groundwater	S2BVM
SEAD-AL-MW-58D-20240619	FC16592-11	groundwater	S2BVM
SEAD-AL-MW-56R-20240619	FC16592-12	groundwater	S2BVM
SEAD-AL-MW-27-20240619	FC16592-13	groundwater	S2BVM
SEAD-AL-MWT-24-20240619	FC16592-14	groundwater	S2BVM
SEAD-AL-PT-16-20240619	FC16592-15	groundwater	S2BVM
SEAD-AL-MWT-10-20240619	FC16592-16	groundwater	S2BVM
SEAD-AL-MWT-1-20240619	FC16592-17	groundwater	S2BVM
SEAD-AL-MWT-9-20240619	FC16592-18	groundwater	S2BVM
SEAD-AL-MWT-5-20240619	FC16592-19	groundwater	S2BVM
TRIP BLANK	FC16592-20	trip blank	S2BVM

Table 1 provides a summary of the major and minor data quality issues identified in this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an “X” flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. “X” values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION

The samples arrived at the laboratory in acceptable condition with the following exception. Proper custody was documented.

3. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detect results will be flagged as not detected at an estimated quantitation limit, "UJ", unless the holding time is grossly exceeded (by more than two times the holding time specified), in which case non-detect results are flagged "X", rejected. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

4. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

5. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor:

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial and continuing calibration should meet the minimum relative response factor (RRF) criteria. If the RRF is less than minimum RRF specified, professional judgment is used, and all detects in the sample will be qualified as "J". All non-detects for that compound will be rejected "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) Percent Relative Standard Deviation and Percent Difference:

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent difference (%D) compares the response factor of the continuing calibration check to the mean RRF from the initial calibration.

Percent RSD must be less than maximum %RSD listed in the Department of Defense Quality Systems Manual or, in cases where linear and non-linear regressions are used, correlation coefficients must be greater than those listed in the Department of Defense Quality Systems Manual. For the opening or closing continuing calibration verification (CCV) the %D must be within the inclusive opening or closing maximum %D limits as listed in the Department of Defense Quality Systems Manual for all target compounds. A value outside of these limits indicates potential detection and quantitation errors. If the %RSD exceeds quality control criteria, detects may be qualified as "J" and professional judgment is used to qualify non-detects. If the %D exceeds quality control criteria, the positive results are flagged as estimated, "J" and non-detects are flagged "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion with the following exceptions.

The observed %D for chloroethane and cyclohexane in the CCV associated with the samples listed below in this SDG were outside acceptance limits. The results for the impacted analytes in the associated samples were all not detected and have been qualified "UJ" on this basis.

SEAD-AL-PT-18A-20240619	*SEAD-AL-PT-20-20240619*	*SEAD-AL-MW-58D-20240619*
SEAD-AL-PT-22-20240619	*SEAD-AL-PT-19-20240619*	*SEAD-AL-MW-56R-20240619*
SEAD-AL-MWT-28-20240619	*SEAD-AL-MW-46-20240619*	*SEAD-AL-MW-27-20240619*
SEAD-AL-MW-39-20240619	*SEAD-AL-MW-32-20240619*	
SEAD-AL-MW-48-20240619	*SEAD-AL-MW-44A-20240619*	

6. BLANK CONTAMINATION

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks (TB) measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. When an equipment

blank, trip blank, or lab blank has an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), then all associated field samples are flagged per validation guidance.

A) Method blank contamination:

No problems were found for this criterion.

B) Field/Equipment/Source blank contamination:

No samples were submitted as an equipment blank in association with samples in this SDG.

C) Trip blank contamination:

Sample TRIP BLANK was submitted as a trip blank in association with the samples submitted in this SDG. No problems were found for this criterion.

D) Storage Blank associated with volatile samples only:

No storage blank was submitted in association with these samples.

7. SURROGATES

All samples are spiked with system monitoring compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery limits were outside quality control limits established in the Department of Defense Quality Systems Manual, qualifications were applied to all the samples and analytes as shown below.

No problems were found for this criterion.

8. COMPOUND IDENTIFICATION AND QUANTIFICATION

Compound Identification

The compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit the sample peak must be within ±0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

Target compound identifications were not reviewed at the Stage 2B level.

Tentatively Identified Compounds (TICs) were not reported and were not required to be reported for this program per the project QAPP.

Compound Quantification

Target compound result quantitation was not reviewed for samples at the Stage 2B level.

Manual integrations were not reviewed for samples at the Stage 2B level.

9. MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix spike/matrix spike duplicate (MS/MSD) data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other quality control criteria for additional qualification of data. All MS/MSD percent recoveries must fall within the Department of Defense Quality Systems Manual limits. In addition, relative percent differences observed between results reported for the pair must be ≤ 20%.

Sample SEAD-AL-PT-22-20240619 was submitted for MS/MSD pair evaluation in association with the samples in this SDG. Upon evaluation all precision and accuracy indicators were favorable or did not require qualification of sample results.

Sample SEAD-AL-PT-18A-20240619was submitted for MS/MSD pair evaluation in association with the samples in this SDG. Upon evaluation all precision and accuracy indicators were favorable or did not require qualification of sample results.

10. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than ±10 seconds from the associated continuing calibration standard. The area count must be within a (50-200%) range of the associated standard. If the area count is greater than 200%, non-detected results are not qualified and positive results are flagged as estimated with potential negative bias, "J". If the area count is less than 50%, positive results are flagged as estimated with potential positive bias, "J", and non-detected results are flagged "UJ". If the area count is less than 20%, positive results and non-detected results will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

11. FIELD DUPLICATES

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤50% for the Relative Percent Difference (RPD) for solid samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for water samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

No samples were submitted as a field duplicate pair in association with this SDG.

12. LABORATORY CONTROL SAMPLES

The Laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous/water, soil/sediment, wipe, and filter LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control (QA/QC) procedures as employed for the samples. All LCS percent recoveries must fall within the Department of Defense Quality Systems Manual limits. Qualifications were applied to the samples and analytes as shown below.

The LCS evaluations were performed at the appropriate frequency. No problems were found for this criterion.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used.

No samples in this SDG were analyzed at dilutions.

14. OTHER PROBLEMS

None.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Sample Receipt/Preservative	x		
Holding Time	x		
Mass Spectrometer Tuning	x		
Response Factor	x		
Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Method Blank	x		
Equipment/Source Blank	NA		
Trip Blank	x		
Storage Blank	NA		
Surrogates	x		
Compound Identification	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Field Duplicate	NA		
Laboratory Control Samples	x		
Other Quality Control Data out of Specification	x		
Required Reporting Limits	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

DATA VALIDATION REPORT

Seneca Army Depot
June 2024 Sampling

SDG: FC16634

SGS North America Inc.

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science, and Technology, Inc.

Report Released 09/17/2024

5 Brilliant Avenue, Pittsburgh, PA 15215
412.408.3288 I www.eds-pa.com

ENVIRONMENTAL DATA SERVICES, LTD.

EXECUTIVE NARRATIVE

Sample Delivery Group: FC16634
Laboratory: SGS North America Inc.
Site: EA Seneca Army Depot
Sampling dates: 06/20/2024
Number of Samples: 7
Test Method: SW846 8260D
Analysis: VOCs

Quality Assurance Project Plan: Uniform Federal Policy Quality Assurance Project Plan for Long-Term Monitoring/Land Use Control Management. Former Seneca Army Depot, Romulus, New York (June 2023).

Validation Guidelines: United States Department of Defense (DOD) Environmental Data Quality Workgroup (EDQW), November 2019, General Data Validation Guidelines; DOD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020); DOD Data Validation Guidelines Module 1, 2, 3, and 4 Revised Table for Sample Qualification in the Prescence of Blank Contamination (2022).

Client Sample Identification	Laboratory Sample Identification	Matrix	Validation Stage
SEAD-AL-MWT-2-20240620	FC16634-1	groundwater	S2BVM
SEAD-AL-MWT-3-20240620	FC16634-2	groundwater	S2BVM
SEAD-AL-MW-29-20240620	FC16634-3	groundwater	S2BVM
SEAD-AL-MWT-8-20240620	FC16634-4	groundwater	S2BVM
SEAD-AL-MWT-4-20240620	FC16634-5	groundwater	S2BVM
SEAD-AL-MWT-6-20240620	FC16634-6	groundwater	S2BVM
TRIP BLANK_20240620	FC16634-7	trip blank	S2BVM

Table 1 provides a summary of the major and minor data quality issues identified in this data set. All data are acceptable except those results which have been qualified with “X”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an “X” flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. “X” values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

DATA ASSESSMENT

1. NARRATIVE AND COMPLETENESS REVIEW

The case narrative was reviewed, and the data package was checked for completeness. No discrepancies were noted.

2. SAMPLE DELIVERY AND CONDITION

The samples arrived at the laboratory in acceptable condition with the following exception. Proper custody was documented.

3. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detect results will be flagged as not detected at an estimated quantitation limit, "UJ", unless the holding time is grossly exceeded (by more than two times the holding time specified), in which case non-detect results are flagged "X", rejected. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

4. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

5. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor:

The response factor measures the instrument's response to specific chemical compounds. All analytes for initial and continuing calibration should meet the minimum relative response factor (RRF) criteria. If the RRF is less than minimum RRF specified, professional judgment is used, and all detects in the sample will be qualified as "J". All non-detects for that compound will be rejected "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) Percent Relative Standard Deviation and Percent Difference:

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent difference (%D) compares the response factor of the continuing calibration check to the mean RRF from the initial calibration.

Percent RSD must be less than maximum %RSD listed in the Department of Defense Quality Systems Manual or, in cases where linear and non-linear regressions are used, correlation coefficients must be greater than those listed in the Department of Defense Quality Systems Manual. For the opening or closing continuing calibration verification (CCV) the %D must be within the inclusive opening or closing maximum %D limits as listed in the Department of Defense Quality Systems Manual for all target compounds. A value outside of these limits indicates potential detection and quantitation errors. If the %RSD exceeds quality control criteria, detects may be qualified as "J" and professional judgment is used to qualify non-detects. If the %D exceeds quality control criteria, the positive results are flagged as estimated, "J" and non-detects are flagged "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion with the following exceptions.

The observed %D for chloroethane and cyclohexane in the CCV associated with all the samples in this SDG were outside acceptance limits. The results for the impacted analytes in the associated samples were all not detected and have been qualified "UJ" on this basis.

6. BLANK CONTAMINATION

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks (TB) measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. When an equipment blank, trip blank, or lab blank has an analyte detection greater than ½ the analyte Limit of Quantitation (LOQ), then all associated field samples are flagged per validation guidance.

A) Method blank contamination:

No problems were found for this criterion.

B) Field/Equipment/Source blank contamination:

No samples were submitted as an equipment blank in association with samples in this SDG.

C) Trip blank contamination:

Sample TRIP BLANK_20240620 was submitted as a trip blank in association with the samples submitted in this SDG. No problems were found for this criterion.

D) Storage Blank associated with volatile samples only:

No storage blank was submitted in association with these samples.

7. SURROGATES

All samples are spiked with system monitoring compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate recovery limits were outside quality control limits established in the Department of Defense Quality Systems Manual, qualifications were applied to all the samples and analytes as shown below.

No problems were found for this criterion.

8. COMPOUND IDENTIFICATION AND QUANTIFICATION

Compound Identification

The compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit the sample peak must be within ±0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

Target compound identifications were not reviewed at the Stage 2B level.

Tentatively Identified Compounds (TICs) were not reported and were not required to be reported for this program per the project QAPP.

Compound Quantification

Target compound result quantitation was not reviewed for samples at the Stage 2B level.

Manual integrations were not reviewed for samples at the Stage 2B level.

9. MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix spike/matrix spike duplicate (MS/MSD) data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other quality control criteria for additional qualification of data. All MS/MSD percent recoveries must fall within the Department of Defense Quality Systems Manual limits. In addition, relative percent differences observed between results reported for the pair must be ≤ 20%.

No sample was submitted for MS/MSD pair evaluation in association with the samples in this SDG.

10. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than ±10 seconds from the associated continuing calibration standard. The area count must be within a (50-200%) range of the associated standard. If the area count is greater than 200%, non-detected results are not qualified and positive results are flagged as estimated with potential negative bias, "J". If the area count is less than 50%, positive results are flagged as estimated with potential positive bias, "J", and non-detected results are flagged "UJ". If the area count is less than 20%, positive results and non-detected results will be classified as unusable "X". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

11. FIELD DUPLICATES

Field duplicates may be taken and analyzed as an indication of overall precision. These analyses measure both field and laboratory precision. A control limit of ≤50% for the Relative Percent Difference (RPD) for solid samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. A control limit of ≤ 30% for the Relative Percent Difference (RPD) for water samples shall be used for original and duplicate sample values greater than or equal to the sample specific LOQ. For field duplicate analyses that do not meet the technical criteria, the action was applied to only the parent sample and its duplicate.

No samples were submitted as a field duplicate pair in association with this SDG.

12. LABORATORY CONTROL SAMPLES

The Laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous/water, soil/sediment, wipe, and filter LCSs shall be analyzed for each analyte utilizing the same sample preparations, analytical methods, and quality assurance/quality control (QA/QC) procedures as employed for the samples. All LCS percent recoveries must fall within the

Department of Defense Quality Systems Manual limits. Qualifications were applied to the samples and analytes as shown below.

The LCS evaluations were performed at the appropriate frequency. No problems were found for this criterion.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used.

No samples in this SDG were analyzed at dilutions.

14. OTHER PROBLEMS

None.

Table 1 Major and Minor Findings

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Sample Receipt/Preservative	x		
Holding Time	x		
Mass Spectrometer Tuning	x		
Response Factor	x		
Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Method Blank	x		
Equipment/Source Blank	NA		
Trip Blank	x		
Storage Blank	NA		
Surrogates	x		
Compound Identification	NA		
Matrix Spike/Matrix Spike Duplicate	NA		
Field Duplicate	NA		
Laboratory Control Samples	x		
Other Quality Control Data out of Specification	x		
Required Reporting Limits	x		

Major = Major data quality issue identified resulting in rejection of data.
Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2 Data Validation Qualifiers

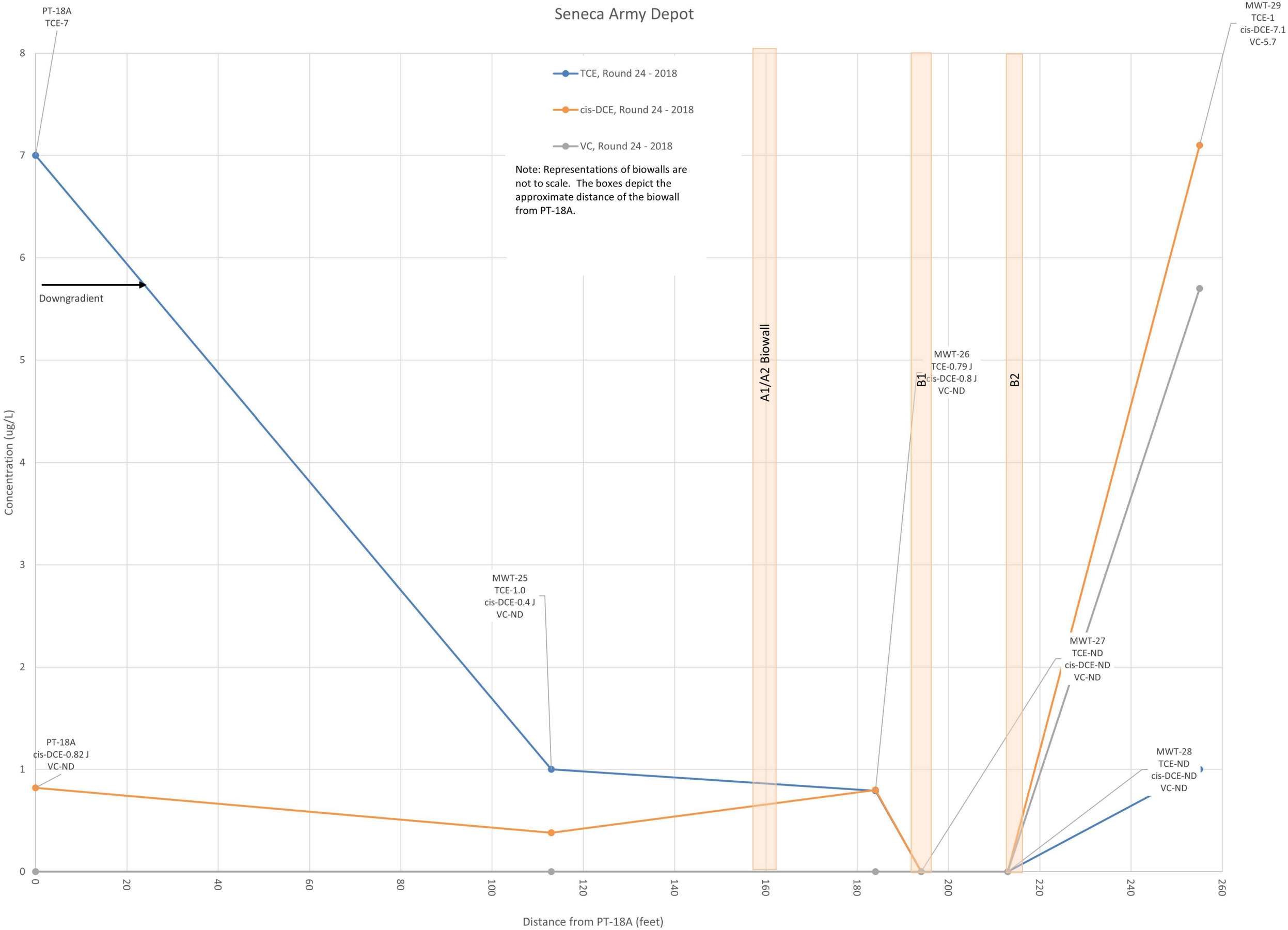
Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analyte was tentatively identified, and the associated numerical value represents its approximate concentration.

This page intentionally left blank

Appendix E

Biowall Concentrations

Figure E-1
Round 24 Biowall Concentrations
Seneca Army Depot



FigureE-2
Round 25 Biowall Concentrations
Seneca Army Depot

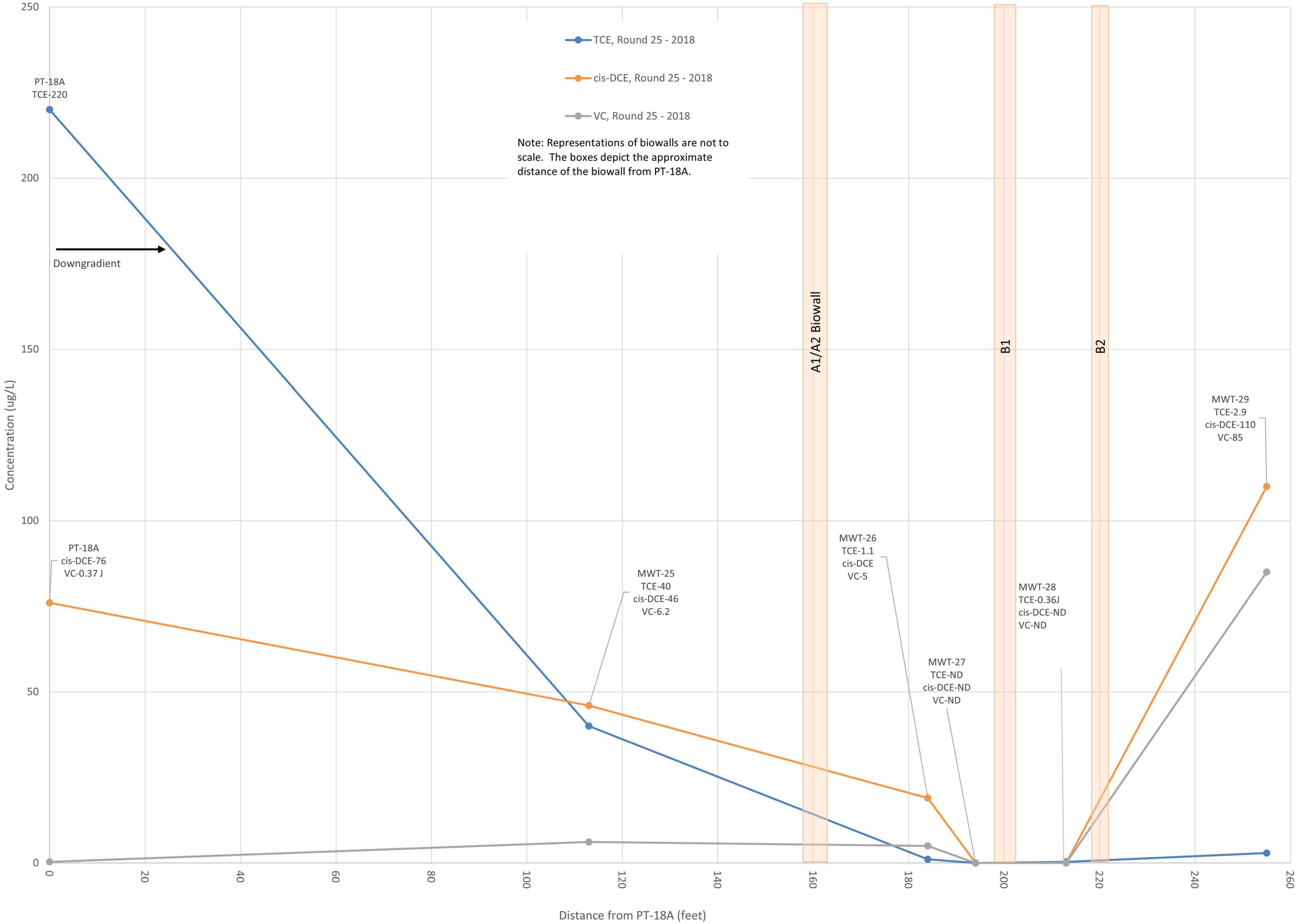


Figure E-3
Round 26 Biowall Concentrations
Seneca Army Depot

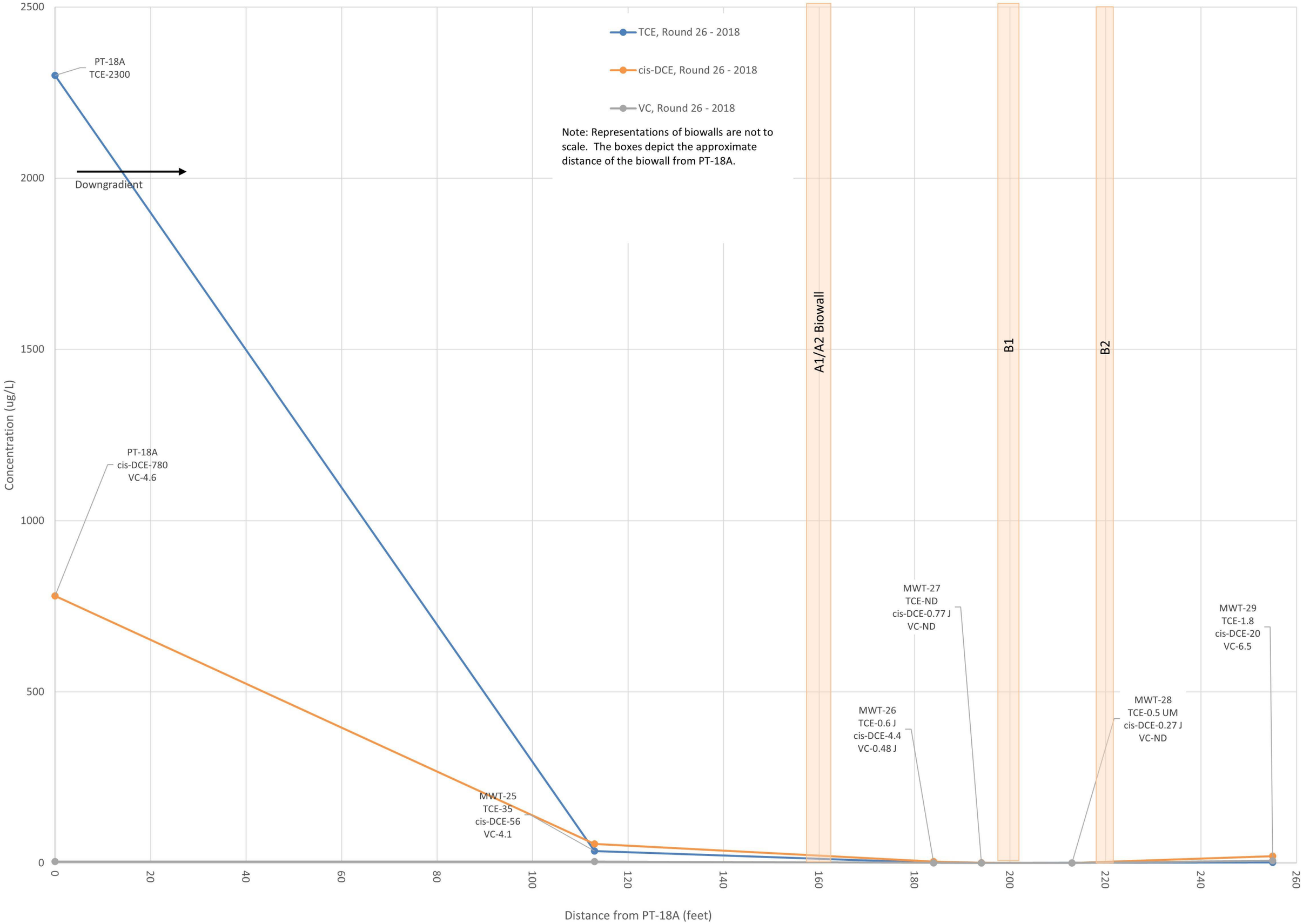


Figure E-4
Round 27 Biowall Concentrations
Seneca Army Depot

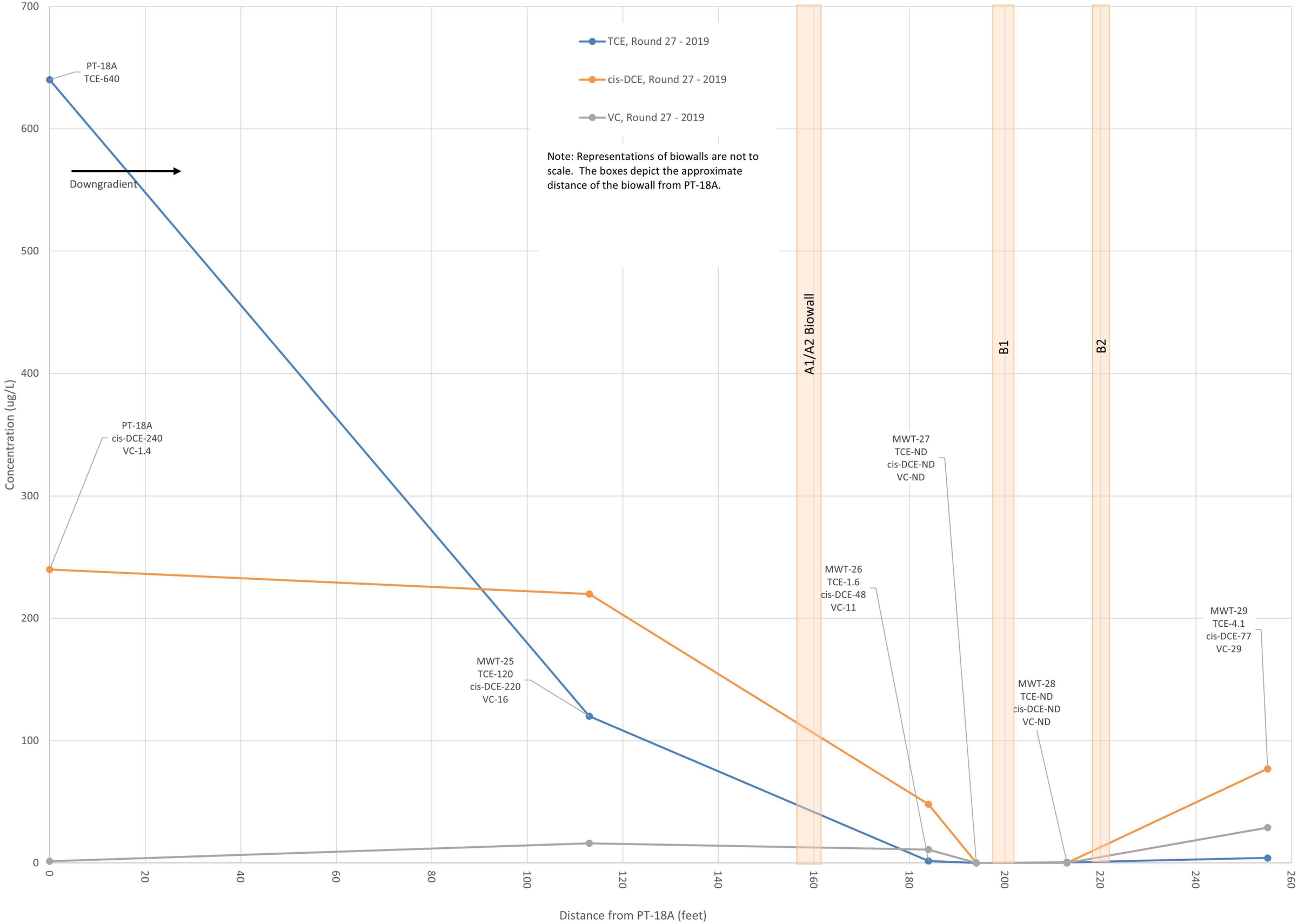


Figure E-5
Round 28 Biowall Concentrations
Seneca Army Depot

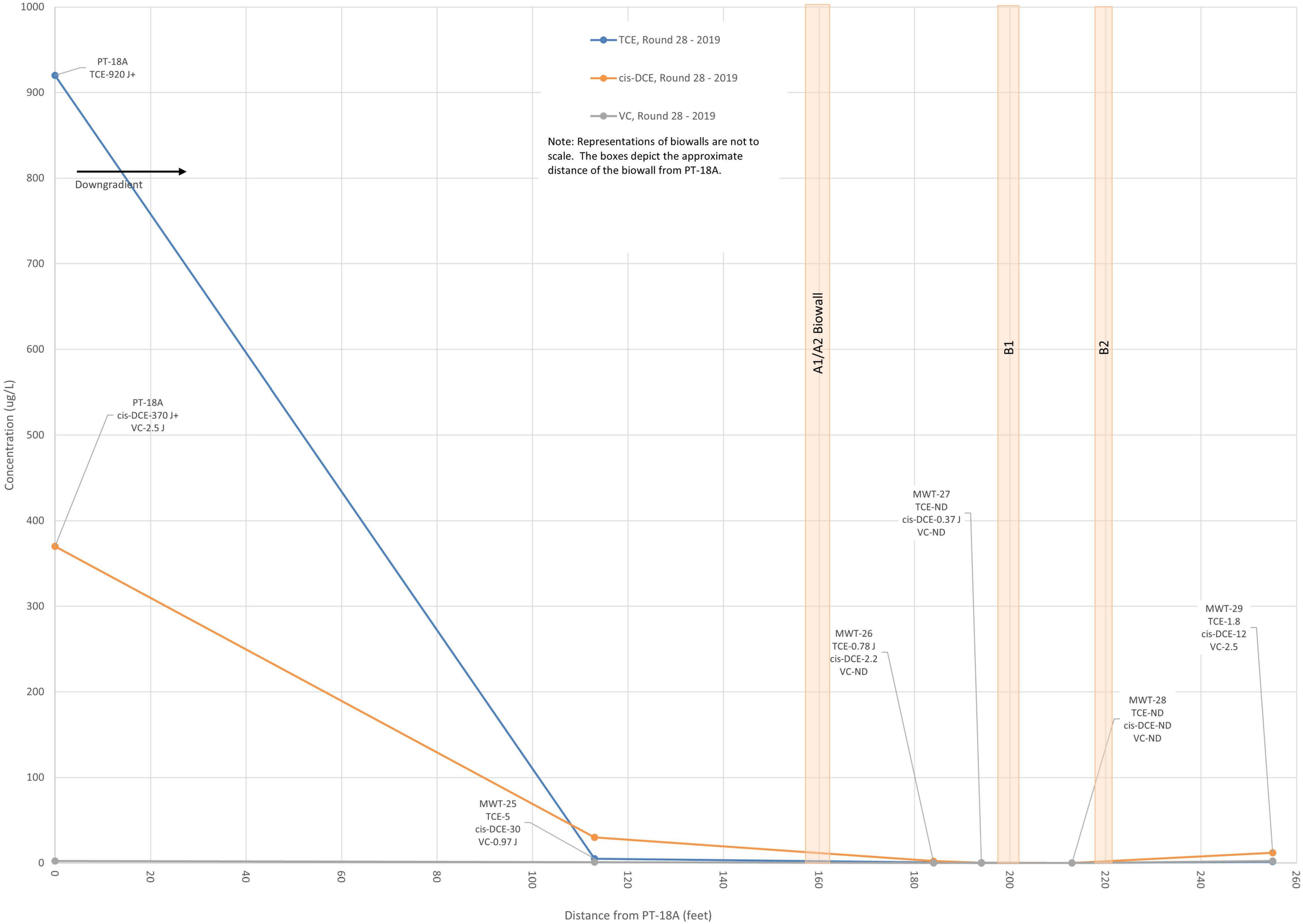


Figure E-6
Round 29 Biowall Concentrations
Seneca Army Depot

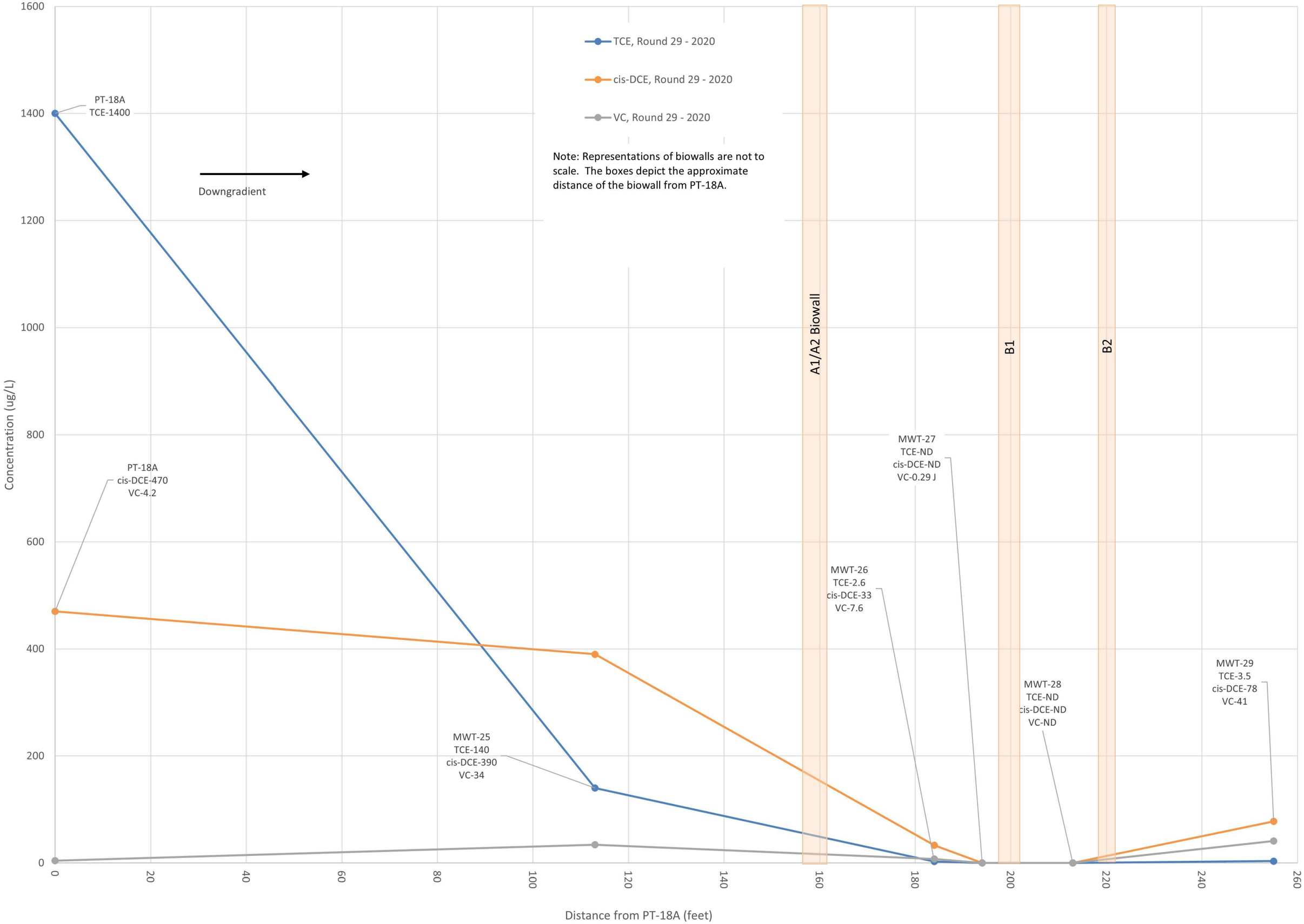


Figure E-7
Round 30 Biowall Concentrations
Seneca Army Depot

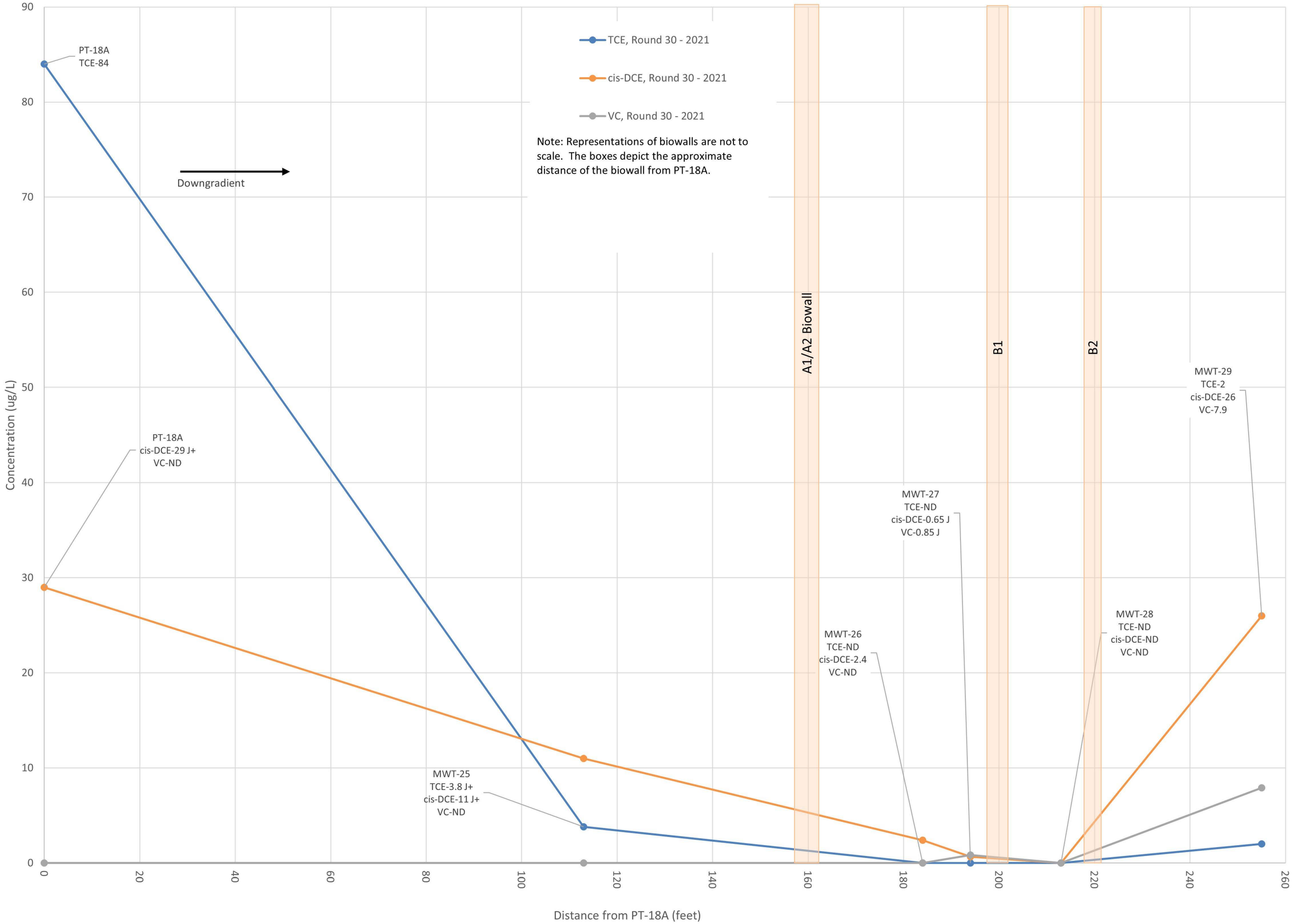


Figure E-8
Round 31 Biowall Concentrations
Seneca Army Depot

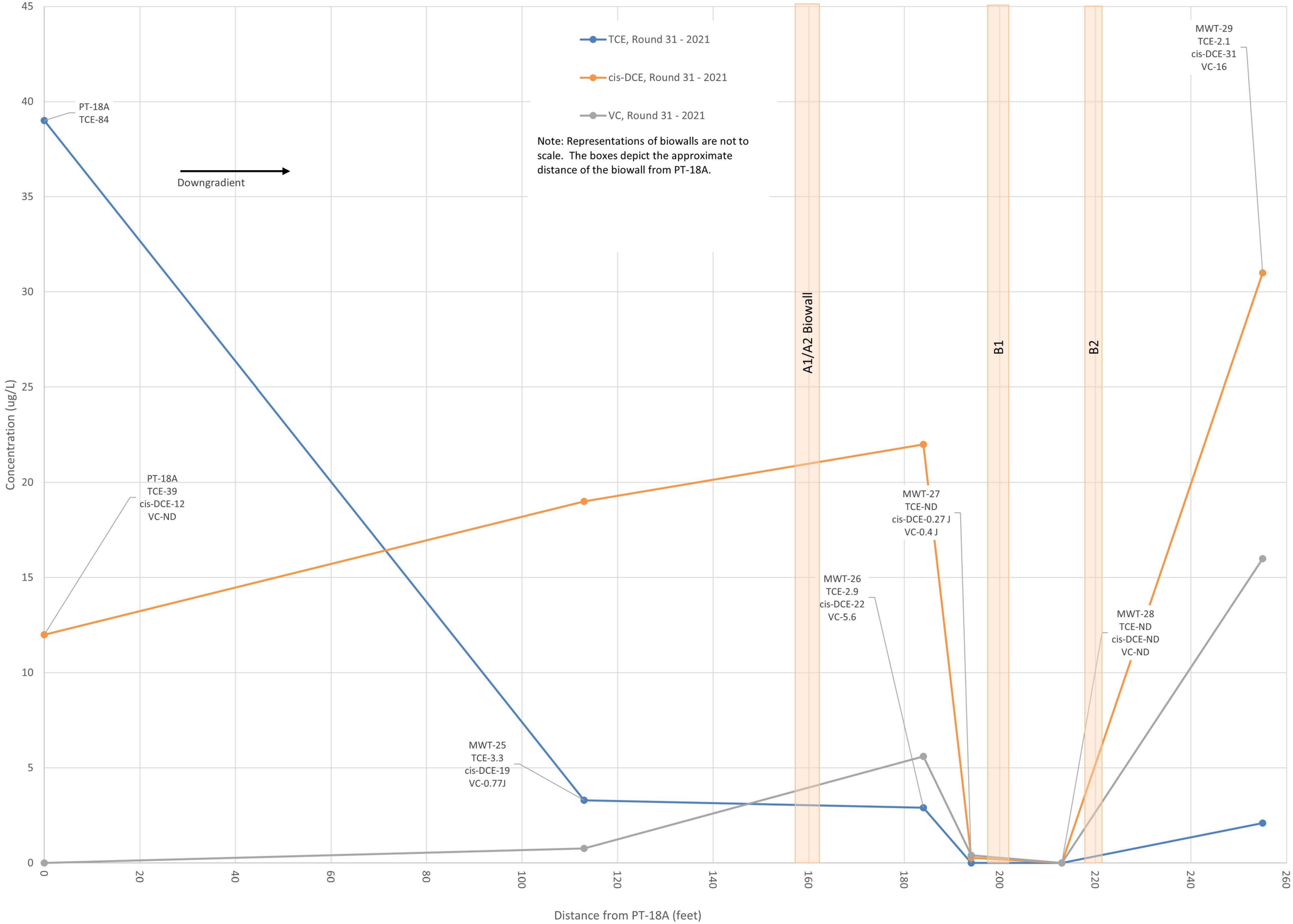


Figure E-9
Round 32 Biowall Concentrations
Seneca Army Depot

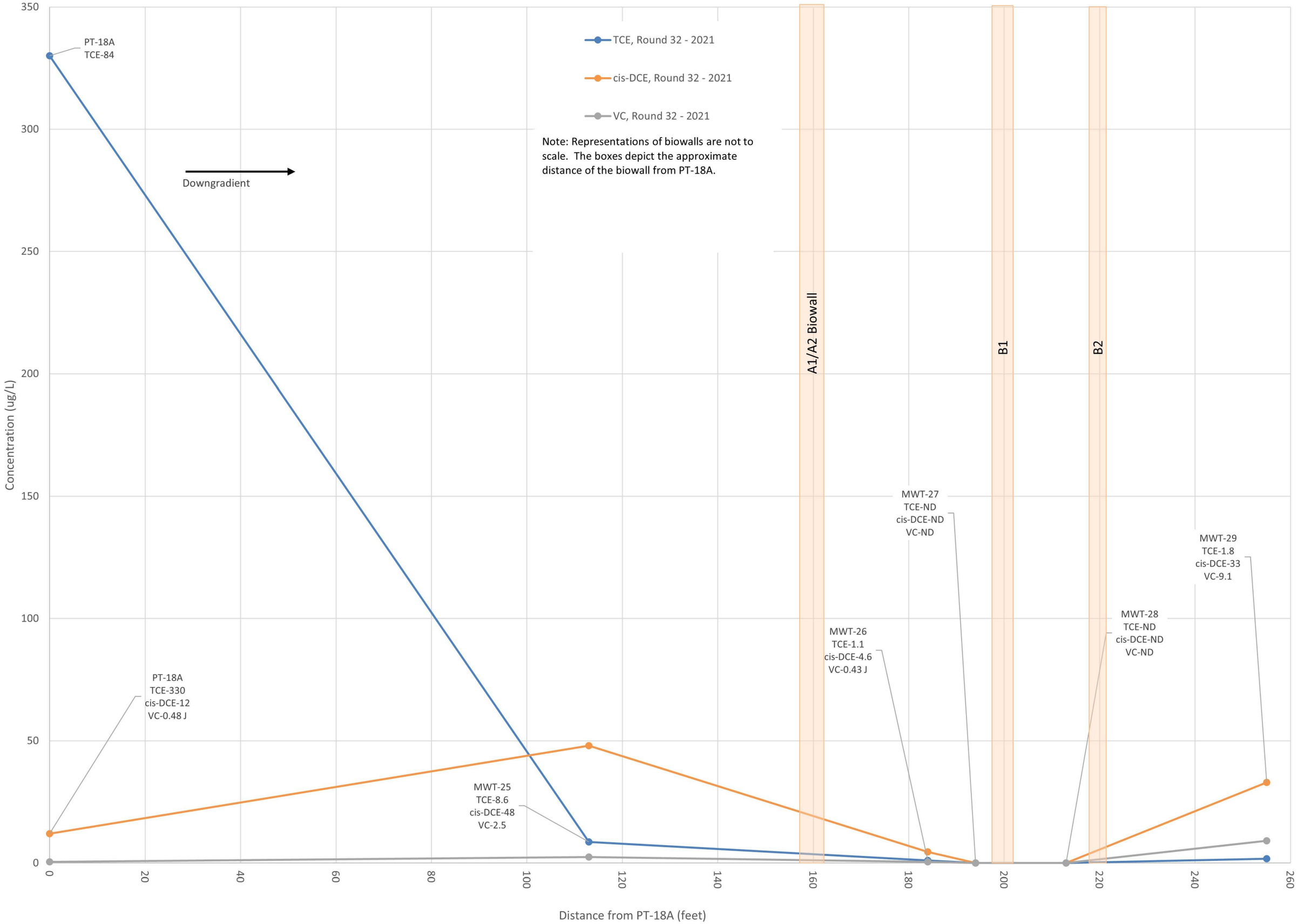


Figure E-10
Round 33 Biowall Concentrations
Seneca Army Depot

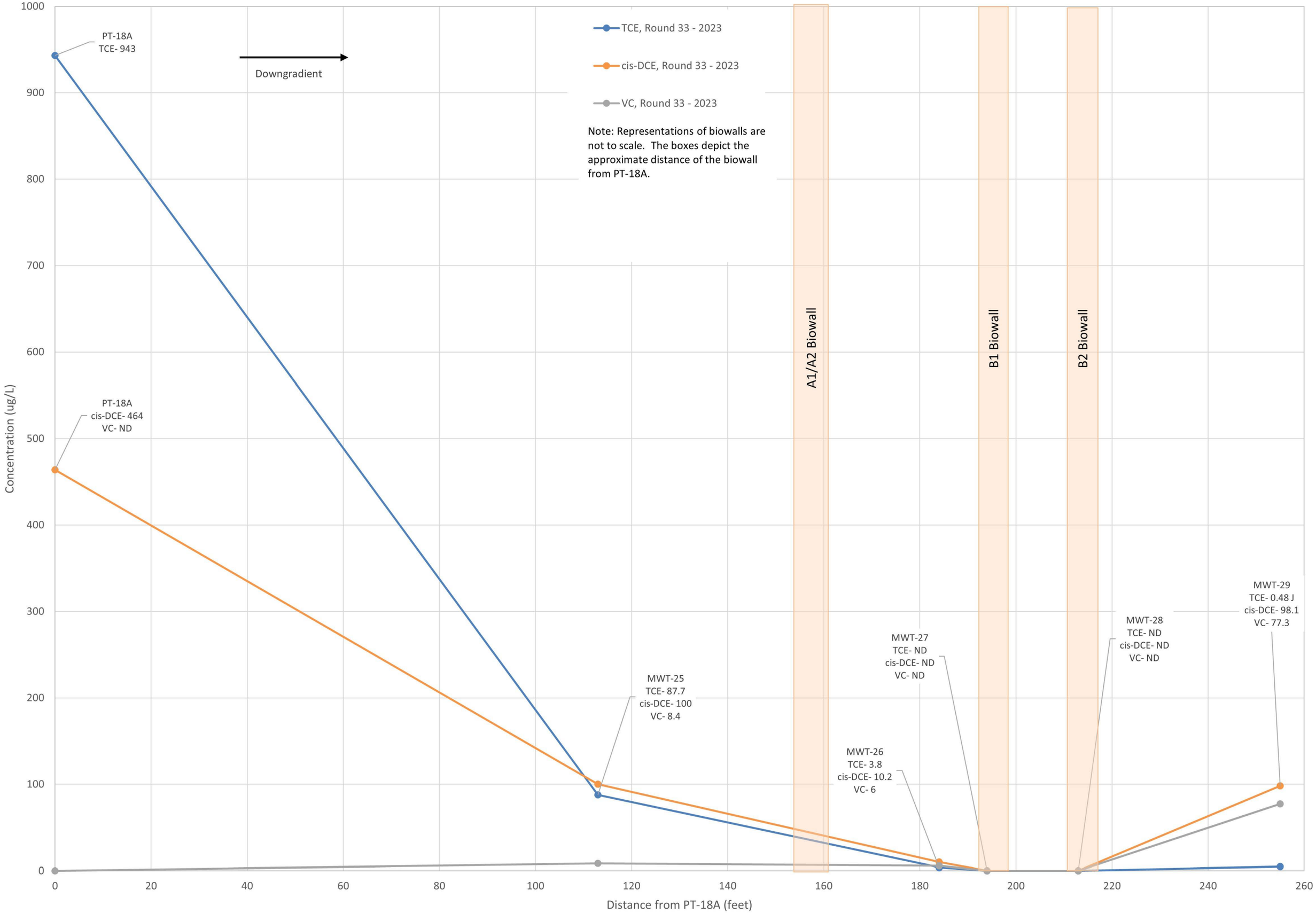
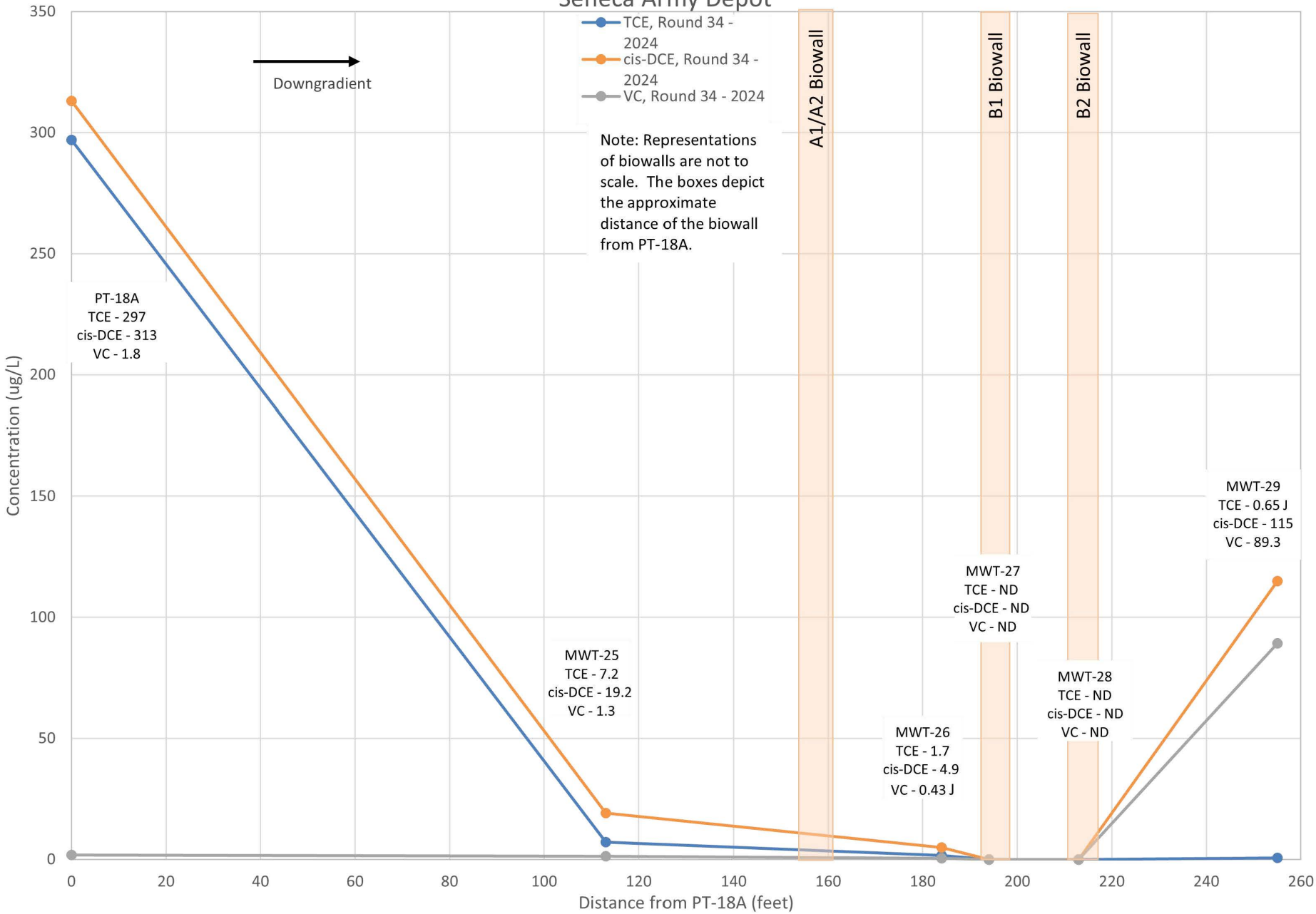


Figure E-11
Round 34 Biowall Concentrations
Seneca Army Depot



This page intentionally left blank